



# **2022 Periodic Review Groundwater Monitoring and Sampling Annual Report**

**815 River Road Site  
Site Number B00178  
City of North Tonawanda**

Prepared for:  
City of North Tonawanda  
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# **1. Site Background**

## **1.1 Site Location and History**

This one-acre parcel of land is located directly across from the City of North Tonawanda (City) Wastewater Treatment Plant (WWTP). The City acquired the 815 River Road parcel in 2000 through tax foreclosure. Prior to the City's acquisition of the property, a company that maintained school buses occupied this property. As part of this business, this company maintained fueling systems that included underground storage tanks (USTs) for gasoline and motor oil. City records indicated that the USTs were in place for over 40 years. Presently, the property is owned by Metzger Removal, Inc. as a C&D crushing/recycling operation. A Site location map is presented on Figure 1.

A previous Site investigation completed in January 2001 by Green Environmental Specialists, Inc. (Green) identified seven buried USTs. Analytical testing detected the presence of benzene in two USTs. Site reporting also indicated that the soil and groundwater surrounding the USTs may have been impacted through UST leakage. Shortly after the completion of Green's Site investigation, remedial construction was initiated by a private entity interested in remediating and developing the property for commercial/industrial use. Remedial activities resulted in the removal of four USTs.

In September 2002, an additional Site investigation was completed by Parsons Corporation to delineate the extent of contamination and provide tank closure of the four removed USTs from past remedial activities. The Site investigation identified an additional eight USTs.

## **1.2 Site Remediation Activities**

Under a Site Interim Remedial Measure (IRM), UST removal and closure was provided. Demolition of an on-site building was necessary for proper UST closure and to allow access to impacted soils beneath the building. Impacted soils were excavated and removed from the Site for disposal to Tonawanda Landfill. During the removal of impacted soils and surface water, IRM construction was halted by the City due to a contract dispute. All Site activities were discontinued. Contract disputes could not be settled and construction contracts were terminated. The Site was left with an unfinished open excavation with the potential for additional impacted soils to be excavated. Reporting for the Site investigation and IRM activities was not provided to the City.

Stearns & Wheler, LLC was retained by the City to provide engineering services for an IRM that was conducted in November 2007 that included the excavation and disposal of 1,300 tons of impacted and staged soils. This IRM construction completed the excavation and removal of impacted soils that was halted by the City in 2004. The excavation followed the delineation of impacted soils as defined during the Site investigation. The removal of impacted soils extended to the south to a minor extent onto the adjacent property. IRM excavation limits were brought to within approximately 5-feet of the River Road Right-of-Way (ROW). Depth of excavation limits was to the top of clay. Excavated impacted soils were pre-approved for disposal at Modern Landfill and directly loaded into trucks from the excavation. No soils were staged on site. Confirmatory soil samples were collected from the previously impacted area. After confirmatory soil sampling, analytical test results were reported below the Restricted Commercial Use Soil Cleanup Objectives, and the excavation was backfilled.

## **1.3 Site Investigation/Remedial Alternatives Report**

Stearns & Wheler, LLC was retained by the City to provide engineering services and perform a Site Investigation/Remedial Alternatives Report (SI/RAR). The SI/RAR was completed in January 2008 and selected institutional controls for both impacted soils and groundwater media. The completed 2007 IRM achieved the SI/RAR reported Restricted Commercial Soil Cleanup Objectives.



## **1.4 Institutional and Engineering Controls**

Institutional controls were recommended as the most feasible and selected alternative as reported in the SI/RAR dated January 2008 and included the environmental easement for future redevelopment and ownership of the Site. The Site Management Plan (SMP) addresses the excavation procedures for the remaining soils for future redevelopment, and includes soil management, characterization, and disposal of excavated soils in accordance with the applicable New York State Department of Environmental Conservation (NYSDEC) regulations. The SMP is presented in Section 4.

In addition, the environmental easement imposes a deed restriction that requires compliance with the approved SMP and limits the future use of groundwater from the Site. Installation of potable wells at the Site is prohibited, as is any future use of groundwater at the Site. Annually, future owners are required to certify to the NYSDEC that the implemented remedy has been maintained in accordance with the SMP.

## **2. Groundwater Monitoring Activities**

The Monitoring Plan includes the necessary actions required to maintain the Site. This Monitoring Plan includes a description of a long-term environmental monitoring program, specific information on all of the equipment and materials used in any monitoring systems, contingencies for emergencies, and reporting requirements.

### **2.1 Site Hydrogeology**

The presence of the Niagara River located to the west of the Site suggests that the river will act as the regional discharge zone. Locally, however, groundwater is possibly intercepted by the 36-inch diameter sanitary sewer line located along River Road. The top of the silty clay unit that is consistent throughout the Site has been logged and reported to range in depth between 4 to 5 feet. Standard sewer construction consists of a sewer pipe laid on gravel bedding material with the rest of the sewer trench filled with a gravel backfill. Since the sanitary sewer located along River Road is approximately 15 feet deep, the bottom of the sewer trench is deeper than the top of the silty clay unit. Any groundwater migrating from the Site should follow the top of clay and infiltrate into the gravel backfilled sewer trench. Once in the trench, groundwater can enter the sewer through infiltration and be transmitted to the City's WWTP for treatment.

### **2.2 Monitoring Requirements**

Annual monitoring is performed at the Site. Groundwater monitoring was initially conducted after the remediation was completed and thereafter on an annual basis upon NYSDEC request. Methods used are consistent with NYSDEC requirements.

### **2.3 Groundwater Monitoring**

The 2022 monitoring program at the 815 River Road Site consisted of one annual sampling event. Groundwater was sampled from monitoring wells MW-1 and MW-2 on August 10, 2022. The locations of groundwater monitoring wells MW-1 and MW-2 are approximately 10 feet from the River Road curb line at the 815 River Road property. This sampling event represents the 9<sup>th</sup> event of the groundwater monitoring program. A Site plan is presented on Figure 2.

Groundwater sampling of monitoring wells MW-1 and MW-2 were collected using low-flow purging and sampling techniques. Prior to sampling, the monitoring well was purged using a disposable bailer. Groundwater parameters of pH, specific conductance, dissolved oxygen (DO), temperature, and oxidation-reduction potential (ORP) were recorded. After the field parameters were recorded, groundwater samples were collected with a disposable bailer and transferred into sample containers provided by the testing laboratory. Groundwater elevation data was recorded.

Purge water generated from monitoring wells MW-1 and MW-2 were discharged to the ground. Groundwater Field Sampling Records are presented in Appendix A.

Several quality control samples, including a trip blank, field duplicate, and MS/MSD were collected during the sampling event. Samples were delivered under chain of custody to Eurofins for analysis of Volatile Organic Compounds (VOCs) by USEPA SW-846 Method 8260. The specific sampling protocol to be used, including sample preservation techniques, Quality Assurance/Quality Control (QA/QC) objectives, a description of chain-of-custody documentation, and analytical parameters are included in the SMP.

## 3. Groundwater Monitoring Results

### 3.1 2022 Groundwater Monitoring

This section presents the analytical results of the annual groundwater sampling event performed on August 10, 2022 and represents groundwater monitoring for the 2022 reporting year. Analytical results are presented in Table 1 and the laboratory report is presented in Appendix B. Sampling field parameters are presented in Table 2. Included in this section are descriptions of the identification and distribution of constituents present in groundwater, and a comparison of historical data. Constituents are compared to the applicable NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) Groundwater Standards and Guidance Values.

**Table 3**      *Field Groundwater Parameters*

| Parameter               | Monitoring Well Location |      |
|-------------------------|--------------------------|------|
|                         | MW-1                     | MW-2 |
| Temperature (°C)        | 25.1                     | 26.9 |
| pH                      | 7.49                     | 7.09 |
| Conductivity (mS/cm)    | 2.37                     | 2.37 |
| Dissolved Oxygen (mg/L) | 1.21                     | 4.48 |
| Turbidity (NTUs)(1)     | 5.14                     | 7.70 |
| ORP (mV)                | -243                     | -289 |

The Data Usability Summary Report is presented in Appendix C. The QA/QC measurements examined for the data were within method-specified or laboratory-derived limits. No data were rejected as a result of the data validation.

Groundwater in the southwest corner of the Site has been impacted with concentrations of VOCs. VOC concentrations were detected in groundwater collected from monitoring wells MW-1 and MW-2 that exceed groundwater standards. VOC concentrations detected in groundwater from the sampling conducted in 2007, 2012, 2015, 2016, 2017, 2019, 2020, 2021, and the 2022 sampling event completed on August 10, 2022 were compared to determine a trending analysis.

## 3.2 Monitoring Well MW-1 Test Results

Groundwater analytical results from monitoring well MW-1 detected the following total VOC concentrations from 2007, 2012, 2015, 2016, 2017, 2019, 2020, 2021, and 2022.

|      |            |
|------|------------|
| 2007 | 6.0 µg/L   |
| 2012 | 148.0 µg/L |
| 2015 | 28.0 µg/L  |
| 2016 | 57.3 µg/L  |
| 2017 | 112.8 µg/L |
| 2019 | 74.3 µg/L  |
| 2021 | 138 µg/L   |
| 2022 | 152 µg/L   |

Groundwater monitoring for the reporting years of 2012, 2015, 2016, 2017, 2019, 2021, and 2022 detected VOC concentrations that exceeded the groundwater standard for the following parameter: isopropylbenzene. A trending graph shows fluctuating VOCs concentrations since 2012 as presented on Figure 3.

Concentrations of cyclohexane were detected in 2012, 2016, 2017, and 2019, 2021, and 2022. Concentrations of methylcyclohexane were detected in 2012, 2017, 2021, and 2022. No groundwater quality standard is established for cyclohexane and methylcyclohexane.

## 3.3 Monitoring Well MW-2 Test Results

Groundwater test results from monitoring well MW-2 detected the following total VOC concentrations from 2007, 2012, 2015, 2016, 2017, 2018, 2019, 2021, and 2022.

|      |              |
|------|--------------|
| 2007 | 1,230.0 µg/L |
| 2012 | 3,345.0 µg/L |
| 2015 | 1,866.1 µg/L |
| 2016 | 3,474.3 µg/L |
| 2017 | 2,771.1 µg/L |
| 2019 | 3,539.7 µg/L |
| 2020 | 2,407.3 µg/L |
| 2021 | 3,536.5 µg/L |
| 2022 | 2,213.9 µg/L |

Groundwater monitoring for the reporting years of 2012, 2015, 2016, 2017, 2019, 2020, 2021, 2022 detected VOC concentrations that exceeded the groundwater standard. A trending graph shows a generally stable/decreasing trend of detected VOCs with the exception of ethylbenzene as presented on Figure 4.

Concentrations of cyclohexane were detected in 2015, 2016, 2017, 2019, 2020, 2021, and 2022. Concentrations of methylcyclohexane were detected in 2015, 2016, 2017, 2019, 2020, 2021, and 2022. No groundwater quality standard is established for cyclohexane and methylcyclohexane.

## **4. Soil Management Plan**

The objective of the SMP is to set guidelines for management of soil material during any future activities, which would breach the cover system at the Site. The SMP addresses environmental concerns related to soil management and has been reviewed and approved by the NYSDEC.

### **4.1 Nature and Extent of Contamination**

Based on data obtained from previous investigations and the IRM remediation completed at the Site, a Final Engineering Report for the 815 River Road Site Remediation dated June 2008 was completed by Stearns & Wheler, LLC.

During Site investigation activities, impacted soils were identified. The impacted soil area was excavated, removed, and disposed off-Site during an IRM completed in 2007. Impacted soils were sampled and categorized to preliminarily delineate the extent of the contamination and for waste characterization for off-Site disposal. The impacted soils were excavated to the top of clay which was defined ranging between 9 to 11 feet.

The impacted soil contained concentrations of both volatile and semi-volatile compounds. All concentrations reported during the 2007 IRM were below the Restricted Commercial Use Soil Cleanup Objectives. VOC parameters with the highest concentrations included xylene and ethylbenzene. Semi-volatile compounds were detected to a lesser degree including naphthalene. The potential exposure pathways include inhalation, absorption, ingestion, and contact. Health effects from exposure to these chemical compounds are eye, skin, and respiratory irritants.

The constituents of potential concern for soil consist primarily of residual VOCs and poly aromatic hydrocarbons (PAHs). Results of groundwater sampling indicate that constituents in the soil/fill material have impacted groundwater quality with low concentrations of volatile and semi-volatile compounds. Groundwater in the southwest corner of the Site has been impacted with low concentrations of benzene, 1,2-dichloropropane, toluene, xylene, and ethylbenzene. Analytical test results indicated that groundwater standards have exceeded groundwater standards.

Groundwater in this portion of the Site presumably flows toward the 36-inch diameter sanitary sewer line that runs down the east side of River Road. As stated in Section 2.1 Site Hydrogeology, since the sanitary sewer located along River Road is approximately 15-feet deep, the bottom of the sewer trench is deeper than the top of silty clay unit. Any groundwater migrating from the Site should follow the top of clay and infiltrate into the gravel backfilled sewer trench. Once in the trench, groundwater can enter the sewer through infiltration and could be transmitted to the City's WWTP for treatment.

Deed restrictions enacted by the City, prohibits the installation of potable wells on the property.

### **4.2 Contemplated Use**

As part of the redevelopment project, the property has been identified for industrial/commercial usage. Residential redevelopment will not be permitted. Deed restrictions will require compliance with the SMP. The future use of Site groundwater is prohibited.

### **4.3 Purpose and Description of Surface Cover System**

The purpose of the surface cover system is to eliminate the potential for human contact with fill material and eliminate the potential for contaminated runoff from the property. The cover system consists of existing non-impacted fill soils overlaying the remaining impacted soils located within the River Road ROW. Soil borings completed near the River Road ROW have been logged to report 3 to 6 feet of non-impacted soil overlaying the residually impacted soils. The existing non-impacted soils provide a cover system for any residually impacted materials within the River Road ROW.

## 4.4 Management of Soil/Fill and Long-Term Maintenance

The purpose of this section is to provide environmental guidelines for management of subsurface soils/fill and the long-term maintenance of the cover system during any future intrusive work which breaches the cover system. The SMP includes the following conditions:

- Any breach of the cover system within the River Road ROW of a width of 33 feet, including for the purposes of construction or utilities work, must be replaced or repaired using an acceptable borrow source free of industrial and/or other potential sources of chemical or petroleum contamination. The repaired area must be covered with clean soil and reseeded or covered with impervious product such as concrete or asphalt to prevent erosion in the future.
- The cover system must be maintained within the River Road ROW since residual impacted soils above NYSDEC Part 375 Unrestricted Use Cleanup Objectives may be present.
- Control surface erosion and run-off from the entire property at all times, including during construction activities. This includes proper maintenance of the fill cover established on the property.
- Site soil that is excavated and is intended to be removed from the property must be managed, characterized, and properly disposed of in accordance with NYSDEC regulations and directives.
- Soil excavated at the Site may be reused as backfill material on-Site provided it contains no visual or olfactory evidence of contamination and is placed beneath a cover system component of 2 to 3 feet of clean fill from an acceptable source area.
- Any off-Site fill material brought to the Site for filling and grading purposes shall be from an acceptable borrow source free of industrial and/or other potential sources of chemical or petroleum contamination.
- Prior to any construction activities, workers shall be notified of the Site conditions with clear instructions regarding how the work is to proceed. Invasive work performed at the property will be performed in accordance with all applicable local, state, and federal regulations to protect worker health and safety.
- An annual report will contain certification that the institutional controls put in place, pursuant to Operation, Monitoring, and Maintenance Plan (OM&M), are still in place, have not been altered and are still effective; that the remedy and protective cover have been maintained; and that the conditions at the Site are fully protective of public health and the environment. Inspection will be documented and a letter will be submitted to the NYSDEC. The Site designated representative has included the signed IC-EC Certification as presented in Appendix D.

## 4.5 Excavated and Stockpiled Soil/Fill Disposal

Every effort will be made to keep excavated soils on Site. The proper management of the remaining impacted subsurface soils located within the River Road ROW and other possibly impacted Site soils must be provided. Soil/fill that is excavated as part of redevelopment that cannot be used as fill below the cover system will be characterized prior to transportation off-Site for disposal at a permitted facility. For excavated soil/fill with visual evidence of contamination (i.e., staining or elevated photoionization detector (PID) measurements), one composite sample and a duplicate sample will be collected for each 100 cubic yards of stockpiled soil/fill. For excavated soil/fill that does not exhibit visual evidence of contamination but must be sent for off-Site disposal, one composite sample and a duplicate sample will be collected for each 2,000 cubic yards of stockpiled soil, and a minimum of one sample will be collected for volumes less than 2,000 cubic yards.

The composite sample will be collected from five locations within each stockpile. A duplicate composite sample will also be collected. PID measurements will be recorded for each of the five individual locations. One grab sample will be collected from the individual location with the highest PID measurement. If none of the five individual sample locations exhibit PID readings, one location will be selected at random. The composite sample will be analyzed by a NYSDOH ELAP-certified laboratory for pH (EPA Method 9045C) and Target Compound List (TCL) semi-volatile organic compounds (SVOCs). The grab sample will be analyzed for TCL VOCs.

Additional characterization sampling for off-Site disposal may be required by the disposal facility. To potentially reduce off-Site disposal requirements/costs, the owner or Site developer may also choose to characterize each stockpile individually. If the analytical results indicate that concentrations exceed the standards for Resource Conservation and Recovery Act (RCRA) characteristics, the material will be considered a hazardous waste and must be properly disposed off-Site at a permitted disposal facility within 90 days of excavation. If analytical results indicate that the soil is not a hazardous waste, the material will be properly disposed off-Site at a non-hazardous waste facility. Stockpiled soil cannot be transported on or off-Site until analytical results are received.

## 4.6 Subgrade Materials

Subgrade material used to backfill excavations or placed to increase Site grades or elevation shall meet the following criteria.

- Subgrade material stockpiled on the surface for re-use must be placed on a liner material or other suitable surface to avoid the commingling of this material with clean topsoil or other surface materials. Stockpiled subgrade material should also be managed to prevent erosion and runoff of precipitation waters which may contact this material.
- Excavated on-Site soil/fill which appears to be visually impacted shall be sampled and analyzed. If backfill materials are suspect, then analytical testing will be required. If soils or soil mixtures are used as backfill materials, they will be sampled for VOCs, SVOCs, pesticides and Polychlorinated Biphenols (PCBs), and metals, and compared to limits listed under Restricted Commercial on Table 3: Imported Backfill Limits.
- Any off-Site fill material brought to the Site for filling and grading purposes shall be from an acceptable borrow source free of industrial and/or other potential sources of chemical or petroleum contamination. A letter will be required from the backfill supplier certifying material is clean from any hazardous and/or solid waste materials.
- Off-Site soils intended for use as Site backfill cannot otherwise be defined as a solid waste in accordance with 6 NYCRR Part 360-2(a).
- If the contractor designates a source as "virgin" soil, it shall be further documented in writing to be native soil material from areas not having supported any known prior industrial or commercial development or agricultural use.
- Virgin soils should be subject to collection of one representative composite sample per source. The sample should be analyzed for TCL VOCs, SVOCs, pesticides, PCBs, and TAL metals. The soil will be acceptable for use as backfill provided that all parameters meet the Imported Backfill Limits.
- Non-virgin soils will be tested via collection of one composite sample per 500 cubic yards of material from each source area. If more than 1,000 cubic yards of soil are borrowed from a given off-Site non-virgin soil source area and both samples of the first 1,000 cubic yards meet Table 3 Limits, the sample collection frequency will be reduced to one composite for every 2,500 cubic yards of additional soils from the same source, up to 5,000 cubic yards. For borrow sources greater than 5,000 cubic yards, sampling frequency may be reduced to one sample per 5,000 cubic yards, provided all earlier samples met the imported backfill limits.

## 4.7 Site Usage

The Site is presently used by Metzger Removal, Inc. as a C&D crushing/recycling operation. Concrete, brick and other materials are hauled to the Site from demolition sites in the surrounding area, and stockpiled for the crushing operation. After crushing, conveyors collect the crushed material and stage in stockpiles. No excavation took place at the Site during the period between 2012 and 2022.

## 5. Conclusions

Analytical testing from the 2022 groundwater monitoring detected the following VOCs in groundwater sampled from monitoring wells MW-1 and MW-2: acetone (MW-2), benzene (MW-2), ethylbenzene (MW-2), cyclohexane (MW-1 and MW-2), methylcyclohexane (MW-1 and MW-2), isopropylbenzene (MW-1 and MW-2), toluene (MW-2), and total xylenes (MW-2) at concentrations that were equal to or exceeded the groundwater standard.

### 5.1 Monitoring Well MW-1 Results

The concentrations of ethylbenzene at monitoring well MW-1 have fluctuated over time. In 2007, the concentration of ethylbenzene was detected at an estimated 2 µg/L concentration, which is below the groundwater standard. Test results from the 2021 groundwater monitoring event detected the concentration of ethylbenzene at 13 µg/L, which represents an increase from the previous sampling event. Ethylbenzene was not detected in the 2022 groundwater monitoring event.

Concentrations of isopropylbenzene at monitoring well MW-1 have similarly fluctuated over time. Isopropylbenzene was not detected at monitoring well MW-1 in 2007. Test results since the 2012 sampling event indicated detected concentrations of isopropylbenzene ranging between 19 and 45 µg/L. Test results from the most recent 2022 groundwater monitoring detected the concentration of isopropylbenzene at 45 µg/L; however, this is consistent with the concentration of 42.7 µg/L detected in 2017.

### 5.2 Monitoring Well MW-2 Results

Concentrations of benzene at monitoring well MW-2 have fluctuated between the reporting periods of 2007, 2012, 2015, 2016, 2017, and 2019, but have decreased since. The following concentrations of benzene and corresponding percent annual increases and decreases were detected in groundwater:

|      |          |               |
|------|----------|---------------|
| 2007 | 140 µg/L | NA            |
| 2012 | 560 µg/L | 300% increase |
| 2015 | 151 µg/L | 73% decrease  |
| 2016 | 280 µg/L | 85% increase  |
| 2017 | 207 µg/L | 26% decrease  |
| 2019 | 269 µg/L | 30% increase  |
| 2020 | 192 µg/L | 29% decrease  |
| 2021 | 155 µg/L | 19% decrease  |
| 2022 | 130 µg/L | 16% decrease  |

Concentrations of ethylbenzene at monitoring well MW-2 have fluctuated over the nine reporting periods of 2007, 2012, 2015, 2016, 2017, 2019, 2020, 2021, 2022. The following concentrations of ethylbenzene and corresponding annual percent increases and decreases were detected in groundwater:

|      |            |               |
|------|------------|---------------|
| 2007 | 460 µg/L   | NA            |
| 2012 | 1,500 µg/L | 226% increase |
| 2015 | 878 µg/L   | 41% decrease  |
| 2016 | 2,030 µg/L | 131% increase |
| 2017 | 2,050 µg/L | 1% increase   |

|      |            |              |
|------|------------|--------------|
| 2019 | 2,000 µg/L | 2% decrease  |
| 2020 | 1,410 µg/L | 30% decrease |
| 2021 | 2,250 µg/L | 37% increase |
| 2022 | 1,600 µg/L | 29% decrease |

Concentrations of isopropylbenzene at monitoring well MW-2 have fluctuated over the nine reporting periods of 2007, 2012, 2015, 2016, 2017, 2019, 2020, 2021, and 2022. The following concentrations of isopropylbenzene and corresponding annual percent increases and decreases were detected in groundwater:

|      |          |               |
|------|----------|---------------|
| 2007 | ND       | NA            |
| 2012 | 220 µg/L | -             |
| 2015 | 115 µg/L | 48% decrease  |
| 2016 | 277 µg/L | 141% increase |
| 2017 | 247 µg/L | 11% decrease  |
| 2019 | 237 µg/L | 4% decrease   |
| 2020 | 200 µg/L | 16% decrease  |
| 2021 | 370 µg/L | 85% increase  |
| 2022 | 260 µg/L | 30% decrease  |

Concentrations of toluene at monitoring well MW-2 have fluctuated between the reporting periods of 2007, 2012, 2015, 2016, 2017, 2019, and 2020 but have decreased since. The following concentrations of toluene and corresponding annual percent increases and decreases were detected in groundwater:

|      |           |               |
|------|-----------|---------------|
| 2007 | 70 µg/L   | NA            |
| 2012 | ND        | 100% decrease |
| 2015 | 19.1 µg/L | -             |
| 2016 | 39.4 µg/L | 106% increase |
| 2017 | 13.4 µg/L | 66% decrease  |
| 2019 | 42.7 µg/L | 218% increase |
| 2020 | 48.3 µg/L | 13% increase  |
| 2021 | 31.5 µg/L | 35% decrease  |
| 2022 | 6.9J µg/L | 78% decrease  |

Concentrations of total xylenes at monitoring well MW-2 have fluctuated between the reporting periods of 2007, 2012, 2015, 2016, 2017, and 2018, but have decreased since. The following concentrations of total xylenes and corresponding annual percent increases and decreases were detected in groundwater:

|      |          |               |
|------|----------|---------------|
| 2007 | 520 µg/L | NA            |
| 2012 | 840 µg/L | 62% increase  |
| 2015 | 424 µg/L | 50% decrease  |
| 2016 | 620 µg/L | 46% increase  |
| 2017 | 99 µg/L  | 84% decrease  |
| 2018 | 655 µg/L | 561% increase |



|      |          |              |
|------|----------|--------------|
| 2019 | 557 µg/L | 15% decrease |
| 2021 | 330 µg/L | 41% decrease |
| 2022 | 15J µg/L | 95% decrease |

In general, detected VOCs concentrations exhibit a stable/decreasing trend of with the exception of total ethylbenzene.

## 5.3 Future Abatement

An Interim Remedial Measure (IRM) was completed in November 2007 that included the excavation and disposal of 1,300 tons of impacted and staged soils. The excavation followed the delineation of impacted soils as defined in the site investigation report. IRM excavation limits at the southwest corner of the impacted area extended to the approximate bounds of the River Road ROW. The excavation of impacted material near the ROW was limited due to the close proximity of utilities and NYSDOT Route 265 (River Road) pavement. Excavation was not scaled back to a standard angle of repose for the reason of removing as much impacted soil as possible. Depth of excavation limits was to the top of clay ranging in depth from 10.5 to 11.5 feet. Confirmatory soil samples were collected prior to backfill.

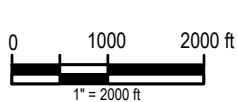
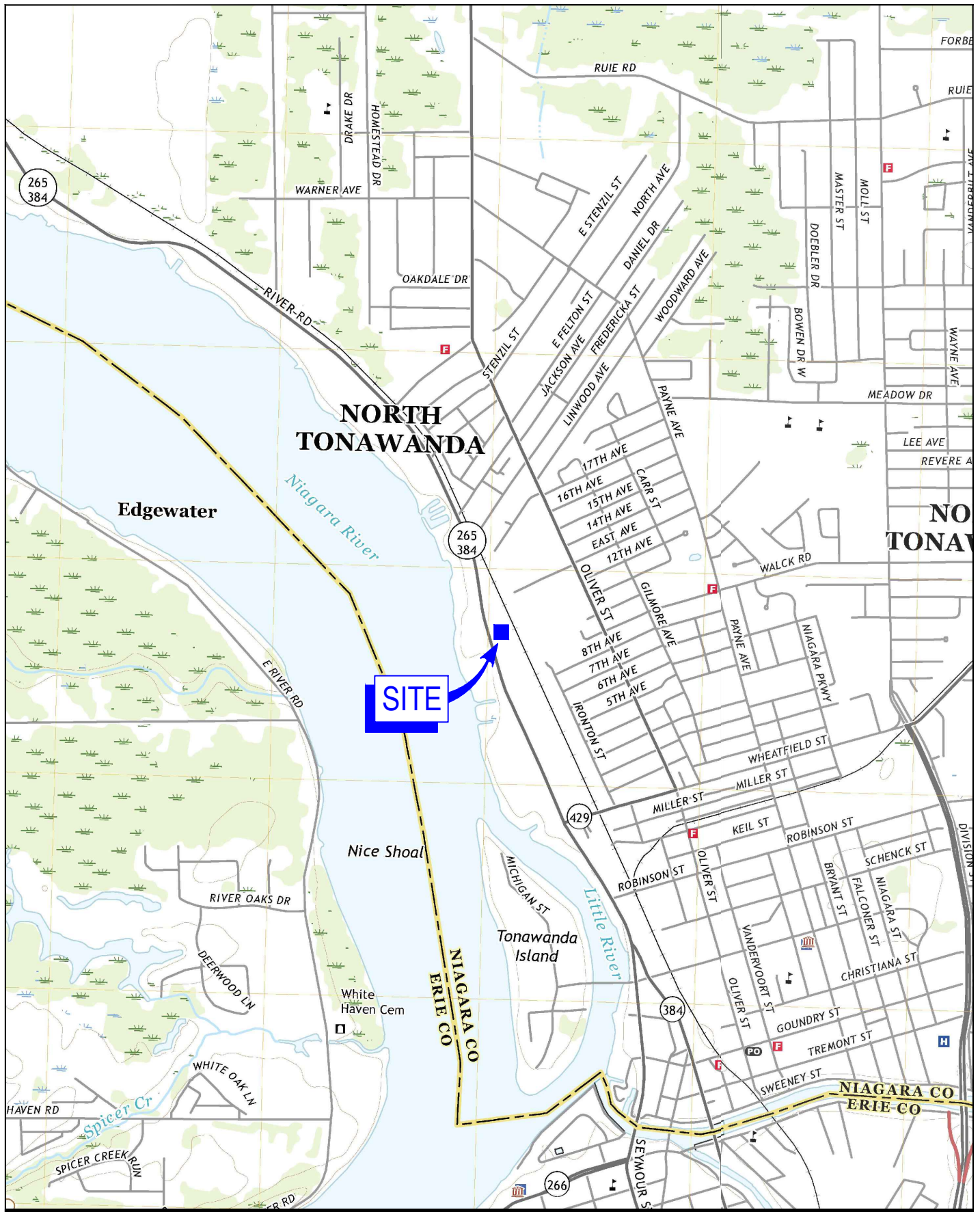
During the IRM, it was evident that impacted soils remained at the final location of the southwest excavated wall. Impacted soils were excavated as far as possible to the River Road ROW. No further excavation could be advanced without putting in jeopardy utilities and the River Road pavement. The City remediated the property to the River Road ROW and no further remediation or removal of impacted soils could take place.

Wells were installed knowing that groundwater would be impacted and that groundwater test results could be above groundwater standards as reported in previous Periodic Review Reports. Groundwater Monitoring and Sampling Annual Reporting detected a number of VOCs in groundwater equal to or exceeding the groundwater standard. As reported, local groundwater movement at the Site is toward the Niagara River and the City's combined interceptor River Road sewer. This sewer should act as an interceptor of groundwater ultimately discharging to the City's WWTP and current carbon treatment.

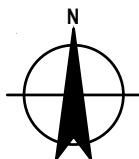
The Site was remediated to the extent practically possible. The remaining impacted soils appear to be located at and under the River Road ROW, which is not City property. The impacted groundwater is the result of the presence of impacted soils located at the River Road ROW.

No future abatement is proposed at this time since impacted soils are not located on formerly City-owned property.

# Figures



Coordinate System:  
NY83-WF

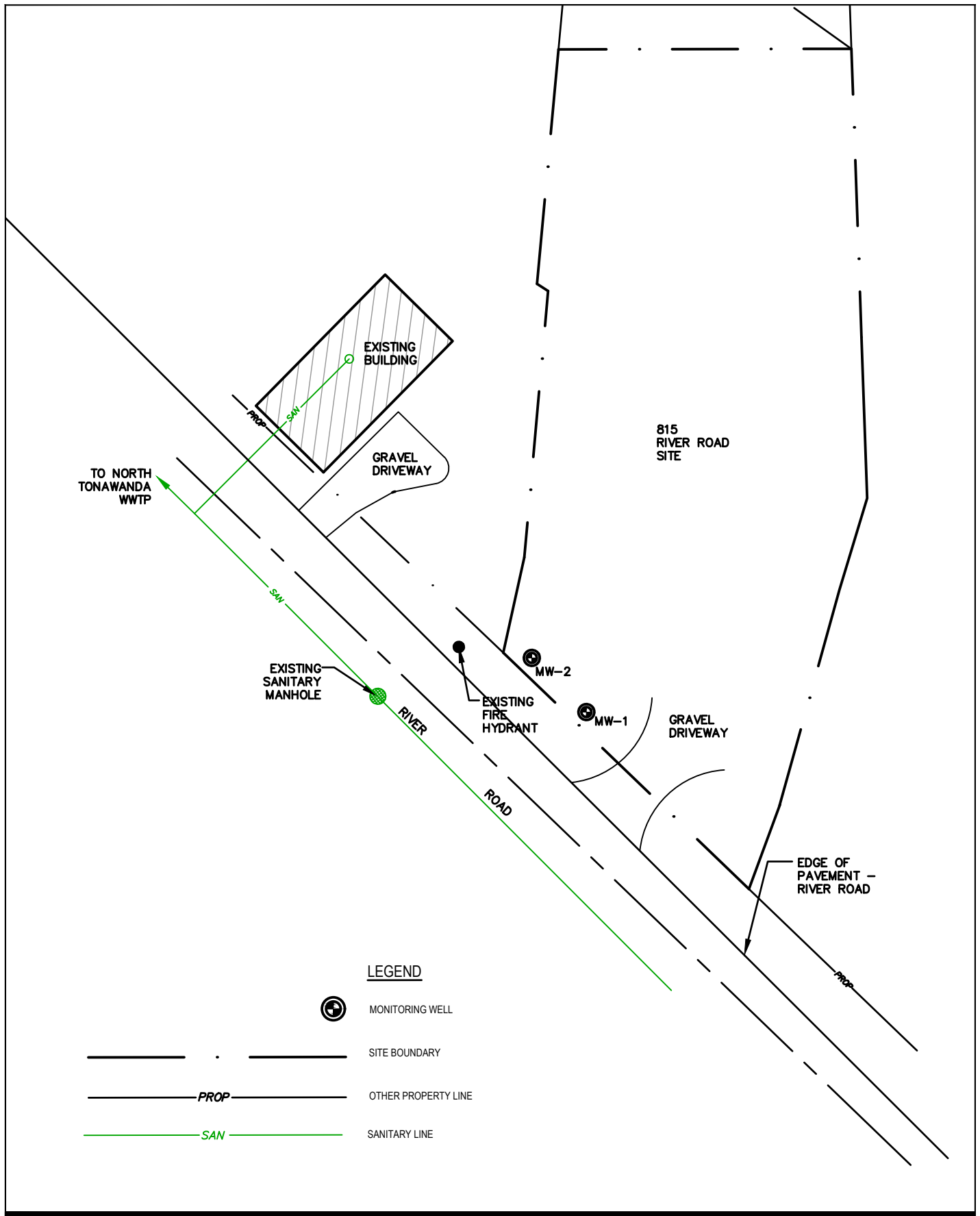


815 RIVER ROAD SITE  
NORTH TONAWANDA, NEW YORK

Project No. 11230275  
Date May 2023

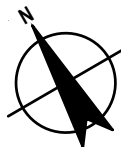
SITE LOCATION

FIGURE 1



0 25 50 ft  
1" = 50 ft

Coordinate System:  
NY83-WF

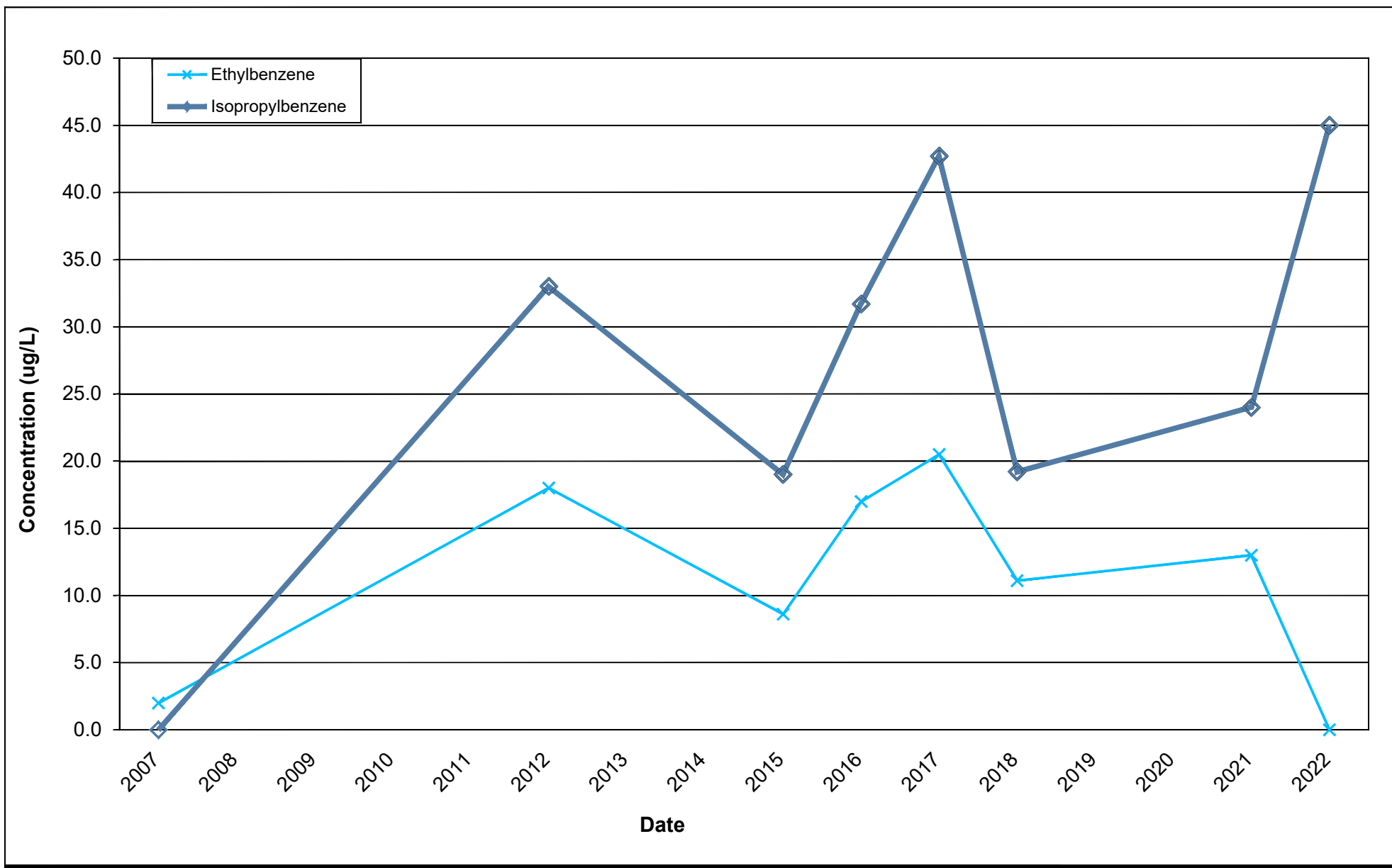


**815 RIVER ROAD SITE**  
**NORTH TONAWANDA, NEW YORK**

Project No. 11230275  
Date May 2023

**SITE PLAN**

**FIGURE 2**

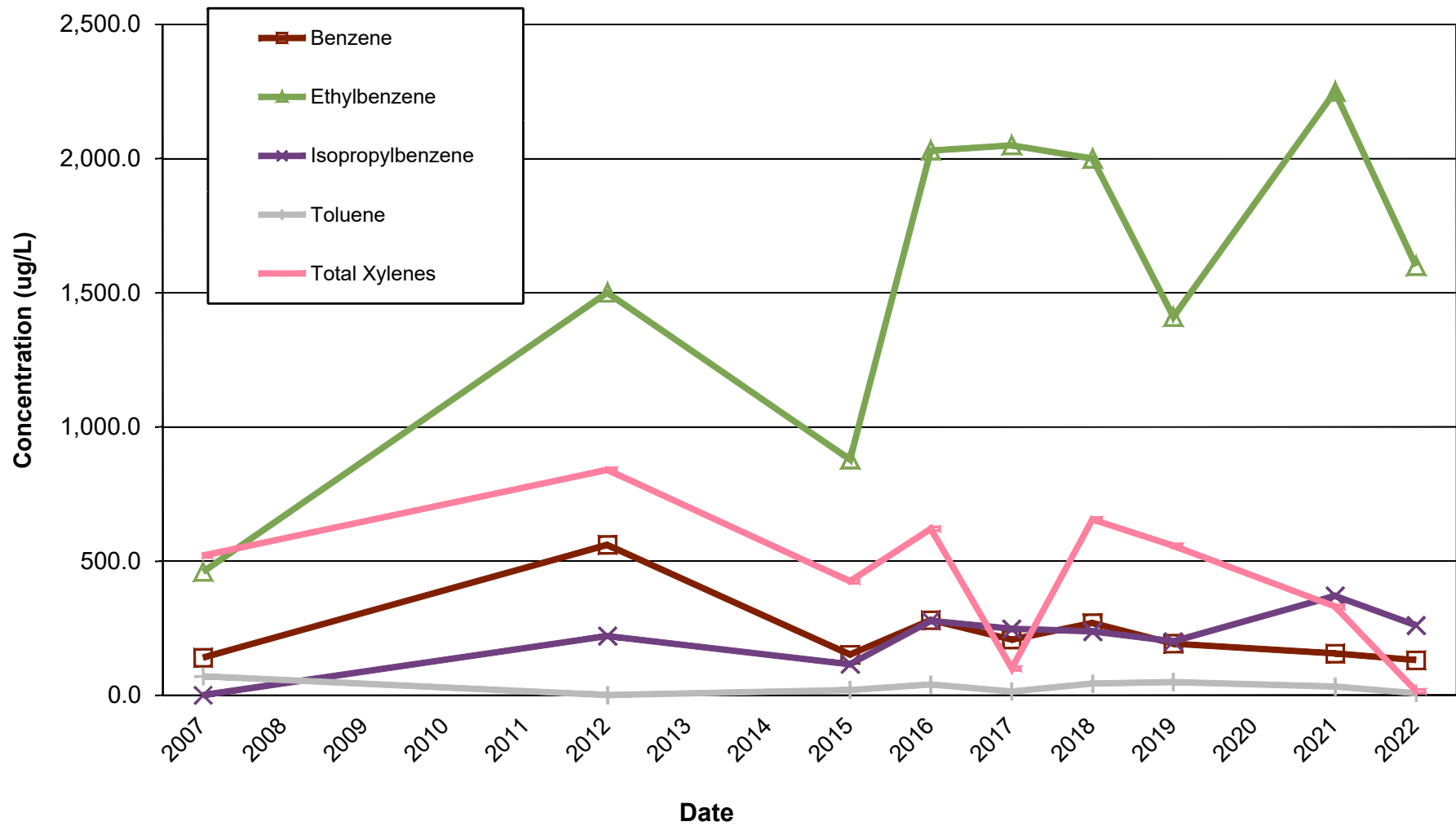


815 RIVER ROAD SITE  
NORTH TONAWANDA, NEW YORK

Project No. 11230275  
Date May 2023

GROUNDWATER VOC CONCENTRATIONS  
IN MW-1 vs TIME

FIGURE 3



815 RIVER ROAD SITE  
NORTH TONAWANDA, NEW YORK

Project No. 11230275  
Date May 2023

GROUNDWATER VOC CONCENTRATIONS  
IN MW-2 vs TIME

FIGURE 4

# Tables

**Table 1**  
**Monitoring Well MW-1**  
**Volatile Organic Analytical Test Results**  
**815 River Road Site**

| Compounds                             | NYSDEC TOGS<br>1.1.1 Water<br>Quality<br>Standards <sup>1</sup> | Units | 07/16/07  | 07/25/12  | 10/20/15     | 10/21/16    | 10/25/17     | 03/21/19     | 01/28/20 | 07/23/21    | 08/10/22    |
|---------------------------------------|-----------------------------------------------------------------|-------|-----------|-----------|--------------|-------------|--------------|--------------|----------|-------------|-------------|
| 1,1,1-Trichloroethane                 | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,1,2,2-Tetrachloroethane             | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | -           | -           |
| 1,1,2-Trichloroethane                 | 1                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,1-Dichloroethane                    | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,1-Dichloroethene                    | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,2,3-Trichlorobenzene                | 5                                                               | µg/L  | -         | ND        | <b>0.41J</b> | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,2,4-Trichlorobenzene                | 5                                                               | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,2-Dibromo-3-Chloropropane DBCP      | 0.04                                                            | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,2-Dibromoethane (EDB)               | NE                                                              | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,2-Dichlorobenzene                   | 3                                                               | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,2-Dichloroethane                    | 0.6                                                             | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,2-Dichloropropane                   | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,3-Dichlorobenzene                   | 3                                                               | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 1,4-Dichlorobenzene                   | 3                                                               | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 2-Hexanone                            | 50                                                              | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Acetone                               | 50                                                              | µg/L  | ND        | ND        | <b>88.8</b>  | ND          | ND           | ND           | NA       | ND          | ND          |
| Benzene                               | 1                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Bromoform                             | 50                                                              | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Bromomethane                          | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Bromodichloromethane                  | 50                                                              | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Bromochloromethane                    | 5                                                               | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Carbon disulfide                      | 60                                                              | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Carbon tetrachloride                  | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Chlorobenzene                         | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Chloroethane                          | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Chloroform                            | 7                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Chloromethane                         | NE                                                              | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| cis-1,2-Dichloroethene                | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| cis-1,3-Dichloropropene               | 0.40                                                            | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Cyclohexane                           | NE                                                              | µg/L  | ND        | <b>82</b> | ND           | <b>8.64</b> | <b>29.10</b> | <b>39.10</b> | NA       | <b>84.0</b> | <b>67.0</b> |
| Dibromochloromethane                  | 50                                                              | µg/L  | ND        | ND        | -            | -           | -            | -            | NA       | ND          | ND          |
| Chlorodibromomethane                  | NE                                                              | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | -           | -           |
| Dichlorodifluoromethane               | 5                                                               | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Ethylbenzene                          | 5                                                               | µg/L  | <b>2J</b> | <b>18</b> | <b>8.6</b>   | <b>17.0</b> | <b>20.5</b>  | <b>11.1</b>  | NA       | <b>13.0</b> | ND          |
| Isopropylbenzene                      | 5                                                               | µg/L  | ND        | <b>33</b> | <b>19.0</b>  | <b>31.7</b> | <b>42.7</b>  | <b>19.2</b>  | NA       | <b>24.0</b> | <b>45.0</b> |
| Methyl acetate                        | NE                                                              | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Methyl Ethyl Ketone (MEK)             | 50                                                              | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Methylcyclohexane                     | NE                                                              | µg/L  | ND        | <b>15</b> | ND           | ND          | <b>20.5</b>  | ND           | NA       | <b>17.0</b> | <b>40.0</b> |
| Methylene chloride                    | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| 4-Methyl 2-Pentanone                  | NE                                                              | µg/L  | -         | -         | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Methyl-t-Butyl Ether (MTBE)           | 10                                                              | µg/L  | -         | ND        | -            | -           | -            | -            | NA       | ND          | ND          |
| Methyl tert-butyl ether               | NE                                                              | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | -           | -           |
| m,p-Xylene                            | 5                                                               | µg/L  | <b>4J</b> | -         | -            | -           | -            | -            | NA       | -           | -           |
| o-Xylene                              | 5                                                               | µg/L  | ND        | -         | -            | -           | -            | -            | NA       | -           | -           |
| Styrene                               | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Tetrachloroethene                     | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Toluene                               | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Total Xylenes                         | 5                                                               | µg/L  | <b>4J</b> | ND        | ND           | ND          | ND           | <b>4.9</b>   | NA       | ND          | ND          |
| trans-1,2-Dichloroethene              | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| trans-1,3-Dichloropropene             | 0.4                                                             | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Trichloroethene                       | 5                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Trichlorofluoromethane                | 5                                                               | µg/L  | -         | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Vinyl Chloride                        | 2                                                               | µg/L  | ND        | ND        | ND           | ND          | ND           | ND           | NA       | ND          | ND          |
| Total VOCs                            |                                                                 | µg/L  | 6.0       | 148.0     | 28.0         | 57.3        | 112.8        | 74.3         | NA       | 138.0       | 152.0       |
| Total VOCs                            |                                                                 | mg/L  | 0.006     | 0.148     | 0.028        | 0.057       | 0.113        | 0.074        | NA       | 0.138       | 0.152       |

## Notes:

- New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) 1.1.1:  
Ambient Water Quality Standards and Guidance Values (µg/L)
- 6.9** Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate equal to or exceedance of TOGS 1.1.1 criteria.
- NE NYSDEC TOGS 1.1.1 water quality standard not established.
- ND The analyte was analyzed for but not detected. The associated value is the analyte quantitation limit.
- NA Not sampled due to well in damaged condition.
- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- The analyte was not sampled for.  
Synonyms: Chlorodibromomethane = Dichlorobromoethane  
Synonyms: 4-Methyl 2-Pentanone = Methyl Isobutyl Ketone  
Synonyms: Methyl Ethyl Ketone (MEK) = 2-Butanone  
Acetone not included in Total VOCs at direction of DEC.



**Table 2**  
**Monitoring Well MW-2**  
**Volatile Organic Analytical Test Results**  
**815 River Road Site**

| Compounds                             | NYSDEC TOGS<br>1.1.1 Water<br>Quality<br>Standards <sup>1</sup> | Units | 07/16/07 | 07/25/12 | 10/20/15 | 10/21/16 | 10/25/17 | 03/21/19 | 01/28/20 | 07/23/21 | 8/10/2022 <sup>2</sup> |
|---------------------------------------|-----------------------------------------------------------------|-------|----------|----------|----------|----------|----------|----------|----------|----------|------------------------|
| 1,1,1-Trichloroethane                 | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,1,2,2-Tetrachloroethane             | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | -        | -                      |
| 1,1,2-Trichloroethane                 | 1                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,1-Dichloroethane                    | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,1-Dichloroethene                    | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,2,3-Trichlorobenzene                | 5                                                               | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,2,4-Trichlorobenzene                | 5                                                               | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,2-Dibromo-3-Chloropropane DBCP      | 0.04                                                            | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,2-Dibromoethane (EDB)               | NE                                                              | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,2-Dichlorobenzene                   | 3                                                               | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,2-Dichloroethane                    | 0.6                                                             | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,2-Dichloropropane                   | 5                                                               | µg/L  | 40J      | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,3-Dichlorobenzene                   | 3                                                               | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 1,4-Dichlorobenzene                   | 3                                                               | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 2-Hexanone                            | 50                                                              | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Acetone                               | 50                                                              | µg/L  | ND       | ND       | 188J     | ND       | ND       | ND       | ND       | ND       | 51J                    |
| Benzene                               | 1                                                               | µg/L  | 140      | 560      | 151      | 280J6    | 207      | 269      | 192      | 155.0    | 130.0                  |
| Bromoform                             | 50                                                              | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Bromomethane                          | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Bromodichloromethane                  | 50                                                              | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Bromochloromethane                    | 5                                                               | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Carbon disulfide                      | 60                                                              | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Carbon tetrachloride                  | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Chlorobenzene                         | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Chloroethane                          | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Chloroform                            | 7                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Chloromethane                         | NE                                                              | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| cis-1,2-Dichloroethene                | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| cis-1,3-Dichloropropene               | 0.40                                                            | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Cyclohexane                           | NE                                                              | µg/L  | ND       | 210      | 71.2     | 169      | 111J6    | 336      | 283      | 280.0    | 130.0                  |
| Dibromochloromethane                  | 50                                                              | µg/L  | ND       | ND       | -        | -        | -        | -        | -        | ND       | ND                     |
| Chlorodibromomethane                  | NE                                                              | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | -        | -                      |
| Dichlorodifluoromethane               | 5                                                               | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Ethylbenzene                          | 5                                                               | µg/L  | 460      | 1,500    | 878V     | 2030     | 2050     | 2000     | 1410     | 2250.0   | 1600.0                 |
| Isopropylbenzene                      | 5                                                               | µg/L  | ND       | 220      | 115      | 277J6    | 247      | 237      | 200      | 370.0    | 260.0                  |
| Methyl acetate                        | NE                                                              | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Methyl Ethyl Ketone (MEK)             | 50                                                              | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Methylcyclohexane                     | NE                                                              | µg/L  | ND       | 15       | 19.8     | 58.9     | 43.3J6   | ND       | 103.0    | 120.0    | 21.0                   |
| Methylene chloride                    | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| 4-Methyl 2-Pentanone                  | NE                                                              | µg/L  | -        | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Methyl-t-Butyl Ether (MTBE)           | 10                                                              | µg/L  | -        | ND       | -        | -        | -        | -        | ND       | ND       | ND                     |
| Methyl tert-butyl ester               | NE                                                              | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | -        | -                      |
| m,p-Xylene                            | 5                                                               | µg/L  | 480      | -        | -        | -        | -        | -        | -        | -        | -                      |
| o-Xylene                              | 5                                                               | µg/L  | 40J      | -        | -        | -        | -        | -        | -        | -        | -                      |
| Styrene                               | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Tetrachloroethene                     | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Toluene                               | 5                                                               | µg/L  | 70J      | ND       | 19.1J    | 39.4     | 13.4     | 42.7     | 48.3     | 31.5     | 6.9J                   |
| Total Xylenes                         | 5                                                               | µg/L  | -        | 840      | 424      | 620      | 99       | 655      | 557      | 330.0    | 15J                    |
| trans-1, 2-Dichloroethene             | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| trans-1,3-Dichloropropene             | 0.4                                                             | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Trichloroethene                       | 5                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Trichlorofluoromethane                | 5                                                               | µg/L  | -        | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Vinyl Chloride                        | 2                                                               | µg/L  | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND                     |
| Total VOCs                            |                                                                 | µg/L  | 1,230.0  | 3,345.0  | 1,866.1  | 3,474.3  | 2,771.1  | 3,539.7  | 2,793.3  | 3,536.5  | 2,213.9                |
| Total VOCs                            |                                                                 | mg/L  | 1.230    | 3.345    | 1.866    | 3.474    | 2.771    | 3.540    | 2.793    | 3.537    | 2.214                  |

## Notes

- 1 New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Water Quality Standards and Guidance Values (µg/L)
  - 2 Duplicate sample collected, Highest concentration shown
- 6.9** Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate equal to or exceedance of TOGS 1.1.1 criteria.
- NE NYSDEC TOGS 1.1.1 water quality standard not established.
- ND The analyte was analyzed for but not detected. The associated value is the analyte quantitation limit.
- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- J6 The sample matrix interfered with the ability to make any accurate determination; spike value is low.
- V The sample concentration is too high to evaluate accurate spike recoveries.
- The analyte was not sampled for.
- Synonyms: Chlorodibromomethane = Dichlorobromoethane  
Synonyms: 4-Methyl 2-Pentanone = Methyl Isobutyl Ketone  
Synonyms: Methyl Ethyl Ketone (MEK) = 2-Butanone

# Appendices

# **Appendix A**

## **Groundwater Sampling Field Logs**



Date: 08/10/2022  
Personnel: D. Van K. Miller  
J. Kowalec

[illegible]

Sample ID: W6-11230275-08102022-KM-002 Sample Time: 17.30

Blind Duplicate WG-11230275-0810222-1km-003

- Start Purge at 13:50

OK  
hrr

# **Appendix B**

## **Analytical Test Results**

## ANALYTICAL REPORT

Job Number: 480-200570-1

Job Description: 11230275, River Road

For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, NY 14304

Attention: Linda Waters



Approved for release.  
Denise D Heckler  
Project Manager II  
8/19/2022 1:07 PM

---

Denise D Heckler, Project Manager II  
180 S. Van Buren Avenue, Barberton, OH, 44203  
(330)966-9477  
Denise.Heckler@et.eurofinsus.com  
08/19/2022

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# Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *+        | LCS and/or LCSD is outside acceptance limits, high biased.                                                     |
| *1        | LCS/LCSD RPD exceeds control limits.                                                                           |
| E         | Result exceeded calibration range.                                                                             |
| F2        | MS/MSD RPD exceeds control limits                                                                              |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

**Job Narrative  
480-200570-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 8/10/2022 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6° C.

**GC/MS VOA**

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: WG-11230275-081022-KM-002 (480-200570-2) and WG-11230275-081022-KM-003 (480-200570-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-637640 recovered outside acceptance criteria, low biased, for 1,2,4-Trichlorobenzene. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-637640 recovered above the upper control limit for Acetone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: WG-11230275-081022-KM-002 (480-200570-2), WG-11230275-081022-KM-003 (480-200570-3) and TB-11230275-081022-KM (480-200570-4).

Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-637640. The following samples were affected: WG-11230275-081022-KM-002 (480-200570-2), WG-11230275-081022-KM-003 (480-200570-3) and TB-11230275-081022-KM (480-200570-4).

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-637640 recovered outside control limits for the following analytes: 1,1-Dichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: WG-11230275-081022-KM-001 (480-200570-1), WG-11230275-081022-KM-001 (480-200570-1[MS]) and WG-11230275-081022-KM-001 (480-200570-1[MSD]). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike duplicate (MSD) recoveries for analytical batch 480-637566 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: WG-11230275-081022-KM-003 (480-200570-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-637762 recovered outside acceptance criteria, low biased, for 1,2,4-Trichlorobenzene. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-637762. The following sample was affected: WG-11230275-081022-KM-003 (480-200570-3).

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 480-637762 recovered outside control limits for the following analytes: Chloroethane.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-637762 recovered above the upper control limit for Acetone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: WG-11230275-081022-KM-003 (480-200570-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Client Sample ID: WG-11230275-081022-KM-001

## Lab Sample ID: 480-200570-1

| Analyte           | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Cyclohexane       | 67     |           | 40 | 7.2 | ug/L | 40      |   | 8260C  | Total/NA  |
| Isopropylbenzene  | 45     |           | 40 | 32  | ug/L | 40      |   | 8260C  | Total/NA  |
| Methylcyclohexane | 40     |           | 40 | 6.4 | ug/L | 40      |   | 8260C  | Total/NA  |

## Client Sample ID: WG-11230275-081022-KM-002

## Lab Sample ID: 480-200570-2

| Analyte          | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Benzene          | 130    |           | 40 | 16  | ug/L | 40      |   | 8260C  | Total/NA  |
| Ethylbenzene     | 1400   |           | 40 | 30  | ug/L | 40      |   | 8260C  | Total/NA  |
| Isopropylbenzene | 240    |           | 40 | 32  | ug/L | 40      |   | 8260C  | Total/NA  |

## Client Sample ID: WG-11230275-081022-KM-003

## Lab Sample ID: 480-200570-3

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Acetone                | 51     | J         | 100 | 30  | ug/L | 10      |   | 8260C  | Total/NA  |
| Benzene                | 120    |           | 10  | 4.1 | ug/L | 10      |   | 8260C  | Total/NA  |
| Cyclohexane            | 130    |           | 10  | 1.8 | ug/L | 10      |   | 8260C  | Total/NA  |
| Ethylbenzene           | 1400   | E         | 10  | 7.4 | ug/L | 10      |   | 8260C  | Total/NA  |
| Isopropylbenzene       | 260    |           | 10  | 7.9 | ug/L | 10      |   | 8260C  | Total/NA  |
| Methylcyclohexane      | 21     |           | 10  | 1.6 | ug/L | 10      |   | 8260C  | Total/NA  |
| Toluene                | 6.9    | J         | 10  | 5.1 | ug/L | 10      |   | 8260C  | Total/NA  |
| Xylenes, Total         | 15     | J         | 20  | 6.6 | ug/L | 10      |   | 8260C  | Total/NA  |
| Acetone - DL           | 280    | J         | 400 | 120 | ug/L | 40      |   | 8260C  | Total/NA  |
| Benzene - DL           | 150    |           | 40  | 16  | ug/L | 40      |   | 8260C  | Total/NA  |
| Ethylbenzene - DL      | 1600   |           | 40  | 30  | ug/L | 40      |   | 8260C  | Total/NA  |
| Isopropylbenzene - DL  | 280    |           | 40  | 32  | ug/L | 40      |   | 8260C  | Total/NA  |
| Methylcyclohexane - DL | 23     | J         | 40  | 6.4 | ug/L | 40      |   | 8260C  | Total/NA  |

## Client Sample ID: TB-11230275-081022-KM

## Lab Sample ID: 480-200570-4

No Detections.

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

Client Sample ID: WG-11230275-081022-KM-001

Lab Sample ID: 480-200570-1

Date Collected: 08/10/22 13:30

Matrix: Water

Date Received: 08/10/22 16:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                               | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | 33     | U         | 40  | 33  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,1,2,2-Tetrachloroethane             | 8.4    | U         | 40  | 8.4 | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,1,2-Trichloroethane                 | 9.2    | U         | 40  | 9.2 | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 12     | U F2      | 40  | 12  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,1-Dichloroethane                    | 15     | U         | 40  | 15  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,1-Dichloroethene                    | 12     | U         | 40  | 12  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,2,4-Trichlorobenzene                | 16     | U         | 40  | 16  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,2-Dibromo-3-Chloropropane           | 16     | U         | 40  | 16  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,2-Dichlorobenzene                   | 32     | U         | 40  | 32  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,2,3-Trichlorobenzene                | 16     | U         | 40  | 16  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,2-Dichloroethane                    | 8.4    | U         | 40  | 8.4 | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,2-Dichloropropane                   | 29     | U         | 40  | 29  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,3-Dichlorobenzene                   | 31     | U         | 40  | 31  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,4-Dichlorobenzene                   | 34     | U         | 40  | 34  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 2-Butanone (MEK)                      | 53     | U         | 400 | 53  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 2-Hexanone                            | 50     | U         | 200 | 50  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 4-Methyl-2-pentanone (MIBK)           | 84     | U         | 200 | 84  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Acetone                               | 120    | U         | 400 | 120 | ug/L |   |          | 08/16/22 13:25 | 40      |
| Benzene                               | 16     | U         | 40  | 16  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Bromodichloromethane                  | 16     | U         | 40  | 16  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Bromoform                             | 10     | U         | 40  | 10  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Bromomethane                          | 28     | U F2      | 40  | 28  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Carbon disulfide                      | 7.6    | U         | 40  | 7.6 | ug/L |   |          | 08/16/22 13:25 | 40      |
| Carbon tetrachloride                  | 11     | U         | 40  | 11  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Chlorobenzene                         | 30     | U         | 40  | 30  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Dibromochloromethane                  | 13     | U         | 40  | 13  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Chloroethane                          | 13     | U         | 40  | 13  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Chloroform                            | 14     | U         | 40  | 14  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Chloromethane                         | 14     | U         | 40  | 14  | ug/L |   |          | 08/16/22 13:25 | 40      |
| cis-1,2-Dichloroethene                | 32     | U         | 40  | 32  | ug/L |   |          | 08/16/22 13:25 | 40      |
| cis-1,3-Dichloropropene               | 14     | U         | 40  | 14  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Cyclohexane                           | 67     |           | 40  | 7.2 | ug/L |   |          | 08/16/22 13:25 | 40      |
| Dichlorodifluoromethane               | 27     | U         | 40  | 27  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Ethylbenzene                          | 30     | U         | 40  | 30  | ug/L |   |          | 08/16/22 13:25 | 40      |
| 1,2-Dibromoethane                     | 29     | U         | 40  | 29  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Isopropylbenzene                      | 45     |           | 40  | 32  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Methyl acetate                        | 52     | U         | 100 | 52  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Methyl tert-butyl ether               | 6.4    | U         | 40  | 6.4 | ug/L |   |          | 08/16/22 13:25 | 40      |
| Methylcyclohexane                     | 40     |           | 40  | 6.4 | ug/L |   |          | 08/16/22 13:25 | 40      |
| Methylene Chloride                    | 18     | U         | 40  | 18  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Styrene                               | 29     | U         | 40  | 29  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Tetrachloroethene                     | 14     | U         | 40  | 14  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Toluene                               | 20     | U         | 40  | 20  | ug/L |   |          | 08/16/22 13:25 | 40      |
| trans-1,2-Dichloroethene              | 36     | U         | 40  | 36  | ug/L |   |          | 08/16/22 13:25 | 40      |
| trans-1,3-Dichloropropene             | 15     | U         | 40  | 15  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Trichloroethene                       | 18     | U         | 40  | 18  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Trichlorofluoromethane                | 35     | U         | 40  | 35  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Vinyl chloride                        | 36     | U         | 40  | 36  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Xylenes, Total                        | 26     | U         | 80  | 26  | ug/L |   |          | 08/16/22 13:25 | 40      |

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

**Client Sample ID: WG-11230275-081022-KM-001**

**Lab Sample ID: 480-200570-1**

**Date Collected: 08/10/22 13:30**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| Chlorobromomethane           | 35        | U         | 40       | 35  | ug/L |   |          | 08/16/22 13:25 | 40      |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| Toluene-d8 (Surr)            | 97        |           | 80 - 120 |     |      |   |          | 08/16/22 13:25 | 40      |
| 1,2-Dichloroethane-d4 (Surr) | 92        |           | 77 - 120 |     |      |   |          | 08/16/22 13:25 | 40      |
| 4-Bromofluorobenzene (Surr)  | 94        |           | 73 - 120 |     |      |   |          | 08/16/22 13:25 | 40      |
| Dibromofluoromethane (Surr)  | 95        |           | 75 - 123 |     |      |   |          | 08/16/22 13:25 | 40      |

**Client Sample ID: WG-11230275-081022-KM-002**

**Lab Sample ID: 480-200570-2**

**Date Collected: 08/10/22 14:30**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                               | Result      | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | 33          | U         | 40  | 33  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,1,2,2-Tetrachloroethane             | 8.4         | U         | 40  | 8.4 | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,1,2-Trichloroethane                 | 9.2         | U         | 40  | 9.2 | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 12          | U         | 40  | 12  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,1-Dichloroethane                    | 15          | U *       | 40  | 15  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,1-Dichloroethene                    | 12          | U         | 40  | 12  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,2,4-Trichlorobenzene                | 16          | U         | 40  | 16  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,2-Dibromo-3-Chloropropane           | 16          | U         | 40  | 16  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,2-Dichlorobenzene                   | 32          | U         | 40  | 32  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,2,3-Trichlorobenzene                | 16          | U         | 40  | 16  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,2-Dichloroethane                    | 8.4         | U         | 40  | 8.4 | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,2-Dichloropropane                   | 29          | U         | 40  | 29  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,3-Dichlorobenzene                   | 31          | U         | 40  | 31  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,4-Dichlorobenzene                   | 34          | U         | 40  | 34  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 2-Butanone (MEK)                      | 53          | U *       | 400 | 53  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 2-Hexanone                            | 50          | U         | 200 | 50  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 4-Methyl-2-pentanone (MIBK)           | 84          | U         | 200 | 84  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Acetone                               | 120         | U         | 400 | 120 | ug/L |   |          | 08/16/22 16:56 | 40      |
| <b>Benzene</b>                        | <b>130</b>  |           | 40  | 16  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Bromodichloromethane                  | 16          | U         | 40  | 16  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Bromoform                             | 10          | U         | 40  | 10  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Bromomethane                          | 28          | U         | 40  | 28  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Carbon disulfide                      | 7.6         | U         | 40  | 7.6 | ug/L |   |          | 08/16/22 16:56 | 40      |
| Carbon tetrachloride                  | 11          | U         | 40  | 11  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Chlorobenzene                         | 30          | U         | 40  | 30  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Dibromochloromethane                  | 13          | U         | 40  | 13  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Chloroethane                          | 13          | U         | 40  | 13  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Chloroform                            | 14          | U         | 40  | 14  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Chloromethane                         | 14          | U         | 40  | 14  | ug/L |   |          | 08/16/22 16:56 | 40      |
| cis-1,2-Dichloroethene                | 32          | U         | 40  | 32  | ug/L |   |          | 08/16/22 16:56 | 40      |
| cis-1,3-Dichloropropene               | 14          | U         | 40  | 14  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Cyclohexane                           | 7.2         | U         | 40  | 7.2 | ug/L |   |          | 08/16/22 16:56 | 40      |
| Dichlorodifluoromethane               | 27          | U         | 40  | 27  | ug/L |   |          | 08/16/22 16:56 | 40      |
| <b>Ethylbenzene</b>                   | <b>1400</b> |           | 40  | 30  | ug/L |   |          | 08/16/22 16:56 | 40      |
| 1,2-Dibromoethane                     | 29          | U         | 40  | 29  | ug/L |   |          | 08/16/22 16:56 | 40      |
| <b>Isopropylbenzene</b>               | <b>240</b>  |           | 40  | 32  | ug/L |   |          | 08/16/22 16:56 | 40      |

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

**Client Sample ID: WG-11230275-081022-KM-002**

**Lab Sample ID: 480-200570-2**

**Date Collected: 08/10/22 14:30**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Methyl acetate            | 52     | U         | 100 | 52  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Methyl tert-butyl ether   | 6.4    | U         | 40  | 6.4 | ug/L |   |          | 08/16/22 16:56 | 40      |
| Methylcyclohexane         | 6.4    | U         | 40  | 6.4 | ug/L |   |          | 08/16/22 16:56 | 40      |
| Methylene Chloride        | 18     | U         | 40  | 18  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Styrene                   | 29     | U         | 40  | 29  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Tetrachloroethene         | 14     | U         | 40  | 14  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Toluene                   | 20     | U         | 40  | 20  | ug/L |   |          | 08/16/22 16:56 | 40      |
| trans-1,2-Dichloroethene  | 36     | U         | 40  | 36  | ug/L |   |          | 08/16/22 16:56 | 40      |
| trans-1,3-Dichloropropene | 15     | U         | 40  | 15  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Trichloroethene           | 18     | U         | 40  | 18  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Trichlorofluoromethane    | 35     | U         | 40  | 35  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Vinyl chloride            | 36     | U         | 40  | 36  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Xylenes, Total            | 26     | U         | 80  | 26  | ug/L |   |          | 08/16/22 16:56 | 40      |
| Chlorobromomethane        | 35     | U         | 40  | 35  | ug/L |   |          | 08/16/22 16:56 | 40      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 93        |           | 80 - 120 |          | 08/16/22 16:56 | 40      |
| 1,2-Dichloroethane-d4 (Surr) | 105       |           | 77 - 120 |          | 08/16/22 16:56 | 40      |
| 4-Bromofluorobenzene (Surr)  | 91        |           | 73 - 120 |          | 08/16/22 16:56 | 40      |
| Dibromofluoromethane (Surr)  | 98        |           | 75 - 123 |          | 08/16/22 16:56 | 40      |

**Client Sample ID: WG-11230275-081022-KM-003**

**Lab Sample ID: 480-200570-3**

**Date Collected: 08/10/22 14:30**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                               | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | 8.2    | U         | 10  | 8.2 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,1,2,2-Tetrachloroethane             | 2.1    | U         | 10  | 2.1 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,1,2-Trichloroethane                 | 2.3    | U         | 10  | 2.3 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 3.1    | U         | 10  | 3.1 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,1-Dichloroethane                    | 3.8    | U *+      | 10  | 3.8 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,1-Dichloroethene                    | 2.9    | U         | 10  | 2.9 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,2,4-Trichlorobenzene                | 4.1    | U         | 10  | 4.1 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,2-Dibromo-3-Chloropropane           | 3.9    | U         | 10  | 3.9 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,2-Dichlorobenzene                   | 7.9    | U         | 10  | 7.9 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,2,3-Trichlorobenzene                | 4.1    | U         | 10  | 4.1 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,2-Dichloroethane                    | 2.1    | U         | 10  | 2.1 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,2-Dichloropropane                   | 7.2    | U         | 10  | 7.2 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,3-Dichlorobenzene                   | 7.8    | U         | 10  | 7.8 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,4-Dichlorobenzene                   | 8.4    | U         | 10  | 8.4 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 2-Butanone (MEK)                      | 13     | U *+      | 100 | 13  | ug/L |   |          | 08/16/22 17:20 | 10      |
| 2-Hexanone                            | 12     | U         | 50  | 12  | ug/L |   |          | 08/16/22 17:20 | 10      |
| 4-Methyl-2-pentanone (MIBK)           | 21     | U         | 50  | 21  | ug/L |   |          | 08/16/22 17:20 | 10      |
| Acetone                               | 51     | J         | 100 | 30  | ug/L |   |          | 08/16/22 17:20 | 10      |
| Benzene                               | 120    |           | 10  | 4.1 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Bromodichloromethane                  | 3.9    | U         | 10  | 3.9 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Bromoform                             | 2.6    | U         | 10  | 2.6 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Bromomethane                          | 6.9    | U         | 10  | 6.9 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Carbon disulfide                      | 1.9    | U         | 10  | 1.9 | ug/L |   |          | 08/16/22 17:20 | 10      |

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

**Client Sample ID: WG-11230275-081022-KM-003**

**Lab Sample ID: 480-200570-3**

**Date Collected: 08/10/22 14:30**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                   | Result      | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| Carbon tetrachloride      | 2.7         | U         | 10 | 2.7 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Chlorobenzene             | 7.5         | U         | 10 | 7.5 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Dibromochloromethane      | 3.2         | U         | 10 | 3.2 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Chloroethane              | 3.2         | U         | 10 | 3.2 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Chloroform                | 3.4         | U         | 10 | 3.4 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Chloromethane             | 3.5         | U         | 10 | 3.5 | ug/L |   |          | 08/16/22 17:20 | 10      |
| cis-1,2-Dichloroethene    | 8.1         | U         | 10 | 8.1 | ug/L |   |          | 08/16/22 17:20 | 10      |
| cis-1,3-Dichloropropene   | 3.6         | U         | 10 | 3.6 | ug/L |   |          | 08/16/22 17:20 | 10      |
| <b>Cyclohexane</b>        | <b>130</b>  |           | 10 | 1.8 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Dichlorodifluoromethane   | 6.8         | U         | 10 | 6.8 | ug/L |   |          | 08/16/22 17:20 | 10      |
| <b>Ethylbenzene</b>       | <b>1400</b> | <b>E</b>  | 10 | 7.4 | ug/L |   |          | 08/16/22 17:20 | 10      |
| 1,2-Dibromoethane         | 7.3         | U         | 10 | 7.3 | ug/L |   |          | 08/16/22 17:20 | 10      |
| <b>Isopropylbenzene</b>   | <b>260</b>  |           | 10 | 7.9 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Methyl acetate            | 13          | U         | 25 | 13  | ug/L |   |          | 08/16/22 17:20 | 10      |
| Methyl tert-butyl ether   | 1.6         | U         | 10 | 1.6 | ug/L |   |          | 08/16/22 17:20 | 10      |
| <b>Methylcyclohexane</b>  | <b>21</b>   |           | 10 | 1.6 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Methylene Chloride        | 4.4         | U         | 10 | 4.4 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Styrene                   | 7.3         | U         | 10 | 7.3 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Tetrachloroethene         | 3.6         | U         | 10 | 3.6 | ug/L |   |          | 08/16/22 17:20 | 10      |
| <b>Toluene</b>            | <b>6.9</b>  | <b>J</b>  | 10 | 5.1 | ug/L |   |          | 08/16/22 17:20 | 10      |
| trans-1,2-Dichloroethene  | 9.0         | U         | 10 | 9.0 | ug/L |   |          | 08/16/22 17:20 | 10      |
| trans-1,3-Dichloropropene | 3.7         | U         | 10 | 3.7 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Trichloroethene           | 4.6         | U         | 10 | 4.6 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Trichlorofluoromethane    | 8.8         | U         | 10 | 8.8 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Vinyl chloride            | 9.0         | U         | 10 | 9.0 | ug/L |   |          | 08/16/22 17:20 | 10      |
| <b>Xylenes, Total</b>     | <b>15</b>   | <b>J</b>  | 20 | 6.6 | ug/L |   |          | 08/16/22 17:20 | 10      |
| Chlorobromomethane        | 8.7         | U         | 10 | 8.7 | ug/L |   |          | 08/16/22 17:20 | 10      |

| Surrogate                           | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-------------------------------------|-----------|-----------|----------|----------|----------------|---------|
| <i>Toluene-d8 (Surr)</i>            | 96        |           | 80 - 120 |          | 08/16/22 17:20 | 10      |
| <i>1,2-Dichloroethane-d4 (Surr)</i> | 108       |           | 77 - 120 |          | 08/16/22 17:20 | 10      |
| <i>4-Bromofluorobenzene (Surr)</i>  | 98        |           | 73 - 120 |          | 08/16/22 17:20 | 10      |
| <i>Dibromofluoromethane (Surr)</i>  | 99        |           | 75 - 123 |          | 08/16/22 17:20 | 10      |

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL

| Analyte                               | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | 33     | U         | 40 | 33  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,1,2,2-Tetrachloroethane             | 8.4    | U         | 40 | 8.4 | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,1,2-Trichloroethane                 | 9.2    | U         | 40 | 9.2 | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 12     | U         | 40 | 12  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,1-Dichloroethane                    | 15     | U         | 40 | 15  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,1-Dichloroethene                    | 12     | U         | 40 | 12  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,2,4-Trichlorobenzene                | 16     | U         | 40 | 16  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,2-Dibromo-3-Chloropropane           | 16     | U         | 40 | 16  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,2-Dichlorobenzene                   | 32     | U         | 40 | 32  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,2,3-Trichlorobenzene                | 16     | U         | 40 | 16  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,2-Dichloroethane                    | 8.4    | U         | 40 | 8.4 | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,2-Dichloropropane                   | 29     | U         | 40 | 29  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,3-Dichlorobenzene                   | 31     | U         | 40 | 31  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,4-Dichlorobenzene                   | 34     | U         | 40 | 34  | ug/L |   |          | 08/17/22 14:43 | 40      |

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

**Client Sample ID: WG-11230275-081022-KM-003**

**Lab Sample ID: 480-200570-3**

**Date Collected: 08/10/22 14:30**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 2-Butanone (MEK)            | 53     | U **      | 400 | 53  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 2-Hexanone                  | 50     | U         | 200 | 50  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 4-Methyl-2-pentanone (MIBK) | 84     | U         | 200 | 84  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Acetone                     | 280    | J         | 400 | 120 | ug/L |   |          | 08/17/22 14:43 | 40      |
| Benzene                     | 150    |           | 40  | 16  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Bromodichloromethane        | 16     | U         | 40  | 16  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Bromoform                   | 10     | U         | 40  | 10  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Bromomethane                | 28     | U         | 40  | 28  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Carbon disulfide            | 7.6    | U         | 40  | 7.6 | ug/L |   |          | 08/17/22 14:43 | 40      |
| Carbon tetrachloride        | 11     | U         | 40  | 11  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Chlorobenzene               | 30     | U         | 40  | 30  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Dibromochloromethane        | 13     | U         | 40  | 13  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Chloroethane                | 13     | U *1      | 40  | 13  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Chloroform                  | 14     | U         | 40  | 14  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Chloromethane               | 14     | U         | 40  | 14  | ug/L |   |          | 08/17/22 14:43 | 40      |
| cis-1,2-Dichloroethene      | 32     | U         | 40  | 32  | ug/L |   |          | 08/17/22 14:43 | 40      |
| cis-1,3-Dichloropropene     | 14     | U         | 40  | 14  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Cyclohexane                 | 7.2    | U         | 40  | 7.2 | ug/L |   |          | 08/17/22 14:43 | 40      |
| Dichlorodifluoromethane     | 27     | U         | 40  | 27  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Ethylbenzene                | 1600   |           | 40  | 30  | ug/L |   |          | 08/17/22 14:43 | 40      |
| 1,2-Dibromoethane           | 29     | U         | 40  | 29  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Isopropylbenzene            | 280    |           | 40  | 32  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Methyl acetate              | 52     | U         | 100 | 52  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Methyl tert-butyl ether     | 6.4    | U         | 40  | 6.4 | ug/L |   |          | 08/17/22 14:43 | 40      |
| Methylcyclohexane           | 23     | J         | 40  | 6.4 | ug/L |   |          | 08/17/22 14:43 | 40      |
| Methylene Chloride          | 18     | U         | 40  | 18  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Styrene                     | 29     | U         | 40  | 29  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Tetrachloroethene           | 14     | U         | 40  | 14  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Toluene                     | 20     | U         | 40  | 20  | ug/L |   |          | 08/17/22 14:43 | 40      |
| trans-1,2-Dichloroethene    | 36     | U         | 40  | 36  | ug/L |   |          | 08/17/22 14:43 | 40      |
| trans-1,3-Dichloropropene   | 15     | U         | 40  | 15  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Trichloroethene             | 18     | U         | 40  | 18  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Trichlorofluoromethane      | 35     | U         | 40  | 35  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Vinyl chloride              | 36     | U         | 40  | 36  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Xylenes, Total              | 26     | U         | 80  | 26  | ug/L |   |          | 08/17/22 14:43 | 40      |
| Chlorobromomethane          | 35     | U         | 40  | 35  | ug/L |   |          | 08/17/22 14:43 | 40      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 94        |           | 80 - 120 |          | 08/17/22 14:43 | 40      |
| 1,2-Dichloroethane-d4 (Surr) | 108       |           | 77 - 120 |          | 08/17/22 14:43 | 40      |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 73 - 120 |          | 08/17/22 14:43 | 40      |
| Dibromofluoromethane (Surr)  | 101       |           | 75 - 123 |          | 08/17/22 14:43 | 40      |

**Client Sample ID: TB-11230275-081022-KM**

**Lab Sample ID: 480-200570-4**

**Date Collected: 08/10/22 00:00**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 0.82   | U         | 1.0 | 0.82 | ug/L |   |          | 08/16/22 17:43 | 1       |

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

**Client Sample ID: TB-11230275-081022-KM**

**Lab Sample ID: 480-200570-4**

**Date Collected: 08/10/22 00:00**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,2,2-Tetrachloroethane             | 0.21   | U         | 1.0 | 0.21 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,1,2-Trichloroethane                 | 0.23   | U         | 1.0 | 0.23 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.31   | U         | 1.0 | 0.31 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,1-Dichloroethane                    | 0.38   | U **      | 1.0 | 0.38 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,1-Dichloroethene                    | 0.29   | U         | 1.0 | 0.29 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,2,4-Trichlorobenzene                | 0.41   | U         | 1.0 | 0.41 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 0.39   | U         | 1.0 | 0.39 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,2-Dichlorobenzene                   | 0.79   | U         | 1.0 | 0.79 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,2,3-Trichlorobenzene                | 0.41   | U         | 1.0 | 0.41 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,2-Dichloroethane                    | 0.21   | U         | 1.0 | 0.21 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,2-Dichloropropane                   | 0.72   | U         | 1.0 | 0.72 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,3-Dichlorobenzene                   | 0.78   | U         | 1.0 | 0.78 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,4-Dichlorobenzene                   | 0.84   | U         | 1.0 | 0.84 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 2-Butanone (MEK)                      | 1.3    | U **      | 10  | 1.3  | ug/L |   |          | 08/16/22 17:43 | 1       |
| 2-Hexanone                            | 1.2    | U         | 5.0 | 1.2  | ug/L |   |          | 08/16/22 17:43 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2.1    | U         | 5.0 | 2.1  | ug/L |   |          | 08/16/22 17:43 | 1       |
| Acetone                               | 3.0    | U         | 10  | 3.0  | ug/L |   |          | 08/16/22 17:43 | 1       |
| Benzene                               | 0.41   | U         | 1.0 | 0.41 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Bromodichloromethane                  | 0.39   | U         | 1.0 | 0.39 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Bromoform                             | 0.26   | U         | 1.0 | 0.26 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Bromomethane                          | 0.69   | U         | 1.0 | 0.69 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Carbon disulfide                      | 0.19   | U         | 1.0 | 0.19 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Carbon tetrachloride                  | 0.27   | U         | 1.0 | 0.27 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Chlorobenzene                         | 0.75   | U         | 1.0 | 0.75 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Dibromochloromethane                  | 0.32   | U         | 1.0 | 0.32 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Chloroethane                          | 0.32   | U         | 1.0 | 0.32 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Chloroform                            | 0.34   | U         | 1.0 | 0.34 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Chloromethane                         | 0.35   | U         | 1.0 | 0.35 | ug/L |   |          | 08/16/22 17:43 | 1       |
| cis-1,2-Dichloroethene                | 0.81   | U         | 1.0 | 0.81 | ug/L |   |          | 08/16/22 17:43 | 1       |
| cis-1,3-Dichloropropene               | 0.36   | U         | 1.0 | 0.36 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Cyclohexane                           | 0.18   | U         | 1.0 | 0.18 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Dichlorodifluoromethane               | 0.68   | U         | 1.0 | 0.68 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Ethylbenzene                          | 0.74   | U         | 1.0 | 0.74 | ug/L |   |          | 08/16/22 17:43 | 1       |
| 1,2-Dibromoethane                     | 0.73   | U         | 1.0 | 0.73 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Isopropylbenzene                      | 0.79   | U         | 1.0 | 0.79 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Methyl acetate                        | 1.3    | U         | 2.5 | 1.3  | ug/L |   |          | 08/16/22 17:43 | 1       |
| Methyl tert-butyl ether               | 0.16   | U         | 1.0 | 0.16 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Methylcyclohexane                     | 0.16   | U         | 1.0 | 0.16 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Methylene Chloride                    | 0.44   | U         | 1.0 | 0.44 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Styrene                               | 0.73   | U         | 1.0 | 0.73 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Tetrachloroethene                     | 0.36   | U         | 1.0 | 0.36 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Toluene                               | 0.51   | U         | 1.0 | 0.51 | ug/L |   |          | 08/16/22 17:43 | 1       |
| trans-1,2-Dichloroethene              | 0.90   | U         | 1.0 | 0.90 | ug/L |   |          | 08/16/22 17:43 | 1       |
| trans-1,3-Dichloropropene             | 0.37   | U         | 1.0 | 0.37 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Trichloroethene                       | 0.46   | U         | 1.0 | 0.46 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Trichlorofluoromethane                | 0.88   | U         | 1.0 | 0.88 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Vinyl chloride                        | 0.90   | U         | 1.0 | 0.90 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Xylenes, Total                        | 0.66   | U         | 2.0 | 0.66 | ug/L |   |          | 08/16/22 17:43 | 1       |
| Chlorobromomethane                    | 0.87   | U         | 1.0 | 0.87 | ug/L |   |          | 08/16/22 17:43 | 1       |

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

**Client Sample ID: TB-11230275-081022-KM**

**Lab Sample ID: 480-200570-4**

**Date Collected: 08/10/22 00:00**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

| <i>Surrogate</i>                    | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-------------------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| <i>Toluene-d8 (Surr)</i>            | 93               |                  | 80 - 120      |                 | 08/16/22 17:43  | 1              |
| <i>1,2-Dichloroethane-d4 (Surr)</i> | 107              |                  | 77 - 120      |                 | 08/16/22 17:43  | 1              |
| <i>4-Bromofluorobenzene (Surr)</i>  | 91               |                  | 73 - 120      |                 | 08/16/22 17:43  | 1              |
| <i>Dibromofluoromethane (Surr)</i>  | 100              |                  | 75 - 123      |                 | 08/16/22 17:43  | 1              |

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID          | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|-------------------|---------------------------|------------------------------------------------|-----------------|-----------------|------------------|
|                   |                           | TOL<br>(80-120)                                | DCA<br>(77-120) | BFB<br>(73-120) | DBFM<br>(75-123) |
| 480-200570-1      | WG-11230275-081022-KM-001 | 97                                             | 92              | 94              | 95               |
| 480-200570-1 MS   | WG-11230275-081022-KM-001 | 102                                            | 98              | 100             | 98               |
| 480-200570-1 MSD  | WG-11230275-081022-KM-001 | 102                                            | 95              | 99              | 95               |
| 480-200570-2      | WG-11230275-081022-KM-002 | 93                                             | 105             | 91              | 98               |
| 480-200570-3      | WG-11230275-081022-KM-003 | 96                                             | 108             | 98              | 99               |
| 480-200570-3 - DL | WG-11230275-081022-KM-003 | 94                                             | 108             | 99              | 101              |
| 480-200570-4      | TB-11230275-081022-KM     | 93                                             | 107             | 91              | 100              |
| LCS 480-637566/6  | Lab Control Sample        | 96                                             | 94              | 100             | 94               |
| LCS 480-637640/6  | Lab Control Sample        | 94                                             | 107             | 97              | 103              |
| LCS 480-637762/6  | Lab Control Sample        | 92                                             | 104             | 96              | 101              |
| LCSD 480-637640/7 | Lab Control Sample Dup    | 95                                             | 107             | 97              | 104              |
| LCSD 480-637762/7 | Lab Control Sample Dup    | 93                                             | 108             | 100             | 104              |
| MB 480-637566/8   | Method Blank              | 96                                             | 89              | 101             | 89               |
| MB 480-637640/9   | Method Blank              | 94                                             | 110             | 95              | 103              |
| MB 480-637762/9   | Method Blank              | 94                                             | 110             | 100             | 103              |

### Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-637566/8

Matrix: Water

Analysis Batch: 637566

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                               | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | 0.82         | U               | 1.0 | 0.82 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,1,2,2-Tetrachloroethane             | 0.21         | U               | 1.0 | 0.21 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,1,2-Trichloroethane                 | 0.23         | U               | 1.0 | 0.23 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.31         | U               | 1.0 | 0.31 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,1-Dichloroethane                    | 0.38         | U               | 1.0 | 0.38 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,1-Dichloroethene                    | 0.29         | U               | 1.0 | 0.29 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,2,4-Trichlorobenzene                | 0.41         | U               | 1.0 | 0.41 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 0.39         | U               | 1.0 | 0.39 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,2-Dichlorobenzene                   | 0.79         | U               | 1.0 | 0.79 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,2,3-Trichlorobenzene                | 0.41         | U               | 1.0 | 0.41 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,2-Dichloroethane                    | 0.21         | U               | 1.0 | 0.21 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,2-Dichloropropane                   | 0.72         | U               | 1.0 | 0.72 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,3-Dichlorobenzene                   | 0.78         | U               | 1.0 | 0.78 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,4-Dichlorobenzene                   | 0.84         | U               | 1.0 | 0.84 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 2-Butanone (MEK)                      | 1.3          | U               | 10  | 1.3  | ug/L |   |          | 08/16/22 12:50 | 1       |
| 2-Hexanone                            | 1.2          | U               | 5.0 | 1.2  | ug/L |   |          | 08/16/22 12:50 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2.1          | U               | 5.0 | 2.1  | ug/L |   |          | 08/16/22 12:50 | 1       |
| Acetone                               | 3.0          | U               | 10  | 3.0  | ug/L |   |          | 08/16/22 12:50 | 1       |
| Benzene                               | 0.41         | U               | 1.0 | 0.41 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Bromodichloromethane                  | 0.39         | U               | 1.0 | 0.39 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Bromoform                             | 0.26         | U               | 1.0 | 0.26 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Bromomethane                          | 0.69         | U               | 1.0 | 0.69 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Carbon disulfide                      | 0.19         | U               | 1.0 | 0.19 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Carbon tetrachloride                  | 0.27         | U               | 1.0 | 0.27 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Chlorobenzene                         | 0.75         | U               | 1.0 | 0.75 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Dibromochloromethane                  | 0.32         | U               | 1.0 | 0.32 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Chloroethane                          | 0.32         | U               | 1.0 | 0.32 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Chloroform                            | 0.34         | U               | 1.0 | 0.34 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Chloromethane                         | 0.35         | U               | 1.0 | 0.35 | ug/L |   |          | 08/16/22 12:50 | 1       |
| cis-1,2-Dichloroethene                | 0.81         | U               | 1.0 | 0.81 | ug/L |   |          | 08/16/22 12:50 | 1       |
| cis-1,3-Dichloropropene               | 0.36         | U               | 1.0 | 0.36 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Cyclohexane                           | 0.18         | U               | 1.0 | 0.18 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Dichlorodifluoromethane               | 0.68         | U               | 1.0 | 0.68 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Ethylbenzene                          | 0.74         | U               | 1.0 | 0.74 | ug/L |   |          | 08/16/22 12:50 | 1       |
| 1,2-Dibromoethane                     | 0.73         | U               | 1.0 | 0.73 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Isopropylbenzene                      | 0.79         | U               | 1.0 | 0.79 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Methyl acetate                        | 1.3          | U               | 2.5 | 1.3  | ug/L |   |          | 08/16/22 12:50 | 1       |
| Methyl tert-butyl ether               | 0.16         | U               | 1.0 | 0.16 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Methylcyclohexane                     | 0.16         | U               | 1.0 | 0.16 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Methylene Chloride                    | 0.44         | U               | 1.0 | 0.44 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Styrene                               | 0.73         | U               | 1.0 | 0.73 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Tetrachloroethene                     | 0.36         | U               | 1.0 | 0.36 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Toluene                               | 0.51         | U               | 1.0 | 0.51 | ug/L |   |          | 08/16/22 12:50 | 1       |
| trans-1,2-Dichloroethene              | 0.90         | U               | 1.0 | 0.90 | ug/L |   |          | 08/16/22 12:50 | 1       |
| trans-1,3-Dichloropropene             | 0.37         | U               | 1.0 | 0.37 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Trichloroethene                       | 0.46         | U               | 1.0 | 0.46 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Trichlorofluoromethane                | 0.88         | U               | 1.0 | 0.88 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Vinyl chloride                        | 0.90         | U               | 1.0 | 0.90 | ug/L |   |          | 08/16/22 12:50 | 1       |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-637566/8

Matrix: Water

Analysis Batch: 637566

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                      | MB Result    | MB Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|------|------|---|----------|----------------|---------|
| Xylenes, Total               | 0.66         | U            | 2.0      | 0.66 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Chlorobromomethane           | 0.87         | U            | 1.0      | 0.87 | ug/L |   |          | 08/16/22 12:50 | 1       |
| Surrogate                    | MB %Recovery | MB Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| Toluene-d8 (Surr)            | 96           |              | 80 - 120 |      |      |   |          | 08/16/22 12:50 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 89           |              | 77 - 120 |      |      |   |          | 08/16/22 12:50 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101          |              | 73 - 120 |      |      |   |          | 08/16/22 12:50 | 1       |
| Dibromofluoromethane (Surr)  | 89           |              | 75 - 123 |      |      |   |          | 08/16/22 12:50 | 1       |

Lab Sample ID: LCS 480-637566/6

Matrix: Water

Analysis Batch: 637566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                               | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1,1-Trichloroethane                 | 25.0        | 20.7       |               | ug/L |   | 83   | 73 - 126    |
| 1,1,2,2-Tetrachloroethane             | 25.0        | 22.6       |               | ug/L |   | 90   | 76 - 120    |
| 1,1,2-Trichloroethane                 | 25.0        | 21.8       |               | ug/L |   | 87   | 76 - 122    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0        | 20.7       |               | ug/L |   | 83   | 61 - 148    |
| 1,1-Dichloroethane                    | 25.0        | 22.1       |               | ug/L |   | 88   | 77 - 120    |
| 1,1-Dichloroethene                    | 25.0        | 22.0       |               | ug/L |   | 88   | 66 - 127    |
| 1,2,4-Trichlorobenzene                | 25.0        | 23.1       |               | ug/L |   | 93   | 79 - 122    |
| 1,2-Dibromo-3-Chloropropane           | 25.0        | 23.5       |               | ug/L |   | 94   | 56 - 134    |
| 1,2-Dichlorobenzene                   | 25.0        | 22.1       |               | ug/L |   | 89   | 80 - 124    |
| 1,2,3-Trichlorobenzene                | 25.0        | 22.7       |               | ug/L |   | 91   | 75 - 123    |
| 1,2-Dichloroethane                    | 25.0        | 20.6       |               | ug/L |   | 82   | 75 - 120    |
| 1,2-Dichloropropane                   | 25.0        | 22.3       |               | ug/L |   | 89   | 76 - 120    |
| 1,3-Dichlorobenzene                   | 25.0        | 21.9       |               | ug/L |   | 88   | 77 - 120    |
| 1,4-Dichlorobenzene                   | 25.0        | 21.4       |               | ug/L |   | 86   | 80 - 120    |
| 2-Butanone (MEK)                      | 125         | 115        |               | ug/L |   | 92   | 57 - 140    |
| 2-Hexanone                            | 125         | 114        |               | ug/L |   | 91   | 65 - 127    |
| 4-Methyl-2-pentanone (MIBK)           | 125         | 110        |               | ug/L |   | 88   | 71 - 125    |
| Acetone                               | 125         | 124        |               | ug/L |   | 99   | 56 - 142    |
| Benzene                               | 25.0        | 21.6       |               | ug/L |   | 86   | 71 - 124    |
| Bromodichloromethane                  | 25.0        | 22.7       |               | ug/L |   | 91   | 80 - 122    |
| Bromoform                             | 25.0        | 24.5       |               | ug/L |   | 98   | 61 - 132    |
| Bromomethane                          | 25.0        | 22.8       |               | ug/L |   | 91   | 55 - 144    |
| Carbon disulfide                      | 25.0        | 24.3       |               | ug/L |   | 97   | 59 - 134    |
| Carbon tetrachloride                  | 25.0        | 20.9       |               | ug/L |   | 84   | 72 - 134    |
| Chlorobenzene                         | 25.0        | 20.9       |               | ug/L |   | 84   | 80 - 120    |
| Dibromochloromethane                  | 25.0        | 25.2       |               | ug/L |   | 101  | 75 - 125    |
| Chloroethane                          | 25.0        | 24.0       |               | ug/L |   | 96   | 69 - 136    |
| Chloroform                            | 25.0        | 20.6       |               | ug/L |   | 83   | 73 - 127    |
| Chloromethane                         | 25.0        | 21.7       |               | ug/L |   | 87   | 68 - 124    |
| cis-1,2-Dichloroethene                | 25.0        | 22.3       |               | ug/L |   | 89   | 74 - 124    |
| cis-1,3-Dichloropropene               | 25.0        | 24.1       |               | ug/L |   | 96   | 74 - 124    |
| Cyclohexane                           | 25.0        | 22.4       |               | ug/L |   | 89   | 59 - 135    |
| Dichlorodifluoromethane               | 25.0        | 19.1       |               | ug/L |   | 76   | 59 - 135    |
| Ethylbenzene                          | 25.0        | 21.7       |               | ug/L |   | 87   | 77 - 123    |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-637566/6

Matrix: Water

Analysis Batch: 637566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,2-Dibromoethane         | 25.0        | 22.7       |               | ug/L |   | 91   | 77 - 120    |
| Isopropylbenzene          | 25.0        | 23.3       |               | ug/L |   | 93   | 77 - 122    |
| Methyl acetate            | 50.0        | 42.9       |               | ug/L |   | 86   | 74 - 133    |
| Methyl tert-butyl ether   | 25.0        | 22.8       |               | ug/L |   | 91   | 77 - 120    |
| Methylcyclohexane         | 25.0        | 22.0       |               | ug/L |   | 88   | 68 - 134    |
| Methylene Chloride        | 25.0        | 23.6       |               | ug/L |   | 95   | 75 - 124    |
| Styrene                   | 25.0        | 23.2       |               | ug/L |   | 93   | 80 - 120    |
| Tetrachloroethene         | 25.0        | 21.1       |               | ug/L |   | 85   | 74 - 122    |
| Toluene                   | 25.0        | 21.8       |               | ug/L |   | 87   | 80 - 122    |
| trans-1,2-Dichloroethene  | 25.0        | 22.0       |               | ug/L |   | 88   | 73 - 127    |
| trans-1,3-Dichloropropene | 25.0        | 24.2       |               | ug/L |   | 97   | 80 - 120    |
| Trichloroethene           | 25.0        | 21.3       |               | ug/L |   | 85   | 74 - 123    |
| Trichlorofluoromethane    | 25.0        | 20.5       |               | ug/L |   | 82   | 62 - 150    |
| Vinyl chloride            | 25.0        | 22.7       |               | ug/L |   | 91   | 65 - 133    |
| Chlorobromomethane        | 25.0        | 20.6       |               | ug/L |   | 82   | 72 - 130    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr)            | 96            |               | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 94            |               | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 100           |               | 73 - 120 |
| Dibromofluoromethane (Surr)  | 94            |               | 75 - 123 |

Lab Sample ID: 480-200570-1 MS

Matrix: Water

Analysis Batch: 637566

Client Sample ID: WG-11230275-081022-KM-001

Prep Type: Total/NA

| Analyte                               | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1,1,1-Trichloroethane                 | 33            | U                | 1000        | 880       |              | ug/L |   | 88   | 73 - 126    |
| 1,1,2,2-Tetrachloroethane             | 8.4           | U                | 1000        | 882       |              | ug/L |   | 88   | 76 - 120    |
| 1,1,2-Trichloroethane                 | 9.2           | U                | 1000        | 894       |              | ug/L |   | 89   | 76 - 122    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 12            | U F2             | 1000        | 917       |              | ug/L |   | 92   | 61 - 148    |
| 1,1-Dichloroethane                    | 15            | U                | 1000        | 902       |              | ug/L |   | 90   | 77 - 120    |
| 1,1-Dichloroethene                    | 12            | U                | 1000        | 965       |              | ug/L |   | 96   | 66 - 127    |
| 1,2,4-Trichlorobenzene                | 16            | U                | 1000        | 955       |              | ug/L |   | 95   | 79 - 122    |
| 1,2-Dibromo-3-Chloropropane           | 16            | U                | 1000        | 897       |              | ug/L |   | 90   | 56 - 134    |
| 1,2-Dichlorobenzene                   | 32            | U                | 1000        | 899       |              | ug/L |   | 90   | 80 - 124    |
| 1,2,3-Trichlorobenzene                | 16            | U                | 1000        | 918       |              | ug/L |   | 92   | 75 - 123    |
| 1,2-Dichloroethane                    | 8.4           | U                | 1000        | 812       |              | ug/L |   | 81   | 75 - 120    |
| 1,2-Dichloropropane                   | 29            | U                | 1000        | 910       |              | ug/L |   | 91   | 76 - 120    |
| 1,3-Dichlorobenzene                   | 31            | U                | 1000        | 892       |              | ug/L |   | 89   | 77 - 120    |
| 1,4-Dichlorobenzene                   | 34            | U                | 1000        | 858       |              | ug/L |   | 86   | 78 - 124    |
| 2-Butanone (MEK)                      | 53            | U                | 5000        | 4430      |              | ug/L |   | 89   | 57 - 140    |
| 2-Hexanone                            | 50            | U                | 5000        | 4470      |              | ug/L |   | 89   | 65 - 127    |
| 4-Methyl-2-pentanone (MIBK)           | 84            | U                | 5000        | 4380      |              | ug/L |   | 88   | 71 - 125    |
| Acetone                               | 120           | U                | 5000        | 4350      |              | ug/L |   | 87   | 56 - 142    |
| Benzene                               | 16            | U                | 1000        | 908       |              | ug/L |   | 91   | 71 - 124    |
| Bromodichloromethane                  | 16            | U                | 1000        | 908       |              | ug/L |   | 91   | 80 - 122    |
| Bromoform                             | 10            | U                | 1000        | 955       |              | ug/L |   | 96   | 61 - 132    |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-200570-1 MS

Matrix: Water

Analysis Batch: 637566

Client Sample ID: WG-11230275-081022-KM-001

Prep Type: Total/NA

| Analyte                   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Bromomethane              | 28            | U F2             | 1000        | 919       |              | ug/L |   | 92   | 55 - 144    |
| Carbon disulfide          | 7.6           | U                | 1000        | 993       |              | ug/L |   | 99   | 59 - 134    |
| Carbon tetrachloride      | 11            | U                | 1000        | 922       |              | ug/L |   | 92   | 72 - 134    |
| Chlorobenzene             | 30            | U                | 1000        | 878       |              | ug/L |   | 88   | 80 - 120    |
| Dibromochloromethane      | 13            | U                | 1000        | 979       |              | ug/L |   | 98   | 75 - 125    |
| Chloroethane              | 13            | U                | 1000        | 947       |              | ug/L |   | 95   | 69 - 136    |
| Chloroform                | 14            | U                | 1000        | 865       |              | ug/L |   | 86   | 73 - 127    |
| Chloromethane             | 14            | U                | 1000        | 927       |              | ug/L |   | 93   | 68 - 124    |
| cis-1,2-Dichloroethene    | 32            | U                | 1000        | 882       |              | ug/L |   | 88   | 74 - 124    |
| cis-1,3-Dichloropropene   | 14            | U                | 1000        | 954       |              | ug/L |   | 95   | 74 - 124    |
| Cyclohexane               | 67            |                  | 1000        | 1090      |              | ug/L |   | 103  | 59 - 135    |
| Dichlorodifluoromethane   | 27            | U                | 1000        | 841       |              | ug/L |   | 84   | 59 - 135    |
| Ethylbenzene              | 30            | U                | 1000        | 942       |              | ug/L |   | 94   | 77 - 123    |
| 1,2-Dibromoethane         | 29            | U                | 1000        | 909       |              | ug/L |   | 91   | 77 - 120    |
| Isopropylbenzene          | 45            |                  | 1000        | 1000      |              | ug/L |   | 96   | 77 - 122    |
| Methyl acetate            | 52            | U                | 2000        | 2340      |              | ug/L |   | 117  | 74 - 133    |
| Methyl tert-butyl ether   | 6.4           | U                | 1000        | 904       |              | ug/L |   | 90   | 77 - 120    |
| Methylcyclohexane         | 40            |                  | 1000        | 988       |              | ug/L |   | 95   | 68 - 134    |
| Methylene Chloride        | 18            | U                | 1000        | 954       |              | ug/L |   | 95   | 75 - 124    |
| Styrene                   | 29            | U                | 1000        | 939       |              | ug/L |   | 94   | 80 - 120    |
| Tetrachloroethene         | 14            | U                | 1000        | 878       |              | ug/L |   | 88   | 74 - 122    |
| Toluene                   | 20            | U                | 1000        | 895       |              | ug/L |   | 90   | 80 - 122    |
| trans-1,2-Dichloroethene  | 36            | U                | 1000        | 898       |              | ug/L |   | 90   | 73 - 127    |
| trans-1,3-Dichloropropene | 15            | U                | 1000        | 953       |              | ug/L |   | 95   | 80 - 120    |
| Trichloroethene           | 18            | U                | 1000        | 891       |              | ug/L |   | 89   | 74 - 123    |
| Trichlorofluoromethane    | 35            | U                | 1000        | 897       |              | ug/L |   | 90   | 62 - 150    |
| Vinyl chloride            | 36            | U                | 1000        | 951       |              | ug/L |   | 95   | 65 - 133    |
| Chlorobromomethane        | 35            | U                | 1000        | 837       |              | ug/L |   | 84   | 72 - 130    |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| Toluene-d8 (Surr)            | 102          |              | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 98           |              | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 100          |              | 73 - 120 |
| Dibromofluoromethane (Surr)  | 98           |              | 75 - 123 |

Lab Sample ID: 480-200570-1 MSD

Matrix: Water

Analysis Batch: 637566

Client Sample ID: WG-11230275-081022-KM-001

Prep Type: Total/NA

| Analyte                               | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,1,1-Trichloroethane                 | 33            | U                | 1000        | 802        |               | ug/L |   | 80   | 73 - 126    | 9   | 15        |
| 1,1,2,2-Tetrachloroethane             | 8.4           | U                | 1000        | 884        |               | ug/L |   | 88   | 76 - 120    | 0   | 15        |
| 1,1,2-Trichloroethane                 | 9.2           | U                | 1000        | 870        |               | ug/L |   | 87   | 76 - 122    | 3   | 15        |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 12            | U F2             | 1000        | 672        | F2            | ug/L |   | 67   | 61 - 148    | 31  | 20        |
| 1,1-Dichloroethane                    | 15            | U                | 1000        | 845        |               | ug/L |   | 84   | 77 - 120    | 7   | 20        |
| 1,1-Dichloroethene                    | 12            | U                | 1000        | 891        |               | ug/L |   | 89   | 66 - 127    | 8   | 16        |
| 1,2,4-Trichlorobenzene                | 16            | U                | 1000        | 911        |               | ug/L |   | 91   | 79 - 122    | 5   | 20        |
| 1,2-Dibromo-3-Chloropropane           | 16            | U                | 1000        | 885        |               | ug/L |   | 88   | 56 - 134    | 1   | 15        |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-200570-1 MSD

Client Sample ID: WG-11230275-081022-KM-001

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 637566

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,2-Dichlorobenzene         | 32            | U                | 1000        | 873        |               | ug/L |   | 87   | 80 - 124    | 3   | 20        |
| 1,2,3-Trichlorobenzene      | 16            | U                | 1000        | 879        |               | ug/L |   | 88   | 75 - 123    | 4   | 20        |
| 1,2-Dichloroethane          | 8.4           | U                | 1000        | 786        |               | ug/L |   | 79   | 75 - 120    | 3   | 20        |
| 1,2-Dichloropropane         | 29            | U                | 1000        | 867        |               | ug/L |   | 87   | 76 - 120    | 5   | 20        |
| 1,3-Dichlorobenzene         | 31            | U                | 1000        | 871        |               | ug/L |   | 87   | 77 - 120    | 2   | 20        |
| 1,4-Dichlorobenzene         | 34            | U                | 1000        | 851        |               | ug/L |   | 85   | 78 - 124    | 1   | 20        |
| 2-Butanone (MEK)            | 53            | U                | 5000        | 4340       |               | ug/L |   | 87   | 57 - 140    | 2   | 20        |
| 2-Hexanone                  | 50            | U                | 5000        | 4430       |               | ug/L |   | 89   | 65 - 127    | 1   | 15        |
| 4-Methyl-2-pentanone (MIBK) | 84            | U                | 5000        | 4310       |               | ug/L |   | 86   | 71 - 125    | 2   | 35        |
| Acetone                     | 120           | U                | 5000        | 4370       |               | ug/L |   | 87   | 56 - 142    | 0   | 15        |
| Benzene                     | 16            | U                | 1000        | 853        |               | ug/L |   | 85   | 71 - 124    | 6   | 13        |
| Bromodichloromethane        | 16            | U                | 1000        | 854        |               | ug/L |   | 85   | 80 - 122    | 6   | 15        |
| Bromoform                   | 10            | U                | 1000        | 939        |               | ug/L |   | 94   | 61 - 132    | 2   | 15        |
| Bromomethane                | 28            | U F2             | 1000        | 784        | F2            | ug/L |   | 78   | 55 - 144    | 16  | 15        |
| Carbon disulfide            | 7.6           | U                | 1000        | 940        |               | ug/L |   | 94   | 59 - 134    | 6   | 15        |
| Carbon tetrachloride        | 11            | U                | 1000        | 810        |               | ug/L |   | 81   | 72 - 134    | 13  | 15        |
| Chlorobenzene               | 30            | U                | 1000        | 848        |               | ug/L |   | 85   | 80 - 120    | 4   | 25        |
| Dibromochloromethane        | 13            | U                | 1000        | 970        |               | ug/L |   | 97   | 75 - 125    | 1   | 15        |
| Chloroethane                | 13            | U                | 1000        | 916        |               | ug/L |   | 92   | 69 - 136    | 3   | 15        |
| Chloroform                  | 14            | U                | 1000        | 813        |               | ug/L |   | 81   | 73 - 127    | 6   | 20        |
| Chloromethane               | 14            | U                | 1000        | 818        |               | ug/L |   | 82   | 68 - 124    | 12  | 15        |
| cis-1,2-Dichloroethene      | 32            | U                | 1000        | 844        |               | ug/L |   | 84   | 74 - 124    | 4   | 15        |
| cis-1,3-Dichloropropene     | 14            | U                | 1000        | 914        |               | ug/L |   | 91   | 74 - 124    | 4   | 15        |
| Cyclohexane                 | 67            |                  | 1000        | 999        |               | ug/L |   | 93   | 59 - 135    | 9   | 20        |
| Dichlorodifluoromethane     | 27            | U                | 1000        | 786        |               | ug/L |   | 79   | 59 - 135    | 7   | 20        |
| Ethylbenzene                | 30            | U                | 1000        | 902        |               | ug/L |   | 90   | 77 - 123    | 4   | 15        |
| 1,2-Dibromoethane           | 29            | U                | 1000        | 867        |               | ug/L |   | 87   | 77 - 120    | 5   | 15        |
| Isopropylbenzene            | 45            |                  | 1000        | 976        |               | ug/L |   | 93   | 77 - 122    | 3   | 20        |
| Methyl acetate              | 52            | U                | 2000        | 2170       |               | ug/L |   | 109  | 74 - 133    | 8   | 20        |
| Methyl tert-butyl ether     | 6.4           | U                | 1000        | 845        |               | ug/L |   | 85   | 77 - 120    | 7   | 37        |
| Methylcyclohexane           | 40            |                  | 1000        | 926        |               | ug/L |   | 89   | 68 - 134    | 6   | 20        |
| Methylene Chloride          | 18            | U                | 1000        | 883        |               | ug/L |   | 88   | 75 - 124    | 8   | 15        |
| Styrene                     | 29            | U                | 1000        | 917        |               | ug/L |   | 92   | 80 - 120    | 2   | 20        |
| Tetrachloroethene           | 14            | U                | 1000        | 851        |               | ug/L |   | 85   | 74 - 122    | 3   | 20        |
| Toluene                     | 20            | U                | 1000        | 865        |               | ug/L |   | 87   | 80 - 122    | 3   | 15        |
| trans-1,2-Dichloroethene    | 36            | U                | 1000        | 867        |               | ug/L |   | 87   | 73 - 127    | 4   | 20        |
| trans-1,3-Dichloropropene   | 15            | U                | 1000        | 958        |               | ug/L |   | 96   | 80 - 120    | 0   | 15        |
| Trichloroethene             | 18            | U                | 1000        | 843        |               | ug/L |   | 84   | 74 - 123    | 6   | 16        |
| Trichlorofluoromethane      | 35            | U                | 1000        | 809        |               | ug/L |   | 81   | 62 - 150    | 10  | 20        |
| Vinyl chloride              | 36            | U                | 1000        | 835        |               | ug/L |   | 84   | 65 - 133    | 13  | 15        |
| Chlorobromomethane          | 35            | U                | 1000        | 781        |               | ug/L |   | 78   | 72 - 130    | 7   | 15        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr)            | 102           |               | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 95            |               | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 99            |               | 73 - 120 |
| Dibromofluoromethane (Surr)  | 95            |               | 75 - 123 |

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-637640/9

Matrix: Water

Analysis Batch: 637640

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                               | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | 0.82      | U            | 1.0 | 0.82 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,1,2,2-Tetrachloroethane             | 0.21      | U            | 1.0 | 0.21 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,1,2-Trichloroethane                 | 0.23      | U            | 1.0 | 0.23 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.31      | U            | 1.0 | 0.31 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,1-Dichloroethane                    | 0.38      | U            | 1.0 | 0.38 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,1-Dichloroethene                    | 0.29      | U            | 1.0 | 0.29 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,2,4-Trichlorobenzene                | 0.41      | U            | 1.0 | 0.41 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 0.39      | U            | 1.0 | 0.39 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,2-Dichlorobenzene                   | 0.79      | U            | 1.0 | 0.79 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,2,3-Trichlorobenzene                | 0.41      | U            | 1.0 | 0.41 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,2-Dichloroethane                    | 0.21      | U            | 1.0 | 0.21 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,2-Dichloropropane                   | 0.72      | U            | 1.0 | 0.72 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,3-Dichlorobenzene                   | 0.78      | U            | 1.0 | 0.78 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,4-Dichlorobenzene                   | 0.84      | U            | 1.0 | 0.84 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 2-Butanone (MEK)                      | 1.3       | U            | 10  | 1.3  | ug/L |   |          | 08/16/22 16:30 | 1       |
| 2-Hexanone                            | 1.2       | U            | 5.0 | 1.2  | ug/L |   |          | 08/16/22 16:30 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 2.1       | U            | 5.0 | 2.1  | ug/L |   |          | 08/16/22 16:30 | 1       |
| Acetone                               | 3.0       | U            | 10  | 3.0  | ug/L |   |          | 08/16/22 16:30 | 1       |
| Benzene                               | 0.41      | U            | 1.0 | 0.41 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Bromodichloromethane                  | 0.39      | U            | 1.0 | 0.39 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Bromoform                             | 0.26      | U            | 1.0 | 0.26 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Bromomethane                          | 0.69      | U            | 1.0 | 0.69 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Carbon disulfide                      | 0.19      | U            | 1.0 | 0.19 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Carbon tetrachloride                  | 0.27      | U            | 1.0 | 0.27 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Chlorobenzene                         | 0.75      | U            | 1.0 | 0.75 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Dibromochloromethane                  | 0.32      | U            | 1.0 | 0.32 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Chloroethane                          | 0.32      | U            | 1.0 | 0.32 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Chloroform                            | 0.34      | U            | 1.0 | 0.34 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Chloromethane                         | 0.35      | U            | 1.0 | 0.35 | ug/L |   |          | 08/16/22 16:30 | 1       |
| cis-1,2-Dichloroethene                | 0.81      | U            | 1.0 | 0.81 | ug/L |   |          | 08/16/22 16:30 | 1       |
| cis-1,3-Dichloropropene               | 0.36      | U            | 1.0 | 0.36 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Cyclohexane                           | 0.18      | U            | 1.0 | 0.18 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Dichlorodifluoromethane               | 0.68      | U            | 1.0 | 0.68 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Ethylbenzene                          | 0.74      | U            | 1.0 | 0.74 | ug/L |   |          | 08/16/22 16:30 | 1       |
| 1,2-Dibromoethane                     | 0.73      | U            | 1.0 | 0.73 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Isopropylbenzene                      | 0.79      | U            | 1.0 | 0.79 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Methyl acetate                        | 1.3       | U            | 2.5 | 1.3  | ug/L |   |          | 08/16/22 16:30 | 1       |
| Methyl tert-butyl ether               | 0.16      | U            | 1.0 | 0.16 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Methylcyclohexane                     | 0.16      | U            | 1.0 | 0.16 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Methylene Chloride                    | 0.44      | U            | 1.0 | 0.44 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Styrene                               | 0.73      | U            | 1.0 | 0.73 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Tetrachloroethene                     | 0.36      | U            | 1.0 | 0.36 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Toluene                               | 0.51      | U            | 1.0 | 0.51 | ug/L |   |          | 08/16/22 16:30 | 1       |
| trans-1,2-Dichloroethene              | 0.90      | U            | 1.0 | 0.90 | ug/L |   |          | 08/16/22 16:30 | 1       |
| trans-1,3-Dichloropropene             | 0.37      | U            | 1.0 | 0.37 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Trichloroethene                       | 0.46      | U            | 1.0 | 0.46 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Trichlorofluoromethane                | 0.88      | U            | 1.0 | 0.88 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Vinyl chloride                        | 0.90      | U            | 1.0 | 0.90 | ug/L |   |          | 08/16/22 16:30 | 1       |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-637640/9

Matrix: Water

Analysis Batch: 637640

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                      | MB Result    | MB Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|------|------|---|----------|----------------|---------|
| Xylenes, Total               | 0.66         | U            | 2.0      | 0.66 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Chlorobromomethane           | 0.87         | U            | 1.0      | 0.87 | ug/L |   |          | 08/16/22 16:30 | 1       |
| Surrogate                    | MB %Recovery | MB Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| Toluene-d8 (Surr)            | 94           |              | 80 - 120 |      |      |   |          | 08/16/22 16:30 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 110          |              | 77 - 120 |      |      |   |          | 08/16/22 16:30 | 1       |
| 4-Bromofluorobenzene (Surr)  | 95           |              | 73 - 120 |      |      |   |          | 08/16/22 16:30 | 1       |
| Dibromofluoromethane (Surr)  | 103          |              | 75 - 123 |      |      |   |          | 08/16/22 16:30 | 1       |

Lab Sample ID: LCS 480-637640/6

Matrix: Water

Analysis Batch: 637640

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                               | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1,1-Trichloroethane                 | 25.0        | 29.7       |               | ug/L |   | 119  | 73 - 126    |
| 1,1,2,2-Tetrachloroethane             | 25.0        | 24.8       |               | ug/L |   | 99   | 76 - 120    |
| 1,1,2-Trichloroethane                 | 25.0        | 26.0       |               | ug/L |   | 104  | 76 - 122    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0        | 31.8       |               | ug/L |   | 127  | 61 - 148    |
| 1,1-Dichloroethane                    | 25.0        | 31.0       | *+            | ug/L |   | 124  | 77 - 120    |
| 1,1-Dichloroethene                    | 25.0        | 31.2       |               | ug/L |   | 125  | 66 - 127    |
| 1,2,4-Trichlorobenzene                | 25.0        | 21.5       |               | ug/L |   | 86   | 79 - 122    |
| 1,2-Dibromo-3-Chloropropane           | 25.0        | 23.5       |               | ug/L |   | 94   | 56 - 134    |
| 1,2-Dichlorobenzene                   | 25.0        | 23.9       |               | ug/L |   | 96   | 80 - 124    |
| 1,2,3-Trichlorobenzene                | 25.0        | 22.2       |               | ug/L |   | 89   | 75 - 123    |
| 1,2-Dichloroethane                    | 25.0        | 28.7       |               | ug/L |   | 115  | 75 - 120    |
| 1,2-Dichloropropane                   | 25.0        | 28.8       |               | ug/L |   | 115  | 76 - 120    |
| 1,3-Dichlorobenzene                   | 25.0        | 24.8       |               | ug/L |   | 99   | 77 - 120    |
| 1,4-Dichlorobenzene                   | 25.0        | 24.7       |               | ug/L |   | 99   | 80 - 120    |
| 2-Butanone (MEK)                      | 125         | 242        | *+            | ug/L |   | 193  | 57 - 140    |
| 2-Hexanone                            | 125         | 130        |               | ug/L |   | 104  | 65 - 127    |
| 4-Methyl-2-pentanone (MIBK)           | 125         | 118        |               | ug/L |   | 94   | 71 - 125    |
| Acetone                               | 125         | 164        |               | ug/L |   | 131  | 56 - 142    |
| Benzene                               | 25.0        | 28.8       |               | ug/L |   | 115  | 71 - 124    |
| Bromodichloromethane                  | 25.0        | 29.2       |               | ug/L |   | 117  | 80 - 122    |
| Bromoform                             | 25.0        | 24.1       |               | ug/L |   | 96   | 61 - 132    |
| Bromomethane                          | 25.0        | 29.1       |               | ug/L |   | 116  | 55 - 144    |
| Carbon disulfide                      | 25.0        | 29.5       |               | ug/L |   | 118  | 59 - 134    |
| Carbon tetrachloride                  | 25.0        | 29.8       |               | ug/L |   | 119  | 72 - 134    |
| Chlorobenzene                         | 25.0        | 25.6       |               | ug/L |   | 102  | 80 - 120    |
| Dibromochloromethane                  | 25.0        | 25.8       |               | ug/L |   | 103  | 75 - 125    |
| Chloroethane                          | 25.0        | 29.4       |               | ug/L |   | 118  | 69 - 136    |
| Chloroform                            | 25.0        | 28.8       |               | ug/L |   | 115  | 73 - 127    |
| Chloromethane                         | 25.0        | 26.8       |               | ug/L |   | 107  | 68 - 124    |
| cis-1,2-Dichloroethene                | 25.0        | 28.9       |               | ug/L |   | 115  | 74 - 124    |
| cis-1,3-Dichloropropene               | 25.0        | 30.2       |               | ug/L |   | 121  | 74 - 124    |
| Cyclohexane                           | 25.0        | 28.7       |               | ug/L |   | 115  | 59 - 135    |
| Dichlorodifluoromethane               | 25.0        | 28.4       |               | ug/L |   | 114  | 59 - 135    |
| Ethylbenzene                          | 25.0        | 26.0       |               | ug/L |   | 104  | 77 - 123    |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-637640/6

Matrix: Water

Analysis Batch: 637640

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,2-Dibromoethane         | 25.0        | 24.9       |               | ug/L |   | 100  | 77 - 120    |
| Isopropylbenzene          | 25.0        | 25.2       |               | ug/L |   | 101  | 77 - 122    |
| Methyl acetate            | 50.0        | 53.4       |               | ug/L |   | 107  | 74 - 133    |
| Methyl tert-butyl ether   | 25.0        | 27.0       |               | ug/L |   | 108  | 77 - 120    |
| Methylcyclohexane         | 25.0        | 31.2       |               | ug/L |   | 125  | 68 - 134    |
| Methylene Chloride        | 25.0        | 28.7       |               | ug/L |   | 115  | 75 - 124    |
| Styrene                   | 25.0        | 25.7       |               | ug/L |   | 103  | 80 - 120    |
| Tetrachloroethene         | 25.0        | 25.8       |               | ug/L |   | 103  | 74 - 122    |
| Toluene                   | 25.0        | 25.4       |               | ug/L |   | 102  | 80 - 122    |
| trans-1,2-Dichloroethene  | 25.0        | 30.2       |               | ug/L |   | 121  | 73 - 127    |
| trans-1,3-Dichloropropene | 25.0        | 27.3       |               | ug/L |   | 109  | 80 - 120    |
| Trichloroethene           | 25.0        | 28.7       |               | ug/L |   | 115  | 74 - 123    |
| Trichlorofluoromethane    | 25.0        | 32.2       |               | ug/L |   | 129  | 62 - 150    |
| Vinyl chloride            | 25.0        | 25.3       |               | ug/L |   | 101  | 65 - 133    |
| Chlorobromomethane        | 25.0        | 28.3       |               | ug/L |   | 113  | 72 - 130    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr)            | 94            |               | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 107           |               | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 97            |               | 73 - 120 |
| Dibromofluoromethane (Surr)  | 103           |               | 75 - 123 |

Lab Sample ID: LCSD 480-637640/7

Matrix: Water

Analysis Batch: 637640

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                               | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1,1,1-Trichloroethane                 | 25.0        | 28.6        |                | ug/L |   | 114  | 73 - 126    | 4   | 15        |
| 1,1,2,2-Tetrachloroethane             | 25.0        | 24.9        |                | ug/L |   | 99   | 76 - 120    | 0   | 15        |
| 1,1,2-Trichloroethane                 | 25.0        | 25.2        |                | ug/L |   | 101  | 76 - 122    | 3   | 15        |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0        | 31.2        |                | ug/L |   | 125  | 61 - 148    | 2   | 20        |
| 1,1-Dichloroethane                    | 25.0        | 29.6        |                | ug/L |   | 118  | 77 - 120    | 4   | 20        |
| 1,1-Dichloroethene                    | 25.0        | 29.5        |                | ug/L |   | 118  | 66 - 127    | 6   | 16        |
| 1,2,4-Trichlorobenzene                | 25.0        | 21.5        |                | ug/L |   | 86   | 79 - 122    | 0   | 20        |
| 1,2-Dibromo-3-Chloropropane           | 25.0        | 23.5        |                | ug/L |   | 94   | 56 - 134    | 0   | 15        |
| 1,2-Dichlorobenzene                   | 25.0        | 23.5        |                | ug/L |   | 94   | 80 - 124    | 2   | 20        |
| 1,2,3-Trichlorobenzene                | 25.0        | 22.4        |                | ug/L |   | 89   | 75 - 123    | 1   | 20        |
| 1,2-Dichloroethane                    | 25.0        | 27.7        |                | ug/L |   | 111  | 75 - 120    | 3   | 20        |
| 1,2-Dichloropropane                   | 25.0        | 27.6        |                | ug/L |   | 110  | 76 - 120    | 4   | 20        |
| 1,3-Dichlorobenzene                   | 25.0        | 24.2        |                | ug/L |   | 97   | 77 - 120    | 2   | 20        |
| 1,4-Dichlorobenzene                   | 25.0        | 24.0        |                | ug/L |   | 96   | 80 - 120    | 3   | 20        |
| 2-Butanone (MEK)                      | 125         | 235         | +              | ug/L |   | 188  | 57 - 140    | 3   | 20        |
| 2-Hexanone                            | 125         | 127         |                | ug/L |   | 102  | 65 - 127    | 2   | 15        |
| 4-Methyl-2-pentanone (MIBK)           | 125         | 116         |                | ug/L |   | 93   | 71 - 125    | 2   | 35        |
| Acetone                               | 125         | 164         |                | ug/L |   | 131  | 56 - 142    | 0   | 15        |
| Benzene                               | 25.0        | 27.3        |                | ug/L |   | 109  | 71 - 124    | 5   | 13        |
| Bromodichloromethane                  | 25.0        | 28.2        |                | ug/L |   | 113  | 80 - 122    | 4   | 15        |
| Bromoform                             | 25.0        | 23.8        |                | ug/L |   | 95   | 61 - 132    | 1   | 15        |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-637640/7

Matrix: Water

Analysis Batch: 637640

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                   | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Bromomethane              | 25.0        | 27.3        |                | ug/L |   | 109  | 55 - 144    | 6   | 15        |
| Carbon disulfide          | 25.0        | 29.2        |                | ug/L |   | 117  | 59 - 134    | 1   | 15        |
| Carbon tetrachloride      | 25.0        | 29.2        |                | ug/L |   | 117  | 72 - 134    | 2   | 15        |
| Chlorobenzene             | 25.0        | 24.5        |                | ug/L |   | 98   | 80 - 120    | 4   | 25        |
| Dibromochloromethane      | 25.0        | 25.5        |                | ug/L |   | 102  | 75 - 125    | 1   | 15        |
| Chloroethane              | 25.0        | 27.3        |                | ug/L |   | 109  | 69 - 136    | 7   | 15        |
| Chloroform                | 25.0        | 27.3        |                | ug/L |   | 109  | 73 - 127    | 5   | 20        |
| Chloromethane             | 25.0        | 26.3        |                | ug/L |   | 105  | 68 - 124    | 2   | 15        |
| cis-1,2-Dichloroethene    | 25.0        | 27.7        |                | ug/L |   | 111  | 74 - 124    | 4   | 15        |
| cis-1,3-Dichloropropene   | 25.0        | 29.3        |                | ug/L |   | 117  | 74 - 124    | 3   | 15        |
| Cyclohexane               | 25.0        | 27.8        |                | ug/L |   | 111  | 59 - 135    | 3   | 20        |
| Dichlorodifluoromethane   | 25.0        | 27.0        |                | ug/L |   | 108  | 59 - 135    | 5   | 20        |
| Ethylbenzene              | 25.0        | 24.8        |                | ug/L |   | 99   | 77 - 123    | 5   | 15        |
| 1,2-Dibromoethane         | 25.0        | 24.7        |                | ug/L |   | 99   | 77 - 120    | 1   | 15        |
| Isopropylbenzene          | 25.0        | 24.5        |                | ug/L |   | 98   | 77 - 122    | 3   | 20        |
| Methyl acetate            | 50.0        | 51.8        |                | ug/L |   | 104  | 74 - 133    | 3   | 20        |
| Methyl tert-butyl ether   | 25.0        | 27.0        |                | ug/L |   | 108  | 77 - 120    | 0   | 37        |
| Methylcyclohexane         | 25.0        | 29.2        |                | ug/L |   | 117  | 68 - 134    | 7   | 20        |
| Methylene Chloride        | 25.0        | 27.9        |                | ug/L |   | 111  | 75 - 124    | 3   | 15        |
| Styrene                   | 25.0        | 24.7        |                | ug/L |   | 99   | 80 - 120    | 4   | 20        |
| Tetrachloroethene         | 25.0        | 24.6        |                | ug/L |   | 98   | 74 - 122    | 5   | 20        |
| Toluene                   | 25.0        | 24.3        |                | ug/L |   | 97   | 80 - 122    | 5   | 15        |
| trans-1,2-Dichloroethene  | 25.0        | 28.3        |                | ug/L |   | 113  | 73 - 127    | 7   | 20        |
| trans-1,3-Dichloropropene | 25.0        | 26.8        |                | ug/L |   | 107  | 80 - 120    | 2   | 15        |
| Trichloroethene           | 25.0        | 27.6        |                | ug/L |   | 111  | 74 - 123    | 4   | 16        |
| Trichlorofluoromethane    | 25.0        | 29.8        |                | ug/L |   | 119  | 62 - 150    | 8   | 20        |
| Vinyl chloride            | 25.0        | 24.8        |                | ug/L |   | 99   | 65 - 133    | 2   | 15        |
| Chlorobromomethane        | 25.0        | 27.9        |                | ug/L |   | 112  | 72 - 130    | 1   | 15        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------------|----------------|----------------|----------|
| Toluene-d8 (Surr)            | 95             |                | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 107            |                | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 97             |                | 73 - 120 |
| Dibromofluoromethane (Surr)  | 104            |                | 75 - 123 |

Lab Sample ID: MB 480-637762/9

Matrix: Water

Analysis Batch: 637762

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                               | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | 0.82      | U            | 1.0 | 0.82 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,1,2,2-Tetrachloroethane             | 0.21      | U            | 1.0 | 0.21 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,1,2-Trichloroethane                 | 0.23      | U            | 1.0 | 0.23 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.31      | U            | 1.0 | 0.31 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,1-Dichloroethane                    | 0.38      | U            | 1.0 | 0.38 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,1-Dichloroethene                    | 0.29      | U            | 1.0 | 0.29 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,2,4-Trichlorobenzene                | 0.41      | U            | 1.0 | 0.41 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 0.39      | U            | 1.0 | 0.39 | ug/L |   |          | 08/17/22 14:09 | 1       |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-637762/9

Matrix: Water

Analysis Batch: 637762

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene         | 0.79      | U            | 1.0 | 0.79 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,2,3-Trichlorobenzene      | 0.41      | U            | 1.0 | 0.41 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,2-Dichloroethane          | 0.21      | U            | 1.0 | 0.21 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,2-Dichloropropane         | 0.72      | U            | 1.0 | 0.72 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,3-Dichlorobenzene         | 0.78      | U            | 1.0 | 0.78 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,4-Dichlorobenzene         | 0.84      | U            | 1.0 | 0.84 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 2-Butanone (MEK)            | 1.3       | U            | 10  | 1.3  | ug/L |   |          | 08/17/22 14:09 | 1       |
| 2-Hexanone                  | 1.2       | U            | 5.0 | 1.2  | ug/L |   |          | 08/17/22 14:09 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 2.1       | U            | 5.0 | 2.1  | ug/L |   |          | 08/17/22 14:09 | 1       |
| Acetone                     | 3.0       | U            | 10  | 3.0  | ug/L |   |          | 08/17/22 14:09 | 1       |
| Benzene                     | 0.41      | U            | 1.0 | 0.41 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Bromodichloromethane        | 0.39      | U            | 1.0 | 0.39 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Bromoform                   | 0.26      | U            | 1.0 | 0.26 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Bromomethane                | 0.69      | U            | 1.0 | 0.69 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Carbon disulfide            | 0.19      | U            | 1.0 | 0.19 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Carbon tetrachloride        | 0.27      | U            | 1.0 | 0.27 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Chlorobenzene               | 0.75      | U            | 1.0 | 0.75 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Dibromochloromethane        | 0.32      | U            | 1.0 | 0.32 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Chloroethane                | 0.32      | U            | 1.0 | 0.32 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Chloroform                  | 0.34      | U            | 1.0 | 0.34 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Chloromethane               | 0.35      | U            | 1.0 | 0.35 | ug/L |   |          | 08/17/22 14:09 | 1       |
| cis-1,2-Dichloroethene      | 0.81      | U            | 1.0 | 0.81 | ug/L |   |          | 08/17/22 14:09 | 1       |
| cis-1,3-Dichloropropene     | 0.36      | U            | 1.0 | 0.36 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Cyclohexane                 | 0.18      | U            | 1.0 | 0.18 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Dichlorodifluoromethane     | 0.68      | U            | 1.0 | 0.68 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Ethylbenzene                | 0.74      | U            | 1.0 | 0.74 | ug/L |   |          | 08/17/22 14:09 | 1       |
| 1,2-Dibromoethane           | 0.73      | U            | 1.0 | 0.73 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Isopropylbenzene            | 0.79      | U            | 1.0 | 0.79 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Methyl acetate              | 1.3       | U            | 2.5 | 1.3  | ug/L |   |          | 08/17/22 14:09 | 1       |
| Methyl tert-butyl ether     | 0.16      | U            | 1.0 | 0.16 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Methylcyclohexane           | 0.16      | U            | 1.0 | 0.16 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Methylene Chloride          | 0.44      | U            | 1.0 | 0.44 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Styrene                     | 0.73      | U            | 1.0 | 0.73 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Tetrachloroethene           | 0.36      | U            | 1.0 | 0.36 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Toluene                     | 0.51      | U            | 1.0 | 0.51 | ug/L |   |          | 08/17/22 14:09 | 1       |
| trans-1,2-Dichloroethene    | 0.90      | U            | 1.0 | 0.90 | ug/L |   |          | 08/17/22 14:09 | 1       |
| trans-1,3-Dichloropropene   | 0.37      | U            | 1.0 | 0.37 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Trichloroethene             | 0.46      | U            | 1.0 | 0.46 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Trichlorofluoromethane      | 0.88      | U            | 1.0 | 0.88 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Vinyl chloride              | 0.90      | U            | 1.0 | 0.90 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Xylenes, Total              | 0.66      | U            | 2.0 | 0.66 | ug/L |   |          | 08/17/22 14:09 | 1       |
| Chlorobromomethane          | 0.87      | U            | 1.0 | 0.87 | ug/L |   |          | 08/17/22 14:09 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 94           |              | 80 - 120 |          | 08/17/22 14:09 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 110          |              | 77 - 120 |          | 08/17/22 14:09 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100          |              | 73 - 120 |          | 08/17/22 14:09 | 1       |
| Dibromofluoromethane (Surr)  | 103          |              | 75 - 123 |          | 08/17/22 14:09 | 1       |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-637762/6

Matrix: Water

Analysis Batch: 637762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                               | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1,1-Trichloroethane                 | 25.0        | 28.9       |               | ug/L |   | 115  | 73 - 126    |
| 1,1,2,2-Tetrachloroethane             | 25.0        | 22.6       |               | ug/L |   | 90   | 76 - 120    |
| 1,1,2-Trichloroethane                 | 25.0        | 24.5       |               | ug/L |   | 98   | 76 - 122    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0        | 32.6       |               | ug/L |   | 130  | 61 - 148    |
| 1,1-Dichloroethane                    | 25.0        | 29.5       |               | ug/L |   | 118  | 77 - 120    |
| 1,1-Dichloroethene                    | 25.0        | 29.7       |               | ug/L |   | 119  | 66 - 127    |
| 1,2,4-Trichlorobenzene                | 25.0        | 20.9       |               | ug/L |   | 84   | 79 - 122    |
| 1,2-Dibromo-3-Chloropropane           | 25.0        | 21.8       |               | ug/L |   | 87   | 56 - 134    |
| 1,2-Dichlorobenzene                   | 25.0        | 22.4       |               | ug/L |   | 90   | 80 - 124    |
| 1,2,3-Trichlorobenzene                | 25.0        | 21.2       |               | ug/L |   | 85   | 75 - 123    |
| 1,2-Dichloroethane                    | 25.0        | 27.5       |               | ug/L |   | 110  | 75 - 120    |
| 1,2-Dichloropropane                   | 25.0        | 27.2       |               | ug/L |   | 109  | 76 - 120    |
| 1,3-Dichlorobenzene                   | 25.0        | 23.1       |               | ug/L |   | 92   | 77 - 120    |
| 1,4-Dichlorobenzene                   | 25.0        | 22.6       |               | ug/L |   | 90   | 80 - 120    |
| 2-Butanone (MEK)                      | 125         | 222        | *+            | ug/L |   | 178  | 57 - 140    |
| 2-Hexanone                            | 125         | 121        |               | ug/L |   | 97   | 65 - 127    |
| 4-Methyl-2-pentanone (MIBK)           | 125         | 112        |               | ug/L |   | 89   | 71 - 125    |
| Acetone                               | 125         | 168        |               | ug/L |   | 134  | 56 - 142    |
| Benzene                               | 25.0        | 27.5       |               | ug/L |   | 110  | 71 - 124    |
| Bromodichloromethane                  | 25.0        | 28.0       |               | ug/L |   | 112  | 80 - 122    |
| Bromoform                             | 25.0        | 23.2       |               | ug/L |   | 93   | 61 - 132    |
| Bromomethane                          | 25.0        | 29.3       |               | ug/L |   | 117  | 55 - 144    |
| Carbon disulfide                      | 25.0        | 29.8       |               | ug/L |   | 119  | 59 - 134    |
| Carbon tetrachloride                  | 25.0        | 29.3       |               | ug/L |   | 117  | 72 - 134    |
| Chlorobenzene                         | 25.0        | 24.3       |               | ug/L |   | 97   | 80 - 120    |
| Dibromochloromethane                  | 25.0        | 24.9       |               | ug/L |   | 100  | 75 - 125    |
| Chloroethane                          | 25.0        | 30.0       |               | ug/L |   | 120  | 69 - 136    |
| Chloroform                            | 25.0        | 27.6       |               | ug/L |   | 111  | 73 - 127    |
| Chloromethane                         | 25.0        | 26.4       |               | ug/L |   | 106  | 68 - 124    |
| cis-1,2-Dichloroethene                | 25.0        | 27.6       |               | ug/L |   | 110  | 74 - 124    |
| cis-1,3-Dichloropropene               | 25.0        | 29.3       |               | ug/L |   | 117  | 74 - 124    |
| Cyclohexane                           | 25.0        | 27.7       |               | ug/L |   | 111  | 59 - 135    |
| Dichlorodifluoromethane               | 25.0        | 26.9       |               | ug/L |   | 108  | 59 - 135    |
| Ethylbenzene                          | 25.0        | 24.7       |               | ug/L |   | 99   | 77 - 123    |
| 1,2-Dibromoethane                     | 25.0        | 23.7       |               | ug/L |   | 95   | 77 - 120    |
| Isopropylbenzene                      | 25.0        | 23.0       |               | ug/L |   | 92   | 77 - 122    |
| Methyl acetate                        | 50.0        | 49.9       |               | ug/L |   | 100  | 74 - 133    |
| Methyl tert-butyl ether               | 25.0        | 26.4       |               | ug/L |   | 105  | 77 - 120    |
| Methylcyclohexane                     | 25.0        | 29.4       |               | ug/L |   | 118  | 68 - 134    |
| Methylene Chloride                    | 25.0        | 28.1       |               | ug/L |   | 112  | 75 - 124    |
| Styrene                               | 25.0        | 24.5       |               | ug/L |   | 98   | 80 - 120    |
| Tetrachloroethene                     | 25.0        | 24.5       |               | ug/L |   | 98   | 74 - 122    |
| Toluene                               | 25.0        | 24.2       |               | ug/L |   | 97   | 80 - 122    |
| trans-1,2-Dichloroethene              | 25.0        | 29.0       |               | ug/L |   | 116  | 73 - 127    |
| trans-1,3-Dichloropropene             | 25.0        | 26.1       |               | ug/L |   | 104  | 80 - 120    |
| Trichloroethene                       | 25.0        | 28.1       |               | ug/L |   | 112  | 74 - 123    |
| Trichlorofluoromethane                | 25.0        | 31.1       |               | ug/L |   | 124  | 62 - 150    |
| Vinyl chloride                        | 25.0        | 25.7       |               | ug/L |   | 103  | 65 - 133    |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-637762/6

Matrix: Water

Analysis Batch: 637762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                      | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------------|---------------|---------------|---------------|------|---|------|-------------|
| Chlorobromomethane           | 25.0          | 27.6          |               | ug/L |   | 110  | 72 - 130    |
|                              |               |               |               |      |   |      |             |
| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |             |
| Toluene-d8 (Surr)            | 92            |               | 80 - 120      |      |   |      |             |
| 1,2-Dichloroethane-d4 (Surr) | 104           |               | 77 - 120      |      |   |      |             |
| 4-Bromofluorobenzene (Surr)  | 96            |               | 73 - 120      |      |   |      |             |
| Dibromofluoromethane (Surr)  | 101           |               | 75 - 123      |      |   |      |             |

Lab Sample ID: LCSD 480-637762/7

Matrix: Water

Analysis Batch: 637762

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                               | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1,1,1-Trichloroethane                 | 25.0        | 27.1        |                | ug/L |   | 109  | 73 - 126    | 6   | 15        |
| 1,1,2,2-Tetrachloroethane             | 25.0        | 22.8        |                | ug/L |   | 91   | 76 - 120    | 1   | 15        |
| 1,1,2-Trichloroethane                 | 25.0        | 23.9        |                | ug/L |   | 96   | 76 - 122    | 2   | 15        |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0        | 27.4        |                | ug/L |   | 110  | 61 - 148    | 17  | 20        |
| 1,1-Dichloroethane                    | 25.0        | 28.3        |                | ug/L |   | 113  | 77 - 120    | 4   | 20        |
| 1,1-Dichloroethene                    | 25.0        | 27.8        |                | ug/L |   | 111  | 66 - 127    | 6   | 16        |
| 1,2,4-Trichlorobenzene                | 25.0        | 20.2        |                | ug/L |   | 81   | 79 - 122    | 4   | 20        |
| 1,2-Dibromo-3-Chloropropane           | 25.0        | 21.8        |                | ug/L |   | 87   | 56 - 134    | 0   | 15        |
| 1,2-Dichlorobenzene                   | 25.0        | 22.3        |                | ug/L |   | 89   | 80 - 124    | 1   | 20        |
| 1,2,3-Trichlorobenzene                | 25.0        | 20.9        |                | ug/L |   | 84   | 75 - 123    | 2   | 20        |
| 1,2-Dichloroethane                    | 25.0        | 26.5        |                | ug/L |   | 106  | 75 - 120    | 4   | 20        |
| 1,2-Dichloropropane                   | 25.0        | 26.5        |                | ug/L |   | 106  | 76 - 120    | 3   | 20        |
| 1,3-Dichlorobenzene                   | 25.0        | 23.0        |                | ug/L |   | 92   | 77 - 120    | 0   | 20        |
| 1,4-Dichlorobenzene                   | 25.0        | 22.6        |                | ug/L |   | 90   | 80 - 120    | 0   | 20        |
| 2-Butanone (MEK)                      | 125         | 221         | *+             | ug/L |   | 176  | 57 - 140    | 1   | 20        |
| 2-Hexanone                            | 125         | 117         |                | ug/L |   | 94   | 65 - 127    | 3   | 15        |
| 4-Methyl-2-pentanone (MIBK)           | 125         | 108         |                | ug/L |   | 86   | 71 - 125    | 4   | 35        |
| Acetone                               | 125         | 152         |                | ug/L |   | 122  | 56 - 142    | 10  | 15        |
| Benzene                               | 25.0        | 25.9        |                | ug/L |   | 104  | 71 - 124    | 6   | 13        |
| Bromodichloromethane                  | 25.0        | 27.5        |                | ug/L |   | 110  | 80 - 122    | 2   | 15        |
| Bromoform                             | 25.0        | 23.5        |                | ug/L |   | 94   | 61 - 132    | 1   | 15        |
| Bromomethane                          | 25.0        | 25.6        |                | ug/L |   | 102  | 55 - 144    | 14  | 15        |
| Carbon disulfide                      | 25.0        | 26.7        |                | ug/L |   | 107  | 59 - 134    | 11  | 15        |
| Carbon tetrachloride                  | 25.0        | 27.2        |                | ug/L |   | 109  | 72 - 134    | 7   | 15        |
| Chlorobenzene                         | 25.0        | 23.4        |                | ug/L |   | 93   | 80 - 120    | 4   | 25        |
| Dibromochloromethane                  | 25.0        | 24.9        |                | ug/L |   | 99   | 75 - 125    | 0   | 15        |
| Chloroethane                          | 25.0        | 25.2        | *1             | ug/L |   | 101  | 69 - 136    | 17  | 15        |
| Chloroform                            | 25.0        | 26.1        |                | ug/L |   | 104  | 73 - 127    | 6   | 20        |
| Chloromethane                         | 25.0        | 23.4        |                | ug/L |   | 94   | 68 - 124    | 12  | 15        |
| cis-1,2-Dichloroethene                | 25.0        | 26.6        |                | ug/L |   | 106  | 74 - 124    | 4   | 15        |
| cis-1,3-Dichloropropene               | 25.0        | 28.7        |                | ug/L |   | 115  | 74 - 124    | 2   | 15        |
| Cyclohexane                           | 25.0        | 25.5        |                | ug/L |   | 102  | 59 - 135    | 8   | 20        |
| Dichlorodifluoromethane               | 25.0        | 24.1        |                | ug/L |   | 96   | 59 - 135    | 11  | 20        |
| Ethylbenzene                          | 25.0        | 23.7        |                | ug/L |   | 95   | 77 - 123    | 4   | 15        |
| 1,2-Dibromoethane                     | 25.0        | 23.5        |                | ug/L |   | 94   | 77 - 120    | 1   | 15        |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-637762/7

Matrix: Water

Analysis Batch: 637762

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                   | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Isopropylbenzene          | 25.0        | 22.9        |                | ug/L |   | 92   | 77 - 122    | 0   | 20        |
| Methyl acetate            | 50.0        | 47.7        |                | ug/L |   | 95   | 74 - 133    | 5   | 20        |
| Methyl tert-butyl ether   | 25.0        | 25.9        |                | ug/L |   | 103  | 77 - 120    | 2   | 37        |
| Methylcyclohexane         | 25.0        | 27.5        |                | ug/L |   | 110  | 68 - 134    | 7   | 20        |
| Methylene Chloride        | 25.0        | 26.4        |                | ug/L |   | 105  | 75 - 124    | 6   | 15        |
| Styrene                   | 25.0        | 23.6        |                | ug/L |   | 95   | 80 - 120    | 4   | 20        |
| Tetrachloroethene         | 25.0        | 23.4        |                | ug/L |   | 94   | 74 - 122    | 5   | 20        |
| Toluene                   | 25.0        | 22.8        |                | ug/L |   | 91   | 80 - 122    | 6   | 15        |
| trans-1,2-Dichloroethene  | 25.0        | 27.0        |                | ug/L |   | 108  | 73 - 127    | 7   | 20        |
| trans-1,3-Dichloropropene | 25.0        | 25.5        |                | ug/L |   | 102  | 80 - 120    | 2   | 15        |
| Trichloroethene           | 25.0        | 26.3        |                | ug/L |   | 105  | 74 - 123    | 7   | 16        |
| Trichlorofluoromethane    | 25.0        | 27.6        |                | ug/L |   | 110  | 62 - 150    | 12  | 20        |
| Vinyl chloride            | 25.0        | 22.2        |                | ug/L |   | 89   | 65 - 133    | 14  | 15        |
| Chlorobromomethane        | 25.0        | 26.4        |                | ug/L |   | 106  | 72 - 130    | 4   | 15        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| Toluene-d8 (Surr)            | 93             |                | 80 - 120    |
| 1,2-Dichloroethane-d4 (Surr) | 108            |                | 77 - 120    |
| 4-Bromofluorobenzene (Surr)  | 100            |                | 73 - 120    |
| Dibromofluoromethane (Surr)  | 104            |                | 75 - 123    |

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

## GC/MS VOA

### Analysis Batch: 637566

| Lab Sample ID    | Client Sample ID          | Prep Type | Matrix | Method | Prep Batch |
|------------------|---------------------------|-----------|--------|--------|------------|
| 480-200570-1     | WG-11230275-081022-KM-001 | Total/NA  | Water  | 8260C  |            |
| MB 480-637566/8  | Method Blank              | Total/NA  | Water  | 8260C  |            |
| LCS 480-637566/6 | Lab Control Sample        | Total/NA  | Water  | 8260C  |            |
| 480-200570-1 MS  | WG-11230275-081022-KM-001 | Total/NA  | Water  | 8260C  |            |
| 480-200570-1 MSD | WG-11230275-081022-KM-001 | Total/NA  | Water  | 8260C  |            |

### Analysis Batch: 637640

| Lab Sample ID     | Client Sample ID          | Prep Type | Matrix | Method | Prep Batch |
|-------------------|---------------------------|-----------|--------|--------|------------|
| 480-200570-2      | WG-11230275-081022-KM-002 | Total/NA  | Water  | 8260C  |            |
| 480-200570-3      | WG-11230275-081022-KM-003 | Total/NA  | Water  | 8260C  |            |
| 480-200570-4      | TB-11230275-081022-KM     | Total/NA  | Water  | 8260C  |            |
| MB 480-637640/9   | Method Blank              | Total/NA  | Water  | 8260C  |            |
| LCS 480-637640/6  | Lab Control Sample        | Total/NA  | Water  | 8260C  |            |
| LCSD 480-637640/7 | Lab Control Sample Dup    | Total/NA  | Water  | 8260C  |            |

### Analysis Batch: 637762

| Lab Sample ID     | Client Sample ID          | Prep Type | Matrix | Method | Prep Batch |
|-------------------|---------------------------|-----------|--------|--------|------------|
| 480-200570-3 - DL | WG-11230275-081022-KM-003 | Total/NA  | Water  | 8260C  |            |
| MB 480-637762/9   | Method Blank              | Total/NA  | Water  | 8260C  |            |
| LCS 480-637762/6  | Lab Control Sample        | Total/NA  | Water  | 8260C  |            |
| LCSD 480-637762/7 | Lab Control Sample Dup    | Total/NA  | Water  | 8260C  |            |

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

**Client Sample ID: WG-11230275-081022-KM-001**

**Lab Sample ID: 480-200570-1**

**Date Collected: 08/10/22 13:30**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260C        |     | 40              | 637566       | ATG     | EET BUF | 08/16/22 13:25       |

**Client Sample ID: WG-11230275-081022-KM-002**

**Lab Sample ID: 480-200570-2**

**Date Collected: 08/10/22 14:30**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260C        |     | 40              | 637640       | CB      | EET BUF | 08/16/22 16:56       |

**Client Sample ID: WG-11230275-081022-KM-003**

**Lab Sample ID: 480-200570-3**

**Date Collected: 08/10/22 14:30**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260C        |     | 10              | 637640       | CB      | EET BUF | 08/16/22 17:20       |
| Total/NA  | Analysis   | 8260C        | DL  | 40              | 637762       | CB      | EET BUF | 08/17/22 14:43       |

**Client Sample ID: TB-11230275-081022-KM**

**Lab Sample ID: 480-200570-4**

**Date Collected: 08/10/22 00:00**

**Matrix: Water**

**Date Received: 08/10/22 16:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 637640       | CB      | EET BUF | 08/16/22 17:43       |

## Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

### Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York  | NELAP   | 10026                 | 03-31-23        |

## Method Summary

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

| Method | Method Description                  | Protocol | Laboratory |
|--------|-------------------------------------|----------|------------|
| 8260C  | Volatile Organic Compounds by GC/MS | SW846    | EET BUF    |
| 5030C  | Purge and Trap                      | SW846    | EET BUF    |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: GHD Services Inc.  
Project/Site: 11230275, River Road

Job ID: 480-200570-1

| Lab Sample ID | Client Sample ID          | Matrix | Collected      | Received       |
|---------------|---------------------------|--------|----------------|----------------|
| 480-200570-1  | WG-11230275-081022-KM-001 | Water  | 08/10/22 13:30 | 08/10/22 16:00 |
| 480-200570-2  | WG-11230275-081022-KM-002 | Water  | 08/10/22 14:30 | 08/10/22 16:00 |
| 480-200570-3  | WG-11230275-081022-KM-003 | Water  | 08/10/22 14:30 | 08/10/22 16:00 |
| 480-200570-4  | TB-11230275-081022-KM     | Water  | 08/10/22 00:00 | 08/10/22 16:00 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S Analysis Batch Number: 636697Lab Sample ID: IC 480-636697/13 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/09/22 17:06 Lab File ID: S4495.D GC Column: ZB-624 (20) ID: 0.18 (mm)

| COMPOUND NAME                         | RETENTION<br>TIME | MANUAL INTEGRATION        |         |                |
|---------------------------------------|-------------------|---------------------------|---------|----------------|
|                                       |                   | REASON                    | ANALYST | DATE           |
| Vinyl chloride                        | 1.25              | Peak assignment corrected | FGO5    | 08/10/22 09:23 |
| Chloroethane                          | 1.58              | Poor chromatography       | WLL8    | 08/10/22 14:27 |
| Dichlorofluoromethane                 | 1.77              | Poor chromatography       | FGO5    | 08/10/22 09:24 |
| Ethyl ether                           | 2.00              | Poor chromatography       | FGO5    | 08/10/22 09:24 |
| Acrolein                              | 2.17              | Poor chromatography       | FGO5    | 08/10/22 09:24 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.19              | Poor chromatography       | FGO5    | 08/10/22 10:33 |
| 1,1-Dichloroethene                    | 2.19              | Poor chromatography       | WLL8    | 08/10/22 14:27 |
| Acetone                               | 2.32              | Poor chromatography       | WLL8    | 08/10/22 14:28 |
| Iodomethane                           | 2.34              | Poor chromatography       | FGO5    | 08/10/22 09:24 |
| Allyl chloride                        | 2.54              | Poor chromatography       | WLL8    | 08/10/22 14:28 |
| Methyl acetate                        | 2.59              | Poor chromatography       | WLL8    | 08/10/22 14:28 |
| Methylene Chloride                    | 2.70              | Poor chromatography       | FGO5    | 08/10/22 09:25 |
| Acrylonitrile                         | 2.96              | Poor chromatography       | FGO5    | 08/10/22 09:25 |
| Vinyl acetate                         | 3.37              | Poor chromatography       | FGO5    | 08/10/22 09:25 |
| 1,1-Dichloropropene                   | 4.41              | Poor chromatography       | FGO5    | 08/10/22 09:26 |
| n-Heptane                             | 4.79              | Poor chromatography       | FGO5    | 08/10/22 09:26 |
| 1,4-Dioxane                           | 5.60              | Poor chromatography       | FGO5    | 08/10/22 09:26 |
| Dibromochloromethane                  | 7.29              | Poor chromatography       | FGO5    | 08/10/22 09:27 |
| Chlorobenzene                         | 7.85              | Poor chromatography       | FGO5    | 08/10/22 09:28 |
| Ethylbenzene                          | 7.95              | Poor chromatography       | FGO5    | 08/10/22 09:28 |
| o-Xylene                              | 8.50              | Poor chromatography       | FGO5    | 08/10/22 09:28 |
| Styrene                               | 8.54              | Poor chromatography       | FGO5    | 08/10/22 09:29 |
| Bromoform                             | 8.77              | Poor chromatography       | FGO5    | 08/10/22 09:29 |
| trans-1,4-Dichloro-2-butene           | 9.37              | Poor chromatography       | FGO5    | 08/10/22 10:43 |
| 4-Chlorotoluene                       | 9.54              | Poor chromatography       | FGO5    | 08/10/22 09:29 |
| 1,2-Dibromo-3-Chloropropane           | 11.40             | Poor chromatography       | FGO5    | 08/10/22 09:30 |
| Naphthalene                           | 12.29             | Poor chromatography       | FGO5    | 08/10/22 09:30 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S Analysis Batch Number: 636697Lab Sample ID: IC 480-636697/14 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/09/22 17:30 Lab File ID: S4496.D GC Column: ZB-624 (20) ID: 0.18 (mm)

| COMPOUND NAME           | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|-------------------------|-------------------|---------------------|---------|----------------|
|                         |                   | REASON              | ANALYST | DATE           |
| Dichlorodifluoromethane | 1.04              | Poor chromatography | FGO5    | 08/10/22 09:31 |
| Butadiene               | 1.25              | Poor chromatography | FGO5    | 08/10/22 09:31 |
| Chloroethane            | 1.59              | Poor chromatography | WLL8    | 08/10/22 14:29 |
| Trichlorofluoromethane  | 1.75              | Poor chromatography | WLL8    | 08/10/22 14:29 |
| Ethyl ether             | 2.01              | Poor chromatography | FGO5    | 08/10/22 09:32 |
| 1,1-Dichloroethene      | 2.20              | Poor chromatography | FGO5    | 08/10/22 09:32 |
| Acetone                 | 2.31              | Poor chromatography | WLL8    | 08/10/22 14:29 |
| Methyl acetate          | 2.60              | Poor chromatography | WLL8    | 08/10/22 14:30 |
| 2-Methyl-2-propanol     | 2.87              | Poor chromatography | FGO5    | 08/10/22 09:33 |
| Methyl tert-butyl ether | 2.88              | Poor chromatography | FGO5    | 08/10/22 09:33 |
| 2-Butanone (MEK)        | 3.89              | Poor chromatography | FGO5    | 08/10/22 09:34 |
| Isobutyl alcohol        | 4.66              | Poor chromatography | FGO5    | 08/10/22 09:34 |
| n-Heptane               | 4.79              | Poor chromatography | FGO5    | 08/10/22 09:34 |
| Styrene                 | 8.54              | Poor chromatography | FGO5    | 08/10/22 09:35 |



## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S Analysis Batch Number: 636697Lab Sample ID: IC 480-636697/15 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/09/22 17:53 Lab File ID: S4497.D GC Column: ZB-624 (20) ID: 0.18 (mm)

| COMPOUND NAME                         | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------------------------------|-------------------|---------------------|---------|----------------|
|                                       |                   | REASON              | ANALYST | DATE           |
| Dichlorodifluoromethane               | 1.03              | Poor chromatography | FG05    | 08/10/22 09:37 |
| Butadiene                             | 1.27              | Poor chromatography | FG05    | 08/10/22 09:37 |
| Chloroethane                          | 1.58              | Poor chromatography | FG05    | 08/10/22 09:37 |
| Trichlorofluoromethane                | 1.75              | Poor chromatography | FG05    | 08/10/22 09:37 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.17              | Poor chromatography | FG05    | 08/10/22 09:38 |
| Acetone                               | 2.31              | Poor chromatography | FG05    | 08/10/22 09:38 |
| Carbon disulfide                      | 2.37              | Poor chromatography | FG05    | 08/10/22 09:38 |
| Allyl chloride                        | 2.54              | Poor chromatography | FG05    | 08/10/22 09:38 |
| Methyl acetate                        | 2.59              | Poor chromatography | FG05    | 08/10/22 09:39 |
| Methylene Chloride                    | 2.68              | Poor chromatography | FG05    | 08/10/22 09:39 |
| 2-Methyl-2-propanol                   | 2.86              | Poor chromatography | FG05    | 08/10/22 09:39 |
| Acrylonitrile                         | 2.96              | Poor chromatography | FG05    | 08/10/22 09:40 |
| 1,1-Dichloroethane                    | 3.30              | Poor chromatography | FG05    | 08/10/22 09:40 |
| Carbon tetrachloride                  | 4.38              | Poor chromatography | FG05    | 08/10/22 09:40 |
| n-Heptane                             | 4.78              | Poor chromatography | FG05    | 08/10/22 09:41 |
| 2-Hexanone                            | 7.14              | Poor chromatography | FG05    | 08/10/22 09:41 |
| Dibromochloromethane                  | 7.29              | Poor chromatography | FG05    | 08/10/22 09:42 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S Analysis Batch Number: 636697Lab Sample ID: IC 480-636697/16 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/09/22 18:16 Lab File ID: S4498.D GC Column: ZB-624 (20) ID: 0.18 (mm)

| COMPOUND NAME          | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|------------------------|-------------------|---------------------|---------|----------------|
|                        |                   | REASON              | ANALYST | DATE           |
| Butadiene              | 1.27              | Poor chromatography | FGO5    | 08/10/22 09:43 |
| Bromomethane           | 1.50              | Poor chromatography | FGO5    | 08/10/22 09:43 |
| Chloroethane           | 1.58              | Poor chromatography | FGO5    | 08/10/22 09:44 |
| Trichlorofluoromethane | 1.75              | Poor chromatography | FGO5    | 08/10/22 09:44 |
| 1,1-Dichloroethene     | 2.19              | Poor chromatography | FGO5    | 08/10/22 09:44 |
| Iodomethane            | 2.34              | Poor chromatography | FGO5    | 08/10/22 09:44 |
| 2-Methyl-2-propanol    | 2.87              | Poor chromatography | FGO5    | 08/10/22 09:45 |
| Acrylonitrile          | 2.96              | Poor chromatography | FGO5    | 08/10/22 09:45 |
| Tetrahydrofuran        | 4.09              | Poor chromatography | FGO5    | 08/10/22 09:45 |
| Chloroform             | 4.16              | Poor chromatography | FGO5    | 08/10/22 09:46 |
| n-Heptane              | 4.79              | Poor chromatography | FGO5    | 08/10/22 09:46 |
| 1,4-Dioxane            | 5.60              | Poor chromatography | WLL8    | 08/10/22 14:31 |

Lab Sample ID: IC 480-636697/17 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/09/22 18:40 Lab File ID: S4499.D GC Column: ZB-624 (20) ID: 0.18 (mm)

| COMPOUND NAME                         | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------------------------------|-------------------|---------------------|---------|----------------|
|                                       |                   | REASON              | ANALYST | DATE           |
| Butadiene                             | 1.27              | Poor chromatography | WLL8    | 08/10/22 14:32 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.19              | Poor chromatography | WLL8    | 08/10/22 14:32 |
| 1,1-Dichloroethene                    | 2.20              | Poor chromatography | WLL8    | 08/10/22 14:32 |
| 2-Methyl-2-propanol                   | 2.86              | Poor chromatography | WLL8    | 08/10/22 14:33 |
| Acrylonitrile                         | 2.96              | Poor chromatography | WLL8    | 08/10/22 14:33 |
| 1,4-Dioxane                           | 5.60              | Poor chromatography | WLL8    | 08/10/22 14:33 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S Analysis Batch Number: 636697Lab Sample ID: ICIS 480-636697/18 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/09/22 19:03 Lab File ID: S4500.D GC Column: ZB-624 (20) ID: 0.18 (mm)

| COMPOUND NAME            | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|--------------------------|-------------------|---------------------|---------|----------------|
|                          |                   | REASON              | ANALYST | DATE           |
| Methylene Chloride       | 2.68              | Poor chromatography | FGO5    | 08/10/22 09:18 |
| trans-1,2-Dichloroethene | 2.90              | Poor chromatography | FGO5    | 08/10/22 09:19 |
| 1,2-Dibromoethane        | 7.38              | Poor chromatography | FGO5    | 08/10/22 09:20 |

Lab Sample ID: IC 480-636697/19 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/09/22 19:26 Lab File ID: S4501.D GC Column: ZB-624 (20) ID: 0.18 (mm)

| COMPOUND NAME | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------|-------------------|---------------------|---------|----------------|
|               |                   | REASON              | ANALYST | DATE           |
| 1,4-Dioxane   | 5.59              | Poor chromatography | WLL8    | 08/10/22 14:34 |

Lab Sample ID: ICV 480-636697/34 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/10/22 01:14 Lab File ID: S4516.D GC Column: ZB-624 (20) ID: 0.18 (mm)

| COMPOUND NAME               | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|-----------------------------|-------------------|---------------------|---------|----------------|
|                             |                   | REASON              | ANALYST | DATE           |
| Methylene Chloride          | 2.68              | Poor chromatography | FGO5    | 08/10/22 11:32 |
| 2-Methyl-2-propanol         | 2.86              | Poor chromatography | FGO5    | 08/10/22 11:32 |
| Acrylonitrile               | 2.96              | Poor chromatography | FGO5    | 08/10/22 11:32 |
| Isobutyl alcohol            | 4.65              | Poor chromatography | FGO5    | 08/10/22 11:33 |
| 1,4-Dioxane                 | 5.60              | Poor chromatography | FGO5    | 08/10/22 11:33 |
| trans-1,4-Dichloro-2-butene | 9.36              | Poor chromatography | FGO5    | 08/10/22 11:34 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S Analysis Batch Number: 637566Lab Sample ID: 480-200570-1 Client Sample ID: WG-11230275-081022-KM-001Date Analyzed: 08/16/22 13:25 Lab File ID: S4718.D GC Column: ZB-624 (20) ID: 0.18 (mm)

| COMPOUND NAME               | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|-----------------------------|-------------------|---------------------|---------|----------------|
|                             |                   | REASON              | ANALYST | DATE           |
| 1,2-Dibromo-3-Chloropropane |                   | Invalid Compound ID | FGO5    | 08/17/22 10:52 |
| Acetone                     |                   | Invalid Compound ID | FGO5    | 08/17/22 10:51 |
| Chloroform                  |                   | Invalid Compound ID | FGO5    | 08/17/22 10:51 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L Analysis Batch Number: 632802Lab Sample ID: IC 480-632802/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/07/22 12:02 Lab File ID: L18025.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME                         | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------------------------------|-------------------|---------------------|---------|----------------|
|                                       |                   | REASON              | ANALYST | DATE           |
| Butadiene                             | 2.13              | Poor chromatography | WLL8    | 07/07/22 12:52 |
| Bromomethane                          | 2.49              | Poor chromatography | WLL8    | 07/07/22 12:52 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 3.24              | Poor chromatography | WLL8    | 07/07/22 12:52 |
| Carbon disulfide                      | 3.47              | Poor chromatography | WLL8    | 07/07/22 12:52 |
| Allyl chloride                        | 3.59              | Poor chromatography | WLL8    | 07/07/22 12:52 |
| Hexane                                | 4.08              | Poor chromatography | WLL8    | 07/07/22 12:53 |
| 2,2-Dichloropropane                   | 4.77              | Poor chromatography | WLL8    | 07/07/22 12:53 |
| Carbon tetrachloride                  | 5.34              | Poor chromatography | WLL8    | 07/07/22 12:53 |
| Benzene                               | 5.54              | Poor chromatography | WLL8    | 07/07/22 12:53 |
| 1,4-Dioxane                           | 6.46              | Poor chromatography | WLL8    | 07/07/22 12:53 |
| 2-Chloroethyl vinyl ether             | 6.82              | Poor chromatography | WLL8    | 07/07/22 12:53 |
| cis-1,3-Dichloropropene               | 6.99              | Poor chromatography | WLL8    | 07/07/22 12:53 |
| 1,1,2-Trichloroethane                 | 7.72              | Poor chromatography | WLL8    | 07/07/22 12:53 |
| 1,3-Dichloropropane                   | 7.88              | Poor chromatography | WLL8    | 07/07/22 12:53 |
| Dibromochloromethane                  | 8.12              | Poor chromatography | WLL8    | 07/07/22 14:36 |
| m,p-Xylene                            | 8.88              | Poor chromatography | WLL8    | 07/07/22 12:54 |
| 2-Chlorotoluene                       | 10.26             | Poor chromatography | WLL8    | 07/07/22 14:36 |
| 1,4-Dichlorobenzene                   | 11.09             | Poor chromatography | WLL8    | 07/07/22 12:54 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L Analysis Batch Number: 632802Lab Sample ID: IC 480-632802/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/07/22 12:30 Lab File ID: L18026.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME        | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|----------------------|-------------------|---------------------|---------|----------------|
|                      |                   | REASON              | ANALYST | DATE           |
| Bromomethane         | 2.48              | Poor chromatography | WLL8    | 07/07/22 12:55 |
| Iodomethane          | 3.43              | Poor chromatography | WLL8    | 07/07/22 12:55 |
| 2-Methyl-2-propanol  | 3.84              | Poor chromatography | WLL8    | 07/11/22 09:53 |
| Dibromochloromethane | 8.12              | Poor chromatography | WLL8    | 07/07/22 14:37 |
| Bromoform            | 9.62              | Poor chromatography | WLL8    | 07/07/22 12:55 |
| 2-Chlorotoluene      | 10.26             | Poor chromatography | WLL8    | 07/07/22 14:37 |

Lab Sample ID: IC 480-632802/11 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/07/22 12:57 Lab File ID: L18027.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME       | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------------|-------------------|---------------------|---------|----------------|
|                     |                   | REASON              | ANALYST | DATE           |
| 2-Methyl-2-propanol | 3.85              | Poor chromatography | WLL8    | 07/11/22 09:53 |

Lab Sample ID: IC 480-632802/12 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/07/22 13:25 Lab File ID: L18028.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME       | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------------|-------------------|---------------------|---------|----------------|
|                     |                   | REASON              | ANALYST | DATE           |
| 2-Methyl-2-propanol | 3.84              | Poor chromatography | WLL8    | 07/11/22 09:54 |

Lab Sample ID: IC 480-632802/13 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/07/22 13:53 Lab File ID: L18029.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME       | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------------|-------------------|---------------------|---------|----------------|
|                     |                   | REASON              | ANALYST | DATE           |
| 2-Methyl-2-propanol | 3.84              | Poor chromatography | WLL8    | 07/11/22 09:54 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L Analysis Batch Number: 632802Lab Sample ID: ICIS 480-632802/14 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/07/22 14:21 Lab File ID: L18030.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME    | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|------------------|-------------------|---------------------|---------|----------------|
|                  |                   | REASON              | ANALYST | DATE           |
| Isobutyl alcohol | 5.48              | Poor chromatography | WLL8    | 07/07/22 14:40 |

Lab Sample ID: IC 480-632802/15 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/07/22 14:48 Lab File ID: L18031.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME       | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------------|-------------------|---------------------|---------|----------------|
|                     |                   | REASON              | ANALYST | DATE           |
| 2-Methyl-2-propanol | 3.84              | Poor chromatography | WLL8    | 07/11/22 09:55 |
| Isobutyl alcohol    | 5.47              | Poor chromatography | WLL8    | 07/11/22 09:50 |

Lab Sample ID: IC 480-632802/16 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/07/22 15:16 Lab File ID: L18032.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME       | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------------|-------------------|---------------------|---------|----------------|
|                     |                   | REASON              | ANALYST | DATE           |
| 2-Methyl-2-propanol | 3.84              | Poor chromatography | WLL8    | 07/11/22 09:55 |
| 1,4-Dioxane         | 6.45              | Poor chromatography | WLL8    | 07/11/22 09:49 |

Lab Sample ID: ICV 480-632802/30 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/07/22 21:44 Lab File ID: L18046.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------|-------------------|---------------------|---------|----------------|
|               |                   | REASON              | ANALYST | DATE           |
| 1,4-Dioxane   | 6.45              | Poor chromatography | WLL8    | 07/11/22 12:11 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L Analysis Batch Number: 637640Lab Sample ID: CCVIS 480-637640/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/16/22 14:21 Lab File ID: L19193.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME          | RETENTION<br>TIME | MANUAL INTEGRATION        |         |                |
|------------------------|-------------------|---------------------------|---------|----------------|
|                        |                   | REASON                    | ANALYST | DATE           |
| Chloromethane          | 2.00              | Peak assignment corrected | LS5G    | 08/16/22 14:46 |
| Acetone                | 3.36              | Poor chromatography       | LS5G    | 08/16/22 14:50 |
| 1,2,4-Trichlorobenzene | 12.76             | Poor chromatography       | LS5G    | 08/16/22 14:48 |

Lab Sample ID: LCS 480-637640/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/16/22 15:19 Lab File ID: L19195.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME                         | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------------------------------|-------------------|---------------------|---------|----------------|
|                                       |                   | REASON              | ANALYST | DATE           |
| Trichlorofluoromethane                | 2.80              | Poor chromatography | LS5G    | 08/16/22 16:50 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 3.27              | Poor chromatography | LS5G    | 08/16/22 16:50 |
| Carbon disulfide                      | 3.48              | Poor chromatography | LS5G    | 08/16/22 16:52 |
| 2-Butanone (MEK)                      | 4.83              | Poor chromatography | LS5G    | 08/16/22 16:52 |
| Methylcyclohexane                     | 6.22              | Poor chromatography | LS5G    | 08/16/22 16:53 |

Lab Sample ID: LCSD 480-637640/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/16/22 15:43 Lab File ID: L19196.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME     | RETENTION<br>TIME | MANUAL INTEGRATION        |         |                |
|-------------------|-------------------|---------------------------|---------|----------------|
|                   |                   | REASON                    | ANALYST | DATE           |
| 2-Butanone (MEK)  | 4.83              | Peak assignment corrected | LS5G    | 08/16/22 16:54 |
| Methylcyclohexane | 6.22              | Peak assignment corrected | LS5G    | 08/16/22 16:55 |



## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L Analysis Batch Number: 637640Lab Sample ID: 480-200570-2 Client Sample ID: WG-11230275-081022-KM-002Date Analyzed: 08/16/22 16:56 Lab File ID: L19199.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME       | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------------|-------------------|---------------------|---------|----------------|
|                     |                   | REASON              | ANALYST | DATE           |
| 1,2-Dichloroethane  |                   | Invalid Compound ID | LS5G    | 08/17/22 10:11 |
| 2-Butanone (MEK)    |                   | Invalid Compound ID | LS5G    | 08/17/22 10:11 |
| Methyl acetate      |                   | Invalid Compound ID | LS5G    | 08/17/22 10:13 |
| m-Xylene & p-Xylene |                   | Invalid Compound ID | LS5G    | 08/17/22 10:12 |
| o-Xylene            |                   | Invalid Compound ID | LS5G    | 08/17/22 10:12 |

Lab Sample ID: 480-200570-3 Client Sample ID: WG-11230275-081022-KM-003Date Analyzed: 08/16/22 17:20 Lab File ID: L19200.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME      | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|--------------------|-------------------|---------------------|---------|----------------|
|                    |                   | REASON              | ANALYST | DATE           |
| 2-Butanone (MEK)   | 4.84              | Poor chromatography | LS5G    | 08/17/22 10:16 |
| Cyclohexane        | 5.22              | Poor chromatography | LS5G    | 08/17/22 10:17 |
| Methylcyclohexane  | 6.22              | Poor chromatography | LS5G    | 08/17/22 10:17 |
| Methyl acetate     |                   | Invalid Compound ID | LS5G    | 08/17/22 10:16 |
| Methylene Chloride |                   | Invalid Compound ID | LS5G    | 08/17/22 10:16 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L Analysis Batch Number: 637762Lab Sample ID: LCS 480-637762/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/17/22 12:51 Lab File ID: L19228.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME          | RETENTION<br>TIME | MANUAL INTEGRATION        |         |                |
|------------------------|-------------------|---------------------------|---------|----------------|
|                        |                   | REASON                    | ANALYST | DATE           |
| Methylcyclohexane      | 6.22              | Peak assignment corrected | LS5G    | 08/17/22 13:13 |
| 1,2,4-Trichlorobenzene | 12.76             | Poor chromatography       | LS5G    | 08/17/22 13:14 |

Lab Sample ID: LCSD 480-637762/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/17/22 13:14 Lab File ID: L19229.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME          | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|------------------------|-------------------|---------------------|---------|----------------|
|                        |                   | REASON              | ANALYST | DATE           |
| Trichlorofluoromethane | 2.79              | Poor chromatography | LS5G    | 08/17/22 13:38 |
| 2-Butanone (MEK)       | 4.83              | Poor chromatography | LS5G    | 08/17/22 13:39 |
| Methylcyclohexane      | 6.22              | Poor chromatography | LS5G    | 08/17/22 13:39 |

Lab Sample ID: 480-200570-3 DL Client Sample ID: WG-11230275-081022-KM-003 DLDate Analyzed: 08/17/22 14:43 Lab File ID: L19232.D GC Column: ZB-624 (30) V ID: 0.25 (mm)

| COMPOUND NAME      | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|--------------------|-------------------|---------------------|---------|----------------|
|                    |                   | REASON              | ANALYST | DATE           |
| Acetone            | 3.26              | Poor chromatography | LS5G    | 08/17/22 16:06 |
| Methylcyclohexane  | 6.21              | Poor chromatography | LS5G    | 08/17/22 16:07 |
| 2-Butanone (MEK)   |                   | Invalid Compound ID | LS5G    | 08/17/22 16:06 |
| Methyl acetate     |                   | Invalid Compound ID | LS5G    | 08/17/22 16:06 |
| Methylene Chloride |                   | Invalid Compound ID | LS5G    | 08/17/22 16:06 |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID          | Exp Date | Prep Date | Dilutant Used            | Reagent Final Volume | Parent Reagent     |              | Analyte                               | Concentration |
|---------------------|----------|-----------|--------------------------|----------------------|--------------------|--------------|---------------------------------------|---------------|
|                     |          |           |                          |                      | Reagent ID         | Volume Added |                                       |               |
| 8260 CORP mix_00226 | 07/31/22 | 06/20/22  | Methanol, Lot 22C2362001 | 20 mL                | 2-CEVE_00198       | 800 uL       | 2-Chloroethyl vinyl ether             | 100 ug/mL     |
|                     |          |           |                          |                      | Acrolein Mix_00471 | 500 uL       | Acrolein                              | 500 ug/mL     |
|                     |          |           |                          |                      | Ketones_00192      | 800 uL       | 2-Butanone (MEK)                      | 500 ug/mL     |
|                     |          |           |                          |                      |                    |              | 2-Hexanone                            | 500 ug/mL     |
|                     |          |           |                          |                      |                    |              | 4-Methyl-2-pentanone (MIBK)           | 500 ug/mL     |
|                     |          |           |                          |                      |                    |              | Acetone                               | 500 ug/mL     |
|                     |          |           |                          |                      | MegaMix_00192      | 800 uL       | 1,1,1,2-Tetrachloroethane             | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1,1-Trichloroethane                 | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1,2,2-Tetrachloroethane             | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1,2-Trichloro-1,2,2-trifluoroethane | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1,2-Trichloroethane                 | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1-Dichloroethane                    | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1-Dichloroethene                    | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1-Dichloropropene                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2,3-Trichlorobenzene                | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2,3-Trichloropropene                | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2,4-Trichlorobenzene                | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2,4-Trimethylbenzene                | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2-Dibromo-3-Chloropropane           | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2-Dibromoethane                     | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2-Dichlorobenzene                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2-Dichloroethane                    | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2-Dichloropropane                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,3,5-Trimethylbenzene                | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,3-Dichlorobenzene                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,3-Dichloropropane                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,4-Dichlorobenzene                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,4-Dioxane                           | 2000 ug/mL    |
|                     |          |           |                          |                      |                    |              | 2,2-Dichloropropane                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 2-Chlorotoluene                       | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 2-Methyl-2-propanol                   | 1000 ug/mL    |
|                     |          |           |                          |                      |                    |              | 3-Chloro-1-propene                    | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 4-Chlorotoluene                       | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 4-Isopropyltoluene                    | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | Acrylonitrile                         | 1000 ug/mL    |
|                     |          |           |                          |                      |                    |              | Benzene                               | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | Bromobenzene                          | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | Bromodichloromethane                  | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | Bromoform                             | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | Carbon disulfide                      | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | Carbon tetrachloride                  | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | Chlorobenzene                         | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | Chlorobromomethane                    | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | Chloroform                            | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | cis-1,2-Dichloroethene                | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | cis-1,3-Dichloropropene               | 100 ug/mL     |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo

Job No.: 480-200570-1

SDG No.:

| Reagent ID          | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                               | Concentration |
|---------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|---------------------------------------|---------------|
|                     |          |           |                      |                      | Reagent ID          | Volume Added |                                       |               |
|                     |          |           |                      |                      |                     |              | Cyclohexane                           | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Dibromochloromethane                  | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Dibromomethane                        | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Ethyl ether                           | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Ethyl methacrylate                    | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Ethylbenzene                          | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Hexachlorobutadiene                   | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Hexane                                | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Iodomethane                           | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Isobutyl alcohol                      | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | Isopropylbenzene                      | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | m-Xylene & p-Xylene                   | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Methyl acetate                        | 200 ug/mL     |
|                     |          |           |                      |                      |                     |              | Methyl tert-butyl ether               | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Methylcyclohexane                     | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Methylene Chloride                    | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | n-Butylbenzene                        | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | n-Heptane                             | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | N-Propylbenzene                       | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Naphthalene                           | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | o-Xylene                              | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | sec-Butylbenzene                      | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Styrene                               | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | tert-Butylbenzene                     | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Tetrachloroethene                     | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Tetrahydrofuran                       | 200 ug/mL     |
|                     |          |           |                      |                      |                     |              | Toluene                               | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | trans-1,2-Dichloroethene              | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | trans-1,3-Dichloropropene             | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | trans-1,4-Dichloro-2-butene           | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Trichloroethene                       | 100 ug/mL     |
|                     |          |           |                      |                      | Vinyl Acetate_00322 | 800 uL       | Vinyl acetate                         | 200 ug/mL     |
| .2-CEVE_00198       | 01/31/25 |           | Restek, Lot A0180640 |                      | (Purchased Reagent) |              | 2-Chloroethyl vinyl ether             | 2500 ug/mL    |
| .Acrolein Mix_00471 | 02/28/23 |           | Restek, Lot A0175809 |                      | (Purchased Reagent) |              | Acrolein                              | 20000 ug/mL   |
| .Ketones_00192      | 01/31/25 |           | Restek, Lot A0180742 |                      | (Purchased Reagent) |              | 2-Butanone (MEK)                      | 12500 ug/mL   |
|                     |          |           |                      |                      |                     |              | 2-Hexanone                            | 12500 ug/mL   |
|                     |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone (MIBK)           | 12500 ug/mL   |
|                     |          |           |                      |                      |                     |              | Acetone                               | 12500 ug/mL   |
| .MegaMix_00192      | 10/31/22 |           | Restek, Lot A0159680 |                      | (Purchased Reagent) |              | 1,1,1,2-Tetrachloroethane             | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | 1,1,1-Trichloroethane                 | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | 1,1,2,2-Tetrachloroethane             | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | 1,1,2-Trichloroethane                 | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | 1,1-Dichloroethane                    | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | 1,1-Dichloroethene                    | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | 1,1-Dichloropropene                   | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | 1,2,3-Trichlorobenzene                | 2500 ug/mL    |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                     | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-----------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                             |               |
|            |          |           |               |                      |                |              | 1,2,3-Trichloropropane      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2,4-Trichlorobenzene      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2,4-Trimethylbenzene      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dibromo-3-Chloropropane | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane           | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,3-Dichloropropane         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,4-Dioxane                 | 50000 ug/mL   |
|            |          |           |               |                      |                |              | 2,2-Dichloropropane         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 2-Chlorotoluene             | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 2-Methyl-2-propanol         | 25000 ug/mL   |
|            |          |           |               |                      |                |              | 3-Chloro-1-propene          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 4-Chlorotoluene             | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Acrylonitrile               | 25000 ug/mL   |
|            |          |           |               |                      |                |              | Benzene                     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromobenzene                | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromodichloromethane        | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromoform                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Carbon disulfide            | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Carbon tetrachloride        | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Chlorobenzene               | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Chlorobromomethane          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Chloroform                  | 2500 ug/mL    |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Cyclohexane                 | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Dibromochloromethane        | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Dibromomethane              | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Ethyl ether                 | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Ethyl methacrylate          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Ethylbenzene                | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Hexachlorobutadiene         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Hexane                      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Iodomethane                 | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Isobutyl alcohol            | 62500 ug/mL   |
|            |          |           |               |                      |                |              | Isopropylbenzene            | 2500 ug/mL    |
|            |          |           |               |                      |                |              | m-Xylene & p-Xylene         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Methyl acetate              | 5000 ug/mL    |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Methylcyclohexane           | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Methylene Chloride          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | n-Butylbenzene              | 2500 ug/mL    |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID           | Exp Date | Prep Date | Dilutant Used            | Reagent Final Volume | Parent Reagent      |              | Analyte                               | Concentration |
|----------------------|----------|-----------|--------------------------|----------------------|---------------------|--------------|---------------------------------------|---------------|
|                      |          |           |                          |                      | Reagent ID          | Volume Added |                                       |               |
|                      |          |           |                          |                      |                     |              | n-Heptane                             | 2500 ug/mL    |
|                      |          |           |                          |                      |                     |              | N-Propylbenzene                       | 2500 ug/mL    |
|                      |          |           |                          |                      |                     |              | Naphthalene                           | 2500 ug/mL    |
|                      |          |           |                          |                      |                     |              | o-Xylene                              | 2500 ug/mL    |
|                      |          |           |                          |                      |                     |              | sec-Butylbenzene                      | 2500 ug/mL    |
|                      |          |           |                          |                      |                     |              | Styrene                               | 2500 ug/mL    |
|                      |          |           |                          |                      |                     |              | tert-Butylbenzene                     | 2500 ug/mL    |
|                      |          |           |                          |                      |                     |              | Tetrachloroethene                     | 2500 ug/mL    |
|                      |          |           |                          |                      |                     |              | Tetrahydrofuran                       | 5000 ug/mL    |
|                      |          |           |                          |                      |                     |              | Toluene                               | 2500 ug/mL    |
|                      |          |           |                          |                      |                     |              | trans-1,2-Dichloroethene              | 2500 ug/mL    |
|                      |          |           |                          |                      |                     |              | trans-1,3-Dichloropropene             | 2500 ug/mL    |
|                      |          |           |                          |                      |                     |              | trans-1,4-Dichloro-2-butene           | 2500 ug/mL    |
|                      |          |           |                          |                      |                     |              | Trichloroethene                       | 2500 ug/mL    |
| .Vinyl Acetate 00322 | 01/31/23 |           | Restek, Lot A0174298     |                      | (Purchased Reagent) |              | Vinyl acetate                         | 5000 ug/mL    |
| 8260 CORP mix_00227  | 09/12/22 | 07/12/22  | Methanol, Lot 22C2362001 | 20 mL                | Ketones_00193       | 800 uL       | 2-Butanone (MEK)                      | 500 ug/mL     |
|                      |          |           |                          |                      | MegaMix_00193       | 800 uL       | 2-Hexanone                            | 500 ug/mL     |
|                      |          |           |                          |                      |                     |              | 4-Methyl-2-pentanone (MIBK)           | 500 ug/mL     |
|                      |          |           |                          |                      |                     |              | Acetone                               | 500 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,1,1-Trichloroethane                 | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,1,2,2-Tetrachloroethane             | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,1,2-Trichloro-1,2,2-trifluoroethane | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,1,2-Trichloroethane                 | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,1-Dichloroethane                    | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,1-Dichloroethene                    | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,2,3-Trichlorobenzene                | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,2,4-Trichlorobenzene                | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,2-Dibromo-3-Chloropropane           | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,2-Dibromoethane                     | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,2-Dichlorobenzene                   | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,2-Dichloroethane                    | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,2-Dichloropropane                   | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,3-Dichlorobenzene                   | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | 1,4-Dichlorobenzene                   | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | Benzene                               | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | Bromodichloromethane                  | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | Bromoform                             | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | Carbon disulfide                      | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | Carbon tetrachloride                  | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | Chlorobenzene                         | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | Chlorobromomethane                    | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | Chloroform                            | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | cis-1,2-Dichloroethene                | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | cis-1,3-Dichloropropene               | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | Cyclohexane                           | 100 ug/mL     |
|                      |          |           |                          |                      |                     |              | Dibromochloromethane                  | 100 ug/mL     |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID     | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                               | Concentration |
|----------------|----------|-----------|----------------------|----------------------|---------------------|--------------|---------------------------------------|---------------|
|                |          |           |                      |                      | Reagent ID          | Volume Added |                                       |               |
|                |          |           |                      |                      |                     |              | Ethylbenzene                          | 100 ug/mL     |
|                |          |           |                      |                      |                     |              | Isopropylbenzene                      | 100 ug/mL     |
|                |          |           |                      |                      |                     |              | Methyl acetate                        | 200 ug/mL     |
|                |          |           |                      |                      |                     |              | Methyl tert-butyl ether               | 100 ug/mL     |
|                |          |           |                      |                      |                     |              | Methylcyclohexane                     | 100 ug/mL     |
|                |          |           |                      |                      |                     |              | Methylene Chloride                    | 100 ug/mL     |
|                |          |           |                      |                      |                     |              | Styrene                               | 100 ug/mL     |
|                |          |           |                      |                      |                     |              | Tetrachloroethene                     | 100 ug/mL     |
|                |          |           |                      |                      |                     |              | Toluene                               | 100 ug/mL     |
|                |          |           |                      |                      |                     |              | trans-1,2-Dichloroethene              | 100 ug/mL     |
|                |          |           |                      |                      |                     |              | trans-1,3-Dichloropropene             | 100 ug/mL     |
|                |          |           |                      |                      |                     |              | Trichloroethene                       | 100 ug/mL     |
| .Ketones_00193 | 01/31/25 |           | Restek, Lot A0180742 |                      | (Purchased Reagent) |              | 2-Butanone (MEK)                      | 12500 ug/mL   |
|                |          |           |                      |                      |                     |              | 2-Hexanone                            | 12500 ug/mL   |
|                |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone (MIBK)           | 12500 ug/mL   |
|                |          |           |                      |                      |                     |              | Acetone                               | 12500 ug/mL   |
| .MegaMix_00193 | 10/31/22 |           | Restek, Lot A0159680 |                      | (Purchased Reagent) |              | 1,1,1-Trichloroethane                 | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,1,2,2-Tetrachloroethane             | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,1,2-Trichloroethane                 | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,1-Dichloroethane                    | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,1-Dichloroethene                    | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,2,3-Trichlorobenzene                | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,2,4-Trichlorobenzene                | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,2-Dibromo-3-Chloropropane           | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,2-Dibromoethane                     | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,2-Dichlorobenzene                   | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,2-Dichloroethane                    | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,2-Dichloropropane                   | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,3-Dichlorobenzene                   | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | 1,4-Dichlorobenzene                   | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Benzene                               | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Bromodichloromethane                  | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Bromoform                             | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Carbon disulfide                      | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Carbon tetrachloride                  | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Chlorobenzene                         | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Chlorobromomethane                    | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Chloroform                            | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | cis-1,2-Dichloroethene                | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | cis-1,3-Dichloropropene               | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Cyclohexane                           | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Dibromochloromethane                  | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Ethylbenzene                          | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Isopropylbenzene                      | 2500 ug/mL    |
|                |          |           |                      |                      |                     |              | Methyl acetate                        | 5000 ug/mL    |
|                |          |           |                      |                      |                     |              | Methyl tert-butyl ether               | 2500 ug/mL    |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID          | Exp Date | Prep Date | Dilutant Used            | Reagent Final Volume | Parent Reagent     |              | Analyte                               | Concentration |
|---------------------|----------|-----------|--------------------------|----------------------|--------------------|--------------|---------------------------------------|---------------|
|                     |          |           |                          |                      | Reagent ID         | Volume Added |                                       |               |
|                     |          |           |                          |                      |                    |              | Methylcyclohexane                     | 2500 ug/mL    |
|                     |          |           |                          |                      |                    |              | Methylene Chloride                    | 2500 ug/mL    |
|                     |          |           |                          |                      |                    |              | Styrene                               | 2500 ug/mL    |
|                     |          |           |                          |                      |                    |              | Tetrachloroethene                     | 2500 ug/mL    |
|                     |          |           |                          |                      |                    |              | Toluene                               | 2500 ug/mL    |
|                     |          |           |                          |                      |                    |              | trans-1,2-Dichloroethene              | 2500 ug/mL    |
|                     |          |           |                          |                      |                    |              | trans-1,3-Dichloropropene             | 2500 ug/mL    |
| 8260 CORP mix_00228 | 10/09/22 | 08/09/22  | Methanol, Lot 22C2362001 | 20 mL                | 2-CEVE_00200       | 800 uL       | 2-Chloroethyl vinyl ether             | 100 ug/mL     |
|                     |          |           |                          |                      | Acrolein Mix_00473 | 500 uL       | Acrolein                              | 500 ug/mL     |
|                     |          |           |                          |                      | Ketones_00194      | 800 uL       | 2-Butanone (MEK)                      | 500 ug/mL     |
|                     |          |           |                          |                      |                    |              | 2-Hexanone                            | 500 ug/mL     |
|                     |          |           |                          |                      |                    |              | 4-Methyl-2-pentanone (MIBK)           | 500 ug/mL     |
|                     |          |           |                          |                      |                    |              | Acetone                               | 500 ug/mL     |
|                     |          |           |                          |                      | MegaMix_00194      | 800 uL       | 1,1,1,2-Tetrachloroethane             | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1,1-Trichloroethane                 | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1,2,2-Tetrachloroethane             | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1,2-Trichloro-1,2,2-trifluoroethane | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1,2-Trichloroethane                 | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1-Dichloroethane                    | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1-Dichloroethene                    | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,1-Dichloropropene                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2,3-Trichlorobenzene                | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2,3-Trichloropropane                | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2,4-Trichlorobenzene                | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2,4-Trimethylbenzene                | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2-Dibromo-3-Chloropropane           | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2-Dibromoethane                     | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2-Dichlorobenzene                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2-Dichloroethane                    | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,2-Dichloropropane                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,3,5-Trimethylbenzene                | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,3-Dichlorobenzene                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,3-Dichloropropane                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,4-Dichlorobenzene                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 1,4-Dioxane                           | 2000 ug/mL    |
|                     |          |           |                          |                      |                    |              | 2,2-Dichloropropane                   | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 2-Chlorotoluene                       | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 2-Methyl-2-propanol                   | 1000 ug/mL    |
|                     |          |           |                          |                      |                    |              | 3-Chloro-1-propene                    | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 4-Chlorotoluene                       | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | 4-Isopropyltoluene                    | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | Acrylonitrile                         | 1000 ug/mL    |
|                     |          |           |                          |                      |                    |              | Benzene                               | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | Bromobenzene                          | 100 ug/mL     |
|                     |          |           |                          |                      |                    |              | Bromodichloromethane                  | 100 ug/mL     |



# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo

Job No.: 480-200570-1

SDG No.:

| Reagent ID          | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                     | Concentration |
|---------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|-----------------------------|---------------|
|                     |          |           |                      |                      | Reagent ID          | Volume Added |                             |               |
|                     |          |           |                      |                      |                     |              | Bromoform                   | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Carbon disulfide            | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Carbon tetrachloride        | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Chlorobenzene               | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Chlorobromomethane          | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Chloroform                  | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | cis-1,2-Dichloroethene      | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | cis-1,3-Dichloropropene     | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Cyclohexane                 | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Dibromochloromethane        | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Dibromomethane              | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Ethyl ether                 | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Ethyl methacrylate          | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Ethylbenzene                | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Hexachlorobutadiene         | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Hexane                      | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Iodomethane                 | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Isobutyl alcohol            | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | Isopropylbenzene            | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | m-Xylene & p-Xylene         | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Methyl acetate              | 200 ug/mL     |
|                     |          |           |                      |                      |                     |              | Methyl tert-butyl ether     | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Methylcyclohexane           | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Methylene Chloride          | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | n-Butylbenzene              | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | n-Heptane                   | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | N-Propylbenzene             | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Naphthalene                 | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | o-Xylene                    | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | sec-Butylbenzene            | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Styrene                     | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | tert-Butylbenzene           | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Tetrachloroethene           | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Tetrahydrofuran             | 200 ug/mL     |
|                     |          |           |                      |                      |                     |              | Toluene                     | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | trans-1,2-Dichloroethene    | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | trans-1,3-Dichloropropene   | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | trans-1,4-Dichloro-2-butene | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Trichloroethene             | 100 ug/mL     |
|                     |          |           |                      |                      | Vinyl Acetate_00324 | 800 uL       | Vinyl acetate               | 200 ug/mL     |
| .2-CEVE_00200       | 01/31/25 |           | Restek, Lot A0180640 |                      | (Purchased Reagent) |              | 2-Chloroethyl vinyl ether   | 2500 ug/mL    |
| .Acrolein Mix_00473 | 02/28/23 |           | Restek, Lot A0175809 |                      | (Purchased Reagent) |              | Acrolein                    | 20000 ug/mL   |
| .Ketones_00194      | 01/31/25 |           | Restek, Lot A0180742 |                      | (Purchased Reagent) |              | 2-Butanone (MEK)            | 12500 ug/mL   |
|                     |          |           |                      |                      |                     |              | 2-Hexanone                  | 12500 ug/mL   |
|                     |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone (MIBK) | 12500 ug/mL   |
|                     |          |           |                      |                      |                     |              | Acetone                     | 12500 ug/mL   |
| .MegaMix_00194      | 10/31/22 |           | Restek, Lot A0159680 |                      | (Purchased Reagent) |              | 1,1,1,2-Tetrachloroethane   | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | 1,1,1-Trichloroethane       | 2500 ug/mL    |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                               | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---------------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                       |               |
|            |          |           |               |                      |                |              | 1,1,2,2-Tetrachloroethane             | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,1,2-Trichloroethane                 | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,1-Dichloroethane                    | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,1-Dichloroethene                    | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,1-Dichloropropene                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2,3-Trichlorobenzene                | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2,3-Trichloropropane                | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2,4-Trichlorobenzene                | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2,4-Trimethylbenzene                | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dibromo-3-Chloropropane           | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                    | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,3-Dichloropropane                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,4-Dioxane                           | 50000 ug/mL   |
|            |          |           |               |                      |                |              | 2,2-Dichloropropane                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                       | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 2-Methyl-2-propanol                   | 25000 ug/mL   |
|            |          |           |               |                      |                |              | 3-Chloro-1-propene                    | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 4-Chlorotoluene                       | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                    | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Acrylonitrile                         | 25000 ug/mL   |
|            |          |           |               |                      |                |              | Benzene                               | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromobenzene                          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromodichloromethane                  | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromoform                             | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Carbon disulfide                      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Carbon tetrachloride                  | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Chlorobenzene                         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Chlorobromomethane                    | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Chloroform                            | 2500 ug/mL    |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                | 2500 ug/mL    |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene               | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Cyclohexane                           | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Dibromochloromethane                  | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Dibromomethane                        | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Ethyl ether                           | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Ethyl methacrylate                    | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Ethylbenzene                          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Hexane                                | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Iodomethane                           | 2500 ug/mL    |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID                  | Exp Date   | Prep Date             | Dilutant Used         | Reagent Final Volume | Parent Reagent      |              | Analyte                         | Concentration |
|-----------------------------|------------|-----------------------|-----------------------|----------------------|---------------------|--------------|---------------------------------|---------------|
|                             |            |                       |                       |                      | Reagent ID          | Volume Added |                                 |               |
|                             |            |                       |                       |                      |                     |              | Isobutyl alcohol                | 62500 ug/mL   |
|                             |            |                       |                       |                      |                     |              | Isopropylbenzene                | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | m-Xylene & p-Xylene             | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | Methyl acetate                  | 5000 ug/mL    |
|                             |            |                       |                       |                      |                     |              | Methyl tert-butyl ether         | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | Methylcyclohexane               | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | Methylene Chloride              | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | n-Butylbenzene                  | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | n-Heptane                       | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | N-Propylbenzene                 | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | Naphthalene                     | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | o-Xylene                        | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | sec-Butylbenzene                | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | Styrene                         | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | tert-Butylbenzene               | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | Tetrachloroethene               | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | Tetrahydrofuran                 | 5000 ug/mL    |
|                             |            |                       |                       |                      |                     |              | Toluene                         | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | trans-1,2-Dichloroethene        | 2500 ug/mL    |
|                             |            |                       |                       |                      |                     |              | trans-1,3-Dichloropropene       | 2500 ug/mL    |
| trans-1,4-Dichloro-2-butene | 2500 ug/mL |                       |                       |                      |                     |              |                                 |               |
| Trichloroethene             | 2500 ug/mL |                       |                       |                      |                     |              |                                 |               |
| .Vinyl Acetate_00324        | 01/31/23   | Restek, Lot A0174298  |                       |                      | (Purchased Reagent) |              | Vinyl acetate                   | 5000 ug/mL    |
| BFB_WRK_00136               |            |                       |                       |                      |                     |              | 1,2-Dichloroethene, Total       |               |
|                             |            |                       |                       |                      |                     |              | 1,3-Dichloropropene, Total      |               |
|                             |            |                       |                       |                      |                     |              | Tentatively Identified Compound |               |
|                             |            |                       |                       |                      |                     |              | Total BTEX                      |               |
|                             |            |                       |                       |                      |                     |              | Trihalomethanes, Total          |               |
|                             |            |                       |                       |                      |                     |              | Xylenes, Total                  |               |
|                             |            |                       |                       |                      | MV_BFB_STK_00079    | 20 uL        | BFB                             | 50000 ug/L    |
| .MV BFB STK 00079           | 09/30/24   | Supelco, Lot LRAD0322 |                       |                      | (Purchased Reagent) |              | BFB                             | 25000 ug/mL   |
| BFB_WRK_00137               |            |                       |                       |                      |                     |              | 1,2-Dichloroethene, Total       |               |
|                             |            |                       |                       |                      |                     |              | 1,3-Dichloropropene, Total      |               |
|                             |            |                       |                       |                      |                     |              | Tentatively Identified Compound |               |
|                             |            |                       |                       |                      |                     |              | Total BTEX                      |               |
|                             |            |                       |                       |                      |                     |              | Trihalomethanes, Total          |               |
|                             |            |                       |                       |                      |                     |              | Xylenes, Total                  |               |
|                             |            |                       |                       |                      | MV_BFB_STK_00080    | 20 uL        | BFB                             | 50000 ug/L    |
| .MV_BFB_STK_00080           | 02/07/23   | Supelco, Lot LRAD0322 |                       |                      | (Purchased Reagent) |              | BFB                             | 25000 ug/mL   |
| GAS CORP mix_00517          | 07/12/22   | 07/05/22              | Methanol, Lot EA832US | 20 mL                | 8260/624-Gas_00451  | 800 uL       | Bromomethane                    | 100 ug/mL     |
|                             |            |                       |                       |                      |                     |              | Butadiene                       | 100 ug/mL     |
|                             |            |                       |                       |                      |                     |              | Chloroethane                    | 100 ug/mL     |
|                             |            |                       |                       |                      |                     |              | Chloromethane                   | 100 ug/mL     |
|                             |            |                       |                       |                      |                     |              | Dichlorodifluoromethane         | 100 ug/mL     |
|                             |            |                       |                       |                      |                     |              | Dichlorofluoromethane           | 100 ug/mL     |
|                             |            |                       |                       |                      |                     |              |                                 |               |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID              | Exp Date   | Prep Date            | Dilutant Used             | Reagent Final Volume | Parent Reagent      |              | Analyte                      | Concentration |                      |  |  |                     |  |                        |            |
|-------------------------|------------|----------------------|---------------------------|----------------------|---------------------|--------------|------------------------------|---------------|----------------------|--|--|---------------------|--|------------------------|------------|
|                         |            |                      |                           |                      | Reagent ID          | Volume Added |                              |               |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Trichlorofluoromethane       | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Vinyl chloride               | 100 ug/mL     |                      |  |  |                     |  |                        |            |
| .8260/624-Gas_00451     | 01/31/25   | Restek, Lot A0180996 |                           |                      | (Purchased Reagent) |              | Bromomethane                 | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Butadiene                    | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Chloroethane                 | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Chloromethane                | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Dichlorodifluoromethane      | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Dichlorofluoromethane        | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Trichlorofluoromethane       | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Vinyl chloride               | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
| GAS CORP mix_00524      | 08/16/22   | 08/09/22             | Methanol, Lot EA832US     | 20 mL                | 8260/624-Gas_00457  | 800 uL       | Bromomethane                 | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Butadiene                    | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Chloroethane                 | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Chloromethane                | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Dichlorodifluoromethane      | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Dichlorofluoromethane        | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Trichlorofluoromethane       | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Vinyl chloride               | 100 ug/mL     |                      |  |  |                     |  |                        |            |
| .8260/624-Gas_00457     | 05/31/25   | Restek, Lot A0184726 |                           |                      | (Purchased Reagent) |              | Bromomethane                 | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Butadiene                    | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Chloroethane                 | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Chloromethane                | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Dichlorodifluoromethane      | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Dichlorofluoromethane        | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Trichlorofluoromethane       | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Vinyl chloride               | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
| GAS CORP mix_00525      | 08/23/22   | 08/16/22             | Methanol, Lot EA832US     | 20 mL                | 8260/624-Gas_00458  | 800 uL       | Bromomethane                 | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Chloroethane                 | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Chloromethane                | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Dichlorodifluoromethane      | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Trichlorofluoromethane       | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Vinyl chloride               | 100 ug/mL     |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | .8260/624-Gas_00458          | 05/31/25      | Restek, Lot A0184726 |  |  | (Purchased Reagent) |  | Bromomethane           | 2500 ug/mL |
|                         |            |                      |                           |                      |                     |              |                              |               |                      |  |  |                     |  | Chloroethane           | 2500 ug/mL |
| Chloromethane           | 2500 ug/mL |                      |                           |                      |                     |              |                              |               |                      |  |  |                     |  |                        |            |
| Dichlorodifluoromethane | 2500 ug/mL |                      |                           |                      |                     |              |                              |               |                      |  |  |                     |  |                        |            |
| Trichlorofluoromethane  | 2500 ug/mL |                      |                           |                      |                     |              |                              |               |                      |  |  |                     |  |                        |            |
| Vinyl chloride          | 2500 ug/mL |                      |                           |                      |                     |              |                              |               |                      |  |  |                     |  |                        |            |
| L_8260_IS_00038         | 08/22/22   | 06/22/22             | P&T Methanol, Lot ec126us | 5 mL                 | IS_STK_01584        | 125 uL       |                              |               |                      |  |  |                     |  | 1,4-Dichlorobenzene-d4 | 62.5 ug/mL |
|                         |            |                      |                           |                      |                     |              |                              |               |                      |  |  |                     |  | Chlorobenzene-d5       | 62.5 ug/mL |
|                         |            |                      |                           |                      |                     |              | Fluorobenzene (IS)           | 62.5 ug/mL    |                      |  |  |                     |  |                        |            |
| .IS_STK_01584           | 12/22/22   | Restek, Lot A0180349 |                           |                      | (Purchased Reagent) |              | 1,4-Dichlorobenzene-d4       | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Chlorobenzene-d5             | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
|                         |            |                      |                           |                      |                     |              | Fluorobenzene (IS)           | 2500 ug/mL    |                      |  |  |                     |  |                        |            |
| L_8260_SURR_00036       | 08/22/22   | 06/22/22             | P&T Methanol, Lot ec126us | 5 mL                 | SURR_STK_00495      | 125 uL       | 1,2-Dichloroethane-d4 (Surr) | 62.5 ug/mL    |                      |  |  |                     |  |                        |            |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID         | Exp Date | Prep Date | Dilutant Used            | Reagent Final Volume | Parent Reagent      |              | Analyte                               | Concentration |
|--------------------|----------|-----------|--------------------------|----------------------|---------------------|--------------|---------------------------------------|---------------|
|                    |          |           |                          |                      | Reagent ID          | Volume Added |                                       |               |
| .SURR_STK_00495    | 05/31/26 |           | Restek, Lot A0172587     |                      | (Purchased Reagent) |              | 4-Bromofluorobenzene (Surr)           | 62.5 ug/mL    |
|                    |          |           |                          |                      |                     |              | Dibromofluoromethane (Surr)           | 62.5 ug/mL    |
|                    |          |           |                          |                      |                     |              | Toluene-d8 (Surr)                     | 62.5 ug/mL    |
|                    |          |           |                          |                      |                     |              | 1,2-Dichloroethane-d4 (Surr)          | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | 4-Bromofluorobenzene (Surr)           | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Dibromofluoromethane (Surr)           | 2500 ug/mL    |
| S_8260_IS_00357    | 08/13/22 | 06/13/22  | P&T Methanol, Lot 230446 | 20 mL                | IS_STK_01562        | 1 mL         | 1,4-Dichlorobenzene-d4                | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | Chlorobenzene-d5                      | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | Fluorobenzene (IS)                    | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | 1,4-Dichlorobenzene-d4                | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Chlorobenzene-d5                      | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Fluorobenzene (IS)                    | 2500 ug/mL    |
| .IS_STK_01562      | 01/31/27 |           | Restek, Lot A0180349     |                      | (Purchased Reagent) |              | 1,4-Dichlorobenzene-d4                | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Chlorobenzene-d5                      | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Fluorobenzene (IS)                    | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | 1,4-Dichlorobenzene-d4                | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | Chlorobenzene-d5                      | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | Fluorobenzene (IS)                    | 125 ug/mL     |
| S_8260_IS_00358    | 10/09/22 | 08/09/22  | P&T Methanol, Lot 230446 | 20 mL                | IS_STK_01566        | 1 mL         | 1,4-Dichlorobenzene-d4                | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | Chlorobenzene-d5                      | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | Fluorobenzene (IS)                    | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | 1,4-Dichlorobenzene-d4                | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Chlorobenzene-d5                      | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Fluorobenzene (IS)                    | 2500 ug/mL    |
| .IS_STK_01566      | 01/31/27 |           | Restek, Lot A0180349     |                      | (Purchased Reagent) |              | 1,4-Dichlorobenzene-d4                | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Chlorobenzene-d5                      | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Fluorobenzene (IS)                    | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | 1,4-Dichlorobenzene-d4                | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | Chlorobenzene-d5                      | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | Fluorobenzene (IS)                    | 125 ug/mL     |
| S_8260_Surr_00426  | 08/10/22 | 06/10/22  | P&T Methanol, Lot 288059 | 20 mL                | SURR_STK_00494      | 1 mL         | 1,2-Dichloroethane-d4 (Surr)          | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | 4-Bromofluorobenzene (Surr)           | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | Dibromofluoromethane (Surr)           | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | Toluene-d8 (Surr)                     | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | 1,2-Dichloroethane-d4 (Surr)          | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | 4-Bromofluorobenzene (Surr)           | 2500 ug/mL    |
| .SURR_STK_00494    | 05/31/26 |           | Restek, Lot A0172587     |                      | (Purchased Reagent) |              | Dibromofluoromethane (Surr)           | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Toluene-d8 (Surr)                     | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | 1,2-Dichloroethane-d4 (Surr)          | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | 4-Bromofluorobenzene (Surr)           | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Dibromofluoromethane (Surr)           | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Toluene-d8 (Surr)                     | 2500 ug/mL    |
| S_8260_Surr_00427  | 08/21/22 | 06/21/22  | P&T Methanol, Lot 288059 | 20 mL                | SURR_STK_00495      | 1 mL         | 1,2-Dichloroethane-d4 (Surr)          | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | 4-Bromofluorobenzene (Surr)           | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | Dibromofluoromethane (Surr)           | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | Toluene-d8 (Surr)                     | 125 ug/mL     |
|                    |          |           |                          |                      |                     |              | 1,2-Dichloroethane-d4 (Surr)          | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | 4-Bromofluorobenzene (Surr)           | 2500 ug/mL    |
| .SURR_STK_00495    | 05/31/26 |           | Restek, Lot A0172587     |                      | (Purchased Reagent) |              | Dibromofluoromethane (Surr)           | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Toluene-d8 (Surr)                     | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | 1,2-Dichloroethane-d4 (Surr)          | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | 4-Bromofluorobenzene (Surr)           | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Dibromofluoromethane (Surr)           | 2500 ug/mL    |
|                    |          |           |                          |                      |                     |              | Toluene-d8 (Surr)                     | 2500 ug/mL    |
| SS 8260 CORP_00101 | 08/06/22 | 06/06/22  | Methanol, Lot 288059     | 20 mL                | SS_Ketones_00085    | 800 uL       | 2-Butanone (MEK)                      | 500 mg/L      |
|                    |          |           |                          |                      |                     |              | 2-Hexanone                            | 500 mg/L      |
|                    |          |           |                          |                      |                     |              | 4-Methyl-2-pentanone (MIBK)           | 500 mg/L      |
|                    |          |           |                          |                      |                     |              | Acetone                               | 500 mg/L      |
|                    |          |           |                          |                      | SS_MegaMix_00112    | 800 uL       | 1,1,1-Trichloroethane                 | 100 mg/L      |
|                    |          |           |                          |                      |                     |              | 1,1,2,2-Tetrachloroethane             | 100 mg/L      |
|                    |          |           |                          |                      |                     |              | 1,1,2-Trichloro-1,2,2-trifluoroethane | 100 mg/L      |
|                    |          |           |                          |                      |                     |              |                                       |               |
|                    |          |           |                          |                      |                     |              |                                       |               |
|                    |          |           |                          |                      |                     |              |                                       |               |
|                    |          |           |                          |                      |                     |              |                                       |               |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID        | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                               | Concentration |
|-------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|---------------------------------------|---------------|
|                   |          |           |                      |                      | Reagent ID          | Volume Added |                                       |               |
|                   |          |           |                      |                      |                     |              | 1,1,2-Trichloroethane                 | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,1-Dichloroethane                    | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,1-Dichloroethene                    | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,2,3-Trichlorobenzene                | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,2,4-Trichlorobenzene                | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,2-Dibromo-3-Chloropropane           | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,2-Dibromoethane                     | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,2-Dichlorobenzene                   | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,2-Dichloroethane                    | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,2-Dichloropropane                   | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,3-Dichlorobenzene                   | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,4-Dichlorobenzene                   | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Benzene                               | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Bromodichloromethane                  | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Bromoform                             | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Carbon disulfide                      | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Carbon tetrachloride                  | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Chlorobenzene                         | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Chlorobromomethane                    | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Chloroform                            | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | cis-1,2-Dichloroethene                | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | cis-1,3-Dichloropropene               | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Cyclohexane                           | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Dibromochloromethane                  | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Ethylbenzene                          | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Isopropylbenzene                      | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Methyl acetate                        | 200 mg/L      |
|                   |          |           |                      |                      |                     |              | Methyl tert-butyl ether               | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Methylcyclohexane                     | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Methylene Chloride                    | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Styrene                               | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Tetrachloroethene                     | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Toluene                               | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | trans-1,2-Dichloroethene              | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | trans-1,3-Dichloropropene             | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Trichloroethene                       | 100 mg/L      |
| .SS_Ketones_00085 | 08/31/23 |           | Restek, Lot A0163783 |                      | (Purchased Reagent) |              | 2-Butanone (MEK)                      | 12500 ug/mL   |
|                   |          |           |                      |                      |                     |              | 2-Hexanone                            | 12500 ug/mL   |
|                   |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone (MIBK)           | 12500 ug/mL   |
|                   |          |           |                      |                      |                     |              | Acetone                               | 12500 ug/mL   |
| .SS_MegaMix_00112 | 06/30/23 |           | Restek, Lot A0167172 |                      | (Purchased Reagent) |              | 1,1,1-Trichloroethane                 | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,1,2,2-Tetrachloroethane             | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,1,2-Trichloroethane                 | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,1-Dichloroethane                    | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,1-Dichloroethene                    | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,2,3-Trichlorobenzene                | 2500 ug/mL    |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID         | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent   |              | Analyte                               | Concentration |
|--------------------|----------|-----------|----------------------|----------------------|------------------|--------------|---------------------------------------|---------------|
|                    |          |           |                      |                      | Reagent ID       | Volume Added |                                       |               |
|                    |          |           |                      |                      |                  |              | 1,2,4-Trichlorobenzene                | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | 1,2-Dibromo-3-Chloropropane           | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | 1,2-Dibromoethane                     | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | 1,2-Dichlorobenzene                   | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | 1,2-Dichloroethane                    | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | 1,2-Dichloropropane                   | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | 1,3-Dichlorobenzene                   | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | 1,4-Dichlorobenzene                   | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Benzene                               | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Bromodichloromethane                  | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Bromoform                             | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Carbon disulfide                      | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Carbon tetrachloride                  | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Chlorobenzene                         | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Chlorobromomethane                    | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Chloroform                            | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | cis-1,2-Dichloroethene                | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | cis-1,3-Dichloropropene               | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Cyclohexane                           | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Dibromochloromethane                  | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Ethylbenzene                          | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Isopropylbenzene                      | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Methyl acetate                        | 5000 ug/mL    |
|                    |          |           |                      |                      |                  |              | Methyl tert-butyl ether               | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Methylcyclohexane                     | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Methylene Chloride                    | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Styrene                               | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Tetrachloroethene                     | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Toluene                               | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | trans-1,2-Dichloroethene              | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | trans-1,3-Dichloropropene             | 2500 ug/mL    |
|                    |          |           |                      |                      |                  |              | Trichloroethene                       | 2500 ug/mL    |
| SS 8260 CORP_00102 | 09/30/22 | 08/09/22  | Methanol, Lot 288059 | 20 mL                | SS_Ketones_00086 | 800 uL       | 2-Butanone (MEK)                      | 500 mg/L      |
|                    |          |           |                      |                      |                  |              | 2-Hexanone                            | 500 mg/L      |
|                    |          |           |                      |                      |                  |              | 4-Methyl-2-pentanone (MIBK)           | 500 mg/L      |
|                    |          |           |                      |                      |                  |              | Acetone                               | 500 mg/L      |
|                    |          |           |                      |                      | SS_MegaMix_00113 | 800 uL       | 1,1,1-Trichloroethane                 | 100 mg/L      |
|                    |          |           |                      |                      |                  |              | 1,1,2,2-Tetrachloroethane             | 100 mg/L      |
|                    |          |           |                      |                      |                  |              | 1,1,2-Trichloro-1,2,2-trifluoroethane | 100 mg/L      |
|                    |          |           |                      |                      |                  |              | 1,1,2-Trichloroethane                 | 100 mg/L      |
|                    |          |           |                      |                      |                  |              | 1,1-Dichloroethane                    | 100 mg/L      |
|                    |          |           |                      |                      |                  |              | 1,1-Dichloroethene                    | 100 mg/L      |
|                    |          |           |                      |                      |                  |              | 1,2,3-Trichlorobenzene                | 100 mg/L      |
|                    |          |           |                      |                      |                  |              | 1,2,4-Trichlorobenzene                | 100 mg/L      |
|                    |          |           |                      |                      |                  |              | 1,2-Dibromo-3-Chloropropane           | 100 mg/L      |
|                    |          |           |                      |                      |                  |              | 1,2-Dibromoethane                     | 100 mg/L      |
|                    |          |           |                      |                      |                  |              | 1,2-Dichlorobenzene                   | 100 mg/L      |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID        | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                               | Concentration |
|-------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|---------------------------------------|---------------|
|                   |          |           |                      |                      | Reagent ID          | Volume Added |                                       |               |
|                   |          |           |                      |                      |                     |              | 1,2-Dichloroethane                    | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,2-Dichloropropane                   | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,3-Dichlorobenzene                   | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | 1,4-Dichlorobenzene                   | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Benzene                               | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Bromodichloromethane                  | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Bromoform                             | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Carbon disulfide                      | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Carbon tetrachloride                  | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Chlorobenzene                         | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Chlorobromomethane                    | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Chloroform                            | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | cis-1,2-Dichloroethene                | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | cis-1,3-Dichloropropene               | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Cyclohexane                           | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Dibromochloromethane                  | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Ethylbenzene                          | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Isopropylbenzene                      | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Methyl acetate                        | 200 mg/L      |
|                   |          |           |                      |                      |                     |              | Methyl tert-butyl ether               | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Methylcyclohexane                     | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Methylene Chloride                    | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Styrene                               | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Tetrachloroethene                     | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Toluene                               | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | trans-1,2-Dichloroethene              | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | trans-1,3-Dichloropropene             | 100 mg/L      |
|                   |          |           |                      |                      |                     |              | Trichloroethene                       | 100 mg/L      |
| .SS_Ketones_00086 | 11/30/24 |           | Restek, Lot A0178490 |                      | (Purchased Reagent) |              | 2-Butanone (MEK)                      | 12500 ug/mL   |
|                   |          |           |                      |                      |                     |              | 2-Hexanone                            | 12500 ug/mL   |
|                   |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone (MIBK)           | 12500 ug/mL   |
|                   |          |           |                      |                      |                     |              | Acetone                               | 12500 ug/mL   |
| .SS_MegaMix_00113 | 06/30/23 |           | Restek, Lot A0167172 |                      | (Purchased Reagent) |              | 1,1,1-Trichloroethane                 | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,1,2,2-Tetrachloroethane             | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,1,2-Trichloroethane                 | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,1-Dichloroethane                    | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,1-Dichloroethene                    | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,2,3-Trichlorobenzene                | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,2,4-Trichlorobenzene                | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,2-Dibromo-3-Chloropropane           | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,2-Dibromoethane                     | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,2-Dichlorobenzene                   | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,2-Dichloroethane                    | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,2-Dichloropropane                   | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,3-Dichlorobenzene                   | 2500 ug/mL    |
|                   |          |           |                      |                      |                     |              | 1,4-Dichlorobenzene                   | 2500 ug/mL    |



# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID           | Exp Date | Prep Date | Dilutant Used         | Reagent Final Volume | Parent Reagent      |              | Analyte                 | Concentration |
|----------------------|----------|-----------|-----------------------|----------------------|---------------------|--------------|-------------------------|---------------|
|                      |          |           |                       |                      | Reagent ID          | Volume Added |                         |               |
|                      |          |           |                       |                      |                     |              | Benzene                 | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Bromodichloromethane    | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Bromoform               | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Carbon disulfide        | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Carbon tetrachloride    | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Chlorobenzene           | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Chlorobromomethane      | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Chloroform              | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | cis-1,2-Dichloroethene  | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | cis-1,3-Dichloropropene | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Cyclohexane             | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Dibromochloromethane    | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Ethylbenzene            | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Isopropylbenzene        | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Methyl acetate          | 5000 ug/mL    |
|                      |          |           |                       |                      |                     |              | Methyl tert-butyl ether | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Methylcyclohexane       | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Methylene Chloride      | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Styrene                 | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Tetrachloroethene       | 2500 ug/mL    |
| SS GAS CORP_00461    | 07/12/22 | 07/05/22  | Methanol, Lot EA832US | 20 mL                | SS8260-624gas_00451 | 800 uL       | Bromomethane            | 100 ug/mL     |
|                      |          |           |                       |                      |                     |              | Chloroethane            | 100 ug/mL     |
|                      |          |           |                       |                      |                     |              | Chloromethane           | 100 ug/mL     |
|                      |          |           |                       |                      |                     |              | Dichlorodifluoromethane | 100 ug/mL     |
|                      |          |           |                       |                      |                     |              | Trichlorofluoromethane  | 100 ug/mL     |
|                      |          |           |                       |                      |                     |              | Vinyl chloride          | 100 ug/mL     |
| .SS8260-624gas_00451 | 02/28/25 |           | Restek, Lot A0182212  |                      | (Purchased Reagent) |              | Bromomethane            | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Chloroethane            | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Chloromethane           | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Dichlorodifluoromethane | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Trichlorofluoromethane  | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Vinyl chloride          | 2500 ug/mL    |
| SS GAS CORP_00469    | 08/16/22 | 08/09/22  | Methanol, Lot EA832US | 20 mL                | SS8260-624gas_00456 | 800 uL       | Bromomethane            | 100 ug/mL     |
|                      |          |           |                       |                      |                     |              | Chloroethane            | 100 ug/mL     |
|                      |          |           |                       |                      |                     |              | Chloromethane           | 100 ug/mL     |
|                      |          |           |                       |                      |                     |              | Dichlorodifluoromethane | 100 ug/mL     |
|                      |          |           |                       |                      |                     |              | Trichlorofluoromethane  | 100 ug/mL     |
|                      |          |           |                       |                      |                     |              | Vinyl chloride          | 100 ug/mL     |
| .SS8260-624gas_00456 | 02/28/25 |           | Restek, Lot A0182212  |                      | (Purchased Reagent) |              | Bromomethane            | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Chloroethane            | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Chloromethane           | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Dichlorodifluoromethane | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Trichlorofluoromethane  | 2500 ug/mL    |
|                      |          |           |                       |                      |                     |              | Trichlorofluoromethane  | 2500 ug/mL    |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte        | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                |               |
|            |          |           |               |                      |                |              | Vinyl chloride | 2500 ug/mL    |

Reagent

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**8260/624-Gas\_00457**



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



457 - 466

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 569722 **Lot No.:** A0184726

**Description :** 8260 List 1 / Std #3 Gases (2015)  
8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2025 **Storage:** 0°C or colder

**Shlp:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound                                                                           | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                          |
|---------------|------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------|
| 1             | Dichlorodifluoromethane (CFC-12)<br>CAS # 75-71-8 (Lot 00012554)<br>Purity 99%     | 2,500.0 µg/mL               | +/- 20.3317 µg/mL Gravimetric<br>+/- 140.8938 µg/mL Unstressed<br>+/- 144.1574 µg/mL Stressed |
| 2             | Chloromethane (methyl chloride)<br>CAS # 74-87-3 (Lot SHBK6571)<br>Purity 99%      | 2,500.5 µg/mL               | +/- 22.8144 µg/mL Gravimetric<br>+/- 141.3009 µg/mL Unstressed<br>+/- 144.5566 µg/mL Stressed |
| 3             | Vinyl chloride<br>CAS # 75-01-4 (Lot 00015559)<br>Purity 99%                       | 2,500.7 µg/mL               | +/- 23.2251 µg/mL Gravimetric<br>+/- 141.3788 µg/mL Unstressed<br>+/- 144.6333 µg/mL Stressed |
| 4             | 1,3-Butadiene<br>CAS # 106-99-0 (Lot 00019375)<br>Purity 99%                       | 2,500.4 µg/mL               | +/- 17.6053 µg/mL Gravimetric<br>+/- 140.5467 µg/mL Unstressed<br>+/- 143.8191 µg/mL Stressed |
| 5             | Bromomethane (methyl bromide)<br>CAS # 74-83-9 (Lot 101604)<br>Purity 99%          | 2,500.2 µg/mL               | +/- 24.0992 µg/mL Gravimetric<br>+/- 141.4970 µg/mL Unstressed<br>+/- 144.7475 µg/mL Stressed |
| 6             | Chloroethane (ethyl chloride)<br>CAS # 75-00-3 (Lot 107-401039114-1)<br>Purity 99% | 2,500.1 µg/mL               | +/- 23.0388 µg/mL Gravimetric<br>+/- 141.3109 µg/mL Unstressed<br>+/- 144.5651 µg/mL Stressed |
| 7             | Dichlorofluoromethane (CFC-21)<br>CAS # 75-43-4 (Lot 12841600)<br>Purity 99%       | 2,500.0 µg/mL               | +/- 14.5352 µg/mL Gravimetric<br>+/- 140.1725 µg/mL Unstressed<br>+/- 143.4524 µg/mL Stressed |

|   |                                 |               |     |          |       |             |
|---|---------------------------------|---------------|-----|----------|-------|-------------|
| 8 | Trichlorofluoromethane (CFC-11) | 2,500.7 µg/mL | +/- | 25.4684  | µg/mL | Gravimetric |
|   | CAS # 75-69-4 (Lot MKCL8411)    |               | +/- | 141.7630 | µg/mL | Unstressed  |
|   | Purity 99%                      |               | +/- | 145.0087 | µg/mL | Stressed    |

Solvent: P&T Methanol  
CAS # 67-56-1  
Purity 99%

2500.7 - 121

#### Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

**Column:**  
60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

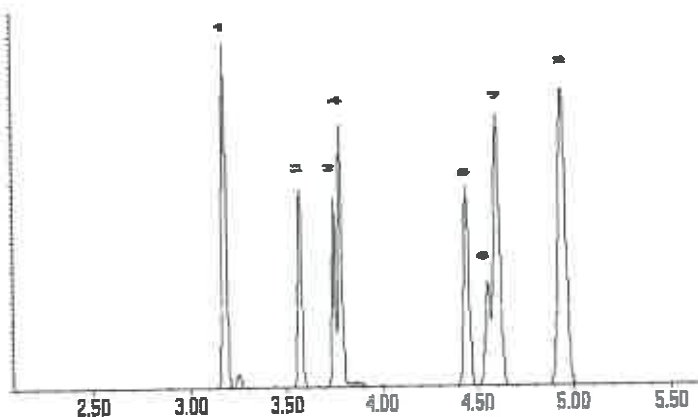
**Carrier Gas:**  
helium-constant pressure 30 psi

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Cathleen Scott*  
Cathleen Scott - Mkt Technician

Date Mixed: 01-May-2022 Balance: B251644995

*Christie Mills*  
Christie Mills - Operations Technician II

Date Passed: 12-May-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80387

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \cdot \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions                                          | Standard Conditions | Non-Standard Conditions |
|-----------------------------------------------------------|---------------------|-------------------------|
| 25°C Nominal (Room Temperature)                           | < 60°C              | ≥ 60°C up to 7 days     |
| 10°C or colder (Refrigerate)                              | < 40°C              | ≥ 40°C up to 7 days     |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C              | ≥ 25°C up to 7 days     |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



Reagent

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**MegaMix\_00192**





110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

Mega Mix 192-201



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 571992 Lot No.: A0159680  
Description : 8260 List 1 / Std #1 MegaMix (2017)  
8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul  
Container Size : 2 mL Pkg Amt: > 1 mL  
Expiration Date : October 31, 2022 Storage: 0°C or colder

### CERTIFIED VALUES

| Elution Order | Compound                                                                               | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) |       |             |  |
|---------------|----------------------------------------------------------------------------------------|-----------------------------|--------------------------------------|-------|-------------|--|
| 1             | Diethyl ether (ethyl ether)<br>CAS # 60-29-7 (Lot SHBK7710)<br>Purity 99%              | 2,518.8 µg/mL               | +/- 14.6442                          | µg/mL | Gravimetric |  |
|               |                                                                                        |                             | +/- 151.9673                         | µg/mL | Unstressed  |  |
|               |                                                                                        |                             | +/- 152.3281                         | µg/mL | Stressed    |  |
| 2             | 1,1,2-Trichlorotrifluoroethane (CFC-113)<br>CAS # 76-13-1 (Lot 00016133)<br>Purity 99% | 2,523.8 µg/mL               | +/- 14.6733                          | µg/mL | Gravimetric |  |
|               |                                                                                        |                             | +/- 152.2690                         | µg/mL | Unstressed  |  |
|               |                                                                                        |                             | +/- 152.6305                         | µg/mL | Stressed    |  |
| 3             | 1,1-dichloroethene<br>CAS # 75-35-4 (Lot SHBK2437)<br>Purity 99%                       | 2,517.5 µg/mL               | +/- 14.6370                          | µg/mL | Gravimetric |  |
|               |                                                                                        |                             | +/- 151.8919                         | µg/mL | Unstressed  |  |
|               |                                                                                        |                             | +/- 152.2525                         | µg/mL | Stressed    |  |
| 4             | tert-Butanol (TBA)<br>CAS # 75-65-0 (Lot SHBL0592)<br>Purity 99%                       | 25,122.1 µg/mL              | +/- 146.0546                         | µg/mL | Gravimetric |  |
|               |                                                                                        |                             | +/- 1,515.7284                       | µg/mL | Unstressed  |  |
|               |                                                                                        |                             | +/- 1,519.3270                       | µg/mL | Stressed    |  |
| 5             | Methyl acetate<br>CAS # 79-20-9 (Lot SHBK5436)<br>Purity 99%                           | 5,041.4 µg/mL               | +/- 29.3110                          | µg/mL | Gravimetric |  |
|               |                                                                                        |                             | +/- 304.1685                         | µg/mL | Unstressed  |  |
|               |                                                                                        |                             | +/- 304.8906                         | µg/mL | Stressed    |  |
| 6             | Iodomethane (methyl iodide)<br>CAS # 74-88-4 (Lot D4406-0122JM)<br>Purity 99%          | 2,520.5 µg/mL               | +/- 14.6544                          | µg/mL | Gravimetric |  |
|               |                                                                                        |                             | +/- 152.0729                         | µg/mL | Unstressed  |  |
|               |                                                                                        |                             | +/- 152.4340                         | µg/mL | Stressed    |  |
| 7             | Allyl chloride (3-chloropropene)<br>CAS # 107-05-1 (Lot 191118KJ)<br>Purity 99%        | 2,521.0 µg/mL               | +/- 14.6573                          | µg/mL | Gravimetric |  |
|               |                                                                                        |                             | +/- 152.1031                         | µg/mL | Unstressed  |  |
|               |                                                                                        |                             | +/- 152.4642                         | µg/mL | Stressed    |  |

Reagent

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**MV\_BFB\_STK\_00079**

MV-BFB STK 79-94

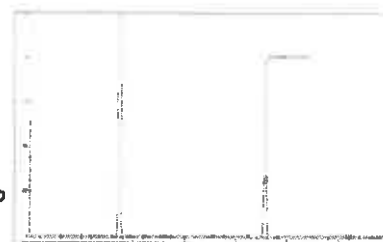
Supelco

www.sigmaaldrich.com

# Certificate of Analysis - Certified Reference Material

## 4-Bromofluorobenzene solution

**Product no.:** 48800  
**Lot no.:** LRAD0322  
**Expiry Date:** September 2024  
**Manufacturing Date:** September 2021  
**Storage:** ROOM TEMPERATURE  
**Solvent/Matrix:** METHANOL  
**Certificate version:** LRAD0322.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)



### Certified Values:

| Analyte                               | Certified Value | Units | Raw Material Purity, % | Raw Material Lot |
|---------------------------------------|-----------------|-------|------------------------|------------------|
| 4-BROMOFLUOROBENZENE<br>CAS# 460-00-4 | 25.0 ± 0.5      | mg/mL | 99.9                   | LB48377          |

### ASSAY Method

#### METHOD: GC (BELLEFONTE )

Column: SPB-5, 30 m × 0.53 mm I.D., 5 µm film thckn

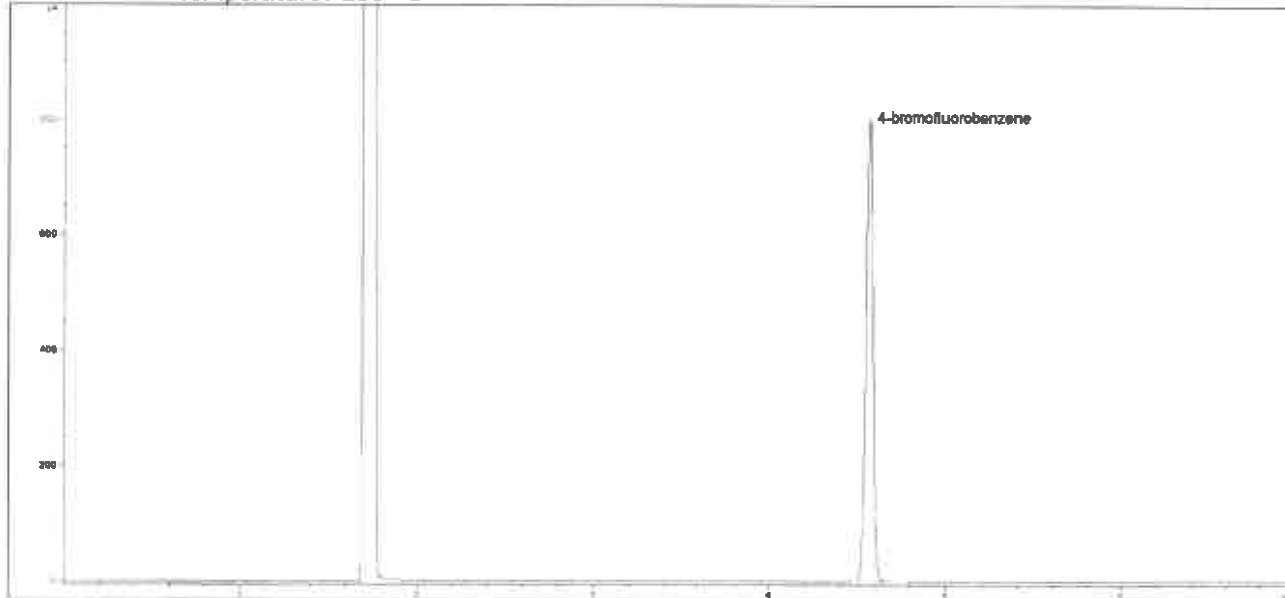
Carrier Gas: H<sub>2</sub> Flow Rate: 3.8 mL/min

Inlet Temperature: 160 °C Injection Volume: 1 µL

Injection Mode: 100:1

Temperature Program: 120 °C (Hold 1 min) @ 20 °C/min to 180 °C (Hold 3 min)

Detector: FID Temperature: 280 °C



Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;  
Tel. 1 307-742-5452; Fax 1 855-831-9211; [www.sigmaaldrich.com](http://www.sigmaaldrich.com)  
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Certificate Page 1 of 3

Certificate version 01



**Elution details:**

| EO | RT(MIN) | ANALYTE              |
|----|---------|----------------------|
| 1  | 4.574   | 4-bromofluorobenzene |

**Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Minimum sample size:** 1 µL

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.

**Health and safety information:** All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

**Accreditation:** Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

**Certificate issue date:** 17-Sep-2021



Andy Ommen - QC Manager

Scott Stetler - QA Manager

**Details on metrological traceability:**

This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

**Associated uncertainty:**

U<sub>CRM</sub> - Uncertainty values in this document are expressed as Expanded Uncertainty (U<sub>CRM</sub>) corresponding to the 95% confidence interval. U<sub>CRM</sub> is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the U<sub>CRM</sub> calculation is as follows:

$$U_{CRM} = \sqrt{U_{char}^2 + U_{homogeneity}^2 + U_{stability}^2}$$

**Homogeneity assessment:**

Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

**Stability assessment:**

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

**Certificate of analysis revision history:**

| Certificate version | Date        | Reason for version    |
|---------------------|-------------|-----------------------|
| LRAD0322.01         | 17-Sep-2021 | Original Release Date |

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.



Reagent

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**SS8260-624gas\_00451**



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# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No.: 569722.SEC Lot No.: A0182212  
Description: 8260 List 1 / Std #3 Gases (2015)  
8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul  
Container Size: 2 mL Pkg Amt: > 1 mL  
Expiration Date: February 28, 2025 Storage: 0°C or colder  
Ship: Ambient

451-455

### CERTIFIED VALUES

CERTIFIED VALUES

| Elution Order | Compound                                                                             | Grav. Conc.<br>(weight/volume) | Expanded Uncertainty<br>(95% C.L.; K=2)     |                         |                                       |
|---------------|--------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------|-------------------------|---------------------------------------|
| 1             | Dichlorodifluoromethane (CFC-12)<br>CAS # 75-71-8.SEC (Lot 27545)<br>Purity 99%      | 2,499.8 µg/mL                  | +/- 23.5114<br>+/- 141.3717<br>+/- 144.6237 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2             | Chloromethane (methyl chloride)<br>CAS # 74-87-3.SEC (Lot 18343)<br>Purity 99%       | 2,500.0 µg/mL                  | +/- 23.7799<br>+/- 141.4309<br>+/- 144.6823 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3             | Vinyl chloride<br>CAS # 75-01-4.SEC (Lot MKBK6872V)<br>Purity 99%                    | 2,505.4 µg/mL                  | +/- 23.7413<br>+/- 141.7224<br>+/- 144.9811 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 4             | 1,3-Butadiene<br>CAS # 106-99-0.SEC (Lot 26996)<br>Purity 99%                        | 2,503.7 µg/mL                  | +/- 21.0317<br>+/- 141.1961<br>+/- 144.4622 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 5             | Bromomethane (methyl bromide)<br>CAS # 74-83-9.SEC (Lot 00017022)<br>Purity 99%      | 2,501.7 µg/mL                  | +/- 22.6458<br>+/- 141.3355<br>+/- 144.5932 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 6             | Chloroethane (ethyl chloride)<br>CAS # 75-00-3 * (Lot 107-401039114-1)<br>Purity 99% | 2,513.8 µg/mL                  | +/- 25.5638<br>+/- 142.5004<br>+/- 145.7633 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 7             | Dichlorofluoromethane (CFC-21)<br>CAS # 75-43-4 * (Lot 12841600)<br>Purity 99%       | 2,500.0 µg/mL                  | +/- 14.6714<br>+/- 140.1867<br>+/- 143.4662 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |



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# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No.: 569722.SEC Lot No.: A0182212  
Description: 8260 List 1 / Std #3 Gases (2015)  
8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul  
Container Size: 2 mL Pkg Amt: > 1 mL  
Expiration Date: February 28, 2025 Storage: 0°C or colder  
Ship: Ambient

451-485 (MA)  
ALD

### CERTIFIED VALUES

| Elution Order | Compound                                                                             | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) |       |             |  |
|---------------|--------------------------------------------------------------------------------------|-----------------------------|--------------------------------------|-------|-------------|--|
| 1             | Dichlorodifluoromethane (CFC-12)<br>CAS # 75-71-8.SEC (Lot 27545)<br>Purity 99%      | 2,499.8 µg/mL               | +/- 23.5114                          | µg/mL | Gravimetric |  |
|               |                                                                                      |                             | +/- 141.3717                         | µg/mL | Unstressed  |  |
|               |                                                                                      |                             | +/- 144.6237                         | µg/mL | Stressed    |  |
| 2             | Chloromethane (methyl chloride)<br>CAS # 74-87-3.SEC (Lot 18343)<br>Purity 99%       | 2,500.0 µg/mL               | +/- 23.7799                          | µg/mL | Gravimetric |  |
|               |                                                                                      |                             | +/- 141.4309                         | µg/mL | Unstressed  |  |
|               |                                                                                      |                             | +/- 144.6823                         | µg/mL | Stressed    |  |
| 3             | Vinyl chloride<br>CAS # 75-01-4.SEC (Lot MKBK6872V)<br>Purity 99%                    | 2,505.4 µg/mL               | +/- 23.7413                          | µg/mL | Gravimetric |  |
|               |                                                                                      |                             | +/- 141.7224                         | µg/mL | Unstressed  |  |
|               |                                                                                      |                             | +/- 144.9811                         | µg/mL | Stressed    |  |
| 4             | 1,3-Butadiene<br>CAS # 106-99-0.SEC (Lot 26996)<br>Purity 99%                        | 2,503.7 µg/mL               | +/- 21.0317                          | µg/mL | Gravimetric |  |
|               |                                                                                      |                             | +/- 141.1961                         | µg/mL | Unstressed  |  |
|               |                                                                                      |                             | +/- 144.4622                         | µg/mL | Stressed    |  |
| 5             | Bromomethane (methyl bromide)<br>CAS # 74-83-9.SEC (Lot 00017022)<br>Purity 99%      | 2,501.7 µg/mL               | +/- 22.6458                          | µg/mL | Gravimetric |  |
|               |                                                                                      |                             | +/- 141.3355                         | µg/mL | Unstressed  |  |
|               |                                                                                      |                             | +/- 144.5932                         | µg/mL | Stressed    |  |
| 6             | Chloroethane (ethyl chloride)<br>CAS # 75-00-3 * (Lot 107-401039114-1)<br>Purity 99% | 2,513.8 µg/mL               | +/- 25.5638                          | µg/mL | Gravimetric |  |
|               |                                                                                      |                             | +/- 142.5004                         | µg/mL | Unstressed  |  |
|               |                                                                                      |                             | +/- 145.7633                         | µg/mL | Stressed    |  |
| 7             | Dichlorofluoromethane (CFC-21)<br>CAS # 75-43-4 * (Lot 12841600)<br>Purity 99%       | 2,500.0 µg/mL               | +/- 14.6714                          | µg/mL | Gravimetric |  |
|               |                                                                                      |                             | +/- 140.1867                         | µg/mL | Unstressed  |  |
|               |                                                                                      |                             | +/- 143.4662                         | µg/mL | Stressed    |  |



Reagent

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**SURR\_STK\_00495**



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**CERTIFIED REFERENCE MATERIAL**

# Certificate of Analysis



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 567650 **Lot No.:** A0172587  
**Description :** 8260 Surrogate Standard  
8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** May 31, 2026 **Storage:** 0°C or colder  
**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound                      |                | Grav. Conc.<br>(weight/volume) | Expanded Uncertainty<br>(95% C.L.; K=2) |          |       |             |
|---------------|-------------------------------|----------------|--------------------------------|-----------------------------------------|----------|-------|-------------|
| 1             | Dibromofluoromethane          | (Lot 012021)   | 2,510.9 µg/mL                  | +/-                                     | 14.5983  | µg/mL | Gravimetric |
|               | CAS # 1868-53-7               |                |                                | +/-                                     | 140.7809 | µg/mL | Unstressed  |
|               | Purity 99%                    |                |                                | +/-                                     | 144.0750 | µg/mL | Stressed    |
| 2             | 1,2-Dichloroethane-d4         | (Lot PR-29377) | 2,518.0 µg/mL                  | +/-                                     | 14.6399  | µg/mL | Gravimetric |
|               | CAS # 17060-07-0              |                |                                | +/-                                     | 141.1818 | µg/mL | Unstressed  |
|               | Purity 99%                    |                |                                | +/-                                     | 144.4852 | µg/mL | Stressed    |
| 3             | Toluene-d8                    | (Lot PR-31750) | 2,500.4 µg/mL                  | +/-                                     | 14.5375  | µg/mL | Gravimetric |
|               | CAS # 2037-26-5               |                |                                | +/-                                     | 140.1949 | µg/mL | Unstressed  |
|               | Purity 99%                    |                |                                | +/-                                     | 143.4753 | µg/mL | Stressed    |
| 4             | 1-Bromo-4-fluorobenzene (BFB) | (Lot 20401KO)  | 2,520.9 µg/mL                  | +/-                                     | 14.6567  | µg/mL | Gravimetric |
|               | CAS # 460-00-4                |                |                                | +/-                                     | 141.3444 | µg/mL | Unstressed  |
|               | Purity 99%                    |                |                                | +/-                                     | 144.6516 | µg/mL | Stressed    |
| Solvent:      | P&T Methanol                  |                |                                |                                         |          |       |             |
|               | CAS # 67-56-1                 |                |                                |                                         |          |       |             |
|               | Purity 99%                    |                |                                |                                         |          |       |             |

# Method 8260C

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Volatile Organic Compounds (GC/MS)  
by Method 8260C

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low  
 GC Column (1): ZB-624 (20) ID: 0.18 (mm)

| Client Sample ID                  | Lab Sample ID        | DBFM # | DCA # | TOL # | BFB # |
|-----------------------------------|----------------------|--------|-------|-------|-------|
| WG-11230275-081022<br>-KM-001     | 480-200570-1         | 95     | 92    | 97    | 94    |
| WG-11230275-081022<br>-KM-002     | 480-200570-2         | 98     | 105   | 93    | 91    |
| WG-11230275-081022<br>-KM-003     | 480-200570-3         | 99     | 108   | 96    | 98    |
| WG-11230275-081022<br>-KM-003 DL  | 480-200570-3 DL      | 101    | 108   | 94    | 99    |
| TB-11230275-081022<br>-KM         | 480-200570-4         | 100    | 107   | 93    | 91    |
|                                   | MB 480-637566/8      | 89     | 89    | 96    | 101   |
|                                   | MB 480-637640/9      | 103    | 110   | 94    | 95    |
|                                   | MB 480-637762/9      | 103    | 110   | 94    | 100   |
|                                   | LCS 480-637566/6     | 94     | 94    | 96    | 100   |
|                                   | LCS 480-637640/6     | 103    | 107   | 94    | 97    |
|                                   | LCS 480-637762/6     | 101    | 104   | 92    | 96    |
|                                   | LCSD<br>480-637640/7 | 104    | 107   | 95    | 97    |
|                                   | LCSD<br>480-637762/7 | 104    | 108   | 93    | 100   |
| WG-11230275-081022<br>-KM-001 MS  | 480-200570-1 MS      | 98     | 98    | 102   | 100   |
| WG-11230275-081022<br>-KM-001 MSD | 480-200570-1 MSD     | 95     | 95    | 102   | 99    |

|                                    |                  |
|------------------------------------|------------------|
|                                    | <u>QC LIMITS</u> |
| DBFM = Dibromofluoromethane (Surr) | 75-123           |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 77-120           |
| TOL = Toluene-d8 (Surr)            | 80-120           |
| BFB = 4-Bromofluorobenzene (Surr)  | 73-120           |

# Column to be used to flag recovery values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: S4715.D  
 Lab ID: LCS 480-637566/6 Client ID: \_\_\_\_\_

| COMPOUND                                  | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-------------------------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1,1-Trichloroethane                     | 25.0                     | 20.7                           | 83              | 73-126              |   |
| 1,1,2,2-Tetrachloroethane                 | 25.0                     | 22.6                           | 90              | 76-120              |   |
| 1,1,2-Trichloroethane                     | 25.0                     | 21.8                           | 87              | 76-122              |   |
| 1,1,2-Trichloro-1,2,2-trifluor<br>oethane | 25.0                     | 20.7                           | 83              | 61-148              |   |
| 1,1-Dichloroethane                        | 25.0                     | 22.1                           | 88              | 77-120              |   |
| 1,1-Dichloroethene                        | 25.0                     | 22.0                           | 88              | 66-127              |   |
| 1,2,4-Trichlorobenzene                    | 25.0                     | 23.1                           | 93              | 79-122              |   |
| 1,2-Dibromo-3-Chloropropane               | 25.0                     | 23.5                           | 94              | 56-134              |   |
| 1,2-Dichlorobenzene                       | 25.0                     | 22.1                           | 89              | 80-124              |   |
| 1,2,3-Trichlorobenzene                    | 25.0                     | 22.7                           | 91              | 75-123              |   |
| 1,2-Dichloroethane                        | 25.0                     | 20.6                           | 82              | 75-120              |   |
| 1,2-Dichloropropane                       | 25.0                     | 22.3                           | 89              | 76-120              |   |
| 1,3-Dichlorobenzene                       | 25.0                     | 21.9                           | 88              | 77-120              |   |
| 1,4-Dichlorobenzene                       | 25.0                     | 21.4                           | 86              | 80-120              |   |
| 2-Butanone (MEK)                          | 125                      | 115                            | 92              | 57-140              |   |
| 2-Hexanone                                | 125                      | 114                            | 91              | 65-127              |   |
| 4-Methyl-2-pentanone (MIBK)               | 125                      | 110                            | 88              | 71-125              |   |
| Acetone                                   | 125                      | 124                            | 99              | 56-142              |   |
| Benzene                                   | 25.0                     | 21.6                           | 86              | 71-124              |   |
| Bromodichloromethane                      | 25.0                     | 22.7                           | 91              | 80-122              |   |
| Bromoform                                 | 25.0                     | 24.5                           | 98              | 61-132              |   |
| Bromomethane                              | 25.0                     | 22.8                           | 91              | 55-144              |   |
| Carbon disulfide                          | 25.0                     | 24.3                           | 97              | 59-134              |   |
| Carbon tetrachloride                      | 25.0                     | 20.9                           | 84              | 72-134              |   |
| Chlorobenzene                             | 25.0                     | 20.9                           | 84              | 80-120              |   |
| Dibromochloromethane                      | 25.0                     | 25.2                           | 101             | 75-125              |   |
| Chloroethane                              | 25.0                     | 24.0                           | 96              | 69-136              |   |
| Chloroform                                | 25.0                     | 20.6                           | 83              | 73-127              |   |
| Chloromethane                             | 25.0                     | 21.7                           | 87              | 68-124              |   |
| cis-1,2-Dichloroethene                    | 25.0                     | 22.3                           | 89              | 74-124              |   |
| cis-1,3-Dichloropropene                   | 25.0                     | 24.1                           | 96              | 74-124              |   |
| Cyclohexane                               | 25.0                     | 22.4                           | 89              | 59-135              |   |
| Dichlorodifluoromethane                   | 25.0                     | 19.1                           | 76              | 59-135              |   |
| Ethylbenzene                              | 25.0                     | 21.7                           | 87              | 77-123              |   |
| 1,2-Dibromoethane                         | 25.0                     | 22.7                           | 91              | 77-120              |   |
| Isopropylbenzene                          | 25.0                     | 23.3                           | 93              | 77-122              |   |
| Methyl acetate                            | 50.0                     | 42.9                           | 86              | 74-133              |   |
| Methyl tert-butyl ether                   | 25.0                     | 22.8                           | 91              | 77-120              |   |
| Methylcyclohexane                         | 25.0                     | 22.0                           | 88              | 68-134              |   |
| Methylene Chloride                        | 25.0                     | 23.6                           | 95              | 75-124              |   |
| Styrene                                   | 25.0                     | 23.2                           | 93              | 80-120              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low Lab File ID: S4715.D  
Lab ID: LCS 480-637566/6 Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Tetrachloroethene         | 25.0                     | 21.1                           | 85              | 74-122              |   |
| Toluene                   | 25.0                     | 21.8                           | 87              | 80-122              |   |
| trans-1,2-Dichloroethene  | 25.0                     | 22.0                           | 88              | 73-127              |   |
| trans-1,3-Dichloropropene | 25.0                     | 24.2                           | 97              | 80-120              |   |
| Trichloroethene           | 25.0                     | 21.3                           | 85              | 74-123              |   |
| Trichlorofluoromethane    | 25.0                     | 20.5                           | 82              | 62-150              |   |
| Vinyl chloride            | 25.0                     | 22.7                           | 91              | 65-133              |   |
| Chlorobromomethane        | 25.0                     | 20.6                           | 82              | 72-130              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: L19195.D  
 Lab ID: LCS 480-637640/6 Client ID: \_\_\_\_\_

| COMPOUND                                  | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | #  |
|-------------------------------------------|--------------------------|--------------------------------|-----------------|---------------------|----|
| 1,1,1-Trichloroethane                     | 25.0                     | 29.7                           | 119             | 73-126              |    |
| 1,1,2,2-Tetrachloroethane                 | 25.0                     | 24.8                           | 99              | 76-120              |    |
| 1,1,2-Trichloroethane                     | 25.0                     | 26.0                           | 104             | 76-122              |    |
| 1,1,2-Trichloro-1,2,2-trifluor<br>oethane | 25.0                     | 31.8                           | 127             | 61-148              |    |
| 1,1-Dichloroethane                        | 25.0                     | 31.0                           | 124             | 77-120              | *+ |
| 1,1-Dichloroethene                        | 25.0                     | 31.2                           | 125             | 66-127              |    |
| 1,2,4-Trichlorobenzene                    | 25.0                     | 21.5                           | 86              | 79-122              |    |
| 1,2-Dibromo-3-Chloropropane               | 25.0                     | 23.5                           | 94              | 56-134              |    |
| 1,2-Dichlorobenzene                       | 25.0                     | 23.9                           | 96              | 80-124              |    |
| 1,2,3-Trichlorobenzene                    | 25.0                     | 22.2                           | 89              | 75-123              |    |
| 1,2-Dichloroethane                        | 25.0                     | 28.7                           | 115             | 75-120              |    |
| 1,2-Dichloropropane                       | 25.0                     | 28.8                           | 115             | 76-120              |    |
| 1,3-Dichlorobenzene                       | 25.0                     | 24.8                           | 99              | 77-120              |    |
| 1,4-Dichlorobenzene                       | 25.0                     | 24.7                           | 99              | 80-120              |    |
| 2-Butanone (MEK)                          | 125                      | 242                            | 193             | 57-140              | *+ |
| 2-Hexanone                                | 125                      | 130                            | 104             | 65-127              |    |
| 4-Methyl-2-pentanone (MIBK)               | 125                      | 118                            | 94              | 71-125              |    |
| Acetone                                   | 125                      | 164                            | 131             | 56-142              |    |
| Benzene                                   | 25.0                     | 28.8                           | 115             | 71-124              |    |
| Bromodichloromethane                      | 25.0                     | 29.2                           | 117             | 80-122              |    |
| Bromoform                                 | 25.0                     | 24.1                           | 96              | 61-132              |    |
| Bromomethane                              | 25.0                     | 29.1                           | 116             | 55-144              |    |
| Carbon disulfide                          | 25.0                     | 29.5                           | 118             | 59-134              |    |
| Carbon tetrachloride                      | 25.0                     | 29.8                           | 119             | 72-134              |    |
| Chlorobenzene                             | 25.0                     | 25.6                           | 102             | 80-120              |    |
| Dibromochloromethane                      | 25.0                     | 25.8                           | 103             | 75-125              |    |
| Chloroethane                              | 25.0                     | 29.4                           | 118             | 69-136              |    |
| Chloroform                                | 25.0                     | 28.8                           | 115             | 73-127              |    |
| Chloromethane                             | 25.0                     | 26.8                           | 107             | 68-124              |    |
| cis-1,2-Dichloroethene                    | 25.0                     | 28.9                           | 115             | 74-124              |    |
| cis-1,3-Dichloropropene                   | 25.0                     | 30.2                           | 121             | 74-124              |    |
| Cyclohexane                               | 25.0                     | 28.7                           | 115             | 59-135              |    |
| Dichlorodifluoromethane                   | 25.0                     | 28.4                           | 114             | 59-135              |    |
| Ethylbenzene                              | 25.0                     | 26.0                           | 104             | 77-123              |    |
| 1,2-Dibromoethane                         | 25.0                     | 24.9                           | 100             | 77-120              |    |
| Isopropylbenzene                          | 25.0                     | 25.2                           | 101             | 77-122              |    |
| Methyl acetate                            | 50.0                     | 53.4                           | 107             | 74-133              |    |
| Methyl tert-butyl ether                   | 25.0                     | 27.0                           | 108             | 77-120              |    |
| Methylcyclohexane                         | 25.0                     | 31.2                           | 125             | 68-134              |    |
| Methylene Chloride                        | 25.0                     | 28.7                           | 115             | 75-124              |    |
| Styrene                                   | 25.0                     | 25.7                           | 103             | 80-120              |    |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low Lab File ID: L19195.D  
Lab ID: LCS 480-637640/6 Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Tetrachloroethene         | 25.0                     | 25.8                           | 103             | 74-122              |   |
| Toluene                   | 25.0                     | 25.4                           | 102             | 80-122              |   |
| trans-1,2-Dichloroethene  | 25.0                     | 30.2                           | 121             | 73-127              |   |
| trans-1,3-Dichloropropene | 25.0                     | 27.3                           | 109             | 80-120              |   |
| Trichloroethene           | 25.0                     | 28.7                           | 115             | 74-123              |   |
| Trichlorofluoromethane    | 25.0                     | 32.2                           | 129             | 62-150              |   |
| Vinyl chloride            | 25.0                     | 25.3                           | 101             | 65-133              |   |
| Chlorobromomethane        | 25.0                     | 28.3                           | 113             | 72-130              |   |

# Column to be used to flag recovery and RPD values



FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: L19228.D  
 Lab ID: LCS 480-637762/6 Client ID: \_\_\_\_\_

| COMPOUND                                  | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | #  |
|-------------------------------------------|--------------------------|--------------------------------|-----------------|---------------------|----|
| 1,1,1-Trichloroethane                     | 25.0                     | 28.9                           | 115             | 73-126              |    |
| 1,1,2,2-Tetrachloroethane                 | 25.0                     | 22.6                           | 90              | 76-120              |    |
| 1,1,2-Trichloroethane                     | 25.0                     | 24.5                           | 98              | 76-122              |    |
| 1,1,2-Trichloro-1,2,2-trifluor<br>oethane | 25.0                     | 32.6                           | 130             | 61-148              |    |
| 1,1-Dichloroethane                        | 25.0                     | 29.5                           | 118             | 77-120              |    |
| 1,1-Dichloroethene                        | 25.0                     | 29.7                           | 119             | 66-127              |    |
| 1,2,4-Trichlorobenzene                    | 25.0                     | 20.9                           | 84              | 79-122              |    |
| 1,2-Dibromo-3-Chloropropane               | 25.0                     | 21.8                           | 87              | 56-134              |    |
| 1,2-Dichlorobenzene                       | 25.0                     | 22.4                           | 90              | 80-124              |    |
| 1,2,3-Trichlorobenzene                    | 25.0                     | 21.2                           | 85              | 75-123              |    |
| 1,2-Dichloroethane                        | 25.0                     | 27.5                           | 110             | 75-120              |    |
| 1,2-Dichloropropane                       | 25.0                     | 27.2                           | 109             | 76-120              |    |
| 1,3-Dichlorobenzene                       | 25.0                     | 23.1                           | 92              | 77-120              |    |
| 1,4-Dichlorobenzene                       | 25.0                     | 22.6                           | 90              | 80-120              |    |
| 2-Butanone (MEK)                          | 125                      | 222                            | 178             | 57-140              | *+ |
| 2-Hexanone                                | 125                      | 121                            | 97              | 65-127              |    |
| 4-Methyl-2-pentanone (MIBK)               | 125                      | 112                            | 89              | 71-125              |    |
| Acetone                                   | 125                      | 168                            | 134             | 56-142              |    |
| Benzene                                   | 25.0                     | 27.5                           | 110             | 71-124              |    |
| Bromodichloromethane                      | 25.0                     | 28.0                           | 112             | 80-122              |    |
| Bromoform                                 | 25.0                     | 23.2                           | 93              | 61-132              |    |
| Bromomethane                              | 25.0                     | 29.3                           | 117             | 55-144              |    |
| Carbon disulfide                          | 25.0                     | 29.8                           | 119             | 59-134              |    |
| Carbon tetrachloride                      | 25.0                     | 29.3                           | 117             | 72-134              |    |
| Chlorobenzene                             | 25.0                     | 24.3                           | 97              | 80-120              |    |
| Dibromochloromethane                      | 25.0                     | 24.9                           | 100             | 75-125              |    |
| Chloroethane                              | 25.0                     | 30.0                           | 120             | 69-136              |    |
| Chloroform                                | 25.0                     | 27.6                           | 111             | 73-127              |    |
| Chloromethane                             | 25.0                     | 26.4                           | 106             | 68-124              |    |
| cis-1,2-Dichloroethene                    | 25.0                     | 27.6                           | 110             | 74-124              |    |
| cis-1,3-Dichloropropene                   | 25.0                     | 29.3                           | 117             | 74-124              |    |
| Cyclohexane                               | 25.0                     | 27.7                           | 111             | 59-135              |    |
| Dichlorodifluoromethane                   | 25.0                     | 26.9                           | 108             | 59-135              |    |
| Ethylbenzene                              | 25.0                     | 24.7                           | 99              | 77-123              |    |
| 1,2-Dibromoethane                         | 25.0                     | 23.7                           | 95              | 77-120              |    |
| Isopropylbenzene                          | 25.0                     | 23.0                           | 92              | 77-122              |    |
| Methyl acetate                            | 50.0                     | 49.9                           | 100             | 74-133              |    |
| Methyl tert-butyl ether                   | 25.0                     | 26.4                           | 105             | 77-120              |    |
| Methylcyclohexane                         | 25.0                     | 29.4                           | 118             | 68-134              |    |
| Methylene Chloride                        | 25.0                     | 28.1                           | 112             | 75-124              |    |
| Styrene                                   | 25.0                     | 24.5                           | 98              | 80-120              |    |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low Lab File ID: L19228.D  
Lab ID: LCS 480-637762/6 Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Tetrachloroethene         | 25.0                     | 24.5                           | 98              | 74-122              |   |
| Toluene                   | 25.0                     | 24.2                           | 97              | 80-122              |   |
| trans-1,2-Dichloroethene  | 25.0                     | 29.0                           | 116             | 73-127              |   |
| trans-1,3-Dichloropropene | 25.0                     | 26.1                           | 104             | 80-120              |   |
| Trichloroethene           | 25.0                     | 28.1                           | 112             | 74-123              |   |
| Trichlorofluoromethane    | 25.0                     | 31.1                           | 124             | 62-150              |   |
| Vinyl chloride            | 25.0                     | 25.7                           | 103             | 65-133              |   |
| Chlorobromomethane        | 25.0                     | 27.6                           | 110             | 72-130              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: L19196.D

Lab ID: LCSD 480-637640/7 Client ID: \_\_\_\_\_

| COMPOUND                                  | SPIKE<br>ADDED<br>(ug/L) | LCSD<br>CONCENTRATION<br>(ug/L) | LCSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | #  |
|-------------------------------------------|--------------------------|---------------------------------|------------------|----------|-----------|--------|----|
|                                           |                          |                                 |                  |          | RPD       | REC    |    |
| 1,1,1-Trichloroethane                     | 25.0                     | 28.6                            | 114              | 4        | 15        | 73-126 |    |
| 1,1,2,2-Tetrachloroethane                 | 25.0                     | 24.9                            | 99               | 0        | 15        | 76-120 |    |
| 1,1,2-Trichloroethane                     | 25.0                     | 25.2                            | 101              | 3        | 15        | 76-122 |    |
| 1,1,2-Trichloro-1,2,2-trifluor<br>oethane | 25.0                     | 31.2                            | 125              | 2        | 20        | 61-148 |    |
| 1,1-Dichloroethane                        | 25.0                     | 29.6                            | 118              | 4        | 20        | 77-120 |    |
| 1,1-Dichloroethene                        | 25.0                     | 29.5                            | 118              | 6        | 16        | 66-127 |    |
| 1,2,4-Trichlorobenzene                    | 25.0                     | 21.5                            | 86               | 0        | 20        | 79-122 |    |
| 1,2-Dibromo-3-Chloropropane               | 25.0                     | 23.5                            | 94               | 0        | 15        | 56-134 |    |
| 1,2-Dichlorobenzene                       | 25.0                     | 23.5                            | 94               | 2        | 20        | 80-124 |    |
| 1,2,3-Trichlorobenzene                    | 25.0                     | 22.4                            | 89               | 1        | 20        | 75-123 |    |
| 1,2-Dichloroethane                        | 25.0                     | 27.7                            | 111              | 3        | 20        | 75-120 |    |
| 1,2-Dichloropropane                       | 25.0                     | 27.6                            | 110              | 4        | 20        | 76-120 |    |
| 1,3-Dichlorobenzene                       | 25.0                     | 24.2                            | 97               | 2        | 20        | 77-120 |    |
| 1,4-Dichlorobenzene                       | 25.0                     | 24.0                            | 96               | 3        | 20        | 80-120 |    |
| 2-Butanone (MEK)                          | 125                      | 235                             | 188              | 3        | 20        | 57-140 | *+ |
| 2-Hexanone                                | 125                      | 127                             | 102              | 2        | 15        | 65-127 |    |
| 4-Methyl-2-pentanone (MIBK)               | 125                      | 116                             | 93               | 2        | 35        | 71-125 |    |
| Acetone                                   | 125                      | 164                             | 131              | 0        | 15        | 56-142 |    |
| Benzene                                   | 25.0                     | 27.3                            | 109              | 5        | 13        | 71-124 |    |
| Bromodichloromethane                      | 25.0                     | 28.2                            | 113              | 4        | 15        | 80-122 |    |
| Bromoform                                 | 25.0                     | 23.8                            | 95               | 1        | 15        | 61-132 |    |
| Bromomethane                              | 25.0                     | 27.3                            | 109              | 6        | 15        | 55-144 |    |
| Carbon disulfide                          | 25.0                     | 29.2                            | 117              | 1        | 15        | 59-134 |    |
| Carbon tetrachloride                      | 25.0                     | 29.2                            | 117              | 2        | 15        | 72-134 |    |
| Chlorobenzene                             | 25.0                     | 24.5                            | 98               | 4        | 25        | 80-120 |    |
| Dibromochloromethane                      | 25.0                     | 25.5                            | 102              | 1        | 15        | 75-125 |    |
| Chloroethane                              | 25.0                     | 27.3                            | 109              | 7        | 15        | 69-136 |    |
| Chloroform                                | 25.0                     | 27.3                            | 109              | 5        | 20        | 73-127 |    |
| Chloromethane                             | 25.0                     | 26.3                            | 105              | 2        | 15        | 68-124 |    |
| cis-1,2-Dichloroethene                    | 25.0                     | 27.7                            | 111              | 4        | 15        | 74-124 |    |
| cis-1,3-Dichloropropene                   | 25.0                     | 29.3                            | 117              | 3        | 15        | 74-124 |    |
| Cyclohexane                               | 25.0                     | 27.8                            | 111              | 3        | 20        | 59-135 |    |
| Dichlorodifluoromethane                   | 25.0                     | 27.0                            | 108              | 5        | 20        | 59-135 |    |
| Ethylbenzene                              | 25.0                     | 24.8                            | 99               | 5        | 15        | 77-123 |    |
| 1,2-Dibromoethane                         | 25.0                     | 24.7                            | 99               | 1        | 15        | 77-120 |    |
| Isopropylbenzene                          | 25.0                     | 24.5                            | 98               | 3        | 20        | 77-122 |    |
| Methyl acetate                            | 50.0                     | 51.8                            | 104              | 3        | 20        | 74-133 |    |
| Methyl tert-butyl ether                   | 25.0                     | 27.0                            | 108              | 0        | 37        | 77-120 |    |
| Methylcyclohexane                         | 25.0                     | 29.2                            | 117              | 7        | 20        | 68-134 |    |
| Methylene Chloride                        | 25.0                     | 27.9                            | 111              | 3        | 15        | 75-124 |    |
| Styrene                                   | 25.0                     | 24.7                            | 99               | 4        | 20        | 80-120 |    |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: L19196.D  
 Lab ID: LCSD 480-637640/7 Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/L) | LCSD<br>CONCENTRATION<br>(ug/L) | LCSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | # |
|---------------------------|--------------------------|---------------------------------|------------------|----------|-----------|--------|---|
|                           |                          |                                 |                  |          | RPD       | REC    |   |
| Tetrachloroethene         | 25.0                     | 24.6                            | 98               | 5        | 20        | 74-122 |   |
| Toluene                   | 25.0                     | 24.3                            | 97               | 5        | 15        | 80-122 |   |
| trans-1,2-Dichloroethene  | 25.0                     | 28.3                            | 113              | 7        | 20        | 73-127 |   |
| trans-1,3-Dichloropropene | 25.0                     | 26.8                            | 107              | 2        | 15        | 80-120 |   |
| Trichloroethene           | 25.0                     | 27.6                            | 111              | 4        | 16        | 74-123 |   |
| Trichlorofluoromethane    | 25.0                     | 29.8                            | 119              | 8        | 20        | 62-150 |   |
| Vinyl chloride            | 25.0                     | 24.8                            | 99               | 2        | 15        | 65-133 |   |
| Chlorobromomethane        | 25.0                     | 27.9                            | 112              | 1        | 15        | 72-130 |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: L19229.D

Lab ID: LCSD 480-637762/7 Client ID: \_\_\_\_\_

| COMPOUND                                  | SPIKE<br>ADDED<br>(ug/L) | LCSD<br>CONCENTRATION<br>(ug/L) | LCSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | #  |
|-------------------------------------------|--------------------------|---------------------------------|------------------|----------|-----------|--------|----|
|                                           |                          |                                 |                  |          | RPD       | REC    |    |
| 1,1,1-Trichloroethane                     | 25.0                     | 27.1                            | 109              | 6        | 15        | 73-126 |    |
| 1,1,2,2-Tetrachloroethane                 | 25.0                     | 22.8                            | 91               | 1        | 15        | 76-120 |    |
| 1,1,2-Trichloroethane                     | 25.0                     | 23.9                            | 96               | 2        | 15        | 76-122 |    |
| 1,1,2-Trichloro-1,2,2-trifluor<br>oethane | 25.0                     | 27.4                            | 110              | 17       | 20        | 61-148 |    |
| 1,1-Dichloroethane                        | 25.0                     | 28.3                            | 113              | 4        | 20        | 77-120 |    |
| 1,1-Dichloroethene                        | 25.0                     | 27.8                            | 111              | 6        | 16        | 66-127 |    |
| 1,2,4-Trichlorobenzene                    | 25.0                     | 20.2                            | 81               | 4        | 20        | 79-122 |    |
| 1,2-Dibromo-3-Chloropropane               | 25.0                     | 21.8                            | 87               | 0        | 15        | 56-134 |    |
| 1,2-Dichlorobenzene                       | 25.0                     | 22.3                            | 89               | 1        | 20        | 80-124 |    |
| 1,2,3-Trichlorobenzene                    | 25.0                     | 20.9                            | 84               | 2        | 20        | 75-123 |    |
| 1,2-Dichloroethane                        | 25.0                     | 26.5                            | 106              | 4        | 20        | 75-120 |    |
| 1,2-Dichloropropane                       | 25.0                     | 26.5                            | 106              | 3        | 20        | 76-120 |    |
| 1,3-Dichlorobenzene                       | 25.0                     | 23.0                            | 92               | 0        | 20        | 77-120 |    |
| 1,4-Dichlorobenzene                       | 25.0                     | 22.6                            | 90               | 0        | 20        | 80-120 |    |
| 2-Butanone (MEK)                          | 125                      | 221                             | 176              | 1        | 20        | 57-140 | *+ |
| 2-Hexanone                                | 125                      | 117                             | 94               | 3        | 15        | 65-127 |    |
| 4-Methyl-2-pentanone (MIBK)               | 125                      | 108                             | 86               | 4        | 35        | 71-125 |    |
| Acetone                                   | 125                      | 152                             | 122              | 10       | 15        | 56-142 |    |
| Benzene                                   | 25.0                     | 25.9                            | 104              | 6        | 13        | 71-124 |    |
| Bromodichloromethane                      | 25.0                     | 27.5                            | 110              | 2        | 15        | 80-122 |    |
| Bromoform                                 | 25.0                     | 23.5                            | 94               | 1        | 15        | 61-132 |    |
| Bromomethane                              | 25.0                     | 25.6                            | 102              | 14       | 15        | 55-144 |    |
| Carbon disulfide                          | 25.0                     | 26.7                            | 107              | 11       | 15        | 59-134 |    |
| Carbon tetrachloride                      | 25.0                     | 27.2                            | 109              | 7        | 15        | 72-134 |    |
| Chlorobenzene                             | 25.0                     | 23.4                            | 93               | 4        | 25        | 80-120 |    |
| Dibromochloromethane                      | 25.0                     | 24.9                            | 99               | 0        | 15        | 75-125 |    |
| Chloroethane                              | 25.0                     | 25.2                            | 101              | 17       | 15        | 69-136 | *1 |
| Chloroform                                | 25.0                     | 26.1                            | 104              | 6        | 20        | 73-127 |    |
| Chloromethane                             | 25.0                     | 23.4                            | 94               | 12       | 15        | 68-124 |    |
| cis-1,2-Dichloroethene                    | 25.0                     | 26.6                            | 106              | 4        | 15        | 74-124 |    |
| cis-1,3-Dichloropropene                   | 25.0                     | 28.7                            | 115              | 2        | 15        | 74-124 |    |
| Cyclohexane                               | 25.0                     | 25.5                            | 102              | 8        | 20        | 59-135 |    |
| Dichlorodifluoromethane                   | 25.0                     | 24.1                            | 96               | 11       | 20        | 59-135 |    |
| Ethylbenzene                              | 25.0                     | 23.7                            | 95               | 4        | 15        | 77-123 |    |
| 1,2-Dibromoethane                         | 25.0                     | 23.5                            | 94               | 1        | 15        | 77-120 |    |
| Isopropylbenzene                          | 25.0                     | 22.9                            | 92               | 0        | 20        | 77-122 |    |
| Methyl acetate                            | 50.0                     | 47.7                            | 95               | 5        | 20        | 74-133 |    |
| Methyl tert-butyl ether                   | 25.0                     | 25.9                            | 103              | 2        | 37        | 77-120 |    |
| Methylcyclohexane                         | 25.0                     | 27.5                            | 110              | 7        | 20        | 68-134 |    |
| Methylene Chloride                        | 25.0                     | 26.4                            | 105              | 6        | 15        | 75-124 |    |
| Styrene                                   | 25.0                     | 23.6                            | 95               | 4        | 20        | 80-120 |    |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: L19229.D  
 Lab ID: LCSD 480-637762/7 Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/L) | LCSD<br>CONCENTRATION<br>(ug/L) | LCSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | # |
|---------------------------|--------------------------|---------------------------------|------------------|----------|-----------|--------|---|
|                           |                          |                                 |                  |          | RPD       | REC    |   |
| Tetrachloroethene         | 25.0                     | 23.4                            | 94               | 5        | 20        | 74-122 |   |
| Toluene                   | 25.0                     | 22.8                            | 91               | 6        | 15        | 80-122 |   |
| trans-1,2-Dichloroethene  | 25.0                     | 27.0                            | 108              | 7        | 20        | 73-127 |   |
| trans-1,3-Dichloropropene | 25.0                     | 25.5                            | 102              | 2        | 15        | 80-120 |   |
| Trichloroethene           | 25.0                     | 26.3                            | 105              | 7        | 16        | 74-123 |   |
| Trichlorofluoromethane    | 25.0                     | 27.6                            | 110              | 12       | 20        | 62-150 |   |
| Vinyl chloride            | 25.0                     | 22.2                            | 89               | 14       | 15        | 65-133 |   |
| Chlorobromomethane        | 25.0                     | 26.4                            | 106              | 4        | 15        | 72-130 |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo

Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Matrix: Water

Level: Low

Lab File ID: S4738.D

Lab ID: 480-200570-1 MS

Client ID: WG-11230275-081022-KM-001 MS

| COMPOUND                                  | SPIKE<br>ADDED<br>(ug/L) | SAMPLE<br>CONCENTRATION<br>(ug/L) | MS<br>CONCENTRATION<br>(ug/L) | MS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-------------------------------------------|--------------------------|-----------------------------------|-------------------------------|----------------|---------------------|---|
| 1,1,1-Trichloroethane                     | 1000                     | 33 U                              | 880                           | 88             | 73-126              |   |
| 1,1,2,2-Tetrachloroethane                 | 1000                     | 8.4 U                             | 882                           | 88             | 76-120              |   |
| 1,1,2-Trichloroethane                     | 1000                     | 9.2 U                             | 894                           | 89             | 76-122              |   |
| 1,1,2-Trichloro-1,2,2-trifluor<br>oethane | 1000                     | 12 U                              | 917                           | 92             | 61-148              |   |
| 1,1-Dichloroethane                        | 1000                     | 15 U                              | 902                           | 90             | 77-120              |   |
| 1,1-Dichloroethene                        | 1000                     | 12 U                              | 965                           | 96             | 66-127              |   |
| 1,2,4-Trichlorobenzene                    | 1000                     | 16 U                              | 955                           | 95             | 79-122              |   |
| 1,2-Dibromo-3-Chloropropane               | 1000                     | 16 U                              | 897                           | 90             | 56-134              |   |
| 1,2-Dichlorobenzene                       | 1000                     | 32 U                              | 899                           | 90             | 80-124              |   |
| 1,2,3-Trichlorobenzene                    | 1000                     | 16 U                              | 918                           | 92             | 75-123              |   |
| 1,2-Dichloroethane                        | 1000                     | 8.4 U                             | 812                           | 81             | 75-120              |   |
| 1,2-Dichloropropane                       | 1000                     | 29 U                              | 910                           | 91             | 76-120              |   |
| 1,3-Dichlorobenzene                       | 1000                     | 31 U                              | 892                           | 89             | 77-120              |   |
| 1,4-Dichlorobenzene                       | 1000                     | 34 U                              | 858                           | 86             | 78-124              |   |
| 2-Butanone (MEK)                          | 5000                     | 53 U                              | 4430                          | 89             | 57-140              |   |
| 2-Hexanone                                | 5000                     | 50 U                              | 4470                          | 89             | 65-127              |   |
| 4-Methyl-2-pentanone (MIBK)               | 5000                     | 84 U                              | 4380                          | 88             | 71-125              |   |
| Acetone                                   | 5000                     | 120 U                             | 4350                          | 87             | 56-142              |   |
| Benzene                                   | 1000                     | 16 U                              | 908                           | 91             | 71-124              |   |
| Bromodichloromethane                      | 1000                     | 16 U                              | 908                           | 91             | 80-122              |   |
| Bromoform                                 | 1000                     | 10 U                              | 955                           | 96             | 61-132              |   |
| Bromomethane                              | 1000                     | 28 U                              | 919                           | 92             | 55-144              |   |
| Carbon disulfide                          | 1000                     | 7.6 U                             | 993                           | 99             | 59-134              |   |
| Carbon tetrachloride                      | 1000                     | 11 U                              | 922                           | 92             | 72-134              |   |
| Chlorobenzene                             | 1000                     | 30 U                              | 878                           | 88             | 80-120              |   |
| Dibromochloromethane                      | 1000                     | 13 U                              | 979                           | 98             | 75-125              |   |
| Chloroethane                              | 1000                     | 13 U                              | 947                           | 95             | 69-136              |   |
| Chloroform                                | 1000                     | 14 U                              | 865                           | 86             | 73-127              |   |
| Chloromethane                             | 1000                     | 14 U                              | 927                           | 93             | 68-124              |   |
| cis-1,2-Dichloroethene                    | 1000                     | 32 U                              | 882                           | 88             | 74-124              |   |
| cis-1,3-Dichloropropene                   | 1000                     | 14 U                              | 954                           | 95             | 74-124              |   |
| Cyclohexane                               | 1000                     | 67                                | 1090                          | 103            | 59-135              |   |
| Dichlorodifluoromethane                   | 1000                     | 27 U                              | 841                           | 84             | 59-135              |   |
| Ethylbenzene                              | 1000                     | 30 U                              | 942                           | 94             | 77-123              |   |
| 1,2-Dibromoethane                         | 1000                     | 29 U                              | 909                           | 91             | 77-120              |   |
| Isopropylbenzene                          | 1000                     | 45                                | 1000                          | 96             | 77-122              |   |
| Methyl acetate                            | 2000                     | 52 U                              | 2340                          | 117            | 74-133              |   |
| Methyl tert-butyl ether                   | 1000                     | 6.4 U                             | 904                           | 90             | 77-120              |   |
| Methylcyclohexane                         | 1000                     | 40                                | 988                           | 95             | 68-134              |   |
| Methylene Chloride                        | 1000                     | 18 U                              | 954                           | 95             | 75-124              |   |
| Styrene                                   | 1000                     | 29 U                              | 939                           | 94             | 80-120              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: S4738.D

Lab ID: 480-200570-1 MS Client ID: WG-11230275-081022-KM-001 MS

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/L) | SAMPLE<br>CONCENTRATION<br>(ug/L) | MS<br>CONCENTRATION<br>(ug/L) | MS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------|--------------------------|-----------------------------------|-------------------------------|----------------|---------------------|---|
| Tetrachloroethene         | 1000                     | 14 U                              | 878                           | 88             | 74-122              |   |
| Toluene                   | 1000                     | 20 U                              | 895                           | 90             | 80-122              |   |
| trans-1,2-Dichloroethene  | 1000                     | 36 U                              | 898                           | 90             | 73-127              |   |
| trans-1,3-Dichloropropene | 1000                     | 15 U                              | 953                           | 95             | 80-120              |   |
| Trichloroethene           | 1000                     | 18 U                              | 891                           | 89             | 74-123              |   |
| Trichlorofluoromethane    | 1000                     | 35 U                              | 897                           | 90             | 62-150              |   |
| Vinyl chloride            | 1000                     | 36 U                              | 951                           | 95             | 65-133              |   |
| Chlorobromomethane        | 1000                     | 35 U                              | 837                           | 84             | 72-130              |   |

# Column to be used to flag recovery and RPD values



FORM III  
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo

Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

Lab File ID: S4739.D

Lab ID: 480-200570-1 MSD

Client ID: WG-11230275-081022-KM-001 MSD

| COMPOUND                                  | SPIKE<br>ADDED<br>(ug/L) | MSD<br>CONCENTRATION<br>(ug/L) | MSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | #  |
|-------------------------------------------|--------------------------|--------------------------------|-----------------|----------|-----------|--------|----|
|                                           |                          |                                |                 |          | RPD       | REC    |    |
| 1,1,1-Trichloroethane                     | 1000                     | 802                            | 80              | 9        | 15        | 73-126 |    |
| 1,1,2,2-Tetrachloroethane                 | 1000                     | 884                            | 88              | 0        | 15        | 76-120 |    |
| 1,1,2-Trichloroethane                     | 1000                     | 870                            | 87              | 3        | 15        | 76-122 |    |
| 1,1,2-Trichloro-1,2,2-trifluor<br>oethane | 1000                     | 672                            | 67              | 31       | 20        | 61-148 | F2 |
| 1,1-Dichloroethane                        | 1000                     | 845                            | 84              | 7        | 20        | 77-120 |    |
| 1,1-Dichloroethene                        | 1000                     | 891                            | 89              | 8        | 16        | 66-127 |    |
| 1,2,4-Trichlorobenzene                    | 1000                     | 911                            | 91              | 5        | 20        | 79-122 |    |
| 1,2-Dibromo-3-Chloropropane               | 1000                     | 885                            | 88              | 1        | 15        | 56-134 |    |
| 1,2-Dichlorobenzene                       | 1000                     | 873                            | 87              | 3        | 20        | 80-124 |    |
| 1,2,3-Trichlorobenzene                    | 1000                     | 879                            | 88              | 4        | 20        | 75-123 |    |
| 1,2-Dichloroethane                        | 1000                     | 786                            | 79              | 3        | 20        | 75-120 |    |
| 1,2-Dichloropropane                       | 1000                     | 867                            | 87              | 5        | 20        | 76-120 |    |
| 1,3-Dichlorobenzene                       | 1000                     | 871                            | 87              | 2        | 20        | 77-120 |    |
| 1,4-Dichlorobenzene                       | 1000                     | 851                            | 85              | 1        | 20        | 78-124 |    |
| 2-Butanone (MEK)                          | 5000                     | 4340                           | 87              | 2        | 20        | 57-140 |    |
| 2-Hexanone                                | 5000                     | 4430                           | 89              | 1        | 15        | 65-127 |    |
| 4-Methyl-2-pentanone (MIBK)               | 5000                     | 4310                           | 86              | 2        | 35        | 71-125 |    |
| Acetone                                   | 5000                     | 4370                           | 87              | 0        | 15        | 56-142 |    |
| Benzene                                   | 1000                     | 853                            | 85              | 6        | 13        | 71-124 |    |
| Bromodichloromethane                      | 1000                     | 854                            | 85              | 6        | 15        | 80-122 |    |
| Bromoform                                 | 1000                     | 939                            | 94              | 2        | 15        | 61-132 |    |
| Bromomethane                              | 1000                     | 784                            | 78              | 16       | 15        | 55-144 | F2 |
| Carbon disulfide                          | 1000                     | 940                            | 94              | 6        | 15        | 59-134 |    |
| Carbon tetrachloride                      | 1000                     | 810                            | 81              | 13       | 15        | 72-134 |    |
| Chlorobenzene                             | 1000                     | 848                            | 85              | 4        | 25        | 80-120 |    |
| Dibromochloromethane                      | 1000                     | 970                            | 97              | 1        | 15        | 75-125 |    |
| Chloroethane                              | 1000                     | 916                            | 92              | 3        | 15        | 69-136 |    |
| Chloroform                                | 1000                     | 813                            | 81              | 6        | 20        | 73-127 |    |
| Chloromethane                             | 1000                     | 818                            | 82              | 12       | 15        | 68-124 |    |
| cis-1,2-Dichloroethene                    | 1000                     | 844                            | 84              | 4        | 15        | 74-124 |    |
| cis-1,3-Dichloropropene                   | 1000                     | 914                            | 91              | 4        | 15        | 74-124 |    |
| Cyclohexane                               | 1000                     | 999                            | 93              | 9        | 20        | 59-135 |    |
| Dichlorodifluoromethane                   | 1000                     | 786                            | 79              | 7        | 20        | 59-135 |    |
| Ethylbenzene                              | 1000                     | 902                            | 90              | 4        | 15        | 77-123 |    |
| 1,2-Dibromoethane                         | 1000                     | 867                            | 87              | 5        | 15        | 77-120 |    |
| Isopropylbenzene                          | 1000                     | 976                            | 93              | 3        | 20        | 77-122 |    |
| Methyl acetate                            | 2000                     | 2170                           | 109             | 8        | 20        | 74-133 |    |
| Methyl tert-butyl ether                   | 1000                     | 845                            | 85              | 7        | 37        | 77-120 |    |
| Methylcyclohexane                         | 1000                     | 926                            | 89              | 6        | 20        | 68-134 |    |
| Methylene Chloride                        | 1000                     | 883                            | 88              | 8        | 15        | 75-124 |    |
| Styrene                                   | 1000                     | 917                            | 92              | 2        | 20        | 80-120 |    |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: S4739.D  
 Lab ID: 480-200570-1 MSD Client ID: WG-11230275-081022-KM-001 MSD

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/L) | MSD<br>CONCENTRATION<br>(ug/L) | MSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | # |
|---------------------------|--------------------------|--------------------------------|-----------------|----------|-----------|--------|---|
|                           |                          |                                |                 |          | RPD       | REC    |   |
| Tetrachloroethene         | 1000                     | 851                            | 85              | 3        | 20        | 74-122 |   |
| Toluene                   | 1000                     | 865                            | 87              | 3        | 15        | 80-122 |   |
| trans-1,2-Dichloroethene  | 1000                     | 867                            | 87              | 4        | 20        | 73-127 |   |
| trans-1,3-Dichloropropene | 1000                     | 958                            | 96              | 0        | 15        | 80-120 |   |
| Trichloroethene           | 1000                     | 843                            | 84              | 6        | 16        | 74-123 |   |
| Trichlorofluoromethane    | 1000                     | 809                            | 81              | 10       | 20        | 62-150 |   |
| Vinyl chloride            | 1000                     | 835                            | 84              | 13       | 15        | 65-133 |   |
| Chlorobromomethane        | 1000                     | 781                            | 78              | 7        | 15        | 72-130 |   |

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
SDG No.: \_\_\_\_\_  
Lab File ID: S4717.D Lab Sample ID: MB 480-637566/8  
Matrix: Water Heated Purge: (Y/N) N  
Instrument ID: HP5973S Date Analyzed: 08/16/2022 12:50  
GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID              | LAB SAMPLE ID    | LAB<br>FILE ID | DATE ANALYZED    |
|-------------------------------|------------------|----------------|------------------|
|                               | LCS 480-637566/6 | S4715.D        | 08/16/2022 12:03 |
| WG-11230275-081022-KM-001     | 480-200570-1     | S4718.D        | 08/16/2022 13:25 |
| WG-11230275-081022-KM-001 MS  | 480-200570-1 MS  | S4738.D        | 08/16/2022 21:08 |
| WG-11230275-081022-KM-001 MSD | 480-200570-1 MSD | S4739.D        | 08/16/2022 21:31 |

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
SDG No.: \_\_\_\_\_  
Lab File ID: L19198.D Lab Sample ID: MB 480-637640/9  
Matrix: Water Heated Purge: (Y/N) N  
Instrument ID: HP5977L Date Analyzed: 08/16/2022 16:30  
GC Column: ZB-624 (30) VOA ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID          | LAB SAMPLE ID     | LAB<br>FILE ID | DATE ANALYZED    |
|---------------------------|-------------------|----------------|------------------|
|                           | LCS 480-637640/6  | L19195.D       | 08/16/2022 15:19 |
|                           | LCSD 480-637640/7 | L19196.D       | 08/16/2022 15:43 |
| WG-11230275-081022-KM-002 | 480-200570-2      | L19199.D       | 08/16/2022 16:56 |
| WG-11230275-081022-KM-003 | 480-200570-3      | L19200.D       | 08/16/2022 17:20 |
| TB-11230275-081022-KM     | 480-200570-4      | L19201.D       | 08/16/2022 17:43 |

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
SDG No.: \_\_\_\_\_  
Lab File ID: L19231.D Lab Sample ID: MB 480-637762/9  
Matrix: Water Heated Purge: (Y/N) N  
Instrument ID: HP5977L Date Analyzed: 08/17/2022 14:09  
GC Column: ZB-624 (30) VOA ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID             | LAB SAMPLE ID     | LAB<br>FILE ID | DATE ANALYZED    |
|------------------------------|-------------------|----------------|------------------|
|                              | LCS 480-637762/6  | L19228.D       | 08/17/2022 12:51 |
|                              | LCSD 480-637762/7 | L19229.D       | 08/17/2022 13:14 |
| WG-11230275-081022-KM-003 DL | 480-200570-3 DL   | L19232.D       | 08/17/2022 14:43 |

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: S4493.D BFB Injection Date: 08/09/2022  
 Instrument ID: HP5973S BFB Injection Time: 16:17  
 Analysis Batch No.: 636697

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 24.5                 |
| 75  | 30.0 - 60.0 % of mass 95           | 49.1                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.7                  |
| 173 | Less than 2.0 % of mass 174        | 0.0 (0.0) 1          |
| 174 | Greater than 50% of mass 95        | 86.1                 |
| 175 | 5.0 - 9.0 % of mass 174            | 7.6 (8.8) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 85.7 (99.5) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 4.6 (5.4) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | IC 480-636697/13   | S4495.D     | 08/09/2022    | 17:06         |
|                  | IC 480-636697/14   | S4496.D     | 08/09/2022    | 17:30         |
|                  | IC 480-636697/15   | S4497.D     | 08/09/2022    | 17:53         |
|                  | IC 480-636697/16   | S4498.D     | 08/09/2022    | 18:16         |
|                  | IC 480-636697/17   | S4499.D     | 08/09/2022    | 18:40         |
|                  | ICIS 480-636697/18 | S4500.D     | 08/09/2022    | 19:03         |
|                  | IC 480-636697/19   | S4501.D     | 08/09/2022    | 19:26         |
|                  | IC 480-636697/20   | S4502.D     | 08/09/2022    | 19:49         |
|                  | ICV 480-636697/34  | S4516.D     | 08/10/2022    | 1:14          |

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: S4712.D BFB Injection Date: 08/16/2022  
 Instrument ID: HP5973S BFB Injection Time: 10:45  
 Analysis Batch No.: 637566

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 21.8                 |
| 75  | 30.0 - 60.0 % of mass 95           | 46.0                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.8                  |
| 173 | Less than 2.0 % of mass 174        | 0.7 (0.8) 1          |
| 174 | Greater than 50% of mass 95        | 90.0                 |
| 175 | 5.0 - 9.0 % of mass 174            | 6.3 (7.0) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 89.5 (99.4) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 6.1 (6.8) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID              | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-------------------------------|--------------------|-------------|---------------|---------------|
|                               | CCVIS 480-637566/4 | S4713.D     | 08/16/2022    | 11:17         |
|                               | LCS 480-637566/6   | S4715.D     | 08/16/2022    | 12:03         |
|                               | MB 480-637566/8    | S4717.D     | 08/16/2022    | 12:50         |
| WG-11230275-081022-KM-001     | 480-200570-1       | S4718.D     | 08/16/2022    | 13:25         |
| WG-11230275-081022-KM-001 MS  | 480-200570-1 MS    | S4738.D     | 08/16/2022    | 21:08         |
| WG-11230275-081022-KM-001 MSD | 480-200570-1 MSD   | S4739.D     | 08/16/2022    | 21:31         |

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: L18023.D BFB Injection Date: 07/07/2022  
 Instrument ID: HP5977L BFB Injection Time: 11:11  
 Analysis Batch No.: 632802

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 17.2                 |
| 75  | 30.0 - 60.0 % of mass 95           | 46.2                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.2                  |
| 173 | Less than 2.0 % of mass 174        | 0.0 (0.0) 1          |
| 174 | Greater than 50% of mass 95        | 84.5                 |
| 175 | 5.0 - 9.0 % of mass 174            | 6.2 (7.4) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 81.1 (96.0) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 5.9 (7.3) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | IC 480-632802/9    | L18025.D    | 07/07/2022    | 12:02         |
|                  | IC 480-632802/10   | L18026.D    | 07/07/2022    | 12:30         |
|                  | IC 480-632802/11   | L18027.D    | 07/07/2022    | 12:57         |
|                  | IC 480-632802/12   | L18028.D    | 07/07/2022    | 13:25         |
|                  | IC 480-632802/13   | L18029.D    | 07/07/2022    | 13:53         |
|                  | ICIS 480-632802/14 | L18030.D    | 07/07/2022    | 14:21         |
|                  | IC 480-632802/15   | L18031.D    | 07/07/2022    | 14:48         |
|                  | IC 480-632802/16   | L18032.D    | 07/07/2022    | 15:16         |
|                  | ICV 480-632802/30  | L18046.D    | 07/07/2022    | 21:44         |



FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: L19192.D BFB Injection Date: 08/16/2022  
 Instrument ID: HP5977L BFB Injection Time: 13:58  
 Analysis Batch No.: 637640

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 17.1                 |
| 75  | 30.0 - 60.0 % of mass 95           | 47.6                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 7.3                  |
| 173 | Less than 2.0 % of mass 174        | 0.0 (0.0) 1          |
| 174 | Greater than 50% of mass 95        | 88.1                 |
| 175 | 5.0 - 9.0 % of mass 174            | 5.6 (6.4) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 84.6 (96.1) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 4.4 (5.1) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID          | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---------------------------|--------------------|-------------|---------------|---------------|
|                           | CCVIS 480-637640/4 | L19193.D    | 08/16/2022    | 14:21         |
|                           | LCS 480-637640/6   | L19195.D    | 08/16/2022    | 15:19         |
|                           | LCSD 480-637640/7  | L19196.D    | 08/16/2022    | 15:43         |
|                           | MB 480-637640/9    | L19198.D    | 08/16/2022    | 16:30         |
| WG-11230275-081022-KM-002 | 480-200570-2       | L19199.D    | 08/16/2022    | 16:56         |
| WG-11230275-081022-KM-003 | 480-200570-3       | L19200.D    | 08/16/2022    | 17:20         |
| TB-11230275-081022-KM     | 480-200570-4       | L19201.D    | 08/16/2022    | 17:43         |

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: L19225.D BFB Injection Date: 08/17/2022  
 Instrument ID: HP5977L BFB Injection Time: 11:14  
 Analysis Batch No.: 637762

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 19.6                 |
| 75  | 30.0 - 60.0 % of mass 95           | 48.6                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 7.5                  |
| 173 | Less than 2.0 % of mass 174        | 0.0 (0.0) 1          |
| 174 | Greater than 50% of mass 95        | 85.7                 |
| 175 | 5.0 - 9.0 % of mass 174            | 5.7 (6.6) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 84.5 (98.6) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 6.3 (7.4) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID                | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---------------------------------|--------------------|-------------|---------------|---------------|
|                                 | CCVIS 480-637762/4 | L19226.D    | 08/17/2022    | 11:41         |
|                                 | LCS 480-637762/6   | L19228.D    | 08/17/2022    | 12:51         |
|                                 | LCSD 480-637762/7  | L19229.D    | 08/17/2022    | 13:14         |
|                                 | MB 480-637762/9    | L19231.D    | 08/17/2022    | 14:09         |
| WG-11230275-081022-KM-003<br>DL | 480-200570-3 DL    | L19232.D    | 08/17/2022    | 14:43         |

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 480-636697/18 Date Analyzed: 08/09/2022 19:03  
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)  
 Lab File ID (Standard): S4500.D Heated Purge: (Y/N) N  
 Calibration ID: 43798

|                               | FB               |        | CBNZd5 |        | DCBd4  |        |       |
|-------------------------------|------------------|--------|--------|--------|--------|--------|-------|
|                               | AREA #           | RT #   | AREA # | RT #   | AREA # | RT #   |       |
| INITIAL CALIBRATION MID-POINT | 182908           | 4.87   | 387455 | 7.82   | 394904 | 10.26  |       |
| UPPER LIMIT                   | 365816           | 5.37   | 774910 | 8.32   | 789808 | 10.76  |       |
| LOWER LIMIT                   | 91454            | 4.37   | 193728 | 7.32   | 197452 | 9.76   |       |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |        |        |        |        |        |       |
| ICV 480-636697/34             |                  | 182911 | 4.87   | 383365 | 7.82   | 401361 | 10.26 |
| CCVIS 480-637566/4            |                  | 226334 | 4.87   | 443683 | 7.82   | 471783 | 10.26 |

FB = Fluorobenzene (IS)  
 CBNZd5 = Chlorobenzene-d5  
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 480-637566/4 Date Analyzed: 08/16/2022 11:17  
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)  
 Lab File ID (Standard): S4713.D Heated Purge: (Y/N) N  
 Calibration ID: 43801

|                  |                               | FB               |      | CBNZd5 |      | DCBd4  |       |
|------------------|-------------------------------|------------------|------|--------|------|--------|-------|
|                  |                               | AREA #           | RT # | AREA # | RT # | AREA # | RT #  |
| 12/24 HOUR STD   |                               | 226334           | 4.87 | 443683 | 7.82 | 471783 | 10.26 |
| UPPER LIMIT      |                               | 452668           | 5.37 | 887366 | 8.32 | 943566 | 10.76 |
| LOWER LIMIT      |                               | 113167           | 4.37 | 221842 | 7.32 | 235892 | 9.76  |
| LAB SAMPLE ID    |                               | CLIENT SAMPLE ID |      |        |      |        |       |
| LCS 480-637566/6 |                               | 217602           | 4.87 | 443567 | 7.82 | 460142 | 10.26 |
| MB 480-637566/8  |                               | 210699           | 4.87 | 430797 | 7.82 | 454799 | 10.26 |
| 480-200570-1     | WG-11230275-081022-KM-001     | 221527           | 4.87 | 463592 | 7.82 | 473173 | 10.26 |
| 480-200570-1 MS  | WG-11230275-081022-KM-001 MS  | 206967           | 4.87 | 426835 | 7.82 | 446568 | 10.26 |
| 480-200570-1 MSD | WG-11230275-081022-KM-001 MSD | 218563           | 4.87 | 439206 | 7.82 | 452115 | 10.26 |

FB = Fluorobenzene (IS)  
 CBNZd5 = Chlorobenzene-d5  
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 480-632802/14 Date Analyzed: 07/07/2022 14:21  
 Instrument ID: HP5977L GC Column: ZB-624 (30) VOA ID: 0.25 (mm)  
 Lab File ID (Standard): L18030.D Heated Purge: (Y/N) N  
 Calibration ID: 43653

|                               | FB               |        | CBNZd5  |        | DCBd4  |        |       |
|-------------------------------|------------------|--------|---------|--------|--------|--------|-------|
|                               | AREA #           | RT #   | AREA #  | RT #   | AREA # | RT #   |       |
| INITIAL CALIBRATION MID-POINT | 166727           | 5.78   | 679053  | 8.67   | 363268 | 11.07  |       |
| UPPER LIMIT                   | 333454           | 6.28   | 1358106 | 9.17   | 726536 | 11.57  |       |
| LOWER LIMIT                   | 83364            | 5.28   | 339527  | 8.17   | 181634 | 10.57  |       |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |        |         |        |        |        |       |
| ICV 480-632802/30             |                  | 171161 | 5.78    | 686205 | 8.67   | 361836 | 11.07 |
| CCVIS 480-637640/4            |                  | 139175 | 5.77    | 586023 | 8.67   | 335970 | 11.06 |
| CCVIS 480-637762/4            |                  | 138920 | 5.77    | 600930 | 8.67   | 341093 | 11.06 |

FB = Fluorobenzene (IS)  
 CBNZd5 = Chlorobenzene-d5  
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 480-637640/4 Date Analyzed: 08/16/2022 14:21  
 Instrument ID: HP5977L GC Column: ZB-624 (30) VOA ID: 0.25 (mm)  
 Lab File ID (Standard): L19193.D Heated Purge: (Y/N) N  
 Calibration ID: 43656

|                   |                           | FB     |      | CBNZd5  |      | DCBd4  |       |
|-------------------|---------------------------|--------|------|---------|------|--------|-------|
|                   |                           | AREA # | RT # | AREA #  | RT # | AREA # | RT #  |
| 12/24 HOUR STD    |                           | 139175 | 5.77 | 586023  | 8.67 | 335970 | 11.06 |
| UPPER LIMIT       |                           | 278350 | 6.27 | 1172046 | 9.17 | 671940 | 11.56 |
| LOWER LIMIT       |                           | 69588  | 5.27 | 293012  | 8.17 | 167985 | 10.56 |
| LAB SAMPLE ID     | CLIENT SAMPLE ID          |        |      |         |      |        |       |
| LCS 480-637640/6  |                           | 139539 | 5.78 | 620686  | 8.67 | 335347 | 11.06 |
| LCSD 480-637640/7 |                           | 144431 | 5.78 | 633403  | 8.67 | 335374 | 11.06 |
| MB 480-637640/9   |                           | 134319 | 5.78 | 586273  | 8.67 | 317839 | 11.06 |
| 480-200570-2      | WG-11230275-081022-KM-002 | 143499 | 5.78 | 603574  | 8.67 | 337584 | 11.06 |
| 480-200570-3      | WG-11230275-081022-KM-003 | 138899 | 5.78 | 593216  | 8.67 | 329231 | 11.06 |
| 480-200570-4      | TB-11230275-081022-KM     | 139295 | 5.78 | 594474  | 8.67 | 317238 | 11.06 |

FB = Fluorobenzene (IS)  
 CBNZd5 = Chlorobenzene-d5  
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 480-637762/4 Date Analyzed: 08/17/2022 11:41  
 Instrument ID: HP5977L GC Column: ZB-624 (30) VOA ID: 0.25 (mm)  
 Lab File ID (Standard): L19226.D Heated Purge: (Y/N) N  
 Calibration ID: 43656

|                   |                              | FB     |      | CBNZd5  |      | DCBd4  |       |
|-------------------|------------------------------|--------|------|---------|------|--------|-------|
|                   |                              | AREA # | RT # | AREA #  | RT # | AREA # | RT #  |
| 12/24 HOUR STD    |                              | 138920 | 5.77 | 600930  | 8.67 | 341093 | 11.06 |
| UPPER LIMIT       |                              | 277840 | 6.27 | 1201860 | 9.17 | 682186 | 11.56 |
| LOWER LIMIT       |                              | 69460  | 5.27 | 300465  | 8.17 | 170547 | 10.56 |
| LAB SAMPLE ID     | CLIENT SAMPLE ID             |        |      |         |      |        |       |
| LCS 480-637762/6  |                              | 139744 | 5.77 | 620601  | 8.67 | 351115 | 11.06 |
| LCSD 480-637762/7 |                              | 151802 | 5.78 | 679476  | 8.67 | 368027 | 11.06 |
| MB 480-637762/9   |                              | 134837 | 5.78 | 601762  | 8.67 | 326344 | 11.06 |
| 480-200570-3 DL   | WG-11230275-081022-KM-003 DL | 138504 | 5.77 | 603066  | 8.67 | 337143 | 11.06 |

FB = Fluorobenzene (IS)  
 CBNZd5 = Chlorobenzene-d5  
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                                    |                                                    |
|----------------------------------------------------|----------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u>                  | Job No.: <u>480-200570-1</u>                       |
| SDG No.: _____                                     |                                                    |
| Client Sample ID: <u>WG-11230275-081022-KM-001</u> | Lab Sample ID: <u>480-200570-1</u>                 |
| Matrix: <u>Water</u>                               | Lab File ID: <u>S4718.D</u>                        |
| Analysis Method: <u>8260C</u>                      | Date Collected: <u>08/10/2022 13:30</u>            |
| Sample wt/vol: <u>5 (mL)</u>                       | Date Analyzed: <u>08/16/2022 13:25</u>             |
| Soil Aliquot Vol: _____                            | Dilution Factor: <u>40</u>                         |
| Soil Extract Vol.: _____                           | GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u> |
| Purge Volume: <u>5.0 (mL)</u>                      | Heated Purge: (Y/N) <u>N</u> pH: _____             |
| % Moisture: _____ % Solids: _____                  | Level: (low/med) <u>Low</u>                        |
| Analysis Batch No.: <u>637566</u>                  | Units: <u>ug/L</u>                                 |

| CAS NO.    | COMPOUND NAME                         | RESULT | Q    | RL  | MDL |
|------------|---------------------------------------|--------|------|-----|-----|
| 71-55-6    | 1,1,1-Trichloroethane                 | 33     | U    | 40  | 33  |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 8.4    | U    | 40  | 8.4 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 9.2    | U    | 40  | 9.2 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 12     | U F2 | 40  | 12  |
| 75-34-3    | 1,1-Dichloroethane                    | 15     | U    | 40  | 15  |
| 75-35-4    | 1,1-Dichloroethene                    | 12     | U    | 40  | 12  |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 16     | U    | 40  | 16  |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 16     | U    | 40  | 16  |
| 95-50-1    | 1,2-Dichlorobenzene                   | 32     | U    | 40  | 32  |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 16     | U    | 40  | 16  |
| 107-06-2   | 1,2-Dichloroethane                    | 8.4    | U    | 40  | 8.4 |
| 78-87-5    | 1,2-Dichloropropane                   | 29     | U    | 40  | 29  |
| 541-73-1   | 1,3-Dichlorobenzene                   | 31     | U    | 40  | 31  |
| 106-46-7   | 1,4-Dichlorobenzene                   | 34     | U    | 40  | 34  |
| 78-93-3    | 2-Butanone (MEK)                      | 53     | U    | 400 | 53  |
| 591-78-6   | 2-Hexanone                            | 50     | U    | 200 | 50  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 84     | U    | 200 | 84  |
| 67-64-1    | Acetone                               | 120    | U    | 400 | 120 |
| 71-43-2    | Benzene                               | 16     | U    | 40  | 16  |
| 75-27-4    | Bromodichloromethane                  | 16     | U    | 40  | 16  |
| 75-25-2    | Bromoform                             | 10     | U    | 40  | 10  |
| 74-83-9    | Bromomethane                          | 28     | U F2 | 40  | 28  |
| 75-15-0    | Carbon disulfide                      | 7.6    | U    | 40  | 7.6 |
| 56-23-5    | Carbon tetrachloride                  | 11     | U    | 40  | 11  |
| 108-90-7   | Chlorobenzene                         | 30     | U    | 40  | 30  |
| 124-48-1   | Dibromochloromethane                  | 13     | U    | 40  | 13  |
| 75-00-3    | Chloroethane                          | 13     | U    | 40  | 13  |
| 67-66-3    | Chloroform                            | 14     | U    | 40  | 14  |
| 74-87-3    | Chloromethane                         | 14     | U    | 40  | 14  |
| 156-59-2   | cis-1,2-Dichloroethene                | 32     | U    | 40  | 32  |
| 10061-01-5 | cis-1,3-Dichloropropene               | 14     | U    | 40  | 14  |
| 110-82-7   | Cyclohexane                           | 67     |      | 40  | 7.2 |
| 75-71-8    | Dichlorodifluoromethane               | 27     | U    | 40  | 27  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: WG-11230275-081022-KM-001 Lab Sample ID: 480-200570-1

Matrix: Water Lab File ID: S4718.D

Analysis Method: 8260C Date Collected: 08/10/2022 13:30

Sample wt/vol: 5(mL) Date Analyzed: 08/16/2022 13:25

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637566 Units: ug/L

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL |
|------------|---------------------------|--------|---|-----|-----|
| 100-41-4   | Ethylbenzene              | 30     | U | 40  | 30  |
| 106-93-4   | 1,2-Dibromoethane         | 29     | U | 40  | 29  |
| 98-82-8    | Isopropylbenzene          | 45     |   | 40  | 32  |
| 79-20-9    | Methyl acetate            | 52     | U | 100 | 52  |
| 1634-04-4  | Methyl tert-butyl ether   | 6.4    | U | 40  | 6.4 |
| 108-87-2   | Methylcyclohexane         | 40     |   | 40  | 6.4 |
| 75-09-2    | Methylene Chloride        | 18     | U | 40  | 18  |
| 100-42-5   | Styrene                   | 29     | U | 40  | 29  |
| 127-18-4   | Tetrachloroethene         | 14     | U | 40  | 14  |
| 108-88-3   | Toluene                   | 20     | U | 40  | 20  |
| 156-60-5   | trans-1,2-Dichloroethene  | 36     | U | 40  | 36  |
| 10061-02-6 | trans-1,3-Dichloropropene | 15     | U | 40  | 15  |
| 79-01-6    | Trichloroethene           | 18     | U | 40  | 18  |
| 75-69-4    | Trichlorofluoromethane    | 35     | U | 40  | 35  |
| 75-01-4    | Vinyl chloride            | 36     | U | 40  | 36  |
| 1330-20-7  | Xylenes, Total            | 26     | U | 80  | 26  |
| 74-97-5    | Chlorobromomethane        | 35     | U | 40  | 35  |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 97   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92   |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 94   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 95   |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4718.D  
 Lims ID: 480-200570-A-1  
 Client ID: WG-11230275-081022-KM-001  
 Sample Type: Client  
 Inject. Date: 16-Aug-2022 13:25:30 ALS Bottle#: 9 Worklist Smp#: 35  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Sample Info: 480-200570-A-1  
 Misc. Info.: 480-0107106-035  
 Operator ID: AG Instrument ID: HP5973S  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:52:04 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1639

First Level Reviewer: FGO5

Date: 17-Aug-2022 10:52:04

| Compound                                 | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ug/L | Flags |
|------------------------------------------|-----|-----------|---------------|---------------|----|----------|----------------|-------|
| * 153 Fluorobenzene (IS)                 | 70  | 4.867     | 4.867         | 0.000         | 98 | 221527   | 25.0           |       |
| * 2 Chlorobenzene-d5                     | 82  | 7.824     | 7.824         | 0.000         | 88 | 463592   | 25.0           |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 10.263    | 10.263        | 0.000         | 96 | 473173   | 25.0           |       |
| \$ 154 Dibromofluoromethane (Surr)       | 113 | 4.308     | 4.313         | 0.000         | 60 | 268305   | 23.8           |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)        | 67  | 4.606     | 4.606         | 0.000         | 97 | 176185   | 23.0           |       |
| \$ 5 Toluene-d8 (Surr)                   | 98  | 6.358     | 6.358         | 0.000         | 84 | 1096292  | 24.3           |       |
| \$ 6 4-Bromofluorobenzene (Surr)         | 174 | 9.077     | 9.077         | 0.000         | 90 | 350828   | 23.4           |       |
| 10 Dichlorodifluoromethane               | 85  |           | 1.035         |               |    |          | ND             |       |
| 12 Chloromethane                         | 50  |           | 1.181         |               |    |          | ND             |       |
| 13 Vinyl chloride                        | 62  |           | 1.241         |               |    |          | ND             |       |
| 14 Bromomethane                          | 94  |           | 1.503         |               |    |          | ND             | 7     |
| 15 Chloroethane                          | 64  |           | 1.576         |               |    |          | ND             |       |
| 17 Trichlorofluoromethane                | 101 |           | 1.740         |               |    |          | ND             |       |
| 21 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 |           | 2.184         |               |    |          | ND             |       |
| 22 1,1-Dichloroethene                    | 96  |           | 2.197         |               |    |          | ND             |       |
| 23 Acetone                               | 43  |           | 2.312         |               |    |          | ND             | U     |
| 26 Carbon disulfide                      | 76  |           | 2.367         |               |    |          | ND             | 7     |
| 27 Methyl acetate                        | 43  |           | 2.592         |               |    |          | ND             |       |
| 30 Methylene Chloride                    | 84  |           | 2.677         |               |    |          | ND             | 7     |
| 32 Methyl tert-butyl ether               | 73  |           | 2.884         |               |    |          | ND             |       |
| 34 trans-1,2-Dichloroethene              | 96  |           | 2.896         |               |    |          | ND             |       |
| 39 1,1-Dichloroethane                    | 63  |           | 3.298         |               |    |          | ND             |       |
| 45 cis-1,2-Dichloroethene                | 96  |           | 3.839         |               |    |          | ND             |       |
| 43 2-Butanone (MEK)                      | 43  |           | 3.882         |               |    |          | ND             |       |
| 48 Chlorobromomethane                    | 128 |           | 4.070         |               |    |          | ND             |       |
| 50 Chloroform                            | 83  |           | 4.149         |               |    |          | ND             | U     |
| 51 1,1,1-Trichloroethane                 | 97  |           | 4.247         |               |    |          | ND             |       |
| 52 Cyclohexane                           | 56  | 4.247     | 4.247         | 0.000         | 87 | 54757    | 1.67           |       |
| 55 Carbon tetrachloride                  | 117 |           | 4.381         |               |    |          | ND             |       |
| 57 Benzene                               | 78  |           | 4.600         |               |    |          | ND             |       |
| 58 1,2-Dichloroethane                    | 62  |           | 4.673         |               |    |          | ND             |       |

| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| 62 Trichloroethene              | 95  |              | 5.202            |                  |    |          | ND                |       |
| 64 Methylcyclohexane            | 83  | 5.305        | 5.311            | -0.006           | 85 | 28592    | 1.01              |       |
| 65 1,2-Dichloropropane          | 63  |              | 5.439            |                  |    |          | ND                |       |
| 68 Dichlorobromomethane         | 83  |              | 5.737            |                  |    |          | ND                |       |
| 72 cis-1,3-Dichloropropene      | 75  |              | 6.151            |                  |    |          | ND                |       |
| 73 4-Methyl-2-pentanone (MIBK)  | 43  |              | 6.303            |                  |    |          | ND                |       |
| 74 Toluene                      | 92  |              | 6.425            |                  |    |          | ND                |       |
| 77 trans-1,3-Dichloropropene    | 75  |              | 6.717            |                  |    |          | ND                |       |
| 79 1,1,2-Trichloroethane        | 83  |              | 6.899            |                  |    |          | ND                |       |
| 81 Tetrachloroethene            | 166 |              | 6.942            |                  |    |          | ND                |       |
| 80 2-Hexanone                   | 43  |              | 7.136            |                  |    |          | ND                |       |
| 83 Chlorodibromomethane         | 129 |              | 7.288            |                  |    |          | ND                |       |
| 84 Ethylene Dibromide           | 107 |              | 7.380            |                  |    |          | ND                |       |
| 87 Chlorobenzene                | 112 |              | 7.854            |                  |    |          | ND                |       |
| 88 Ethylbenzene                 | 91  | 7.952        | 7.952            | 0.000            | 80 | 43925    | 0.5480            |       |
| 90 m-Xylene & p-Xylene          | 106 |              | 8.073            |                  |    |          | ND                |       |
| 91 o-Xylene                     | 106 |              | 8.493            |                  |    |          | ND                |       |
| 92 Styrene                      | 104 |              | 8.530            |                  |    |          | ND                |       |
| 95 Bromoform                    | 173 |              | 8.767            |                  |    |          | ND                |       |
| 94 Isopropylbenzene             | 105 | 8.882        | 8.882            | 0.000            | 93 | 87658    | 1.12              |       |
| 97 1,1,2,2-Tetrachloroethane    | 83  |              | 9.314            |                  |    |          | ND                |       |
| 111 1,3-Dichlorobenzene         | 146 |              | 10.196           |                  |    |          | ND                |       |
| 113 1,4-Dichlorobenzene         | 146 |              | 10.288           |                  |    |          | ND                |       |
| 116 1,2-Dichlorobenzene         | 146 |              | 10.647           |                  |    |          | ND                |       |
| 117 1,2-Dibromo-3-Chloropropane | 75  |              | 11.395           |                  |    |          | ND                | U     |
| 119 1,2,4-Trichlorobenzene      | 180 |              | 12.076           |                  |    |          | ND                |       |
| 122 1,2,3-Trichlorobenzene      | 180 |              | 12.490           |                  |    |          | ND                |       |
| S 124 Xylenes, Total            | 1   |              | 30.000           |                  |    |          | ND                | 7     |

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

**Reagents:**

S\_8260\_IS\_00358

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00427

Amount Added: 1.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4718.D

Injection Date: 16-Aug-2022 13:25:30

Instrument ID: HP5973S

Operator ID: AG

Lims ID: 480-200570-A-1

Lab Sample ID: 480-200570-1

Worklist Smp#: 35

Client ID: WG-11230275-081022-KM-001

Purge Vol: 5.000 mL

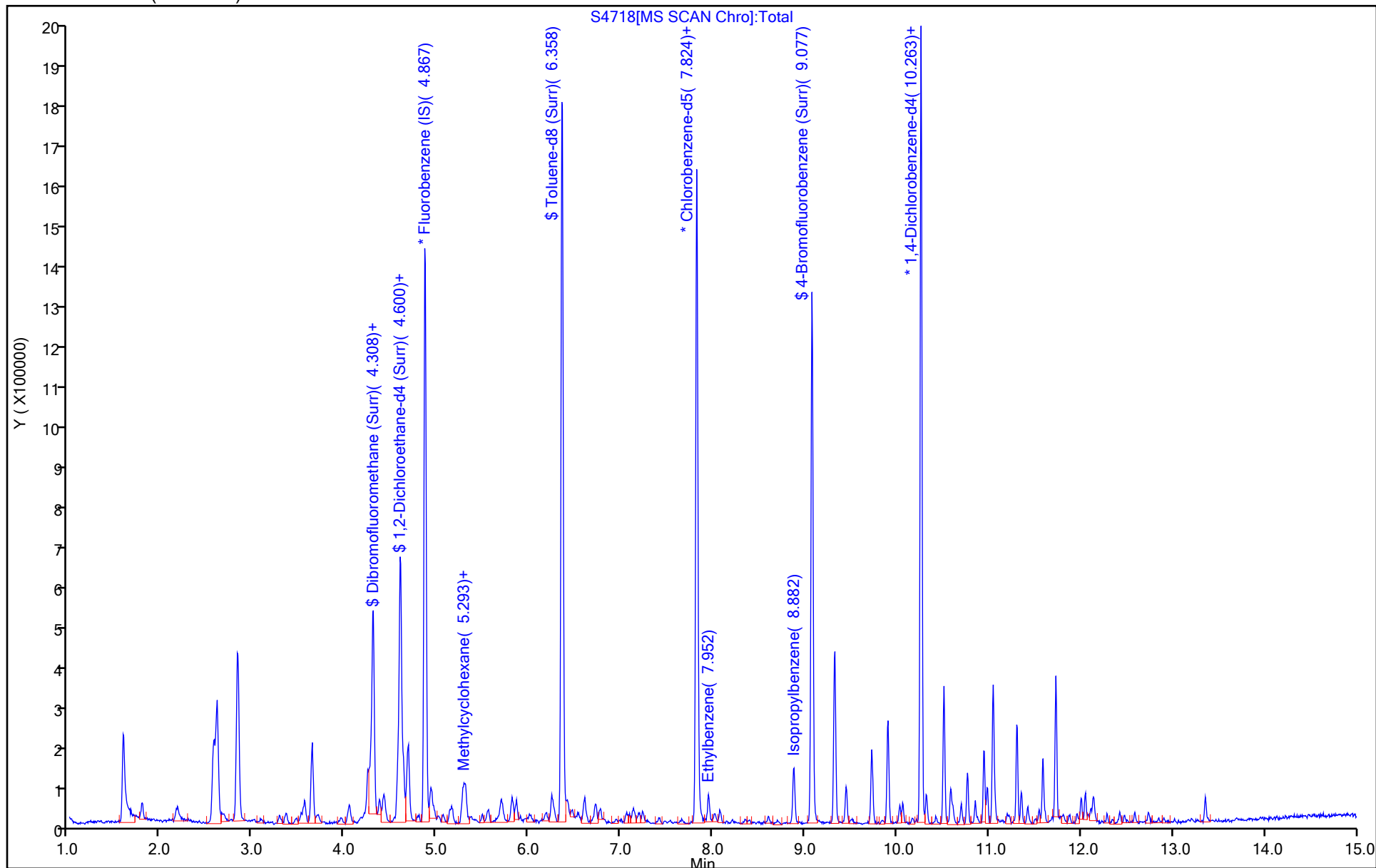
Dil. Factor: 40.0000

ALS Bottle#: 9

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4718.D  
 Lims ID: 480-200570-A-1  
 Client ID: WG-11230275-081022-KM-001  
 Sample Type: Client  
 Inject. Date: 16-Aug-2022 13:25:30 ALS Bottle#: 9 Worklist Smp#: 35  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Sample Info: 480-200570-A-1  
 Misc. Info.: 480-0107106-035  
 Operator ID: AG Instrument ID: HP5973S  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:52:04 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1639

First Level Reviewer: FGO5

Date: 17-Aug-2022 10:52:04

| Compound                           | Amount Added | Amount Recovered | % Rec. |
|------------------------------------|--------------|------------------|--------|
| \$ 154 Dibromofluoromethane (Surr) | 25.0         | 23.8             | 95.40  |
| \$ 4 1,2-Dichloroethane-d4 (Surr)  | 25.0         | 23.0             | 91.87  |
| \$ 5 Toluene-d8 (Surr)             | 25.0         | 24.3             | 97.05  |
| \$ 6 4-Bromofluorobenzene (Surr)   | 25.0         | 23.4             | 93.52  |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4718.D

Injection Date: 16-Aug-2022 13:25:30

Instrument ID: HP5973S

Lims ID: 480-200570-A-1

Lab Sample ID: 480-200570-1

Client ID: WG-11230275-081022-KM-001

Operator ID: AG

ALS Bottle#: 9

Worklist Smp#: 35

Purge Vol: 5.000 mL

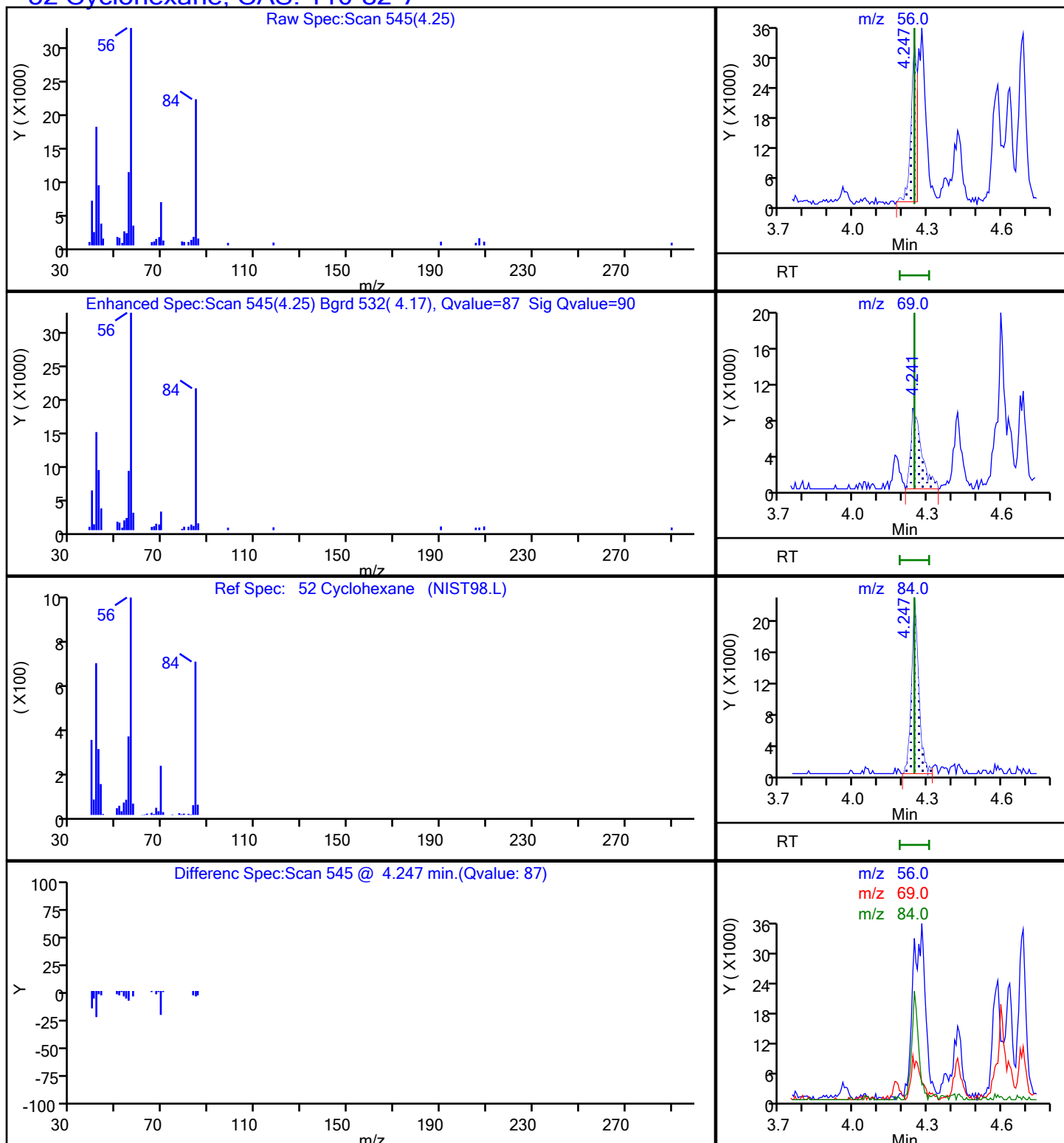
Dil. Factor: 40.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)

Detector: MS SCAN

**52 Cyclohexane, CAS: 110-82-7**

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4718.D

Injection Date: 16-Aug-2022 13:25:30

Instrument ID: HP5973S

Lims ID: 480-200570-A-1

Lab Sample ID: 480-200570-1

Client ID: WG-11230275-081022-KM-001

Operator ID: AG

ALS Bottle#: 9

Worklist Smp#: 35

Purge Vol: 5.000 mL

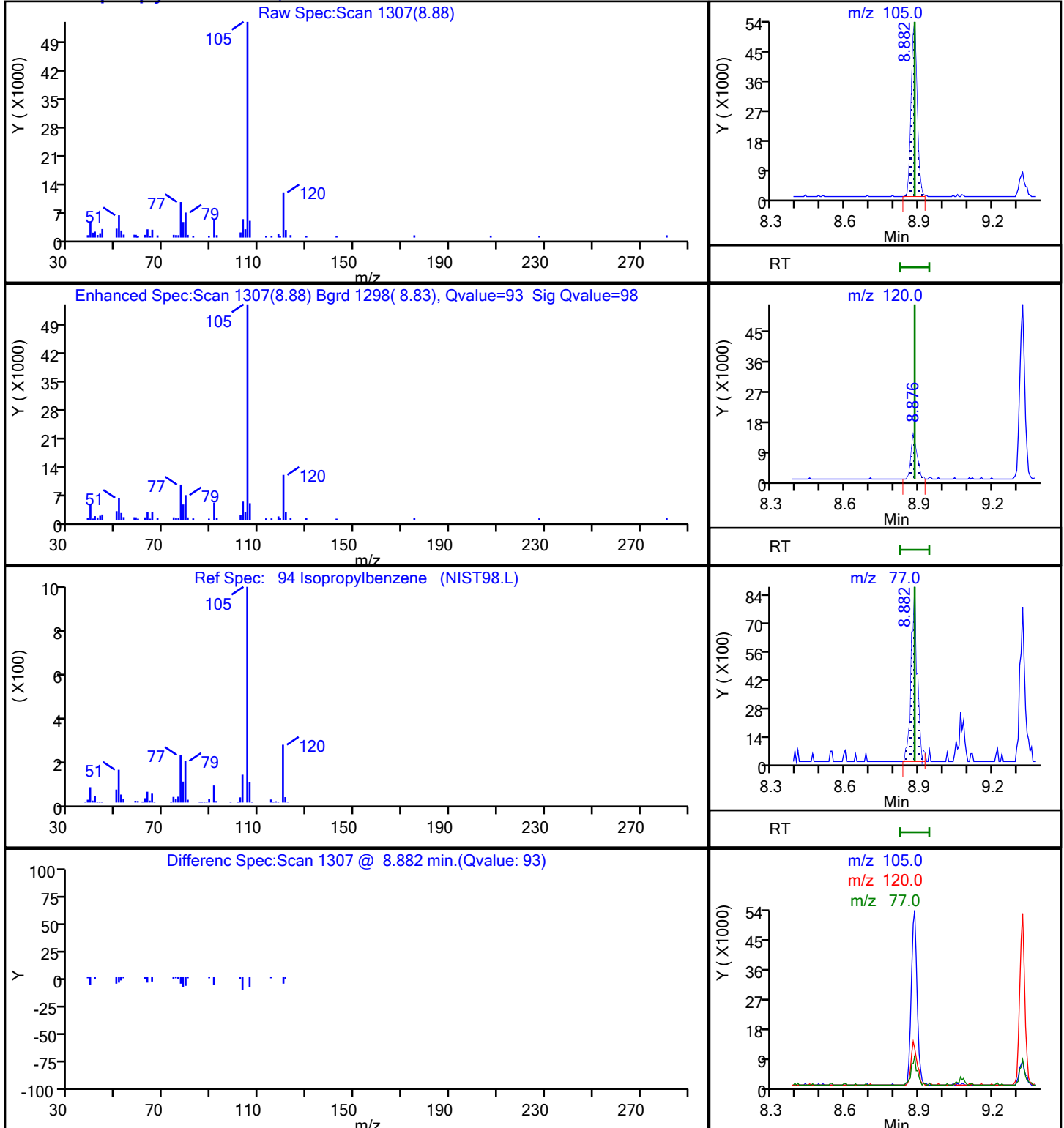
Dil. Factor: 40.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)

Detector: MS SCAN

**94 Isopropylbenzene, CAS: 98-82-8**

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4718.D

Injection Date: 16-Aug-2022 13:25:30

Instrument ID: HP5973S

Lims ID: 480-200570-A-1

Lab Sample ID: 480-200570-1

Client ID: WG-11230275-081022-KM-001

Operator ID: AG

ALS Bottle#: 9

Worklist Smp#: 35

Purge Vol: 5.000 mL

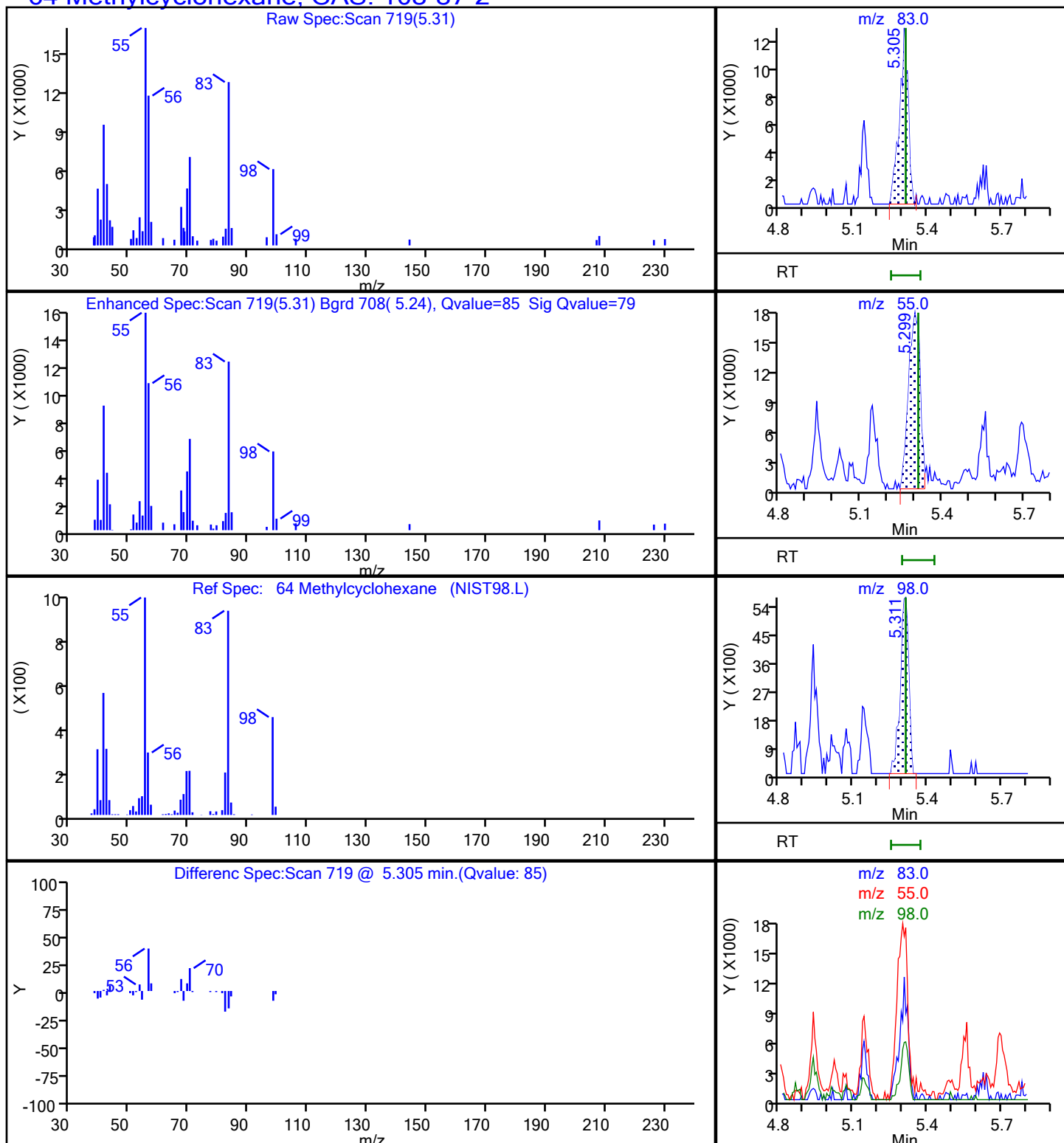
Dil. Factor: 40.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)

Detector: MS SCAN

**64 Methylcyclohexane, CAS: 108-87-2**



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4718.D

Injection Date: 16-Aug-2022 13:25:30

Instrument ID: HP5973S

Lims ID: 480-200570-A-1

Lab Sample ID: 480-200570-1

Client ID: WG-11230275-081022-KM-001

Operator ID: AG

ALS Bottle#:

9

Worklist Smp#: 35

Purge Vol: 5.000 mL

Dil. Factor:

40.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

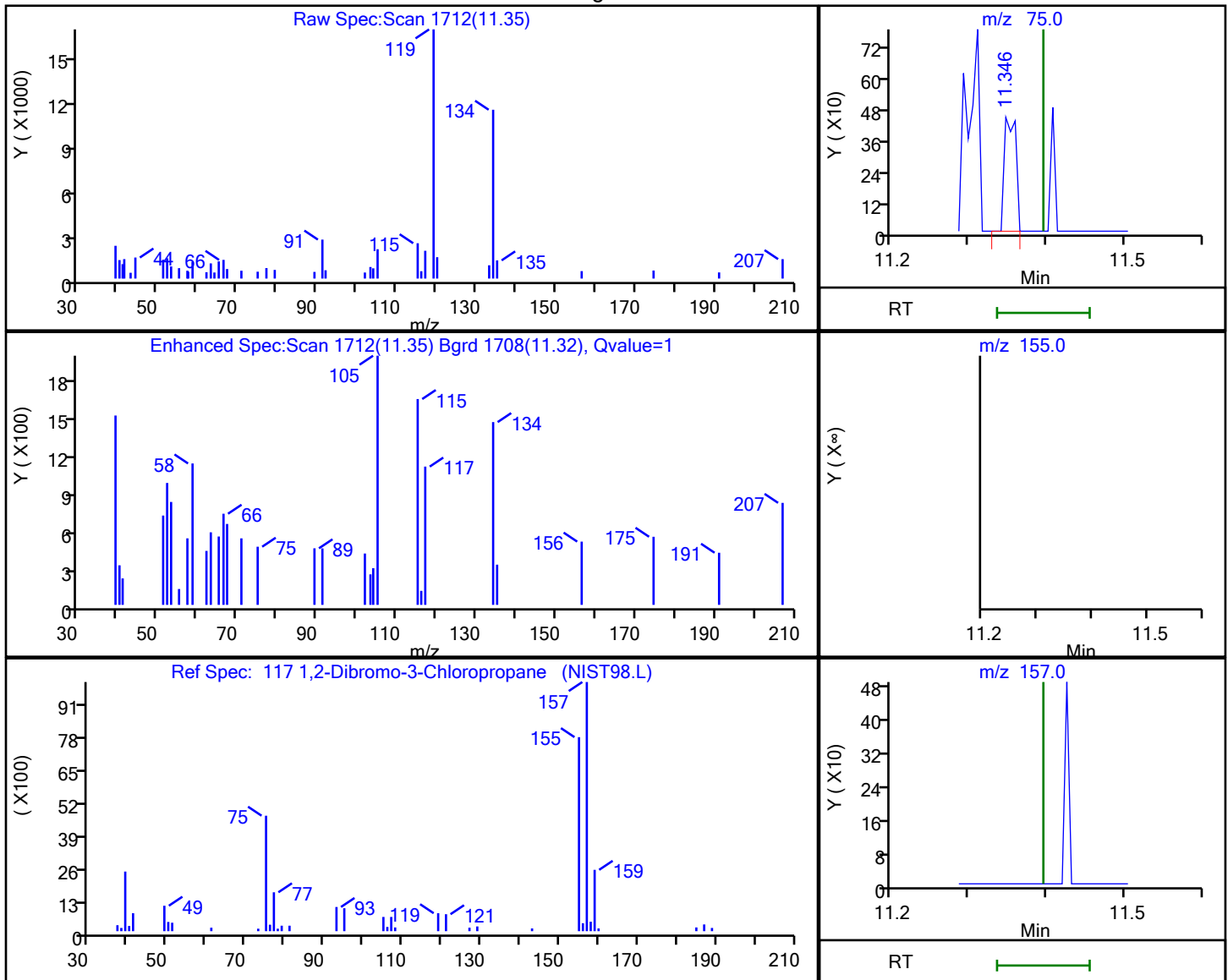
Column: ZB-624 ( 0.18 mm)

Detector

MS SCAN

## 117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 11.35 | 75.00  | 461      | 0.130967 |
| 11.39 | 155.00 | 0        |          |
| 11.39 | 157.00 | 0        |          |

Reviewer: FGO5, 17-Aug-2022 10:52:01

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4718.D

Injection Date: 16-Aug-2022 13:25:30

Instrument ID: HP5973S

Lims ID: 480-200570-A-1

Lab Sample ID: 480-200570-1

Client ID: WG-11230275-081022-KM-001

Operator ID: AG

ALS Bottle#:

9

Worklist Smp#: 35

Purge Vol: 5.000 mL

Dil. Factor:

40.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

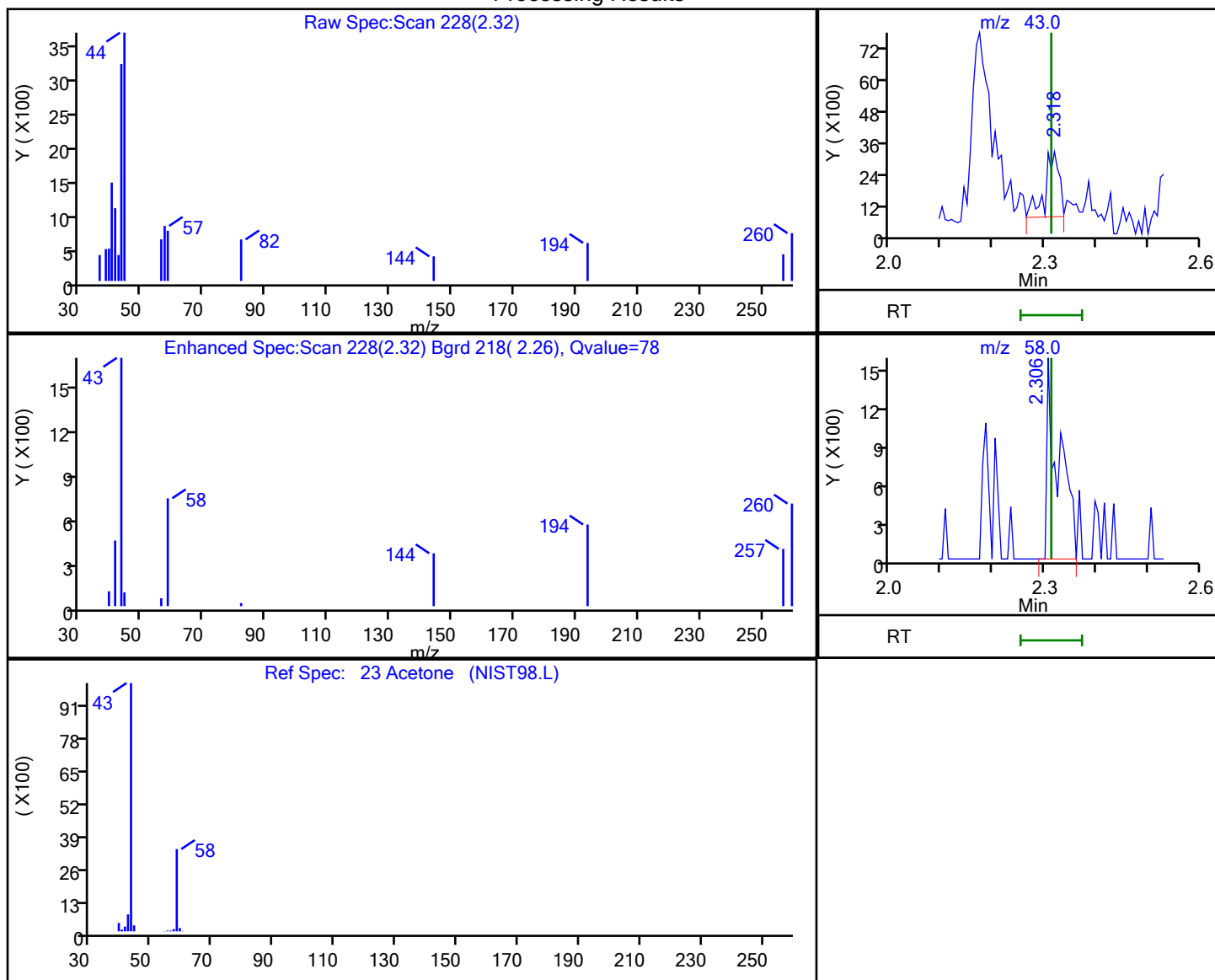
Column: ZB-624 ( 0.18 mm)

Detector

MS SCAN

## 23 Acetone, CAS: 67-64-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.32 | 43.00 | 4799     | 0.671070 |
| 2.31 | 58.00 | 2498     |          |

Reviewer: FGO5, 17-Aug-2022 10:51:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4718.D

Injection Date: 16-Aug-2022 13:25:30

Instrument ID: HP5973S

Lims ID: 480-200570-A-1

Lab Sample ID: 480-200570-1

Client ID: WG-11230275-081022-KM-001

Operator ID: AG

ALS Bottle#:

9

Worklist Smp#: 35

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

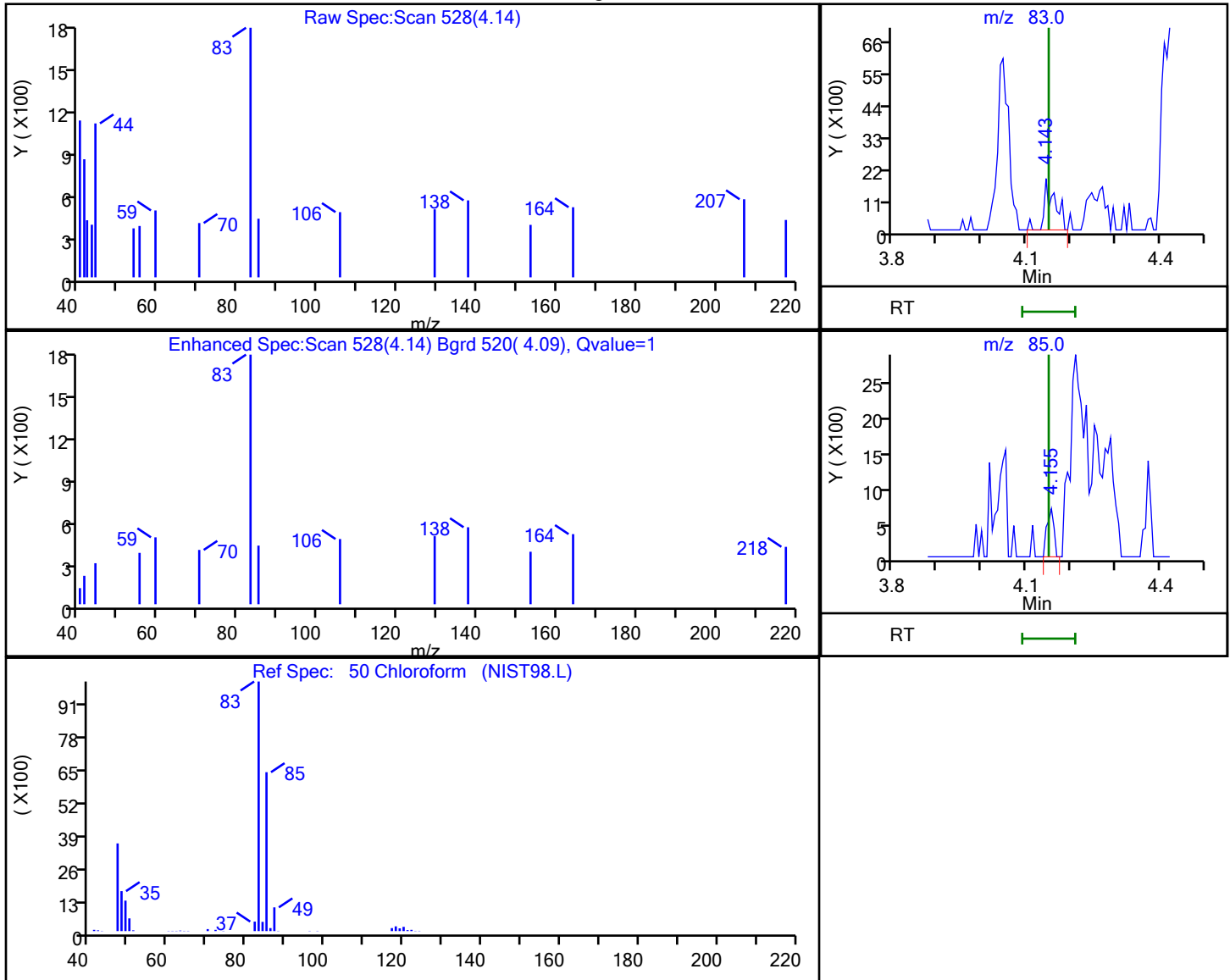
Column: ZB-624 ( 0.18 mm)

Detector

MS SCAN

## 50 Chloroform, CAS: 67-66-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.14 | 83.00 | 2939     | 0.104173 |
| 4.16 | 85.00 | 734      |          |

Reviewer: FGO5, 17-Aug-2022 10:51:44

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: WG-11230275-081022-KM-002 Lab Sample ID: 480-200570-2

Matrix: Water Lab File ID: L19199.D

Analysis Method: 8260C Date Collected: 08/10/2022 14:30

Sample wt/vol: 5(mL) Date Analyzed: 08/16/2022 16:56

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637640 Units: ug/L

| CAS NO.    | COMPOUND NAME                         | RESULT | Q    | RL  | MDL |
|------------|---------------------------------------|--------|------|-----|-----|
| 71-55-6    | 1,1,1-Trichloroethane                 | 33     | U    | 40  | 33  |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 8.4    | U    | 40  | 8.4 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 9.2    | U    | 40  | 9.2 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 12     | U    | 40  | 12  |
| 75-34-3    | 1,1-Dichloroethane                    | 15     | U ** | 40  | 15  |
| 75-35-4    | 1,1-Dichloroethene                    | 12     | U    | 40  | 12  |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 16     | U    | 40  | 16  |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 16     | U    | 40  | 16  |
| 95-50-1    | 1,2-Dichlorobenzene                   | 32     | U    | 40  | 32  |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 16     | U    | 40  | 16  |
| 107-06-2   | 1,2-Dichloroethane                    | 8.4    | U    | 40  | 8.4 |
| 78-87-5    | 1,2-Dichloropropane                   | 29     | U    | 40  | 29  |
| 541-73-1   | 1,3-Dichlorobenzene                   | 31     | U    | 40  | 31  |
| 106-46-7   | 1,4-Dichlorobenzene                   | 34     | U    | 40  | 34  |
| 78-93-3    | 2-Butanone (MEK)                      | 53     | U ** | 400 | 53  |
| 591-78-6   | 2-Hexanone                            | 50     | U    | 200 | 50  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 84     | U    | 200 | 84  |
| 67-64-1    | Acetone                               | 120    | U    | 400 | 120 |
| 71-43-2    | Benzene                               | 130    |      | 40  | 16  |
| 75-27-4    | Bromodichloromethane                  | 16     | U    | 40  | 16  |
| 75-25-2    | Bromoform                             | 10     | U    | 40  | 10  |
| 74-83-9    | Bromomethane                          | 28     | U    | 40  | 28  |
| 75-15-0    | Carbon disulfide                      | 7.6    | U    | 40  | 7.6 |
| 56-23-5    | Carbon tetrachloride                  | 11     | U    | 40  | 11  |
| 108-90-7   | Chlorobenzene                         | 30     | U    | 40  | 30  |
| 124-48-1   | Dibromochloromethane                  | 13     | U    | 40  | 13  |
| 75-00-3    | Chloroethane                          | 13     | U    | 40  | 13  |
| 67-66-3    | Chloroform                            | 14     | U    | 40  | 14  |
| 74-87-3    | Chloromethane                         | 14     | U    | 40  | 14  |
| 156-59-2   | cis-1,2-Dichloroethene                | 32     | U    | 40  | 32  |
| 10061-01-5 | cis-1,3-Dichloropropene               | 14     | U    | 40  | 14  |
| 110-82-7   | Cyclohexane                           | 7.2    | U    | 40  | 7.2 |
| 75-71-8    | Dichlorodifluoromethane               | 27     | U    | 40  | 27  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: WG-11230275-081022-KM-002 Lab Sample ID: 480-200570-2  
 Matrix: Water Lab File ID: L19199.D  
 Analysis Method: 8260C Date Collected: 08/10/2022 14:30  
 Sample wt/vol: 5(mL) Date Analyzed: 08/16/2022 16:56  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (30) VOA ID: 0.25(mm)  
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 637640 Units: ug/L

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL |
|------------|---------------------------|--------|---|-----|-----|
| 100-41-4   | Ethylbenzene              | 1400   |   | 40  | 30  |
| 106-93-4   | 1,2-Dibromoethane         | 29     | U | 40  | 29  |
| 98-82-8    | Isopropylbenzene          | 240    |   | 40  | 32  |
| 79-20-9    | Methyl acetate            | 52     | U | 100 | 52  |
| 1634-04-4  | Methyl tert-butyl ether   | 6.4    | U | 40  | 6.4 |
| 108-87-2   | Methylcyclohexane         | 6.4    | U | 40  | 6.4 |
| 75-09-2    | Methylene Chloride        | 18     | U | 40  | 18  |
| 100-42-5   | Styrene                   | 29     | U | 40  | 29  |
| 127-18-4   | Tetrachloroethene         | 14     | U | 40  | 14  |
| 108-88-3   | Toluene                   | 20     | U | 40  | 20  |
| 156-60-5   | trans-1,2-Dichloroethene  | 36     | U | 40  | 36  |
| 10061-02-6 | trans-1,3-Dichloropropene | 15     | U | 40  | 15  |
| 79-01-6    | Trichloroethene           | 18     | U | 40  | 18  |
| 75-69-4    | Trichlorofluoromethane    | 35     | U | 40  | 35  |
| 75-01-4    | Vinyl chloride            | 36     | U | 40  | 36  |
| 1330-20-7  | Xylenes, Total            | 26     | U | 80  | 26  |
| 74-97-5    | Chlorobromomethane        | 35     | U | 40  | 35  |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 105  |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 91   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19199.D  
 Lims ID: 480-200570-B-2  
 Client ID: WG-11230275-081022-KM-002  
 Sample Type: Client  
 Inject. Date: 16-Aug-2022 16:56:48 ALS Bottle#: 0 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Sample Info: 480-200570-B-2  
 Misc. Info.: 480-0107114-010  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:13:25 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 10:13:25

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.773            | 0.003            | 99 | 143499   | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.666        | 8.666            | 0.000            | 86 | 603574   | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.062       | 11.062           | 0.000            | 94 | 337584   | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226        | 5.229            | 0.000            | 95 | 179196   | 24.6              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.528        | 5.525            | 0.003            | 96 | 217599   | 26.4              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.207        | 7.206            | 0.004            | 93 | 703108   | 23.3              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911        | 9.914            | 0.000            | 99 | 213989   | 22.7              |       |
| 10 Dichlorodifluoromethane               | 85  |              | 1.770            |                  |    |          | ND                |       |
| 13 Chloromethane                         | 50  |              | 2.004            |                  |    |          | ND                |       |
| 14 Vinyl chloride                        | 62  |              | 2.107            |                  |    |          | ND                |       |
| 18 Bromomethane                          | 94  |              | 2.480            |                  |    |          | ND                |       |
| 19 Chloroethane                          | 64  |              | 2.564            |                  |    |          | ND                |       |
| 21 Trichlorofluoromethane                | 101 |              | 2.779            |                  |    |          | ND                |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 |              | 3.249            |                  |    |          | ND                |       |
| 30 1,1-Dichloroethene                    | 96  |              | 3.252            |                  |    |          | ND                |       |
| 31 Acetone                               | 43  | 3.364        | 3.358            | 0.006            | 72 | 4011     | 1.28              |       |
| 35 Carbon disulfide                      | 76  |              | 3.477            |                  |    |          | ND                |       |
| 38 Methyl acetate                        | 43  |              | 3.615            |                  |    |          | ND                | U     |
| 39 Methylene Chloride                    | 84  |              | 3.721            |                  |    |          | ND                | 7     |
| 41 Methyl tert-butyl ether               | 73  |              | 3.901            |                  |    |          | ND                |       |
| 42 trans-1,2-Dichloroethene              | 96  |              | 3.927            |                  |    |          | ND                |       |
| 50 1,1-Dichloroethane                    | 63  |              | 4.306            |                  |    |          | ND                |       |
| 58 cis-1,2-Dichloroethene                | 96  |              | 4.808            |                  |    |          | ND                |       |
| 57 2-Butanone (MEK)                      | 43  |              | 4.824            |                  |    |          | ND                | U     |
| 60 Chlorobromomethane                    | 128 |              | 5.030            |                  |    |          | ND                |       |
| 62 Chloroform                            | 83  |              | 5.078            |                  |    |          | ND                |       |
| 64 1,1,1-Trichloroethane                 | 97  |              | 5.207            |                  |    |          | ND                |       |
| 65 Cyclohexane                           | 56  |              | 5.223            |                  |    |          | ND                |       |
| 66 Carbon tetrachloride                  | 117 |              | 5.339            |                  |    |          | ND                |       |
| 70 Benzene                               | 78  | 5.541        | 5.538            | 0.003            | 95 | 102271   | 3.14              |       |
| 72 1,2-Dichloroethane                    | 62  |              | 5.593            |                  |    |          | ND                | U     |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|----------------|-------|
| 75 Trichloroethene              | 95  |           | 6.091         |               |    |          | ND             |       |
| 76 Methylcyclohexane            | 83  |           | 6.216         |               |    |          | ND             |       |
| 77 1,2-Dichloropropane          | 63  |           | 6.329         |               |    |          | ND             |       |
| 83 Dichlorobromomethane         | 83  |           | 6.586         |               |    |          | ND             |       |
| 85 cis-1,3-Dichloropropene      | 75  |           | 6.982         |               |    |          | ND             |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  |           | 7.097         |               |    |          | ND             |       |
| 88 Toluene                      | 92  | 7.274     | 7.270         | 0.006         | 96 | 4127     | 0.1858         |       |
| 91 trans-1,3-Dichloropropene    | 75  |           | 7.519         |               |    |          | ND             |       |
| 93 1,1,2-Trichloroethane        | 83  |           | 7.712         |               |    |          | ND             |       |
| 94 Tetrachloroethene            | 166 |           | 7.792         |               |    |          | ND             |       |
| 96 2-Hexanone                   | 43  |           | 7.908         |               |    |          | ND             |       |
| 98 Chlorodibromomethane         | 129 |           | 8.117         |               |    |          | ND             |       |
| 101 Ethylene Dibromide          | 107 |           | 8.242         |               |    |          | ND             |       |
| 103 Chlorobenzene               | 112 |           | 8.695         |               |    |          | ND             |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.769         | 0.000         | 98 | 1435585  | 35.7           |       |
| 106 m-Xylene & p-Xylene         | 106 |           | 8.882         |               |    |          | ND             | U     |
| 107 o-Xylene                    | 106 |           | 9.316         |               |    |          | ND             | U     |
| 109 Styrene                     | 104 |           | 9.342         |               |    |          | ND             |       |
| 110 Bromoform                   | 173 |           | 9.615         |               |    |          | ND             |       |
| 111 Isopropylbenzene            | 105 | 9.689     | 9.686         | 0.003         | 96 | 262182   | 6.09           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  |           | 10.094        |               |    |          | ND             |       |
| 124 1,3-Dichlorobenzene         | 146 |           | 11.001        |               |    |          | ND             |       |
| 126 1,4-Dichlorobenzene         | 146 |           | 11.084        |               |    |          | ND             |       |
| 128 1,2-Dichlorobenzene         | 146 |           | 11.435        |               |    |          | ND             |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  |           | 12.136        |               |    |          | ND             |       |
| 130 1,2,4-Trichlorobenzene      | 180 |           | 12.760        |               |    |          | ND             |       |
| 133 1,2,3-Trichlorobenzene      | 180 |           | 13.178        |               |    |          | ND             |       |
| S 143 Xylenes, Total            | 1   |           | 30.000        |               |    |          | ND             | 7     |

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

**Reagents:**

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19199.D

Injection Date: 16-Aug-2022 16:56:48

Instrument ID: HP5977L

Lims ID: 480-200570-B-2

Lab Sample ID: 480-200570-2

Client ID: WG-11230275-081022-KM-002

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 10

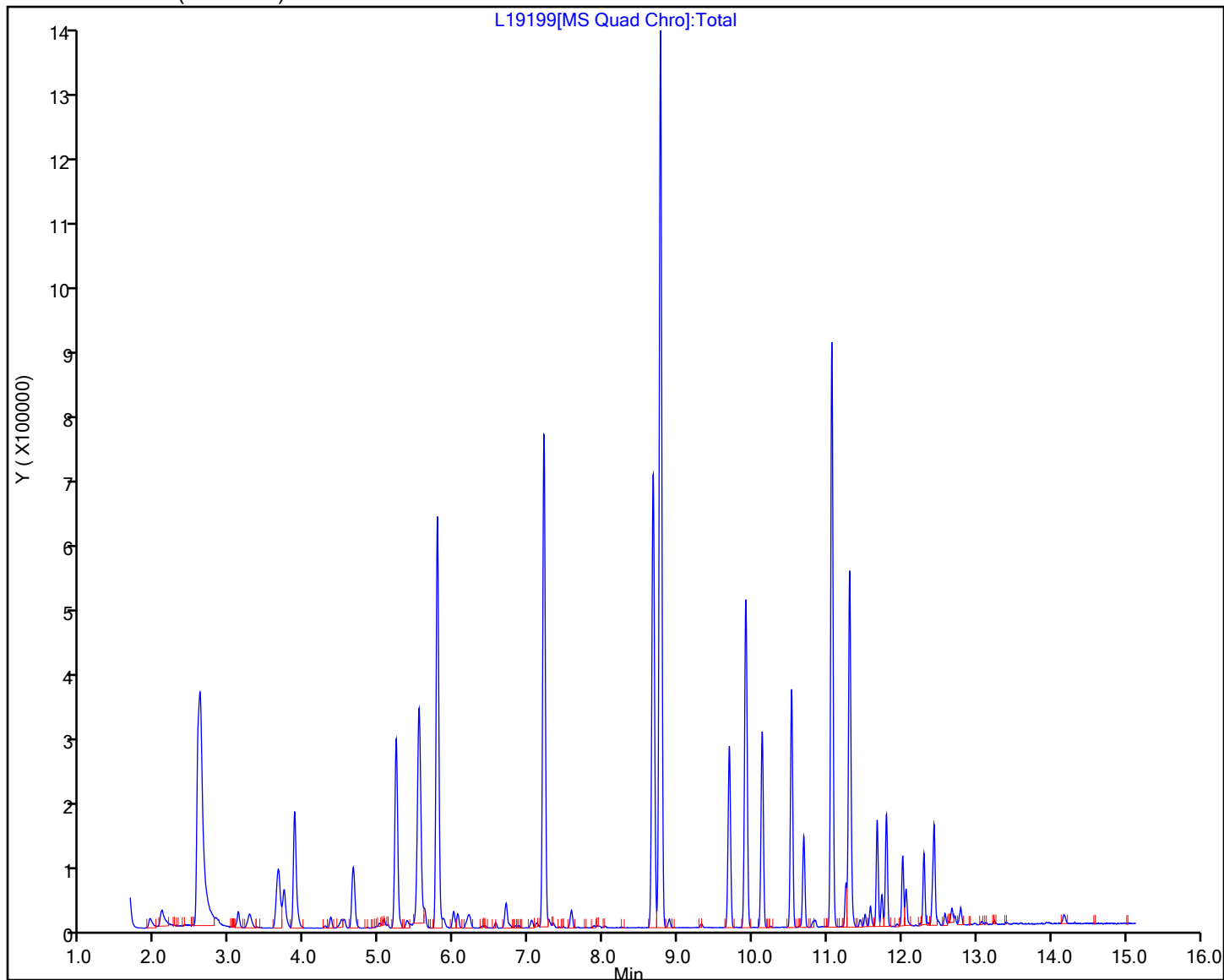
Purge Vol: 5.000 mL

Dil. Factor: 40.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)





Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19199.D  
 Lims ID: 480-200570-B-2  
 Client ID: WG-11230275-081022-KM-002  
 Sample Type: Client  
 Inject. Date: 16-Aug-2022 16:56:48 ALS Bottle#: 0 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Sample Info: 480-200570-B-2  
 Misc. Info.: 480-0107114-010  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:13:25 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 10:13:25

| Compound                          | Amount Added | Amount Recovered | % Rec. |
|-----------------------------------|--------------|------------------|--------|
| \$ 4 Dibromofluoromethane (Surr)  | 25.0         | 24.6             | 98.37  |
| \$ 5 1,2-Dichloroethane-d4 (Surr) | 25.0         | 26.4             | 105.44 |
| \$ 6 Toluene-d8 (Surr)            | 25.0         | 23.3             | 93.34  |
| \$ 7 4-Bromofluorobenzene (Surr)  | 25.0         | 22.7             | 90.76  |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19199.D

Injection Date: 16-Aug-2022 16:56:48

Instrument ID: HP5977L

Lims ID: 480-200570-B-2

Lab Sample ID: 480-200570-2

Client ID: WG-11230275-081022-KM-002

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

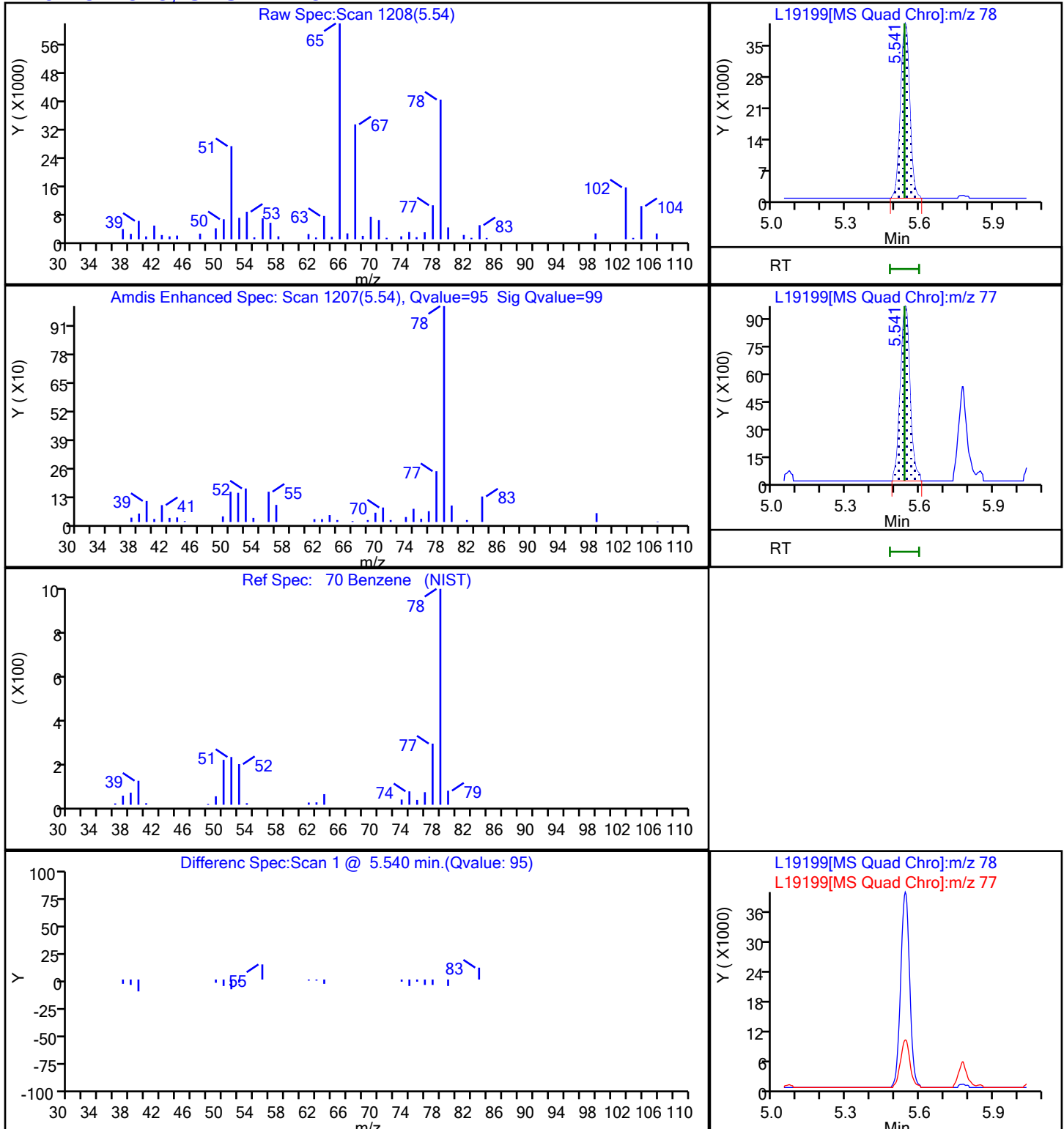
Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

## 70 Benzene, CAS: 71-43-2



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19199.D

Injection Date: 16-Aug-2022 16:56:48

Instrument ID: HP5977L

Lims ID: 480-200570-B-2

Lab Sample ID: 480-200570-2

Client ID: WG-11230275-081022-KM-002

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

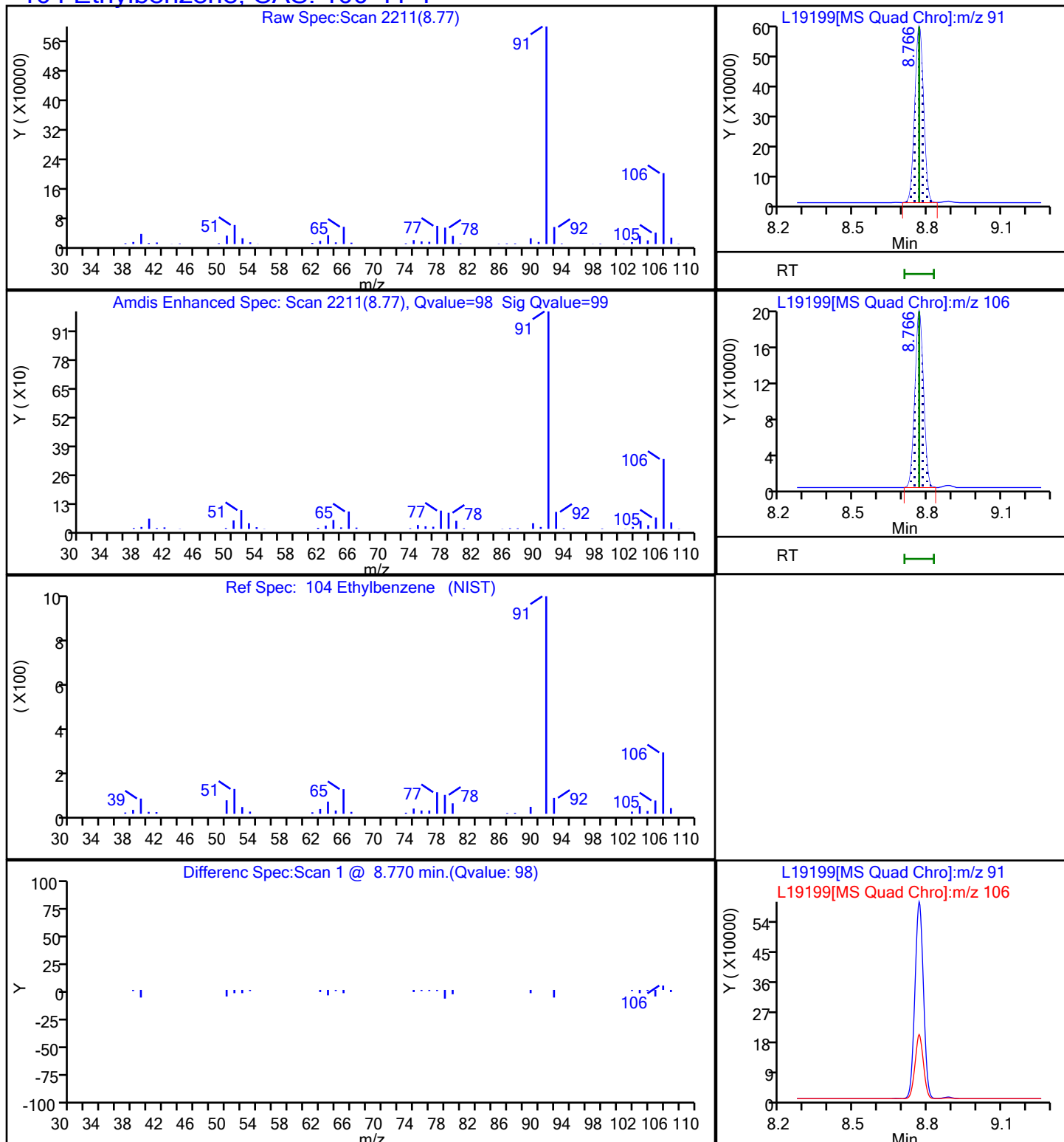
Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

## 104 Ethylbenzene, CAS: 100-41-4



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19199.D

Injection Date: 16-Aug-2022 16:56:48

Instrument ID: HP5977L

Lims ID: 480-200570-B-2

Lab Sample ID: 480-200570-2

Client ID: WG-11230275-081022-KM-002

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 10

Purge Vol: 5.000 mL

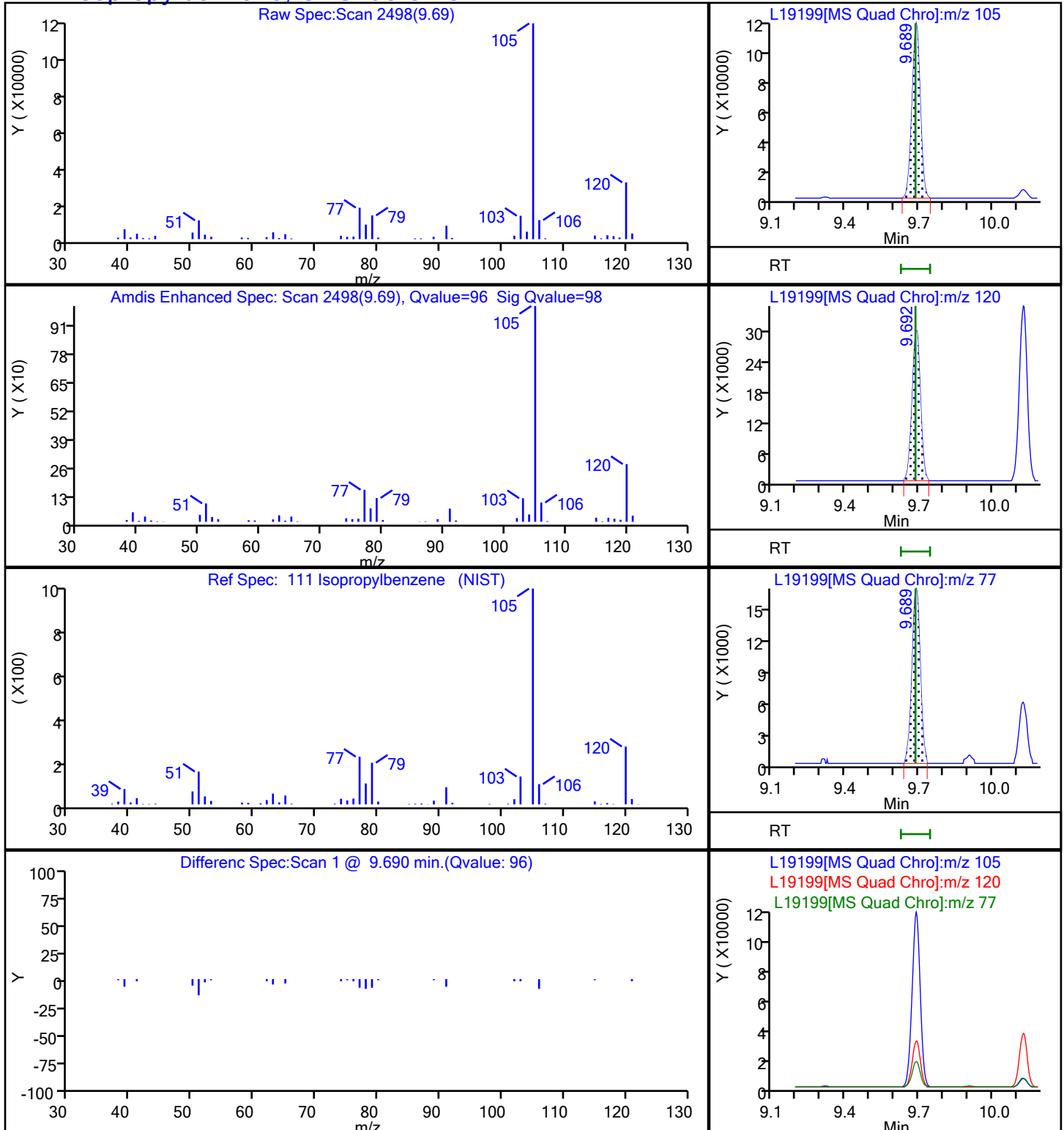
Dil. Factor: 40.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

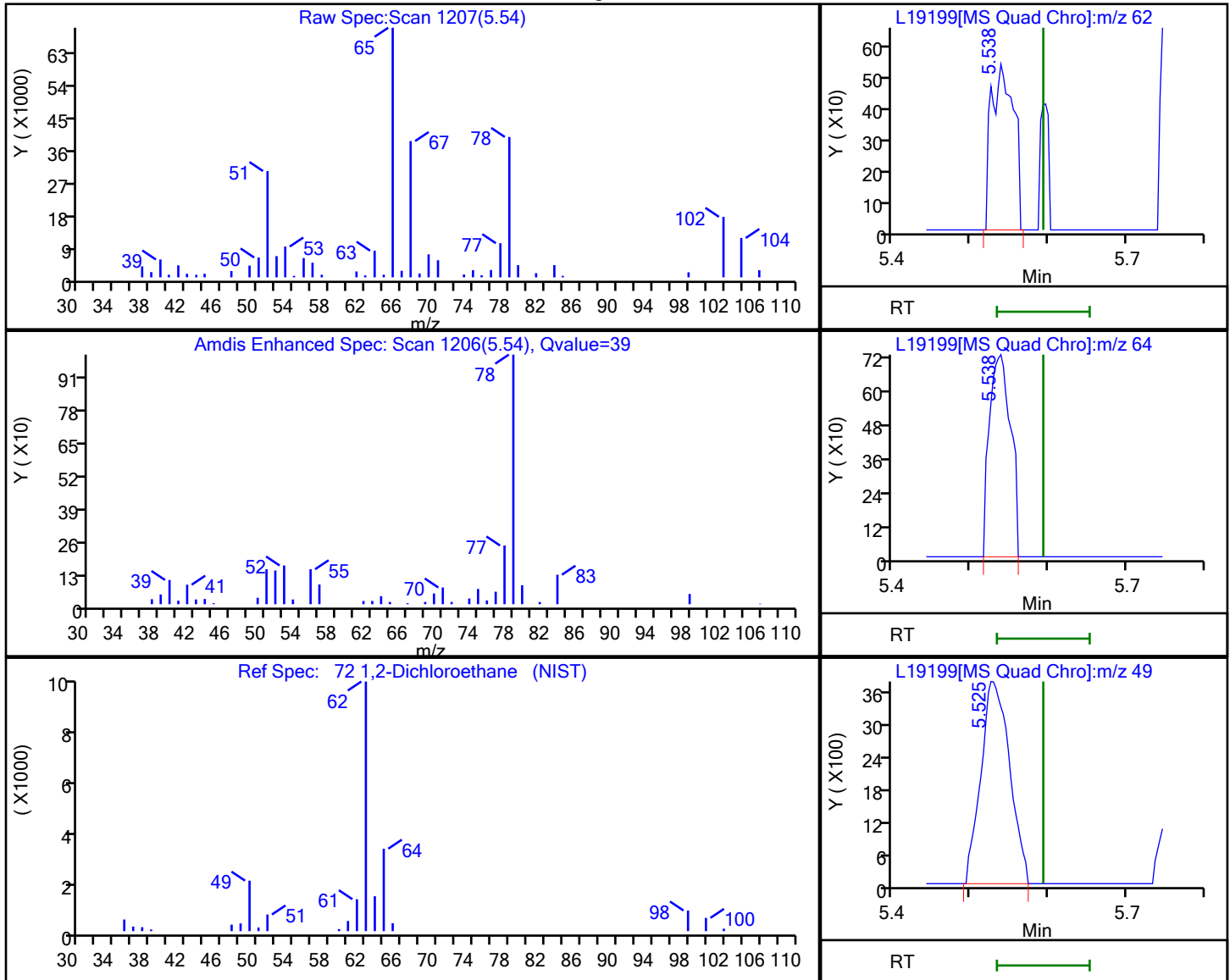
**111 Isopropylbenzene, CAS: 98-82-8**

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19199.D  
Injection Date: 16-Aug-2022 16:56:48 Instrument ID: HP5977L  
Lims ID: 480-200570-B-2 Lab Sample ID: 480-200570-2  
Client ID: WG-11230275-081022-KM-002  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 40.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

## 72 1,2-Dichloroethane, CAS: 107-06-2

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.54 | 62.00 | 1073     | 0.095628 |
| 5.54 | 64.00 | 1385     |          |
| 5.52 | 49.00 | 9594     |          |

Reviewer: LS5G, 17-Aug-2022 10:11:41

Audit Action: Marked Compound Undetected

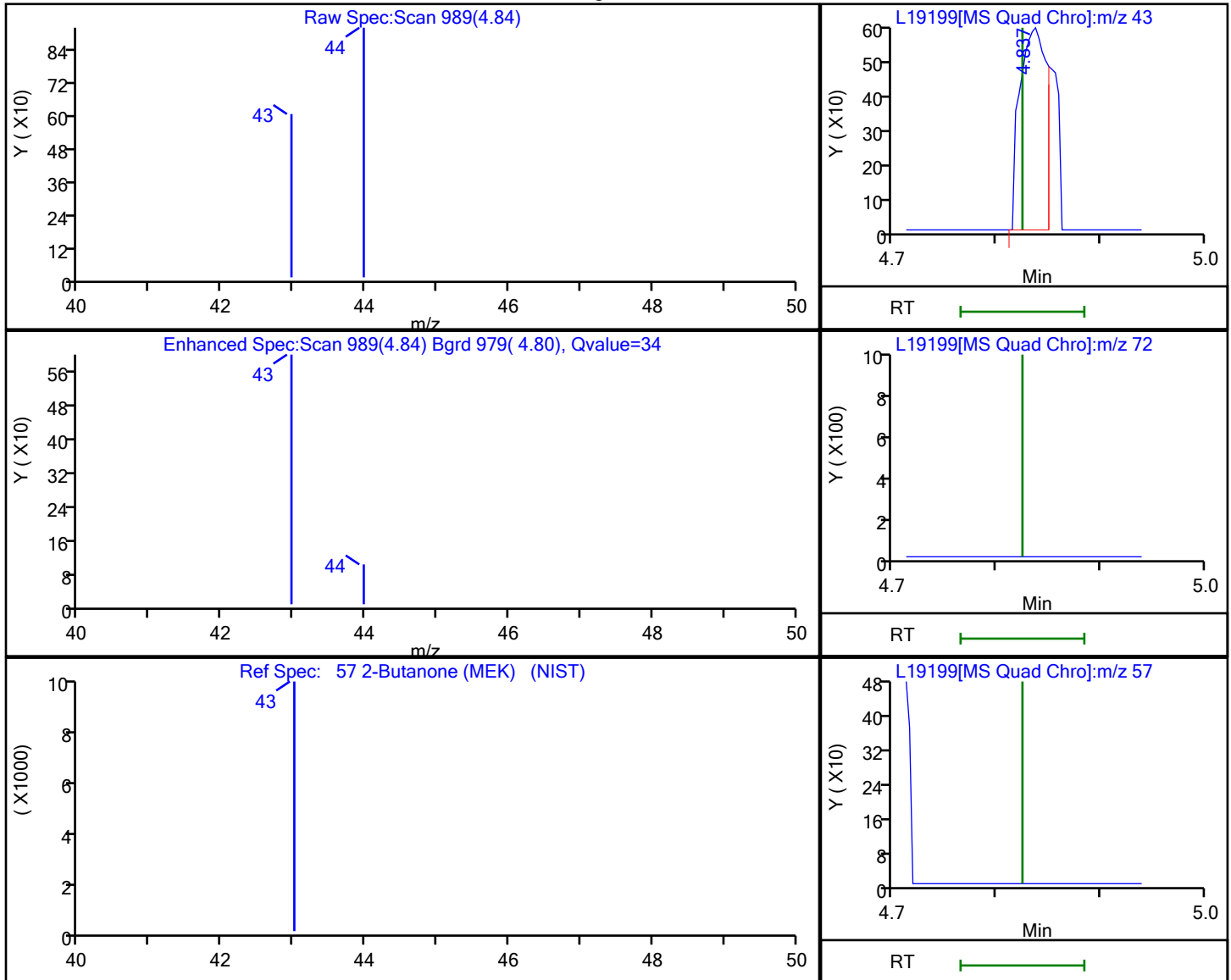
Audit Reason: Invalid Compound ID

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19199.D  
Injection Date: 16-Aug-2022 16:56:48 Instrument ID: HP5977L  
Lims ID: 480-200570-B-2 Lab Sample ID: 480-200570-2  
Client ID: WG-11230275-081022-KM-002  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 40.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

## 57 2-Butanone (MEK), CAS: 78-93-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.84 | 43.00 | 1070     | 0.181394 |
| 4.82 | 72.00 | 0        |          |
| 4.82 | 57.00 | 0        |          |

Reviewer: LS5G, 17-Aug-2022 10:11:19

Audit Action: Marked Compound Undetected

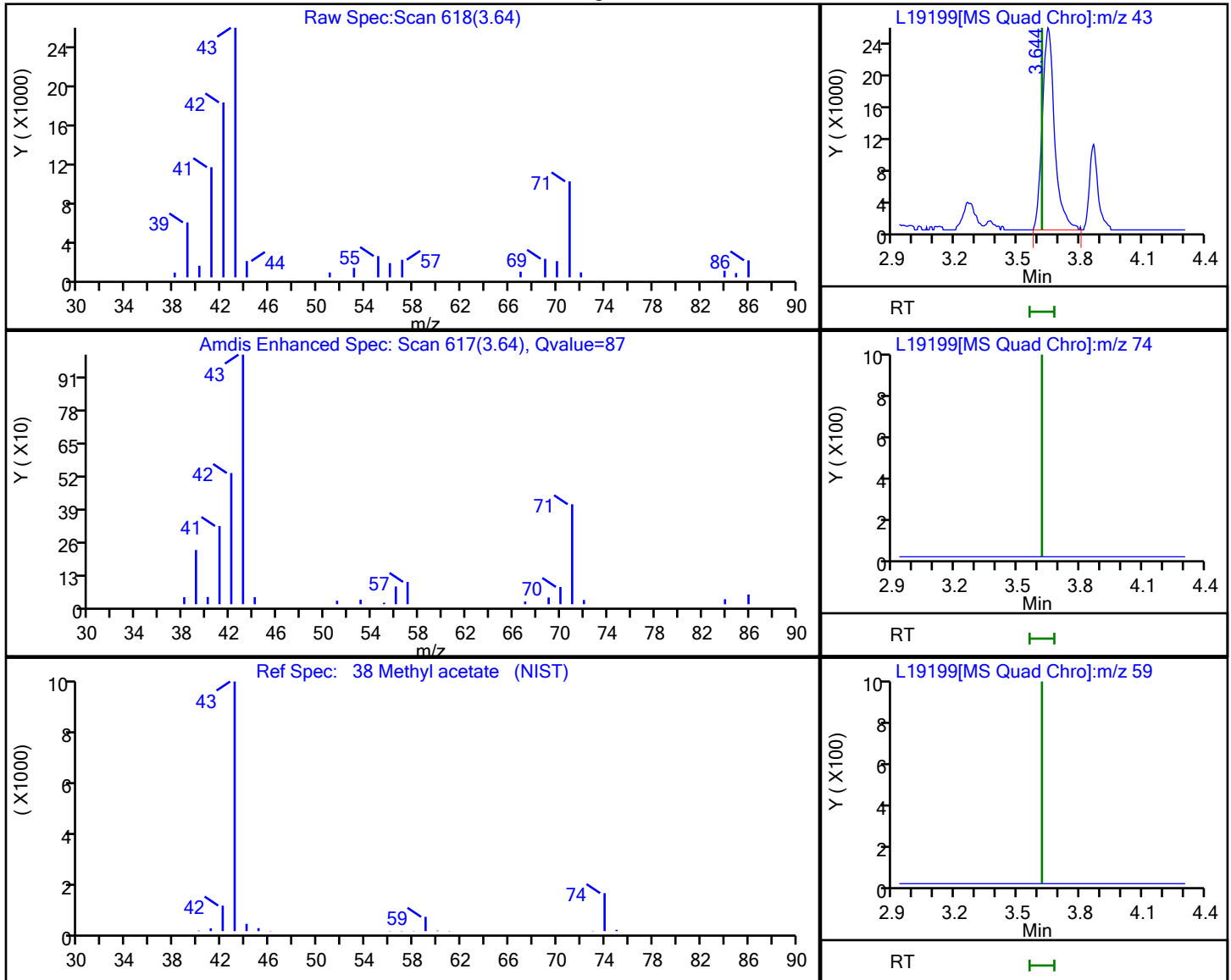
Audit Reason: Invalid Compound ID

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19199.D  
Injection Date: 16-Aug-2022 16:56:48 Instrument ID: HP5977L  
Lims ID: 480-200570-B-2 Lab Sample ID: 480-200570-2  
Client ID: WG-11230275-081022-KM-002  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 40.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector MS Quad

## 38 Methyl acetate, CAS: 79-20-9

## Processing Results



| RT   | Mass  | Response | Amount    |
|------|-------|----------|-----------|
| 3.64 | 43.00 | 105981   | 11.832614 |
| 3.62 | 74.00 | 0        |           |
| 3.62 | 59.00 | 0        |           |

Reviewer: LS5G, 17-Aug-2022 10:13:09

Audit Action: Marked Compound Undetected

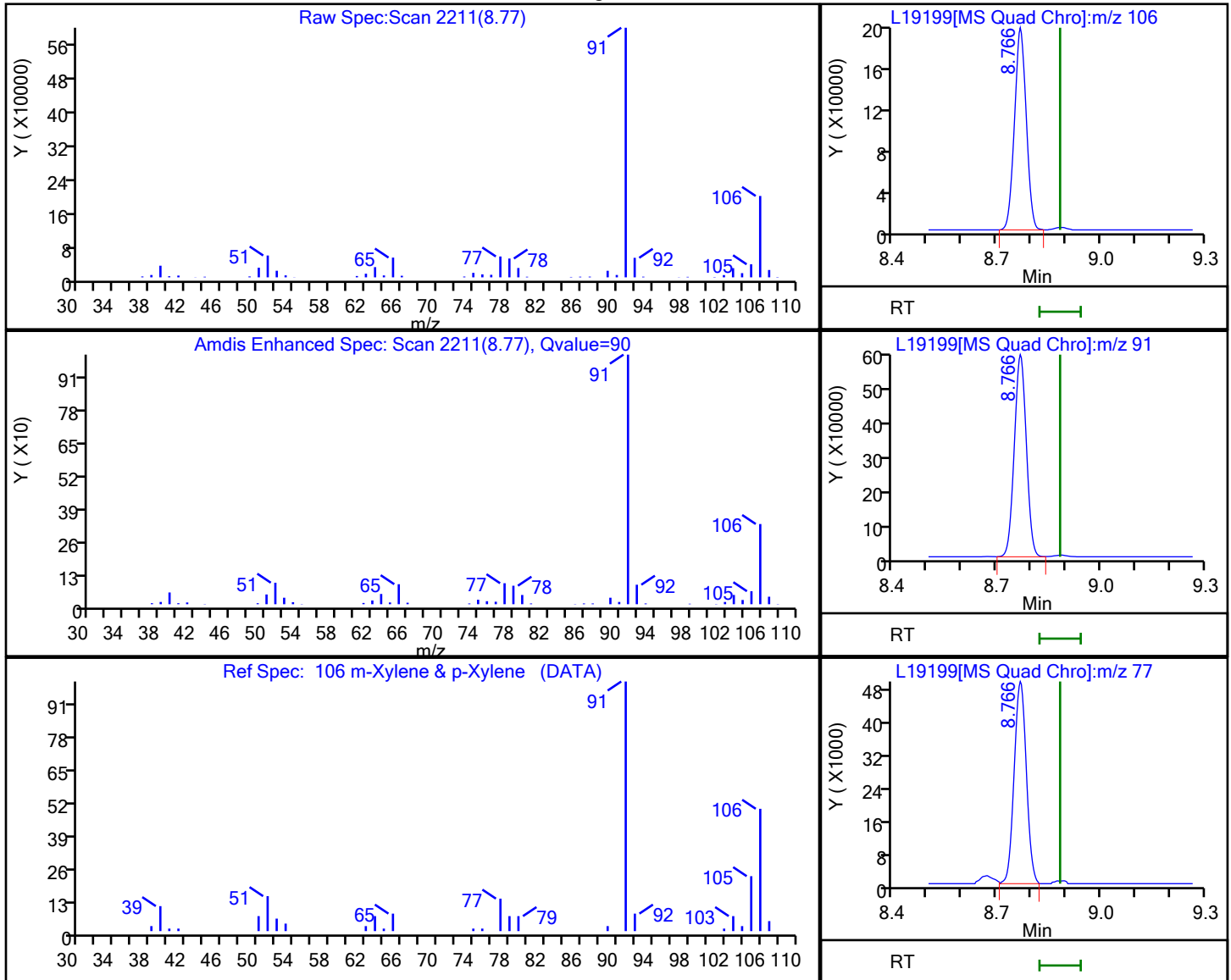
Audit Reason: Invalid Compound ID

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19199.D  
Injection Date: 16-Aug-2022 16:56:48 Instrument ID: HP5977L  
Lims ID: 480-200570-B-2 Lab Sample ID: 480-200570-2  
Client ID: WG-11230275-081022-KM-002  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 40.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector MS Quad

## 106 m-Xylene &amp; p-Xylene, CAS: 179601-23-1

## Processing Results



| RT   | Mass   | Response | Amount    |
|------|--------|----------|-----------|
| 8.77 | 106.00 | 457274   | 28.704320 |
| 8.77 | 91.00  | 1435585  |           |
| 8.77 | 77.00  | 121860   |           |

Reviewer: LS5G, 17-Aug-2022 10:12:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

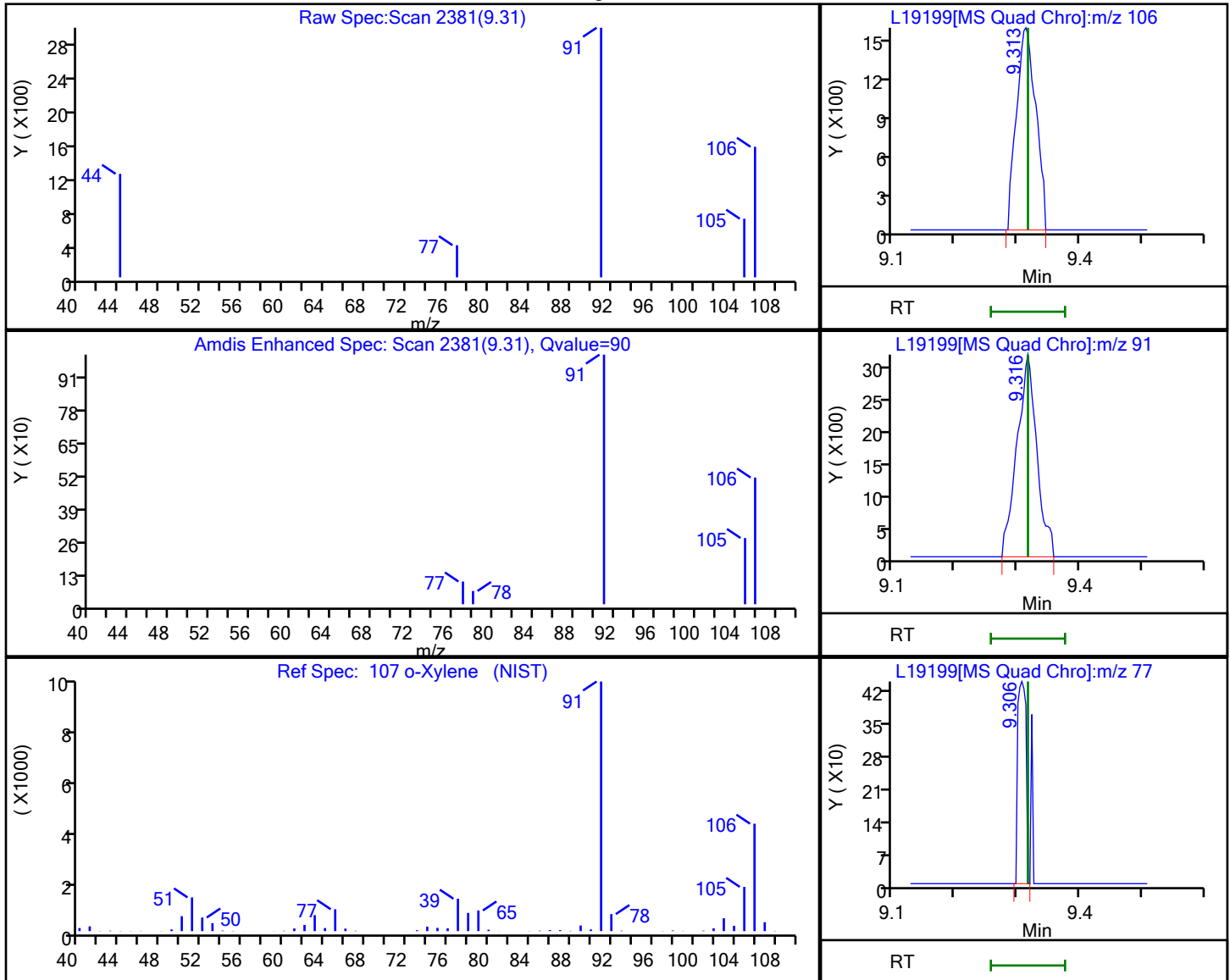


## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19199.D  
Injection Date: 16-Aug-2022 16:56:48 Instrument ID: HP5977L  
Lims ID: 480-200570-B-2 Lab Sample ID: 480-200570-2  
Client ID: WG-11230275-081022-KM-002  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 40.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

## 107 o-Xylene, CAS: 95-47-6

## Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 9.31 | 106.00 | 3397     | 0.217037 |
| 9.32 | 91.00  | 7061     |          |
| 9.31 | 77.00  | 397      |          |

Reviewer: LS5G, 17-Aug-2022 10:12:40

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: WG-11230275-081022-KM-003 Lab Sample ID: 480-200570-3

Matrix: Water Lab File ID: L19200.D

Analysis Method: 8260C Date Collected: 08/10/2022 14:30

Sample wt/vol: 5(mL) Date Analyzed: 08/16/2022 17:20

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637640 Units: ug/L

| CAS NO.    | COMPOUND NAME                         | RESULT | Q    | RL  | MDL |
|------------|---------------------------------------|--------|------|-----|-----|
| 71-55-6    | 1,1,1-Trichloroethane                 | 8.2    | U    | 10  | 8.2 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 2.1    | U    | 10  | 2.1 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 2.3    | U    | 10  | 2.3 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 3.1    | U    | 10  | 3.1 |
| 75-34-3    | 1,1-Dichloroethane                    | 3.8    | U ** | 10  | 3.8 |
| 75-35-4    | 1,1-Dichloroethene                    | 2.9    | U    | 10  | 2.9 |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 4.1    | U    | 10  | 4.1 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 3.9    | U    | 10  | 3.9 |
| 95-50-1    | 1,2-Dichlorobenzene                   | 7.9    | U    | 10  | 7.9 |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 4.1    | U    | 10  | 4.1 |
| 107-06-2   | 1,2-Dichloroethane                    | 2.1    | U    | 10  | 2.1 |
| 78-87-5    | 1,2-Dichloropropane                   | 7.2    | U    | 10  | 7.2 |
| 541-73-1   | 1,3-Dichlorobenzene                   | 7.8    | U    | 10  | 7.8 |
| 106-46-7   | 1,4-Dichlorobenzene                   | 8.4    | U    | 10  | 8.4 |
| 78-93-3    | 2-Butanone (MEK)                      | 13     | U ** | 100 | 13  |
| 591-78-6   | 2-Hexanone                            | 12     | U    | 50  | 12  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 21     | U    | 50  | 21  |
| 67-64-1    | Acetone                               | 51     | J    | 100 | 30  |
| 71-43-2    | Benzene                               | 120    |      | 10  | 4.1 |
| 75-27-4    | Bromodichloromethane                  | 3.9    | U    | 10  | 3.9 |
| 75-25-2    | Bromoform                             | 2.6    | U    | 10  | 2.6 |
| 74-83-9    | Bromomethane                          | 6.9    | U    | 10  | 6.9 |
| 75-15-0    | Carbon disulfide                      | 1.9    | U    | 10  | 1.9 |
| 56-23-5    | Carbon tetrachloride                  | 2.7    | U    | 10  | 2.7 |
| 108-90-7   | Chlorobenzene                         | 7.5    | U    | 10  | 7.5 |
| 124-48-1   | Dibromochloromethane                  | 3.2    | U    | 10  | 3.2 |
| 75-00-3    | Chloroethane                          | 3.2    | U    | 10  | 3.2 |
| 67-66-3    | Chloroform                            | 3.4    | U    | 10  | 3.4 |
| 74-87-3    | Chloromethane                         | 3.5    | U    | 10  | 3.5 |
| 156-59-2   | cis-1,2-Dichloroethene                | 8.1    | U    | 10  | 8.1 |
| 10061-01-5 | cis-1,3-Dichloropropene               | 3.6    | U    | 10  | 3.6 |
| 110-82-7   | Cyclohexane                           | 130    |      | 10  | 1.8 |
| 75-71-8    | Dichlorodifluoromethane               | 6.8    | U    | 10  | 6.8 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: WG-11230275-081022-KM-003 Lab Sample ID: 480-200570-3  
 Matrix: Water Lab File ID: L19200.D  
 Analysis Method: 8260C Date Collected: 08/10/2022 14:30  
 Sample wt/vol: 5(mL) Date Analyzed: 08/16/2022 17:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (30) VOA ID: 0.25(mm)  
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 637640 Units: ug/L

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL | MDL |
|------------|---------------------------|--------|---|----|-----|
| 100-41-4   | Ethylbenzene              | 1400   | E | 10 | 7.4 |
| 106-93-4   | 1,2-Dibromoethane         | 7.3    | U | 10 | 7.3 |
| 98-82-8    | Isopropylbenzene          | 260    |   | 10 | 7.9 |
| 79-20-9    | Methyl acetate            | 13     | U | 25 | 13  |
| 1634-04-4  | Methyl tert-butyl ether   | 1.6    | U | 10 | 1.6 |
| 108-87-2   | Methylcyclohexane         | 21     |   | 10 | 1.6 |
| 75-09-2    | Methylene Chloride        | 4.4    | U | 10 | 4.4 |
| 100-42-5   | Styrene                   | 7.3    | U | 10 | 7.3 |
| 127-18-4   | Tetrachloroethene         | 3.6    | U | 10 | 3.6 |
| 108-88-3   | Toluene                   | 6.9    | J | 10 | 5.1 |
| 156-60-5   | trans-1,2-Dichloroethene  | 9.0    | U | 10 | 9.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 3.7    | U | 10 | 3.7 |
| 79-01-6    | Trichloroethene           | 4.6    | U | 10 | 4.6 |
| 75-69-4    | Trichlorofluoromethane    | 8.8    | U | 10 | 8.8 |
| 75-01-4    | Vinyl chloride            | 9.0    | U | 10 | 9.0 |
| 1330-20-7  | Xylenes, Total            | 15     | J | 20 | 6.6 |
| 74-97-5    | Chlorobromomethane        | 8.7    | U | 10 | 8.7 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 108  |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 98   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D  
 Lims ID: 480-200570-B-3  
 Client ID: WG-11230275-081022-KM-003  
 Sample Type: Client  
 Inject. Date: 16-Aug-2022 17:20:31 ALS Bottle#: 0 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 10.0000  
 Sample Info: 480-200570-B-3  
 Misc. Info.: 480-0107114-011  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:18:16 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 10:18:16

| Compound                                 | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ug/L | Flags |
|------------------------------------------|-----|-----------|---------------|---------------|----|----------|----------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776     | 5.773         | 0.003         | 99 | 138899   | 25.0           |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.667     | 8.666         | 0.001         | 85 | 593216   | 25.0           |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.062    | 11.062        | 0.000         | 94 | 329231   | 25.0           |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226     | 5.229         | 0.000         | 94 | 173718   | 24.6           |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.528     | 5.525         | 0.003         | 95 | 216233   | 27.1           |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.207     | 7.206         | 0.004         | 94 | 707270   | 23.9           |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911     | 9.914         | 0.000         | 99 | 227694   | 24.6           |       |
| 10 Dichlorodifluoromethane               | 85  |           | 1.770         |               |    |          | ND             |       |
| 13 Chloromethane                         | 50  |           | 2.004         |               |    |          | ND             |       |
| 14 Vinyl chloride                        | 62  |           | 2.107         |               |    |          | ND             |       |
| 18 Bromomethane                          | 94  |           | 2.480         |               |    |          | ND             |       |
| 19 Chloroethane                          | 64  |           | 2.564         |               |    |          | ND             |       |
| 21 Trichlorofluoromethane                | 101 |           | 2.779         |               |    |          | ND             |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 |           | 3.249         |               |    |          | ND             |       |
| 30 1,1-Dichloroethene                    | 96  |           | 3.252         |               |    |          | ND             |       |
| 31 Acetone                               | 43  | 3.358     | 3.358         | 0.000         | 90 | 15372    | 5.06           |       |
| 35 Carbon disulfide                      | 76  |           | 3.477         |               |    |          | ND             |       |
| 38 Methyl acetate                        | 43  |           | 3.615         |               |    |          | ND             | U     |
| 39 Methylene Chloride                    | 84  |           | 3.721         |               |    |          | ND             | U     |
| 41 Methyl tert-butyl ether               | 73  |           | 3.901         |               |    |          | ND             |       |
| 42 trans-1,2-Dichloroethene              | 96  |           | 3.927         |               |    |          | ND             |       |
| 50 1,1-Dichloroethane                    | 63  |           | 4.306         |               |    |          | ND             |       |
| 58 cis-1,2-Dichloroethene                | 96  |           | 4.808         |               |    |          | ND             |       |
| 57 2-Butanone (MEK)                      | 43  | 4.837     | 4.837         | 0.013         | 98 | 6873     | 1.20           | M     |
| 60 Chlorobromomethane                    | 128 |           | 5.030         |               |    |          | ND             |       |
| 62 Chloroform                            | 83  |           | 5.078         |               |    |          | ND             |       |
| 64 1,1,1-Trichloroethane                 | 97  |           | 5.207         |               |    |          | ND             |       |
| 65 Cyclohexane                           | 56  | 5.217     | 5.217         | -0.006        | 82 | 158239   | 13.3           | a     |
| 66 Carbon tetrachloride                  | 117 |           | 5.339         |               |    |          | ND             |       |
| 70 Benzene                               | 78  | 5.541     | 5.538         | 0.003         | 96 | 375727   | 11.9           |       |
| 72 1,2-Dichloroethane                    | 62  |           | 5.593         |               |    |          | ND             |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|----------------|-------|
| 75 Trichloroethene              | 95  |           | 6.091         |               |    |          | ND             |       |
| 76 Methylcyclohexane            | 83  | 6.217     | 6.217         | 0.001         | 82 | 27795    | 2.11           | a     |
| 77 1,2-Dichloropropane          | 63  |           | 6.329         |               |    |          | ND             |       |
| 83 Dichlorobromomethane         | 83  |           | 6.586         |               |    |          | ND             | 7     |
| 85 cis-1,3-Dichloropropene      | 75  |           | 6.982         |               |    |          | ND             |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  |           | 7.097         |               |    |          | ND             |       |
| 88 Toluene                      | 92  | 7.274     | 7.270         | 0.006         | 98 | 15059    | 0.6899         |       |
| 91 trans-1,3-Dichloropropene    | 75  |           | 7.519         |               |    |          | ND             |       |
| 93 1,1,2-Trichloroethane        | 83  |           | 7.712         |               |    |          | ND             |       |
| 94 Tetrachloroethene            | 166 |           | 7.792         |               |    |          | ND             |       |
| 96 2-Hexanone                   | 43  |           | 7.908         |               |    |          | ND             |       |
| 98 Chlorodibromomethane         | 129 |           | 8.117         |               |    |          | ND             |       |
| 101 Ethylene Dibromide          | 107 |           | 8.242         |               |    |          | ND             |       |
| 103 Chlorobenzene               | 112 |           | 8.695         |               |    |          | ND             |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.769         | 0.000         | 98 | 5362677  | 135.7          | E     |
| 106 m-Xylene & p-Xylene         | 106 | 8.885     | 8.766         | 0.003         | 98 | 24253    | 1.55           |       |
| 107 o-Xylene                    | 106 | 9.313     | 9.319         | -0.003        | 96 | 11529    | 0.7495         |       |
| 109 Styrene                     | 104 |           | 9.342         |               |    |          | ND             |       |
| 110 Bromoform                   | 173 |           | 9.615         |               |    |          | ND             |       |
| 111 Isopropylbenzene            | 105 | 9.686     | 9.686         | 0.000         | 95 | 1107364  | 26.4           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  |           | 10.094        |               |    |          | ND             |       |
| 124 1,3-Dichlorobenzene         | 146 |           | 11.001        |               |    |          | ND             |       |
| 126 1,4-Dichlorobenzene         | 146 |           | 11.084        |               |    |          | ND             |       |
| 128 1,2-Dichlorobenzene         | 146 |           | 11.435        |               |    |          | ND             |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  |           | 12.136        |               |    |          | ND             |       |
| 130 1,2,4-Trichlorobenzene      | 180 |           | 12.760        |               |    |          | ND             |       |
| 133 1,2,3-Trichlorobenzene      | 180 |           | 13.178        |               |    |          | ND             |       |
| S 143 Xylenes, Total            | 1   |           |               |               | 0  |          | 2.30           |       |

**QC Flag Legend**

## Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

## Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

**Reagents:**

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D

Injection Date: 16-Aug-2022 17:20:31

Instrument ID: HP5977L

Lims ID: 480-200570-B-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 11

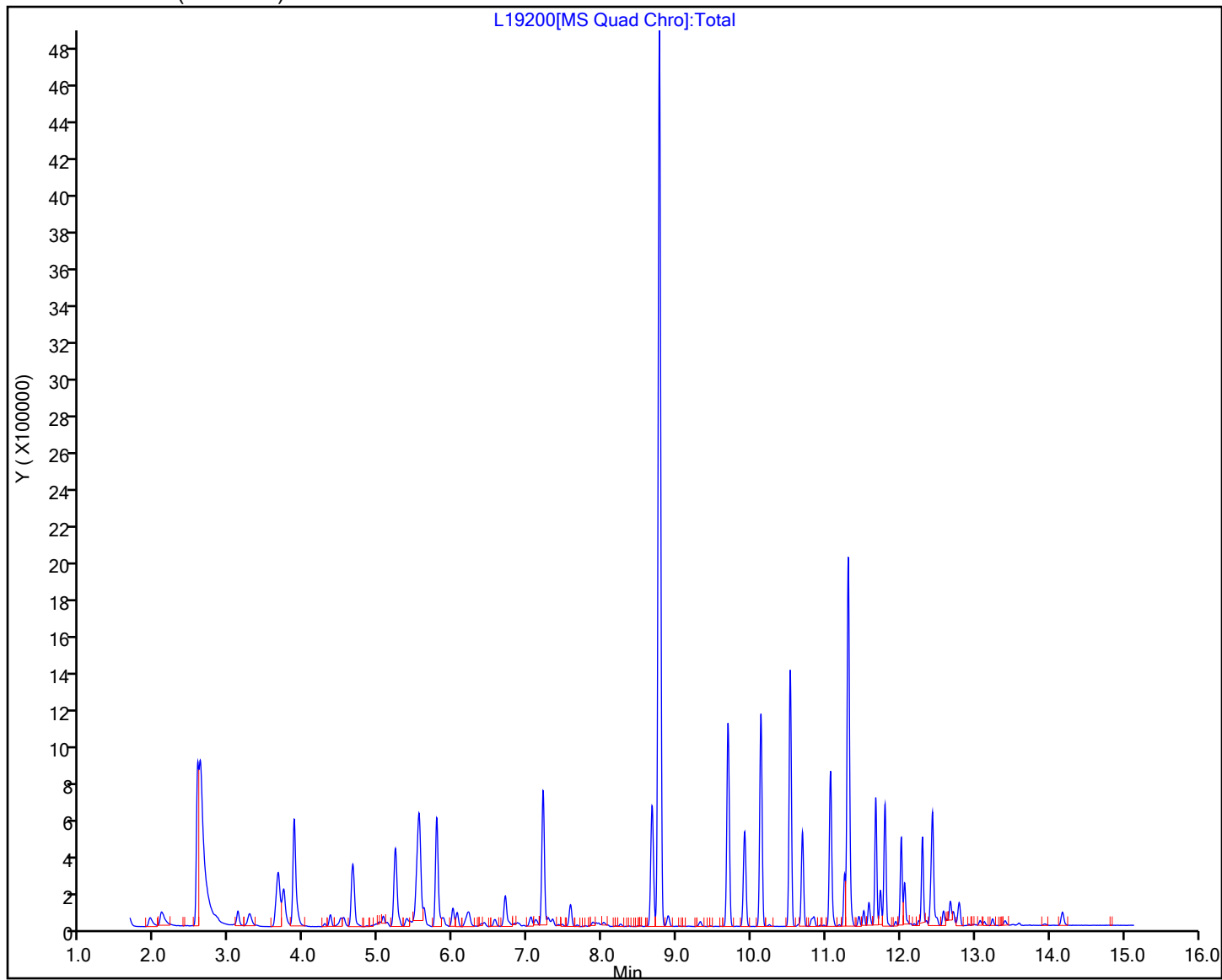
Purge Vol: 5.000 mL

Dil. Factor: 10.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D  
 Lims ID: 480-200570-B-3  
 Client ID: WG-11230275-081022-KM-003  
 Sample Type: Client  
 Inject. Date: 16-Aug-2022 17:20:31 ALS Bottle#: 0 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 10.0000  
 Sample Info: 480-200570-B-3  
 Misc. Info.: 480-0107114-011  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:18:16 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 10:18:16

| Compound                          | Amount Added | Amount Recovered | % Rec. |
|-----------------------------------|--------------|------------------|--------|
| \$ 4 Dibromofluoromethane (Surr)  | 25.0         | 24.6             | 98.52  |
| \$ 5 1,2-Dichloroethane-d4 (Surr) | 25.0         | 27.1             | 108.25 |
| \$ 6 Toluene-d8 (Surr)            | 25.0         | 23.9             | 95.53  |
| \$ 7 4-Bromofluorobenzene (Surr)  | 25.0         | 24.6             | 98.26  |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D

Injection Date: 16-Aug-2022 17:20:31

Instrument ID: HP5977L

Lims ID: 480-200570-B-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

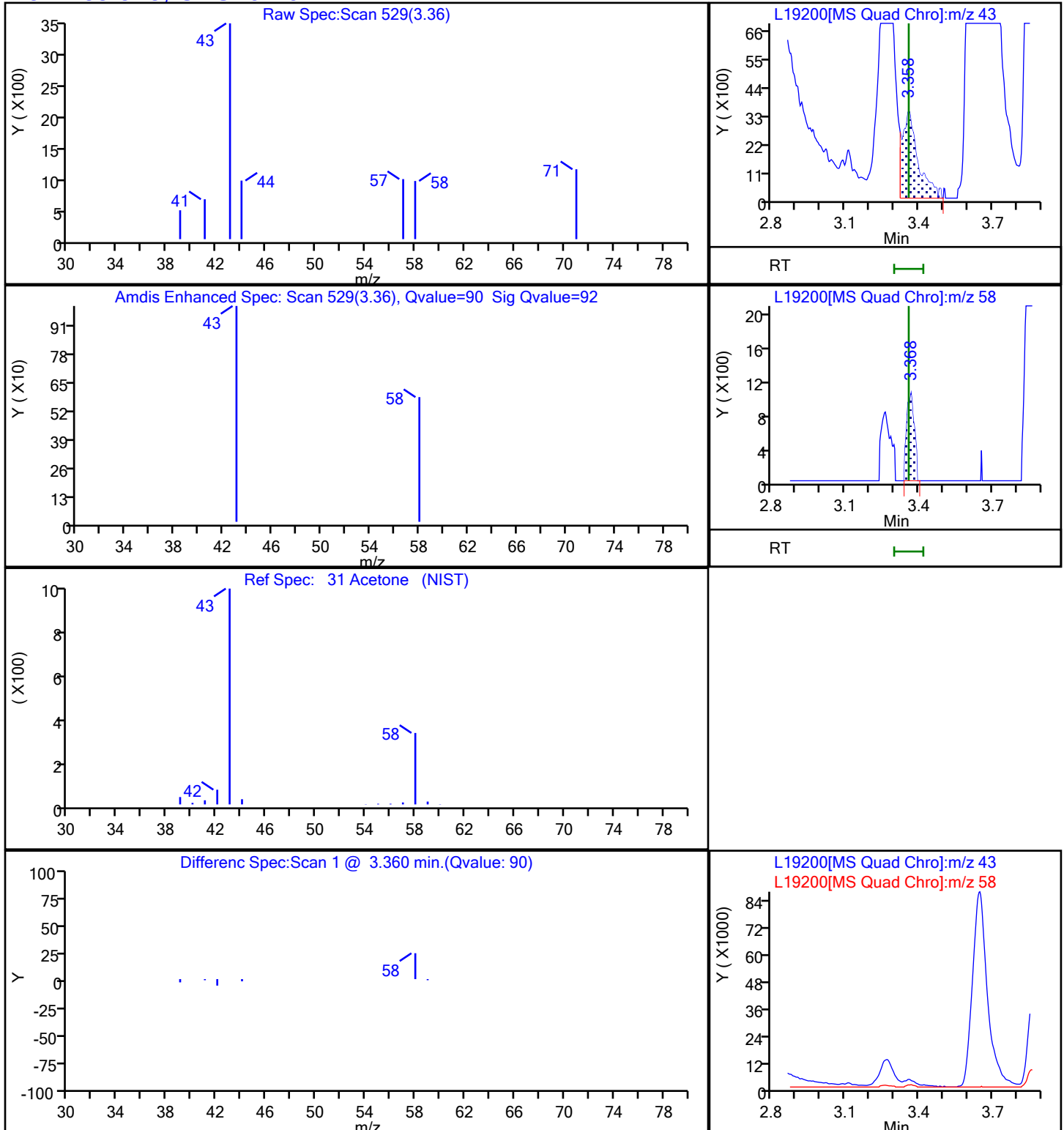
Dil. Factor: 10.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

**31 Acetone, CAS: 67-64-1**



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D

Injection Date: 16-Aug-2022 17:20:31

Instrument ID: HP5977L

Lims ID: 480-200570-B-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

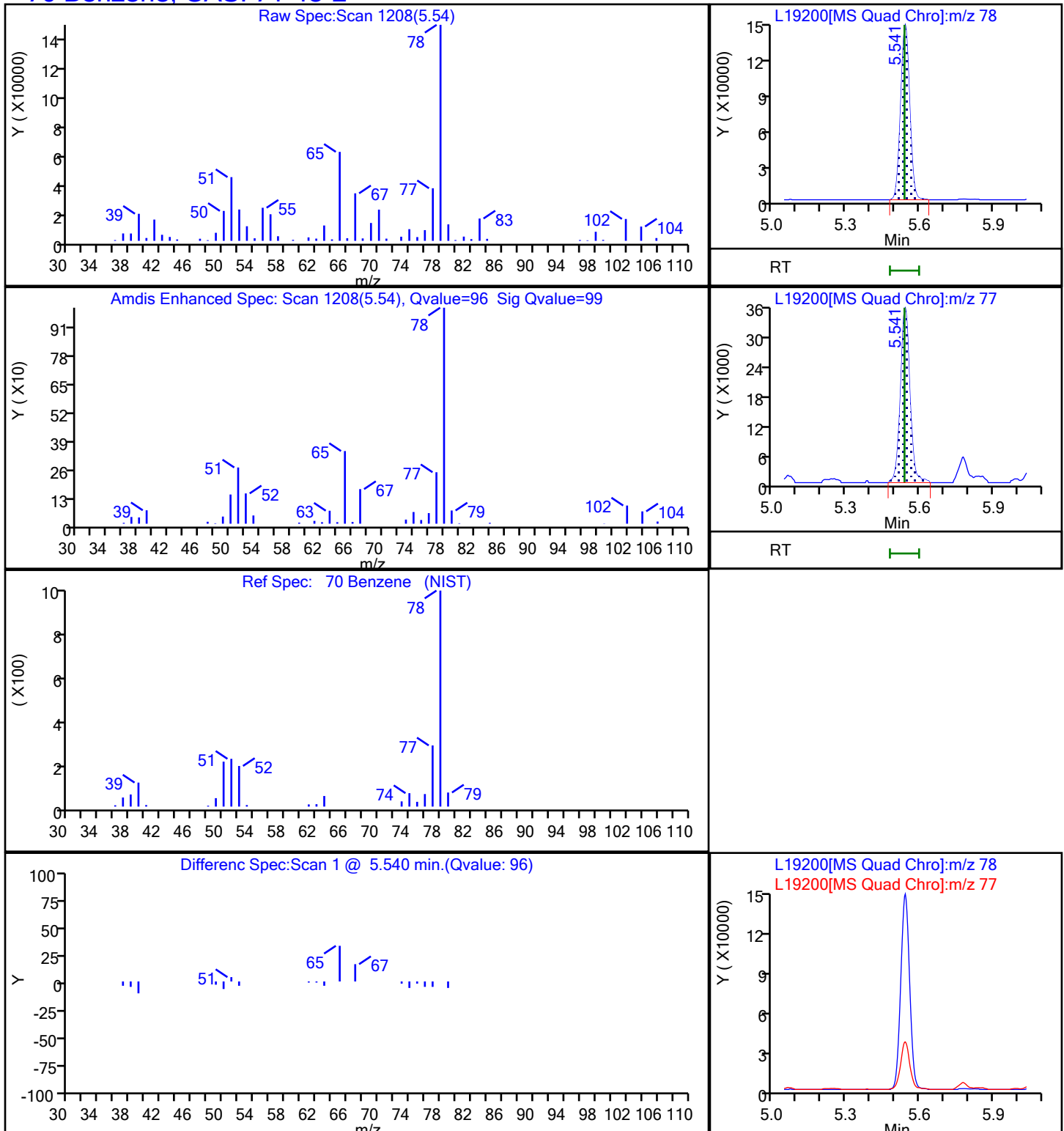
Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

## 70 Benzene, CAS: 71-43-2



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D

Injection Date: 16-Aug-2022 17:20:31

Instrument ID: HP5977L

Lims ID: 480-200570-B-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

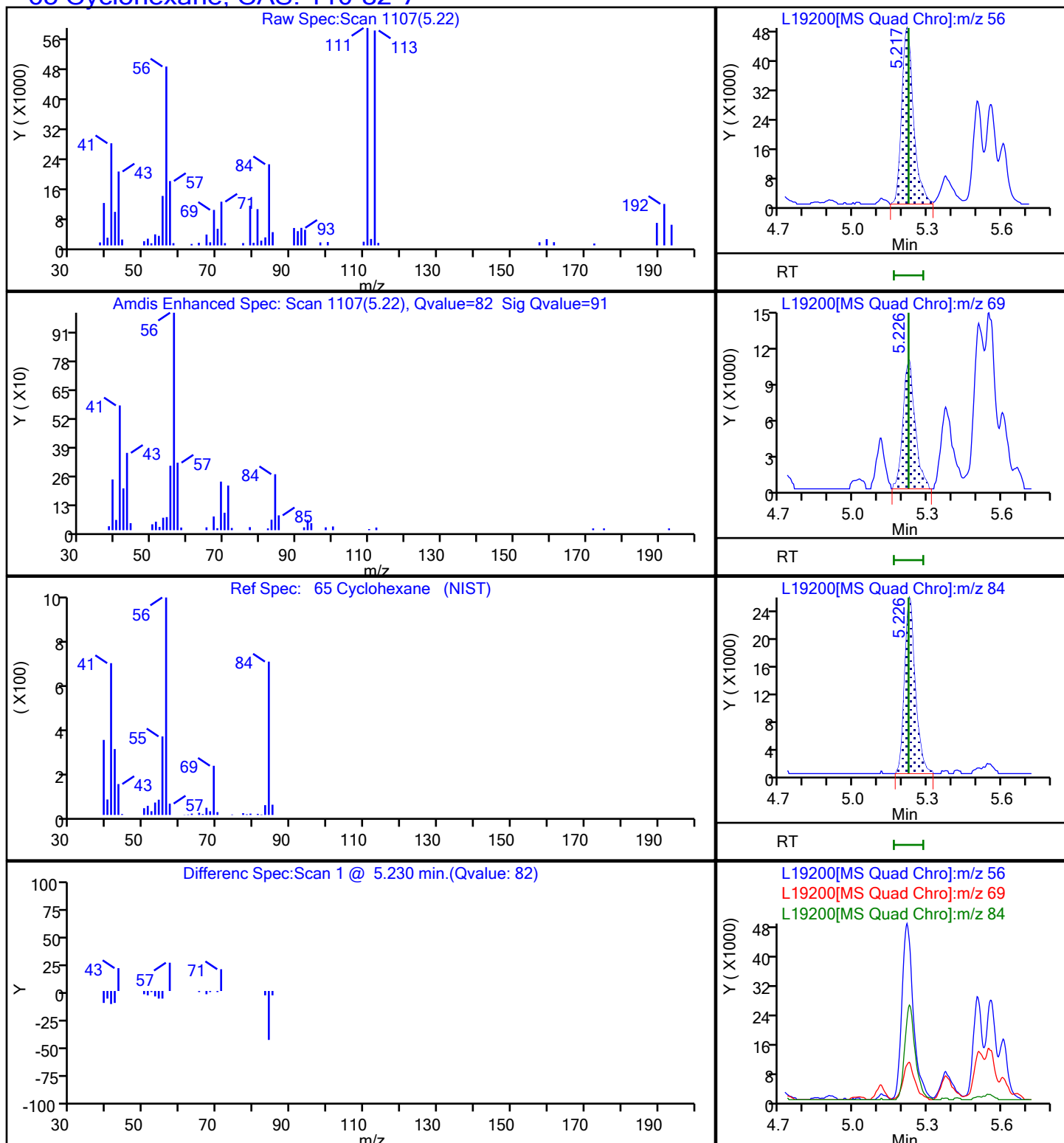
Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

## 65 Cyclohexane, CAS: 110-82-7



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D

Injection Date: 16-Aug-2022 17:20:31

Instrument ID: HP5977L

Lims ID: 480-200570-B-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

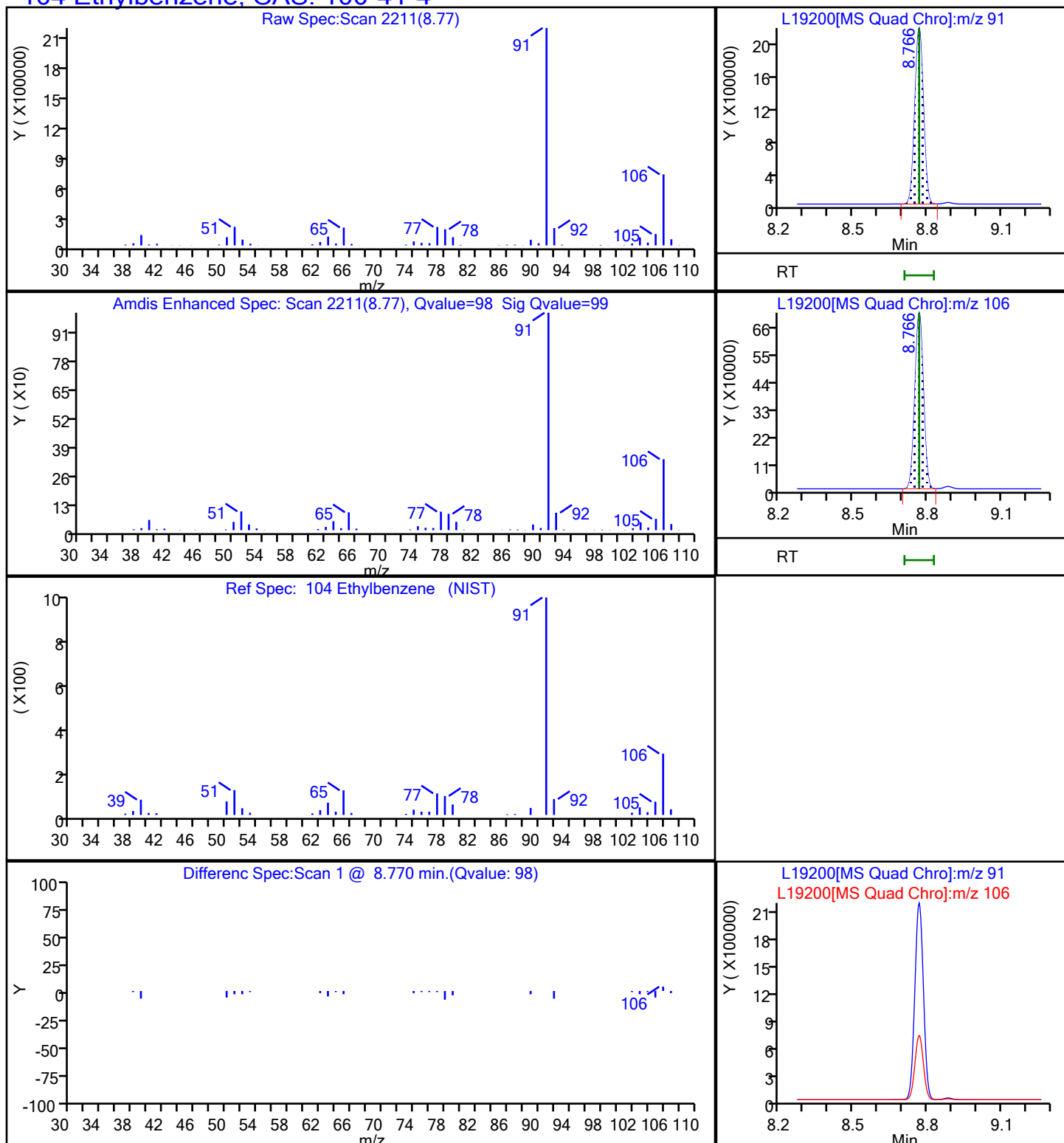
Dil. Factor: 10.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

**104 Ethylbenzene, CAS: 100-41-4**

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D

Injection Date: 16-Aug-2022 17:20:31

Instrument ID: HP5977L

Lims ID: 480-200570-B-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

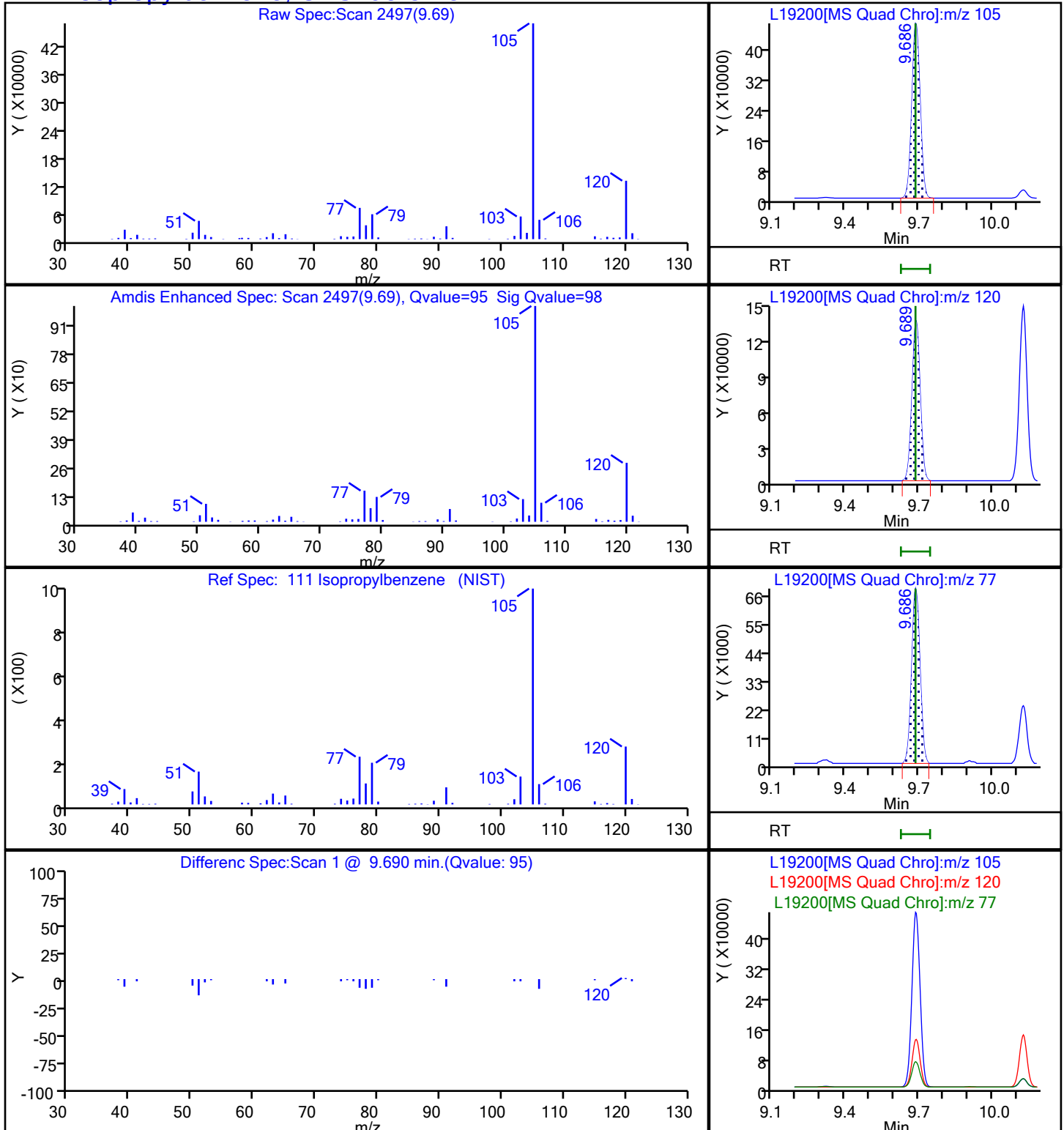
Dil. Factor: 10.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

**111 Isopropylbenzene, CAS: 98-82-8**

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D

Injection Date: 16-Aug-2022 17:20:31

Instrument ID: HP5977L

Lims ID: 480-200570-B-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

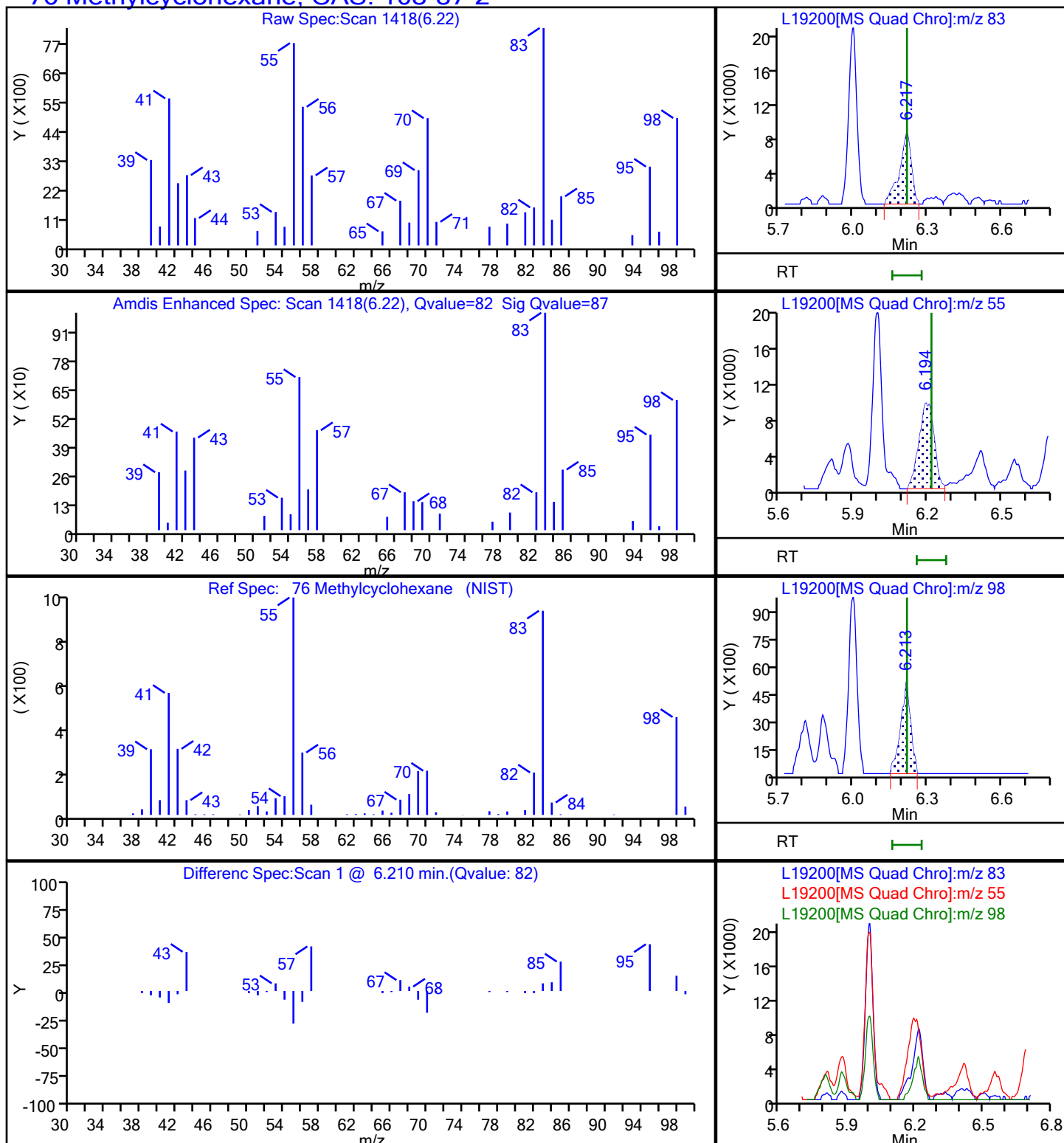
Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

## 76 Methylcyclohexane, CAS: 108-87-2



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D

Injection Date: 16-Aug-2022 17:20:31

Instrument ID: HP5977L

Lims ID: 480-200570-B-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

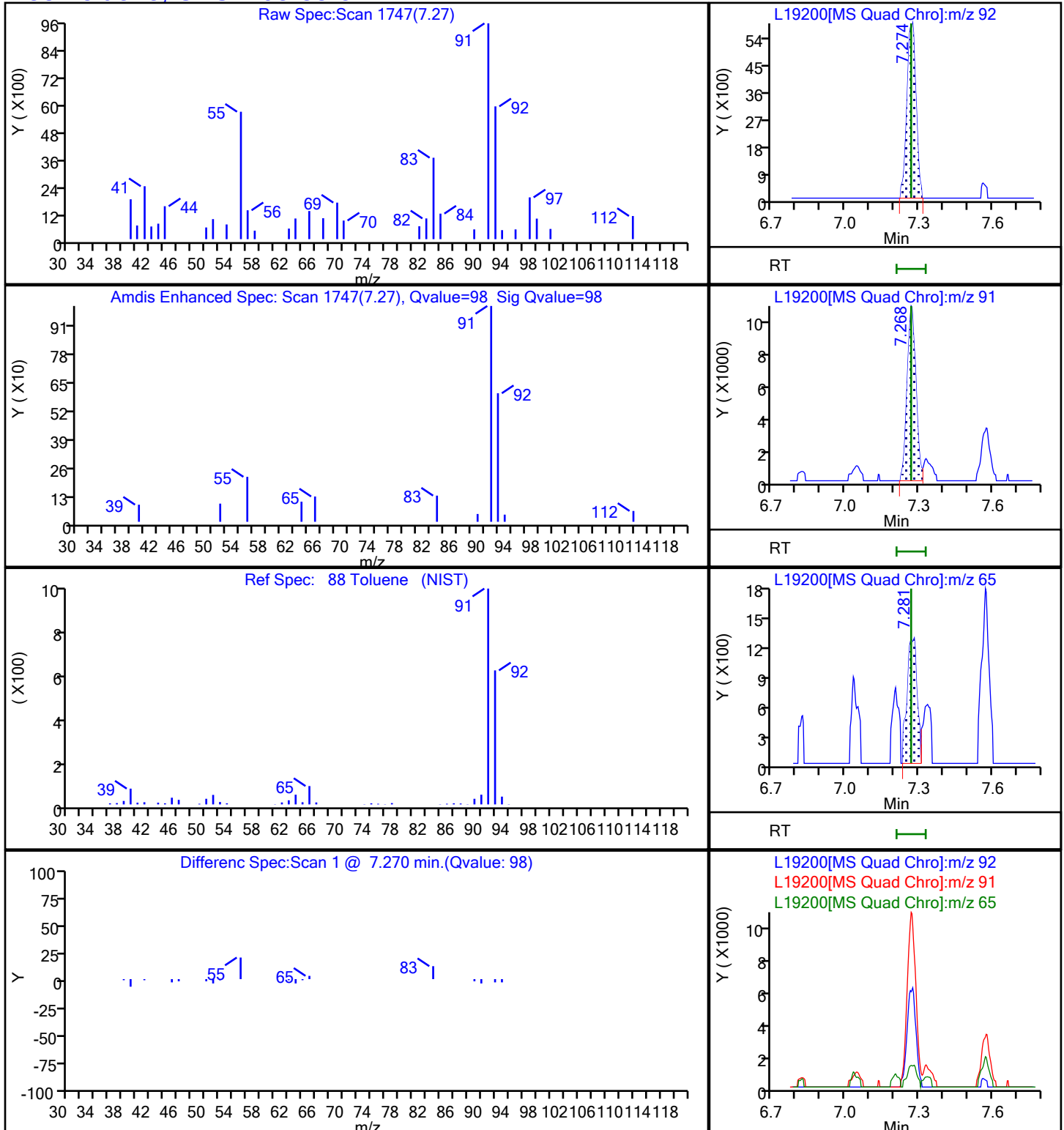
Dil. Factor: 10.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

**88 Toluene, CAS: 108-88-3**

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D

Injection Date: 16-Aug-2022 17:20:31

Instrument ID: HP5977L

Lims ID: 480-200570-B-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

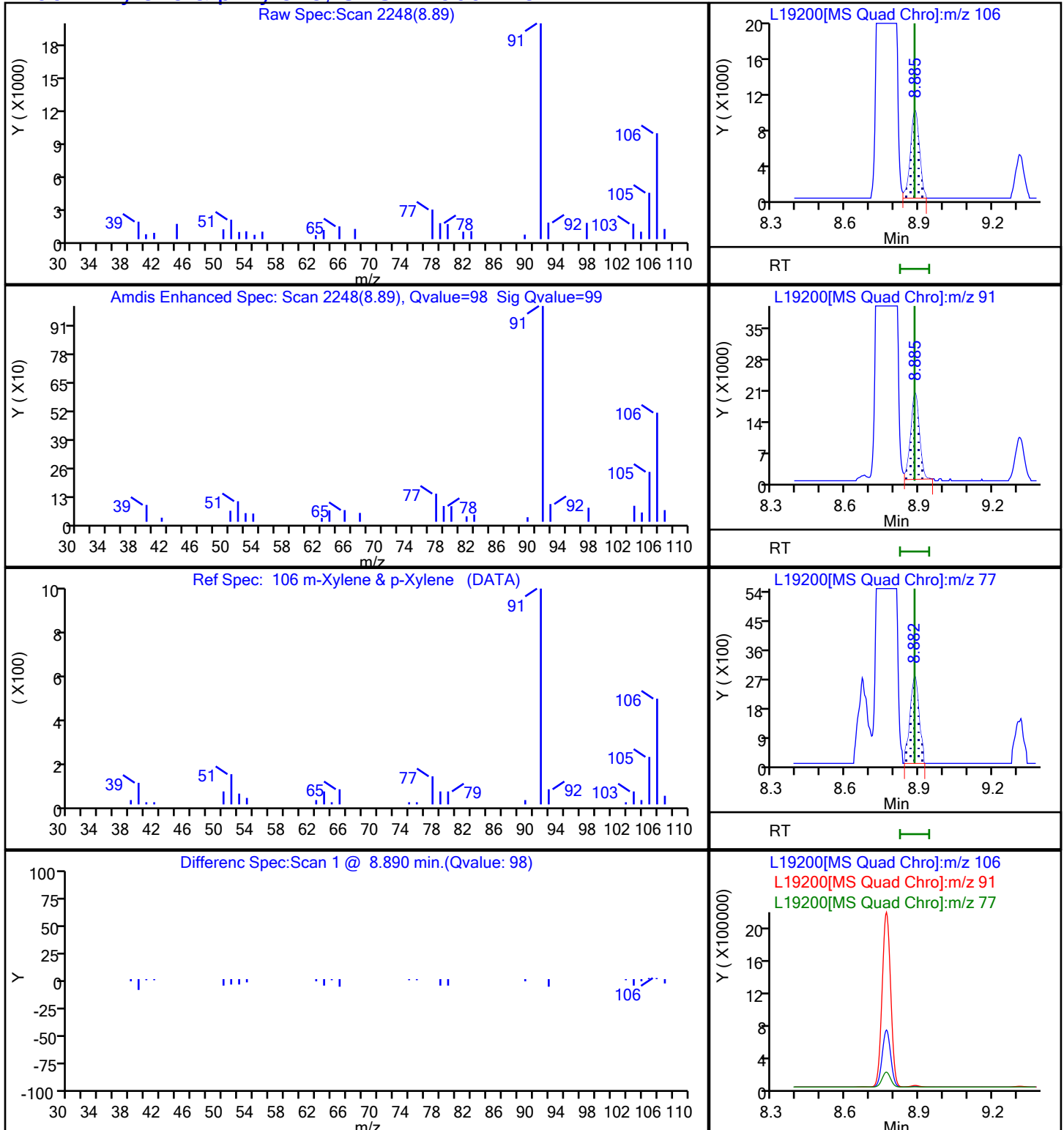
Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

## 106 m-Xylene &amp; p-Xylene, CAS: 179601-23-1



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D

Injection Date: 16-Aug-2022 17:20:31

Instrument ID: HP5977L

Lims ID: 480-200570-B-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

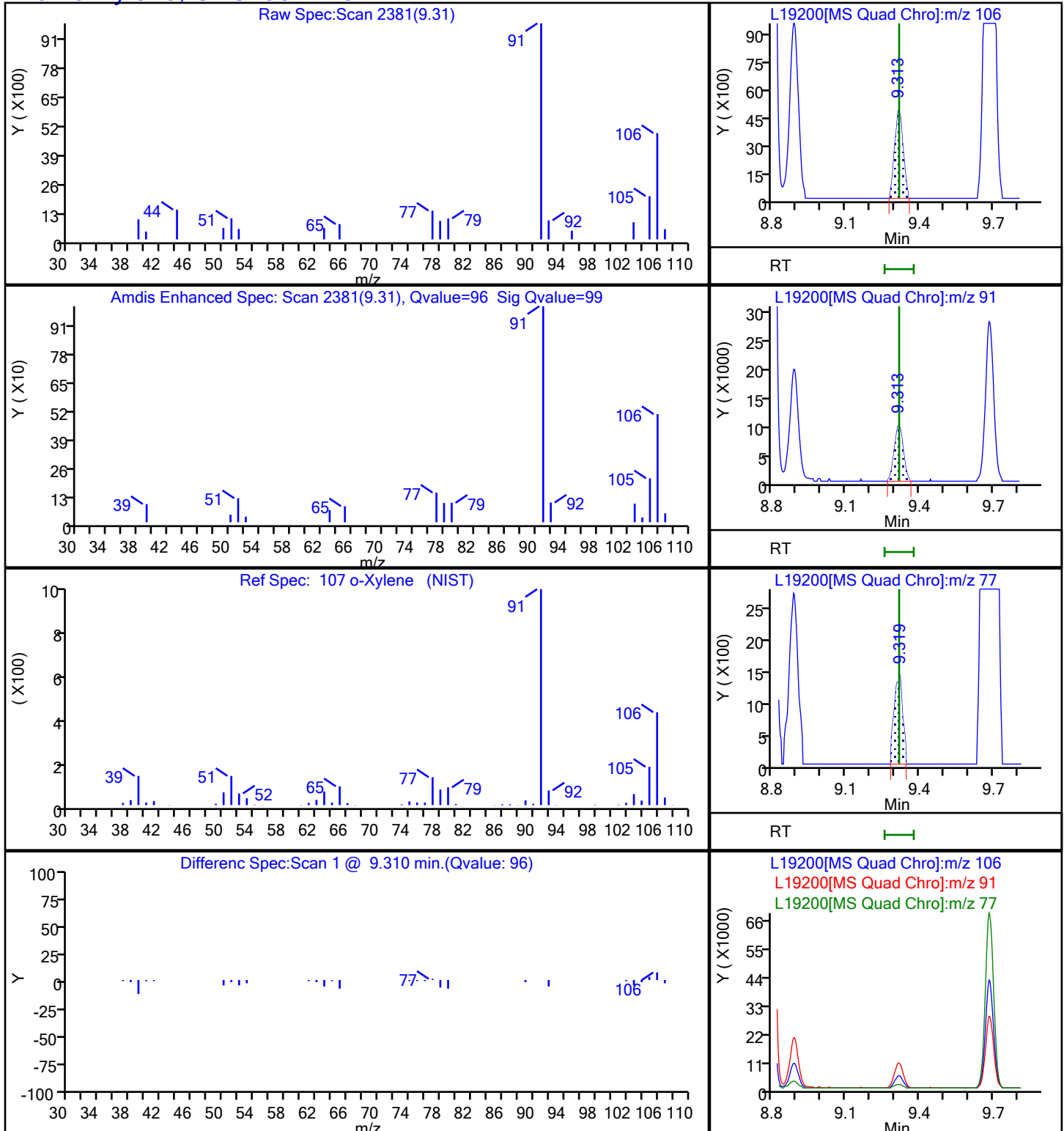
Dil. Factor: 10.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

**107 o-Xylene, CAS: 95-47-6**



## Eurofins Buffalo

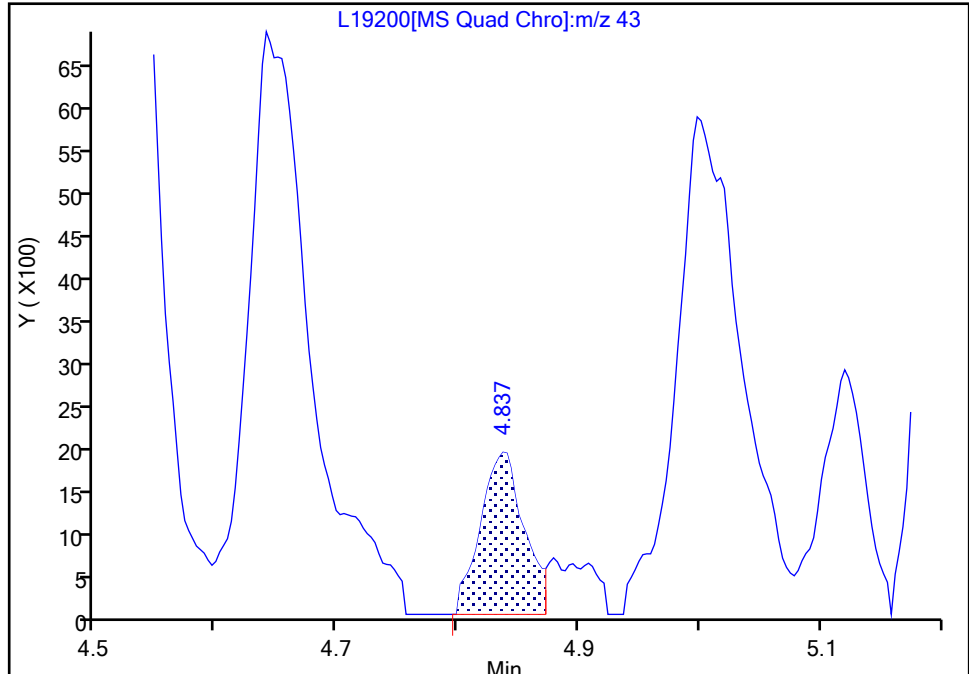
|                 |                                                                |                |                 |                |    |
|-----------------|----------------------------------------------------------------|----------------|-----------------|----------------|----|
| Data File:      | \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D |                |                 |                |    |
| Injection Date: | 16-Aug-2022 17:20:31                                           | Instrument ID: | HP5977L         |                |    |
| Lims ID:        | 480-200570-B-3                                                 | Lab Sample ID: | 480-200570-3    |                |    |
| Client ID:      | WG-11230275-081022-KM-003                                      |                |                 |                |    |
| Operator ID:    | CR/CB                                                          | ALS Bottle#:   | 0               | Worklist Smp#: | 11 |
| Purge Vol:      | 5.000 mL                                                       | Dil. Factor:   | 10.0000         |                |    |
| Method:         | L-8260                                                         | Limit Group:   | MV - 8260C ICAL |                |    |
| Column:         | ZB-624 ( 0.25 mm)                                              | Detector:      | MS Quad         |                |    |

**57 2-Butanone (MEK), CAS: 78-93-3**

Signal: 1

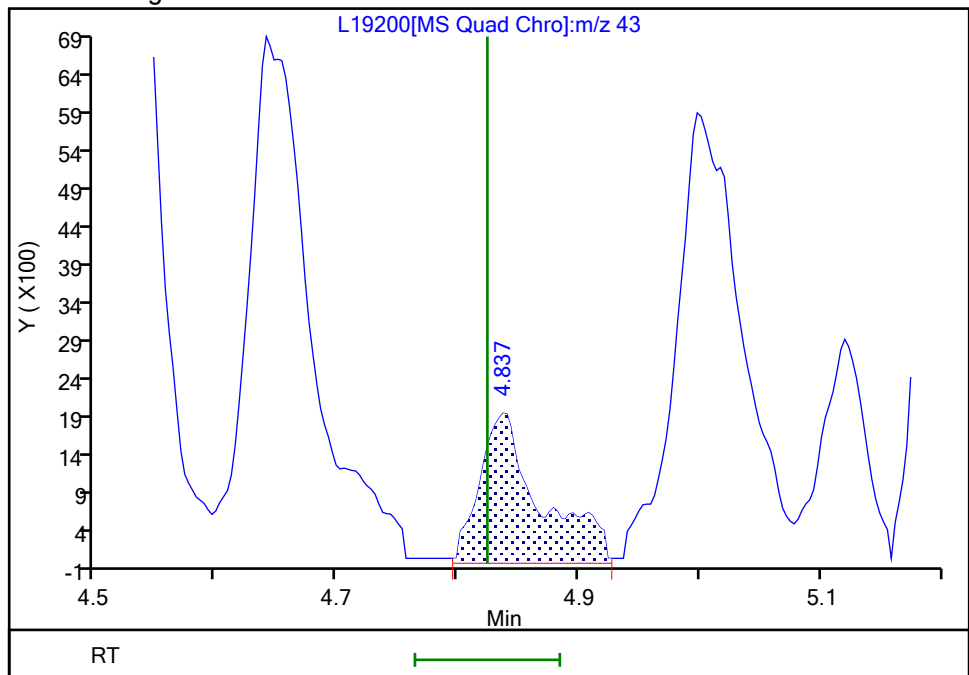
RT: 4.84  
Area: 4784  
Amount: 0.837878  
Amount Units: ug/L

## Processing Integration Results



RT: 4.84  
Area: 6873  
Amount: 1.203749  
Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 17-Aug-2022 10:16:49  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 147 of 733

## Eurofins Buffalo

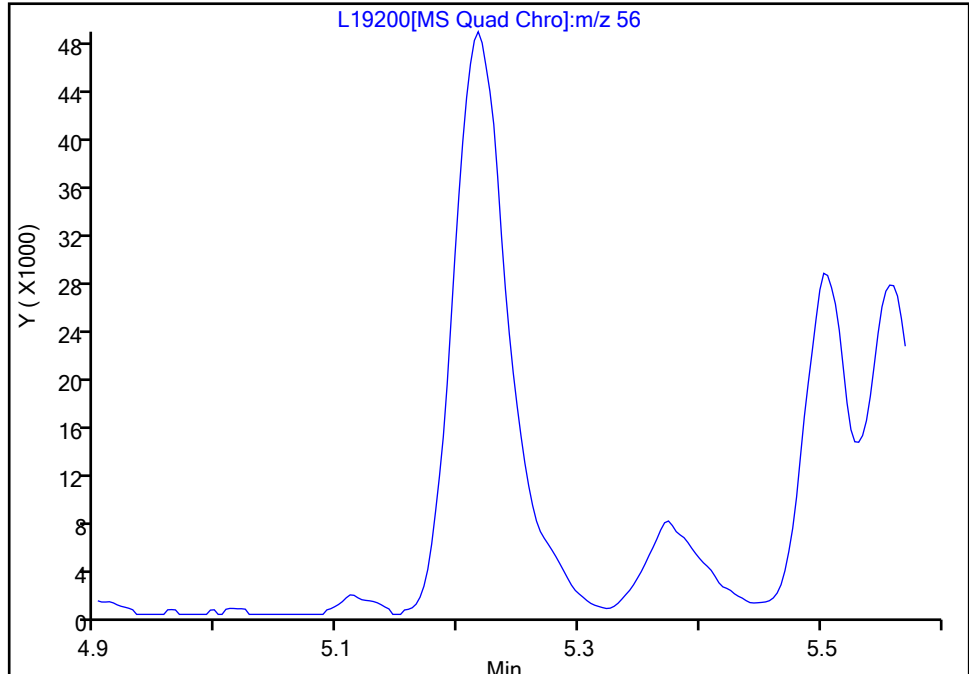
|                 |                                                                |                |                 |                |    |
|-----------------|----------------------------------------------------------------|----------------|-----------------|----------------|----|
| Data File:      | \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D |                |                 |                |    |
| Injection Date: | 16-Aug-2022 17:20:31                                           | Instrument ID: | HP5977L         |                |    |
| Lims ID:        | 480-200570-B-3                                                 | Lab Sample ID: | 480-200570-3    |                |    |
| Client ID:      | WG-11230275-081022-KM-003                                      |                |                 |                |    |
| Operator ID:    | CR/CB                                                          | ALS Bottle#:   | 0               | Worklist Smp#: | 11 |
| Purge Vol:      | 5.000 mL                                                       | Dil. Factor:   | 10.0000         |                |    |
| Method:         | L-8260                                                         | Limit Group:   | MV - 8260C ICAL |                |    |
| Column:         | ZB-624 ( 0.25 mm)                                              | Detector:      | MS Quad         |                |    |

**65 Cyclohexane, CAS: 110-82-7**

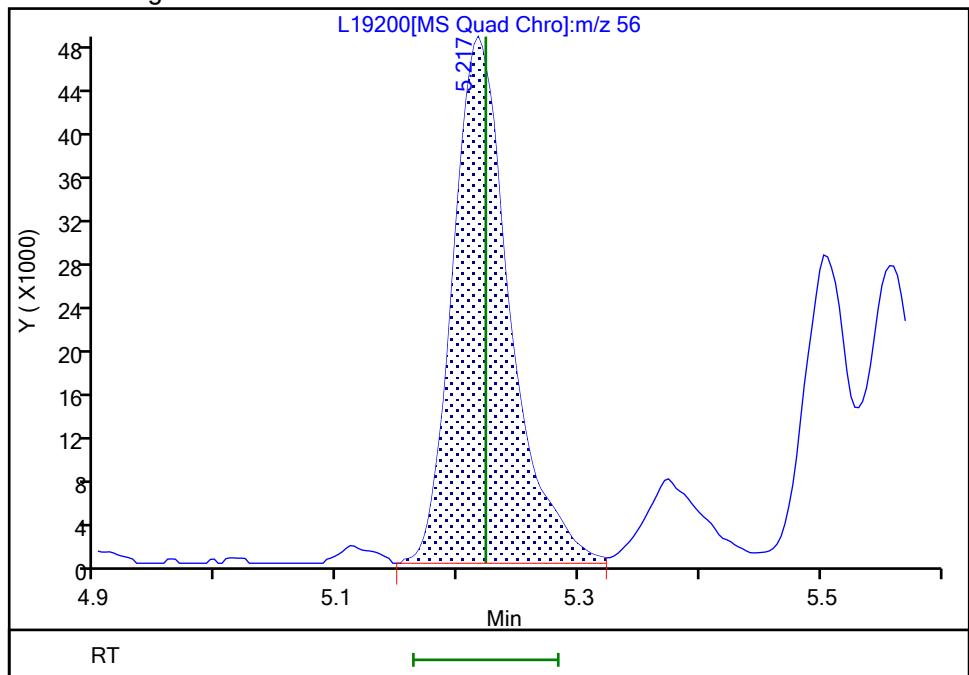
Signal: 1

Not Detected  
Expected RT: 5.22

## Processing Integration Results

RT: 5.22  
Area: 158239  
Amount: 13.345086  
Amount Units: ug/L

## Manual Integration Results

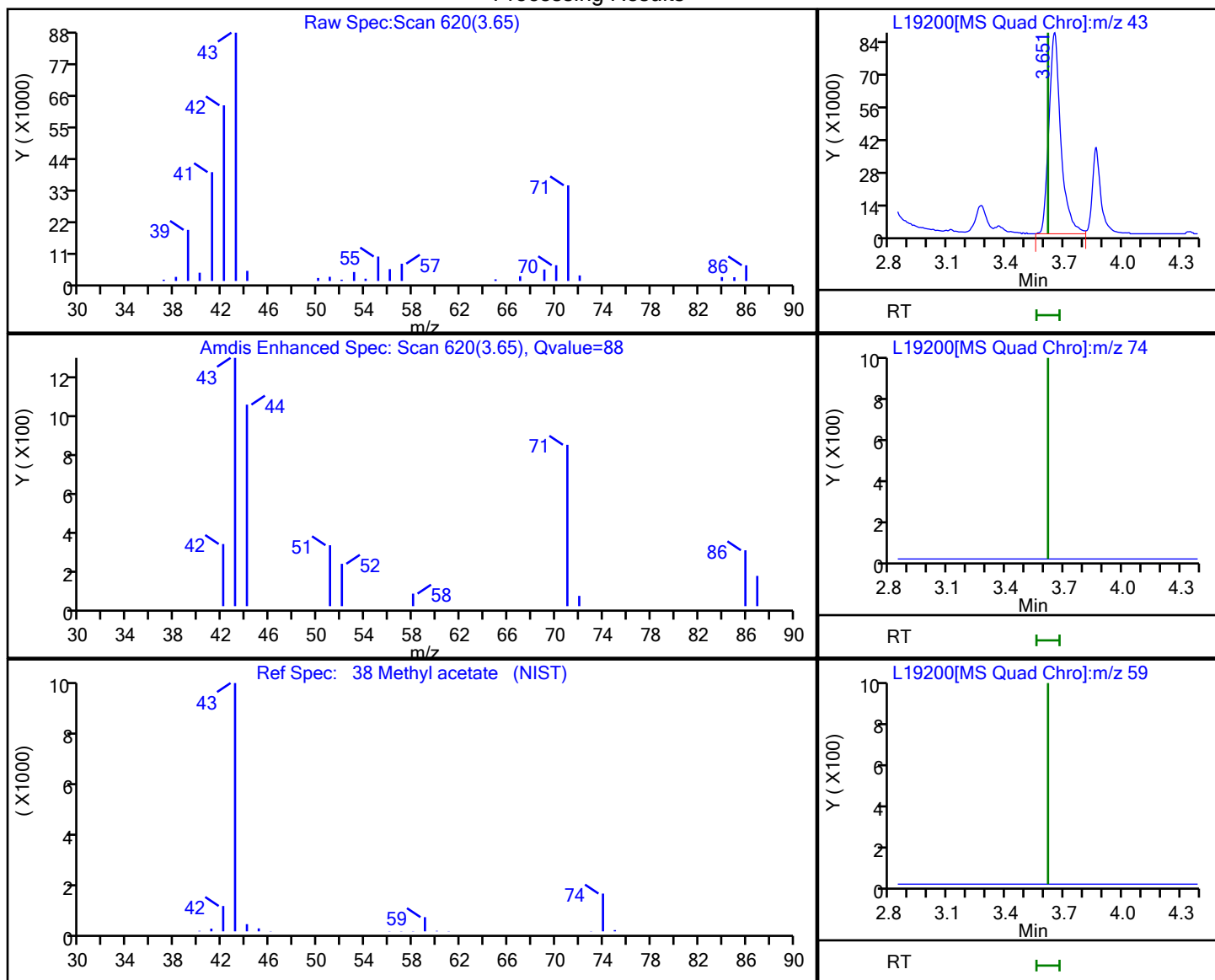
Reviewer: LS5G, 17-Aug-2022 10:17:08  
Audit Action: Assigned Compound IDAudit Reason: Poor chromatography  
Page 148 of 733

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D  
Injection Date: 16-Aug-2022 17:20:31 Instrument ID: HP5977L  
Lims ID: 480-200570-B-3 Lab Sample ID: 480-200570-3  
Client ID: WG-11230275-081022-KM-003  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 10.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

## 38 Methyl acetate, CAS: 79-20-9

## Processing Results



| RT   | Mass  | Response | Amount    |
|------|-------|----------|-----------|
| 3.65 | 43.00 | 379531   | 43.777372 |
| 3.62 | 74.00 | 0        |           |
| 3.62 | 59.00 | 0        |           |

Reviewer: LS5G, 17-Aug-2022 10:16:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Buffalo

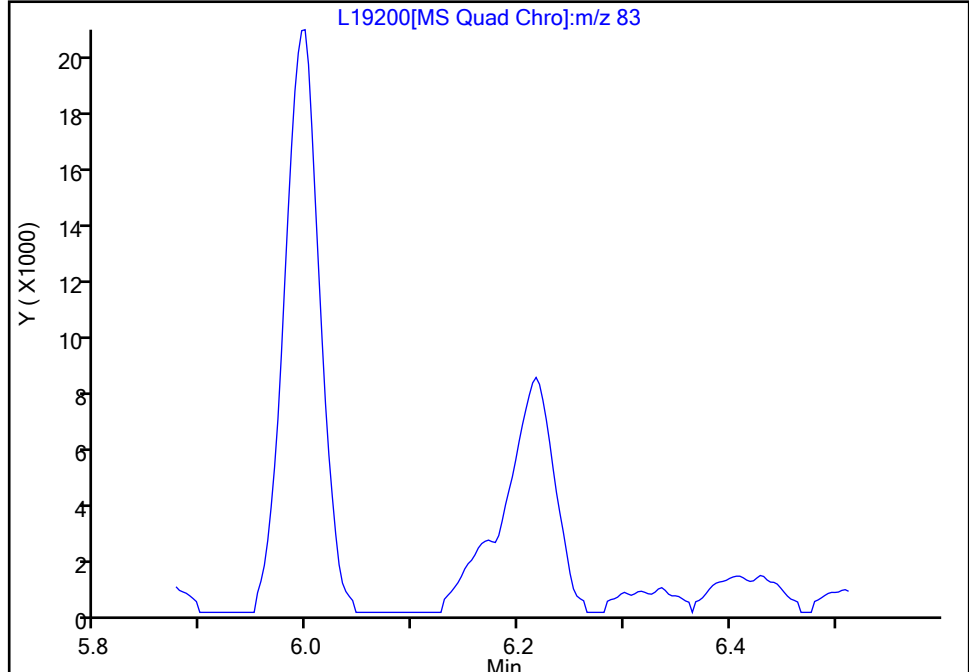
|                 |                                                                |                |                 |                |    |
|-----------------|----------------------------------------------------------------|----------------|-----------------|----------------|----|
| Data File:      | \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D |                |                 |                |    |
| Injection Date: | 16-Aug-2022 17:20:31                                           | Instrument ID: | HP5977L         |                |    |
| Lims ID:        | 480-200570-B-3                                                 | Lab Sample ID: | 480-200570-3    |                |    |
| Client ID:      | WG-11230275-081022-KM-003                                      |                |                 |                |    |
| Operator ID:    | CR/CB                                                          | ALS Bottle#:   | 0               | Worklist Smp#: | 11 |
| Purge Vol:      | 5.000 mL                                                       | Dil. Factor:   | 10.0000         |                |    |
| Method:         | L-8260                                                         | Limit Group:   | MV - 8260C ICAL |                |    |
| Column:         | ZB-624 ( 0.25 mm)                                              | Detector:      | MS Quad         |                |    |

**76 Methylcyclohexane, CAS: 108-87-2**

Signal: 1

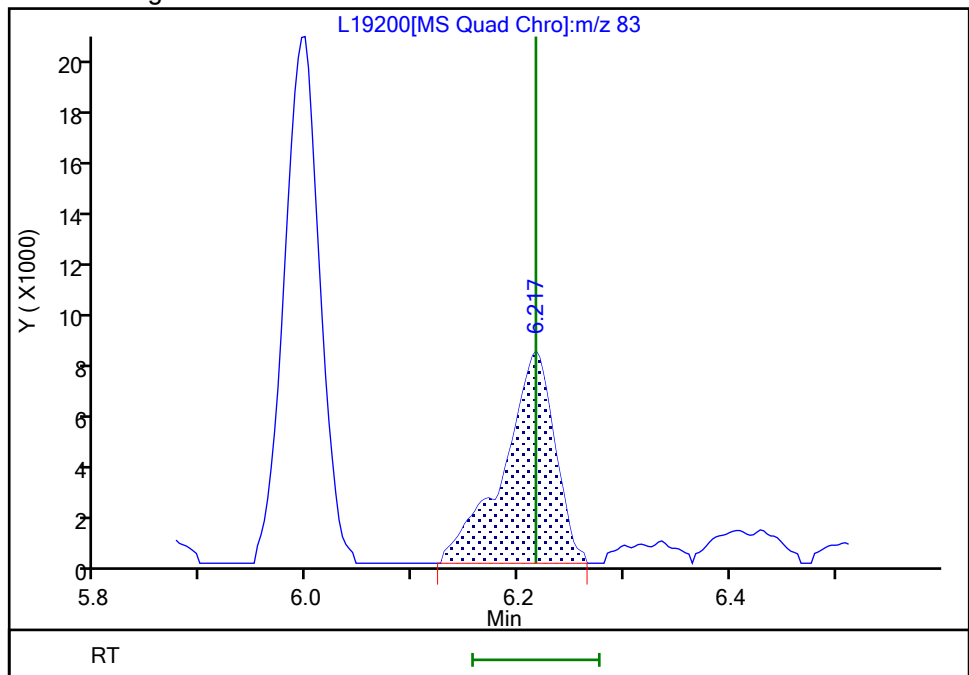
Not Detected  
Expected RT: 6.22

## Processing Integration Results



## Manual Integration Results

RT: 6.22  
Area: 27795  
Amount: 2.105532  
Amount Units: ug/L



Reviewer: LS5G, 17-Aug-2022 10:17:27  
Audit Action: Assigned Compound ID

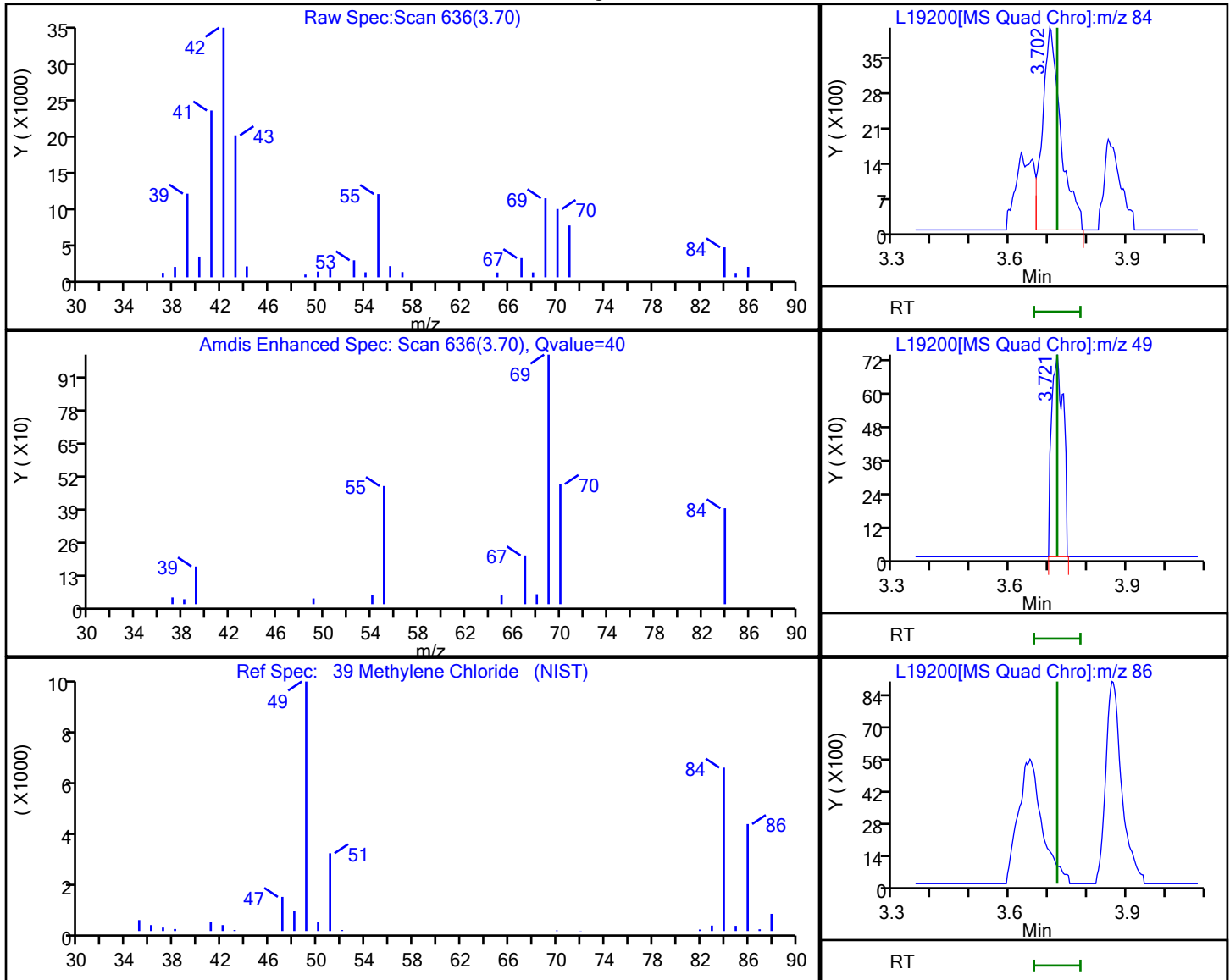
Audit Reason: Poor chromatography  
Page 150 of 733

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19200.D  
Injection Date: 16-Aug-2022 17:20:31 Instrument ID: HP5977L  
Lims ID: 480-200570-B-3 Lab Sample ID: 480-200570-3  
Client ID: WG-11230275-081022-KM-003  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 10.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

## 39 Methylene Chloride, CAS: 75-09-2

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.70 | 84.00 | 13400    | 1.373871 |
| 3.72 | 49.00 | 1551     |          |
| 3.72 | 86.00 | 0        |          |

Reviewer: LS5G, 17-Aug-2022 10:16:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: WG-11230275-081022-KM-003 Lab Sample ID: 480-200570-3 DL  
DL

Matrix: Water Lab File ID: L19232.D

Analysis Method: 8260C Date Collected: 08/10/2022 14:30

Sample wt/vol: 5 (mL) Date Analyzed: 08/17/2022 14:43

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (30) VOA ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637762 Units: ug/L

| CAS NO.    | COMPOUND NAME                         | RESULT | Q    | RL  | MDL |
|------------|---------------------------------------|--------|------|-----|-----|
| 71-55-6    | 1,1,1-Trichloroethane                 | 33     | U    | 40  | 33  |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 8.4    | U    | 40  | 8.4 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 9.2    | U    | 40  | 9.2 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 12     | U    | 40  | 12  |
| 75-34-3    | 1,1-Dichloroethane                    | 15     | U    | 40  | 15  |
| 75-35-4    | 1,1-Dichloroethene                    | 12     | U    | 40  | 12  |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 16     | U    | 40  | 16  |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 16     | U    | 40  | 16  |
| 95-50-1    | 1,2-Dichlorobenzene                   | 32     | U    | 40  | 32  |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 16     | U    | 40  | 16  |
| 107-06-2   | 1,2-Dichloroethane                    | 8.4    | U    | 40  | 8.4 |
| 78-87-5    | 1,2-Dichloropropane                   | 29     | U    | 40  | 29  |
| 541-73-1   | 1,3-Dichlorobenzene                   | 31     | U    | 40  | 31  |
| 106-46-7   | 1,4-Dichlorobenzene                   | 34     | U    | 40  | 34  |
| 78-93-3    | 2-Butanone (MEK)                      | 53     | U ** | 400 | 53  |
| 591-78-6   | 2-Hexanone                            | 50     | U    | 200 | 50  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 84     | U    | 200 | 84  |
| 67-64-1    | Acetone                               | 280    | J    | 400 | 120 |
| 71-43-2    | Benzene                               | 150    |      | 40  | 16  |
| 75-27-4    | Bromodichloromethane                  | 16     | U    | 40  | 16  |
| 75-25-2    | Bromoform                             | 10     | U    | 40  | 10  |
| 74-83-9    | Bromomethane                          | 28     | U    | 40  | 28  |
| 75-15-0    | Carbon disulfide                      | 7.6    | U    | 40  | 7.6 |
| 56-23-5    | Carbon tetrachloride                  | 11     | U    | 40  | 11  |
| 108-90-7   | Chlorobenzene                         | 30     | U    | 40  | 30  |
| 124-48-1   | Dibromochloromethane                  | 13     | U    | 40  | 13  |
| 75-00-3    | Chloroethane                          | 13     | U *1 | 40  | 13  |
| 67-66-3    | Chloroform                            | 14     | U    | 40  | 14  |
| 74-87-3    | Chloromethane                         | 14     | U    | 40  | 14  |
| 156-59-2   | cis-1,2-Dichloroethene                | 32     | U    | 40  | 32  |
| 10061-01-5 | cis-1,3-Dichloropropene               | 14     | U    | 40  | 14  |
| 110-82-7   | Cyclohexane                           | 7.2    | U    | 40  | 7.2 |
| 75-71-8    | Dichlorodifluoromethane               | 27     | U    | 40  | 27  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: WG-11230275-081022-KM-003 Lab Sample ID: 480-200570-3 DL  
DL

Matrix: Water Lab File ID: L19232.D

Analysis Method: 8260C Date Collected: 08/10/2022 14:30

Sample wt/vol: 5 (mL) Date Analyzed: 08/17/2022 14:43

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (30) VOA ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637762 Units: ug/L

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL |
|------------|---------------------------|--------|---|-----|-----|
| 100-41-4   | Ethylbenzene              | 1600   |   | 40  | 30  |
| 106-93-4   | 1,2-Dibromoethane         | 29     | U | 40  | 29  |
| 98-82-8    | Isopropylbenzene          | 280    |   | 40  | 32  |
| 79-20-9    | Methyl acetate            | 52     | U | 100 | 52  |
| 1634-04-4  | Methyl tert-butyl ether   | 6.4    | U | 40  | 6.4 |
| 108-87-2   | Methylcyclohexane         | 23     | J | 40  | 6.4 |
| 75-09-2    | Methylene Chloride        | 18     | U | 40  | 18  |
| 100-42-5   | Styrene                   | 29     | U | 40  | 29  |
| 127-18-4   | Tetrachloroethene         | 14     | U | 40  | 14  |
| 108-88-3   | Toluene                   | 20     | U | 40  | 20  |
| 156-60-5   | trans-1,2-Dichloroethene  | 36     | U | 40  | 36  |
| 10061-02-6 | trans-1,3-Dichloropropene | 15     | U | 40  | 15  |
| 79-01-6    | Trichloroethene           | 18     | U | 40  | 18  |
| 75-69-4    | Trichlorofluoromethane    | 35     | U | 40  | 35  |
| 75-01-4    | Vinyl chloride            | 36     | U | 40  | 36  |
| 1330-20-7  | Xylenes, Total            | 26     | U | 80  | 26  |
| 74-97-5    | Chlorobromomethane        | 35     | U | 40  | 35  |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 108  |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D  
 Lims ID: 480-200570-C-3  
 Client ID: WG-11230275-081022-KM-003  
 Sample Type: Client  
 Inject. Date: 17-Aug-2022 14:43:34 ALS Bottle#: 0 Worklist Smp#: 36  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Sample Info: 480-200570-C-3  
 Misc. Info.: 480-0107131-036  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 16:08:02 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 16:08:02

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.773        | 5.773            | 0.000            | 99 | 138504   | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.667        | 8.666            | 0.001            | 85 | 603066   | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.062       | 11.062           | 0.000            | 94 | 337143   | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.223        | 5.232            | -0.003           | 96 | 176719   | 25.1              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.525        | 5.525            | 0.000            | 97 | 215669   | 27.1              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.204        | 7.203            | 0.001            | 93 | 704793   | 23.4              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911        | 9.911            | 0.000            | 99 | 233402   | 24.8              |       |
| 10 Dichlorodifluoromethane               | 85  |              | 1.773            |                  |    |          | ND                |       |
| 13 Chloromethane                         | 50  |              | 2.011            |                  |    |          | ND                |       |
| 14 Vinyl chloride                        | 62  |              | 2.114            |                  |    |          | ND                |       |
| 18 Bromomethane                          | 94  |              | 2.477            |                  |    |          | ND                |       |
| 19 Chloroethane                          | 64  |              | 2.564            |                  |    |          | ND                |       |
| 21 Trichlorofluoromethane                | 101 |              | 2.782            |                  |    |          | ND                |       |
| 30 1,1-Dichloroethene                    | 96  |              | 3.252            |                  |    |          | ND                |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 |              | 3.252            |                  |    |          | ND                |       |
| 31 Acetone                               | 43  | 3.262        | 3.262            | -0.096           | 99 | 21535    | 7.11              | M     |
| 35 Carbon disulfide                      | 76  |              | 3.471            |                  |    |          | ND                |       |
| 38 Methyl acetate                        | 43  |              | 3.615            |                  |    |          | ND                | U     |
| 39 Methylene Chloride                    | 84  |              | 3.718            |                  |    |          | ND                | U     |
| 41 Methyl tert-butyl ether               | 73  |              | 3.901            |                  |    |          | ND                |       |
| 42 trans-1,2-Dichloroethene              | 96  |              | 3.927            |                  |    |          | ND                |       |
| 50 1,1-Dichloroethane                    | 63  |              | 4.307            |                  |    |          | ND                |       |
| 58 cis-1,2-Dichloroethene                | 96  |              | 4.808            |                  |    |          | ND                |       |
| 57 2-Butanone (MEK)                      | 43  |              | 4.824            |                  |    |          | ND                | U     |
| 60 Chlorobromomethane                    | 128 |              | 5.030            |                  |    |          | ND                |       |
| 62 Chloroform                            | 83  |              | 5.078            |                  |    |          | ND                |       |
| 64 1,1,1-Trichloroethane                 | 97  |              | 5.207            |                  |    |          | ND                |       |
| 65 Cyclohexane                           | 56  |              | 5.223            |                  |    |          | ND                |       |
| 66 Carbon tetrachloride                  | 117 |              | 5.339            |                  |    |          | ND                |       |
| 70 Benzene                               | 78  | 5.538        | 5.538            | 0.000            | 96 | 115731   | 3.68              |       |
| 72 1,2-Dichloroethane                    | 62  |              | 5.593            |                  |    |          | ND                |       |



| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| 75 Trichloroethene              | 95  |              | 6.094            |                  |    |          | ND                |       |
| 76 Methylcyclohexane            | 83  | 6.210        | 6.210            | -0.006           | 81 | 7539     | 0.5727            | a     |
| 77 1,2-Dichloropropane          | 63  |              | 6.329            |                  |    |          | ND                |       |
| 83 Dichlorobromomethane         | 83  |              | 6.586            |                  |    |          | ND                |       |
| 85 cis-1,3-Dichloropropene      | 75  |              | 6.982            |                  |    |          | ND                |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  |              | 7.097            |                  |    |          | ND                |       |
| 88 Toluene                      | 92  | 7.265        | 7.268            | -0.003           | 97 | 4899     | 0.2208            |       |
| 91 trans-1,3-Dichloropropene    | 75  |              | 7.515            |                  |    |          | ND                |       |
| 93 1,1,2-Trichloroethane        | 83  |              | 7.715            |                  |    |          | ND                |       |
| 94 Tetrachloroethene            | 166 |              | 7.792            |                  |    |          | ND                |       |
| 96 2-Hexanone                   | 43  |              | 7.908            |                  |    |          | ND                |       |
| 98 Chlorodibromomethane         | 129 |              | 8.120            |                  |    |          | ND                |       |
| 101 Ethylene Dibromide          | 107 |              | 8.242            |                  |    |          | ND                |       |
| 103 Chlorobenzene               | 112 |              | 8.695            |                  |    |          | ND                |       |
| 104 Ethylbenzene                | 91  | 8.766        | 8.763            | 0.003            | 98 | 1630517  | 40.6              |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.885        | 8.882            | 0.003            | 97 | 7159     | 0.4498            |       |
| 107 o-Xylene                    | 106 | 9.319        | 9.313            | 0.006            | 92 | 3207     | 0.2051            |       |
| 109 Styrene                     | 104 |              | 9.342            |                  |    |          | ND                |       |
| 110 Bromoform                   | 173 |              | 9.615            |                  |    |          | ND                |       |
| 111 Isopropylbenzene            | 105 | 9.689        | 9.686            | 0.003            | 95 | 302505   | 7.04              |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  |              | 10.094           |                  |    |          | ND                |       |
| 124 1,3-Dichlorobenzene         | 146 |              | 11.001           |                  |    |          | ND                |       |
| 126 1,4-Dichlorobenzene         | 146 |              | 11.085           |                  |    |          | ND                |       |
| 128 1,2-Dichlorobenzene         | 146 |              | 11.435           |                  |    |          | ND                |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  |              | 12.136           |                  |    |          | ND                |       |
| 130 1,2,4-Trichlorobenzene      | 180 |              | 12.760           |                  |    |          | ND                | 7     |
| 133 1,2,3-Trichlorobenzene      | 180 |              | 13.178           |                  |    |          | ND                |       |
| S 143 Xylenes, Total            | 1   |              |                  |                  | 0  |          | 0.6548            |       |

**QC Flag Legend**

## Processing Flags

7 - Failed Limit of Detection

## Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

**Reagents:**

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D

Injection Date: 17-Aug-2022 14:43:34

Instrument ID: HP5977L

Lims ID: 480-200570-C-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 36

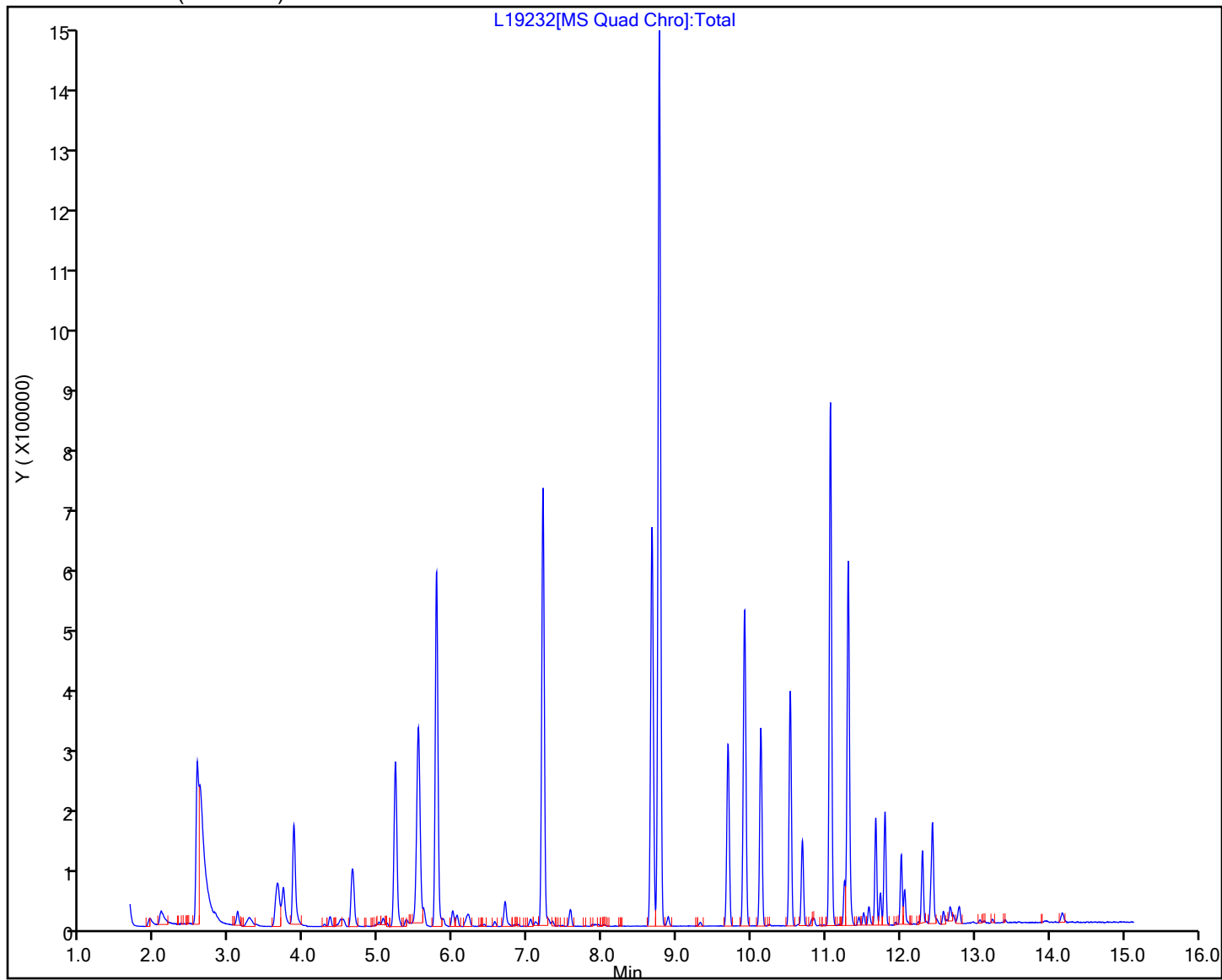
Purge Vol: 5.000 mL

Dil. Factor: 40.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D  
 Lims ID: 480-200570-C-3  
 Client ID: WG-11230275-081022-KM-003  
 Sample Type: Client  
 Inject. Date: 17-Aug-2022 14:43:34 ALS Bottle#: 0 Worklist Smp#: 36  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Sample Info: 480-200570-C-3  
 Misc. Info.: 480-0107131-036  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 16:08:02 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 16:08:02

| Compound                          | Amount Added | Amount Recovered | % Rec. |
|-----------------------------------|--------------|------------------|--------|
| \$ 4 Dibromofluoromethane (Surr)  | 25.0         | 25.1             | 100.51 |
| \$ 5 1,2-Dichloroethane-d4 (Surr) | 25.0         | 27.1             | 108.27 |
| \$ 6 Toluene-d8 (Surr)            | 25.0         | 23.4             | 93.64  |
| \$ 7 4-Bromofluorobenzene (Surr)  | 25.0         | 24.8             | 99.08  |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D

Injection Date: 17-Aug-2022 14:43:34

Instrument ID: HP5977L

Lims ID: 480-200570-C-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 36

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

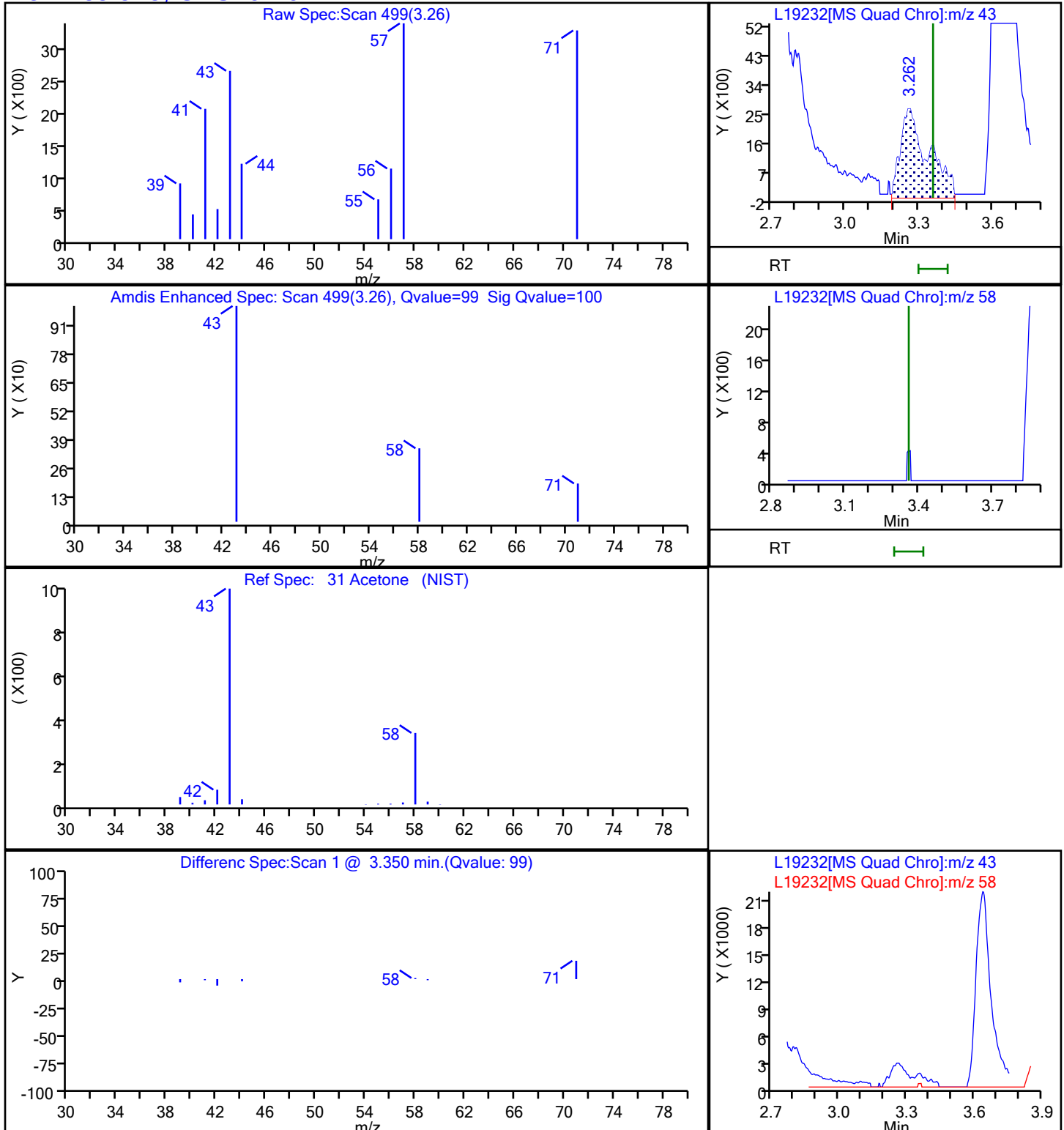
Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

## 31 Acetone, CAS: 67-64-1



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D

Injection Date: 17-Aug-2022 14:43:34

Instrument ID: HP5977L

Lims ID: 480-200570-C-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 36

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

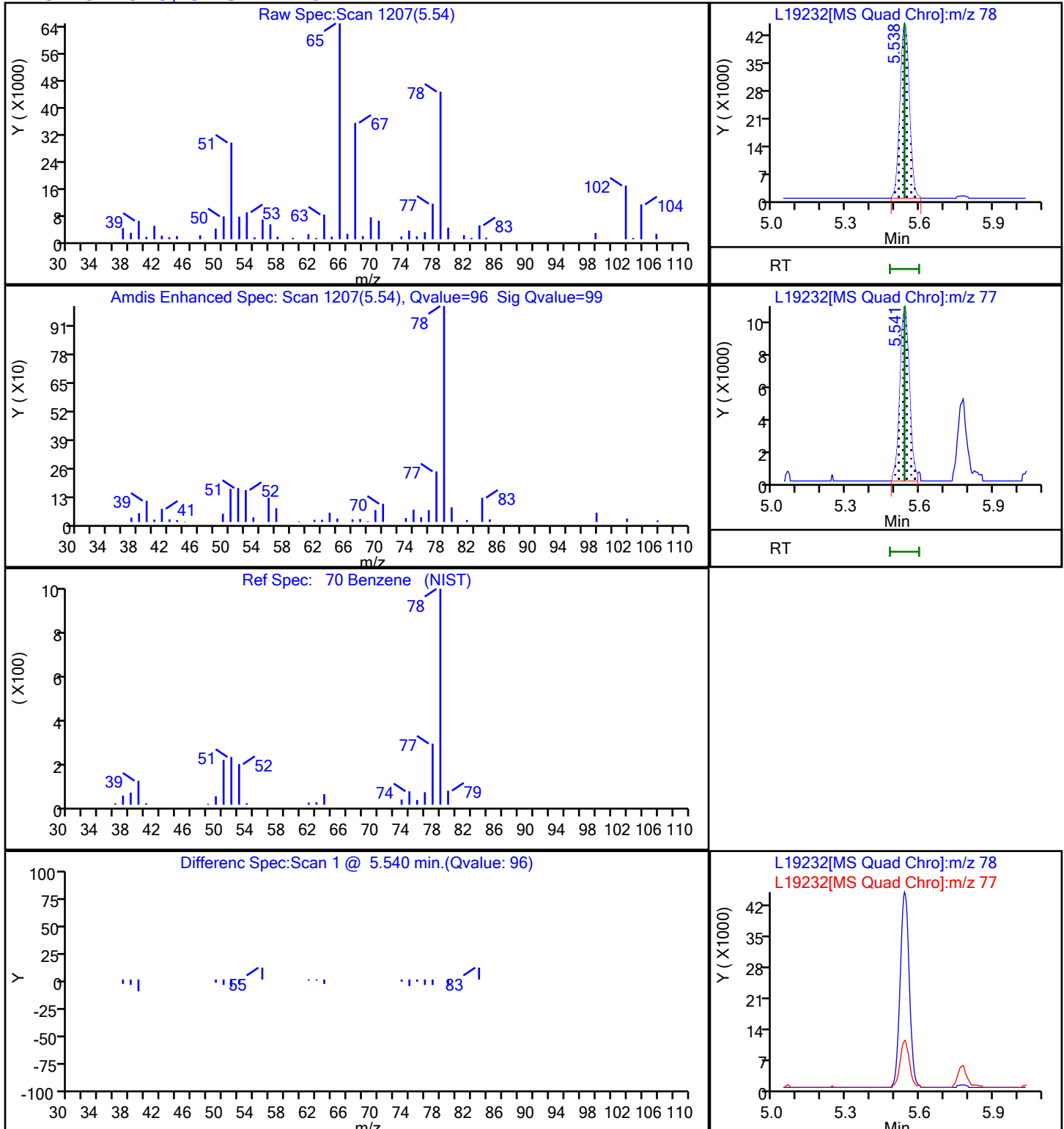
Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

## 70 Benzene, CAS: 71-43-2



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D

Injection Date: 17-Aug-2022 14:43:34

Instrument ID: HP5977L

Lims ID: 480-200570-C-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 36

Purge Vol: 5.000 mL

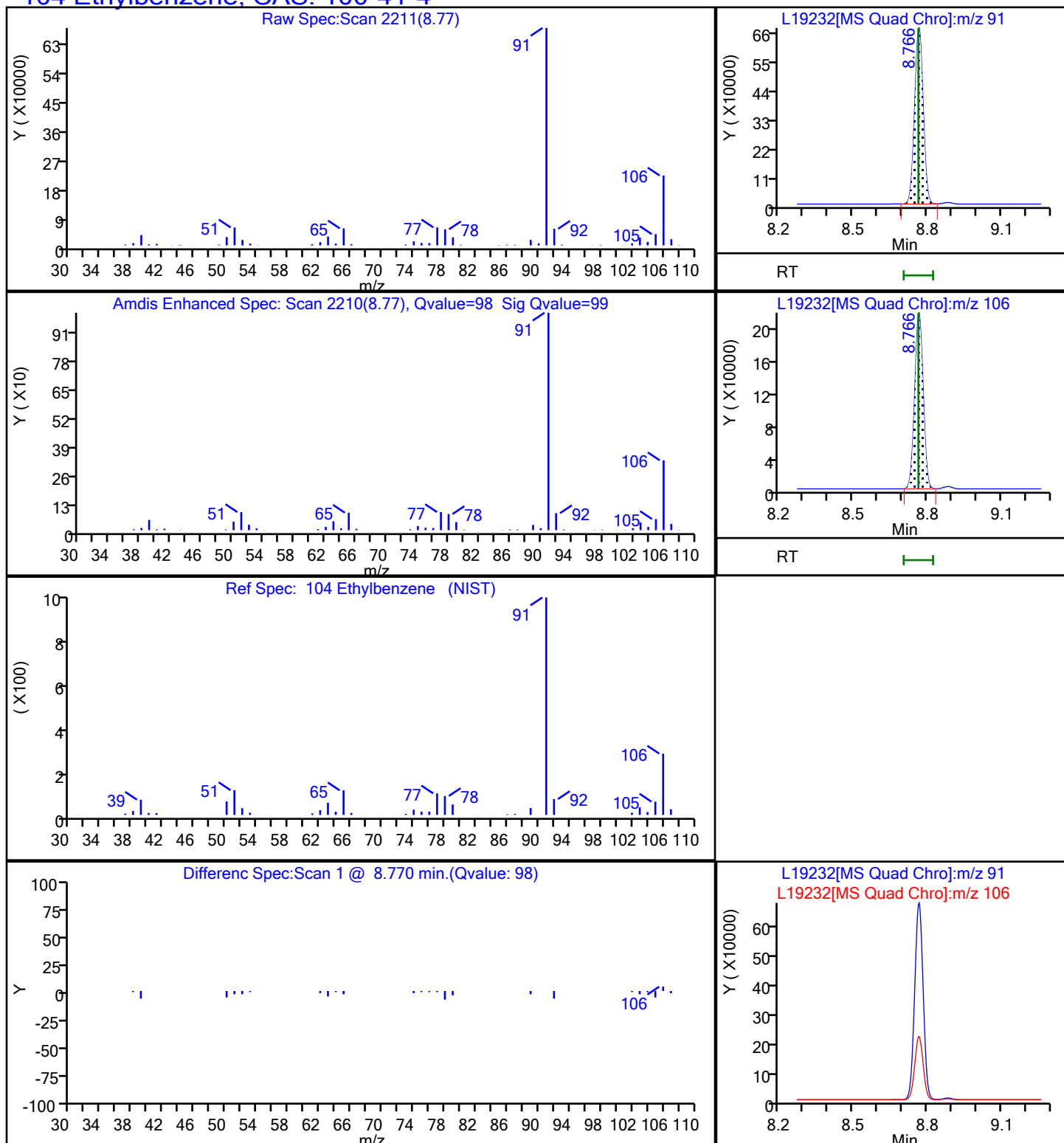
Dil. Factor: 40.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

**104 Ethylbenzene, CAS: 100-41-4**

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D

Injection Date: 17-Aug-2022 14:43:34

Instrument ID: HP5977L

Lims ID: 480-200570-C-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 36

Purge Vol: 5.000 mL

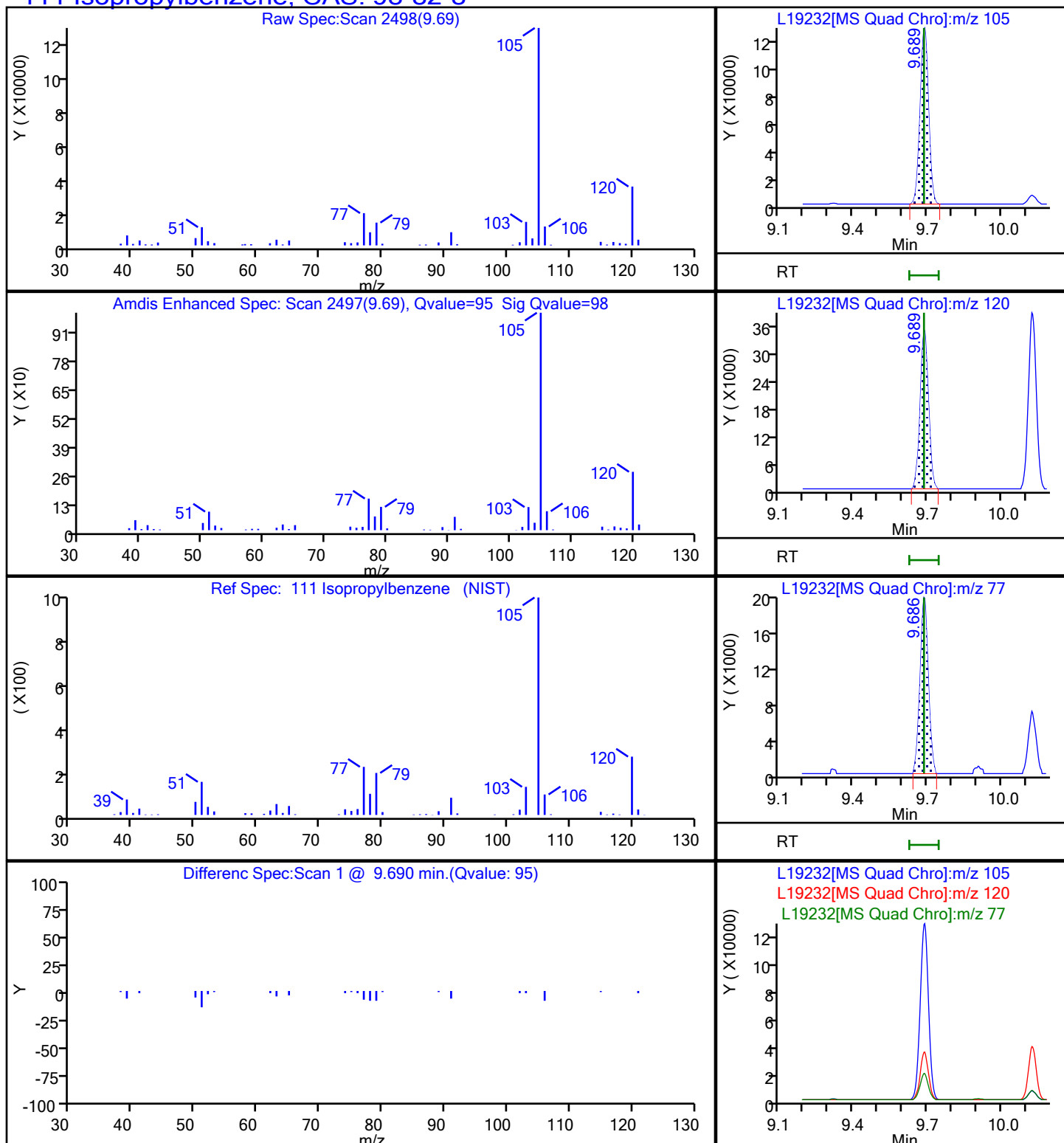
Dil. Factor: 40.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

**111 Isopropylbenzene, CAS: 98-82-8**

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D

Injection Date: 17-Aug-2022 14:43:34

Instrument ID: HP5977L

Lims ID: 480-200570-C-3

Lab Sample ID: 480-200570-3

Client ID: WG-11230275-081022-KM-003

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 36

Purge Vol: 5.000 mL

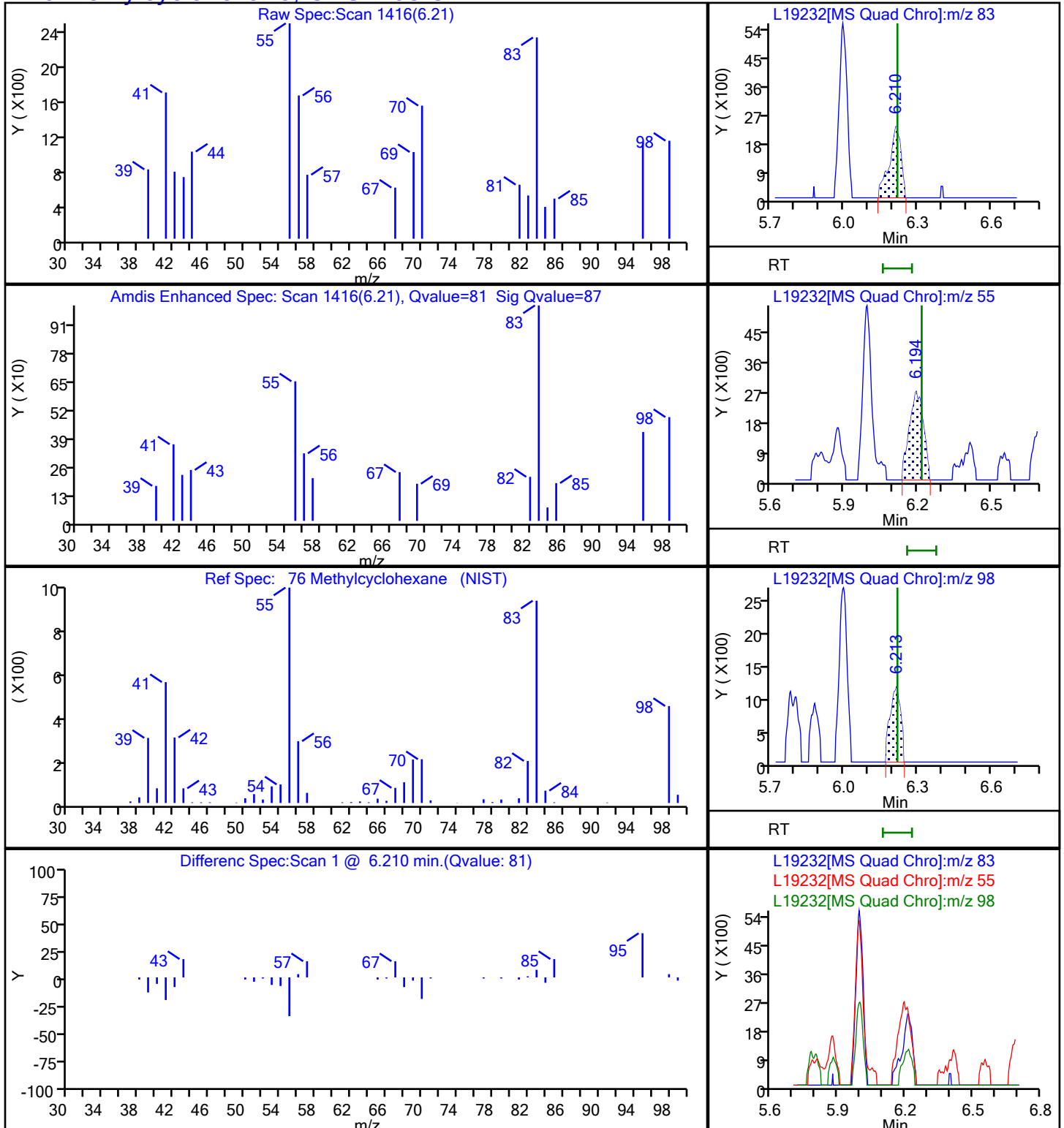
Dil. Factor: 40.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

**76 Methylcyclohexane, CAS: 108-87-2**

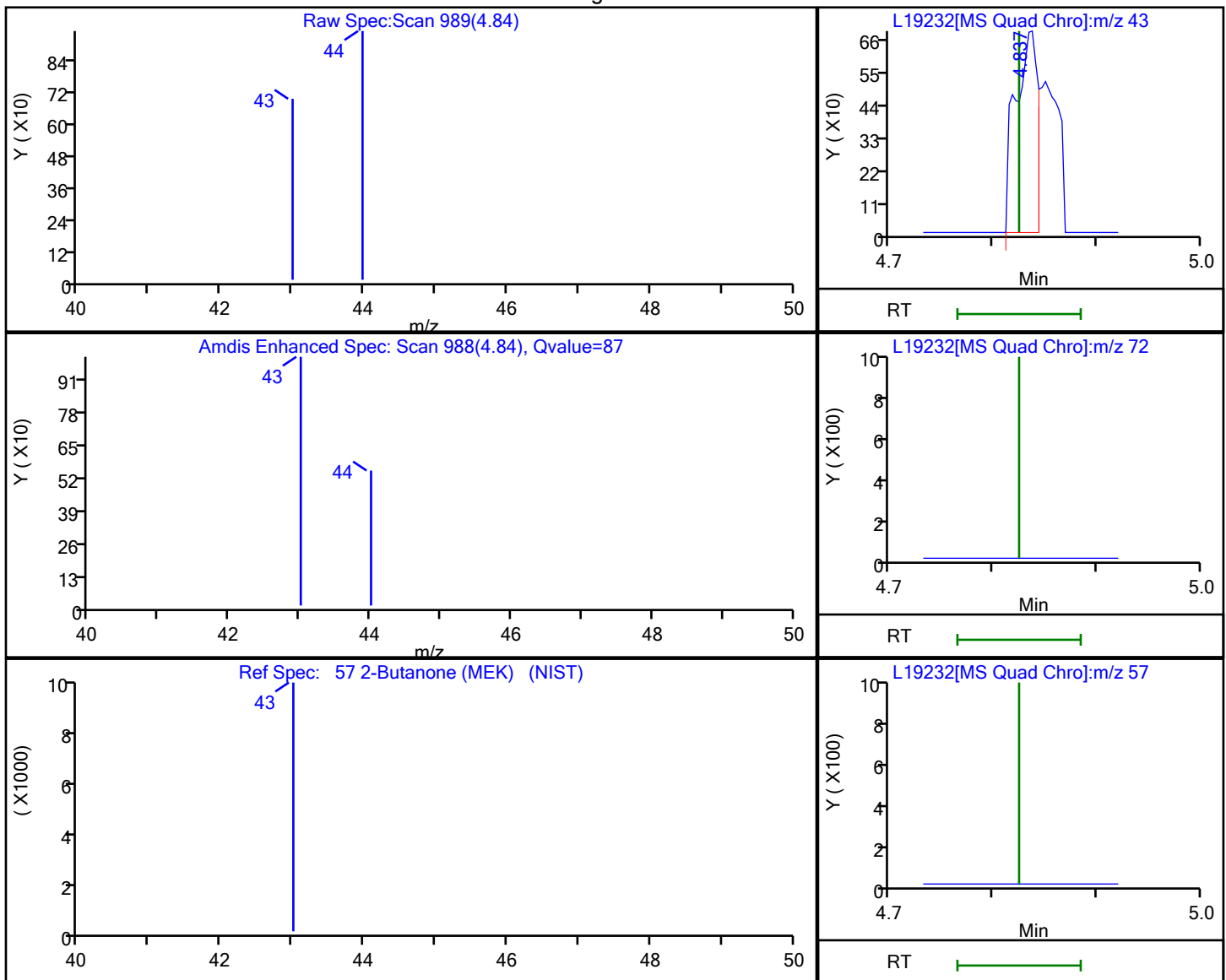


## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D  
Injection Date: 17-Aug-2022 14:43:34 Instrument ID: HP5977L  
Lims ID: 480-200570-C-3 Lab Sample ID: 480-200570-3  
Client ID: WG-11230275-081022-KM-003  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 36  
Purge Vol: 5.000 mL Dil. Factor: 40.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

## 57 2-Butanone (MEK), CAS: 78-93-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.84 | 43.00 | 1027     | 0.180383 |
| 4.82 | 72.00 | 0        |          |
| 4.82 | 57.00 | 0        |          |

Reviewer: LS5G, 17-Aug-2022 16:06:59

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Buffalo

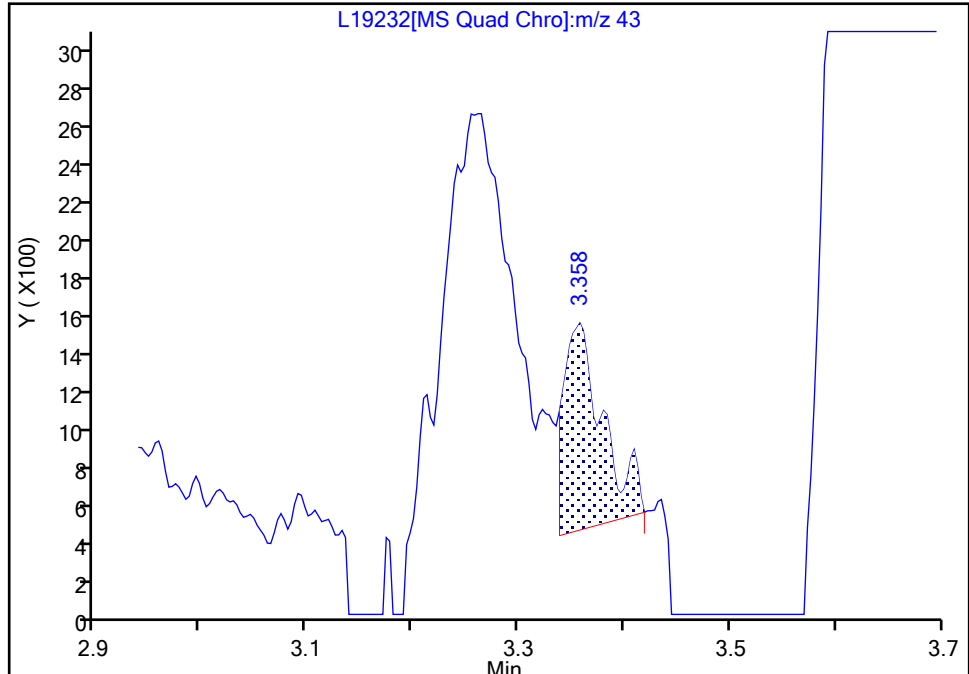
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D  
Injection Date: 17-Aug-2022 14:43:34 Instrument ID: HP5977L  
Lims ID: 480-200570-C-3 Lab Sample ID: 480-200570-3  
Client ID: WG-11230275-081022-KM-003  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 36  
Purge Vol: 5.000 mL Dil. Factor: 40.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

**31 Acetone, CAS: 67-64-1**

Signal: 1

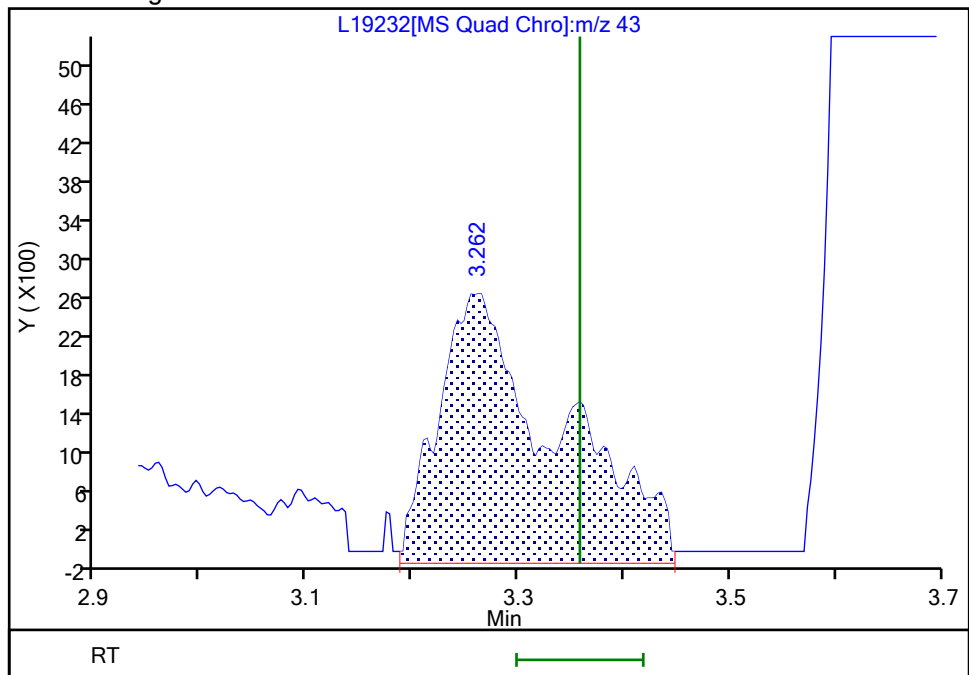
RT: 3.36  
Area: 2746  
Amount: 0.906822  
Amount Units: ug/L

## Processing Integration Results



RT: 3.26  
Area: 21535  
Amount: 7.111581  
Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 17-Aug-2022 16:06:36  
Audit Action: Manually Integrated

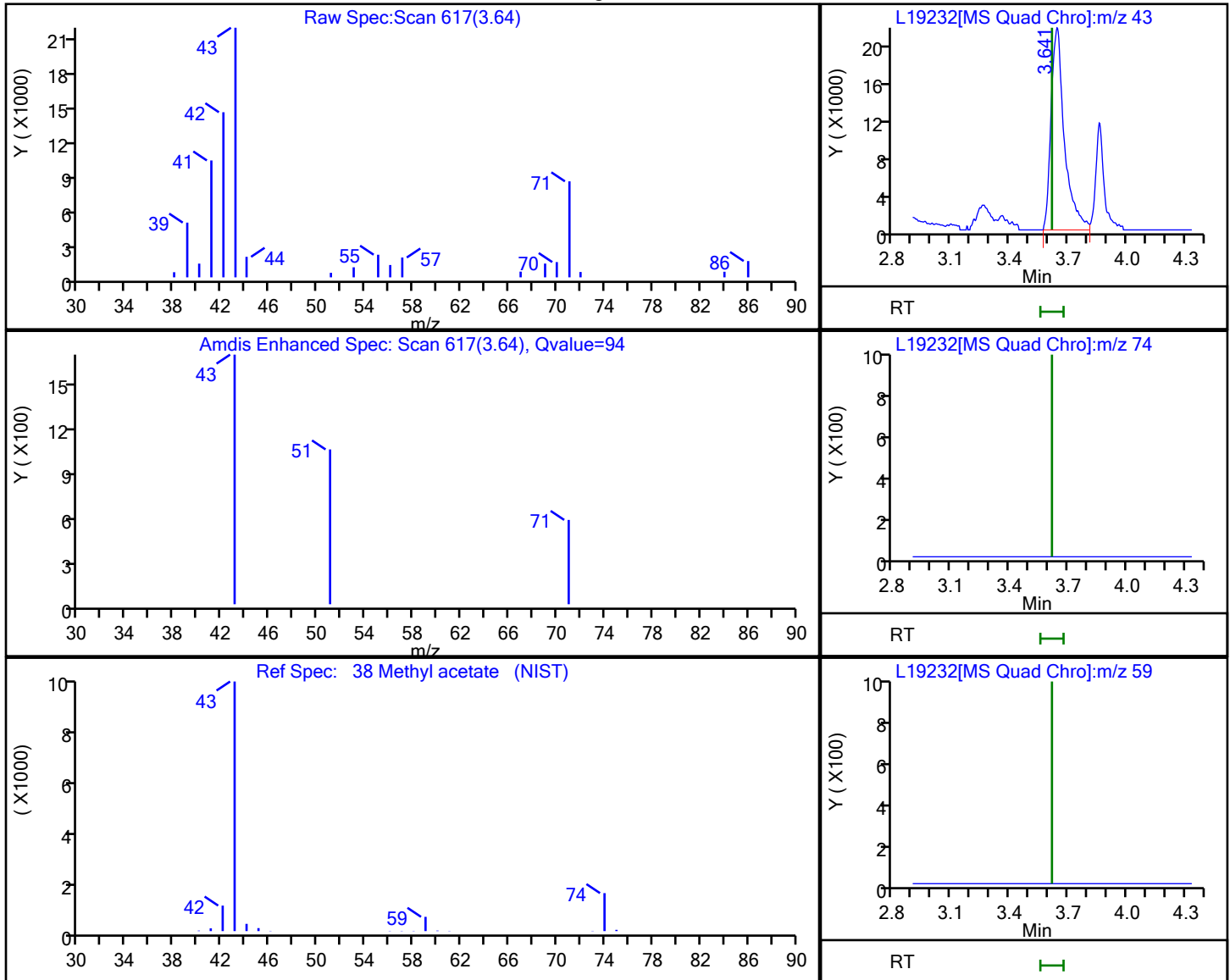
Audit Reason: Poor chromatography  
Page 164 of 733

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D  
Injection Date: 17-Aug-2022 14:43:34 Instrument ID: HP5977L  
Lims ID: 480-200570-C-3 Lab Sample ID: 480-200570-3  
Client ID: WG-11230275-081022-KM-003  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 36  
Purge Vol: 5.000 mL Dil. Factor: 40.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

## 38 Methyl acetate, CAS: 79-20-9

## Processing Results



| RT   | Mass  | Response | Amount    |
|------|-------|----------|-----------|
| 3.64 | 43.00 | 103366   | 11.956855 |
| 3.62 | 74.00 | 0        |           |
| 3.62 | 59.00 | 0        |           |

Reviewer: LS5G, 17-Aug-2022 16:06:48

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Buffalo

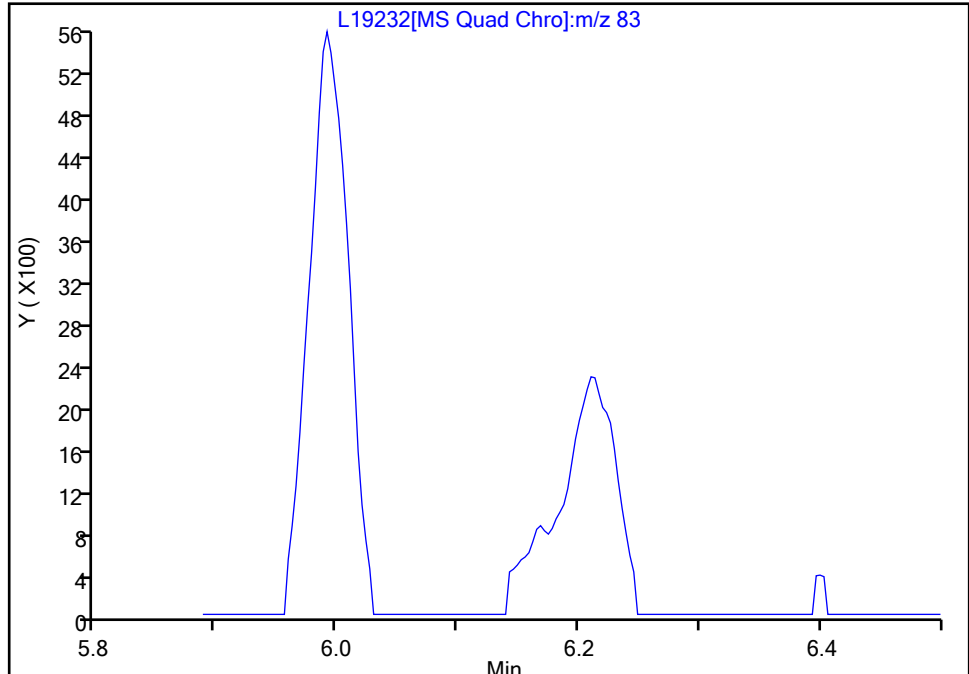
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D  
Injection Date: 17-Aug-2022 14:43:34 Instrument ID: HP5977L  
Lims ID: 480-200570-C-3 Lab Sample ID: 480-200570-3  
Client ID: WG-11230275-081022-KM-003  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 36  
Purge Vol: 5.000 mL Dil. Factor: 40.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

**76 Methylcyclohexane, CAS: 108-87-2**

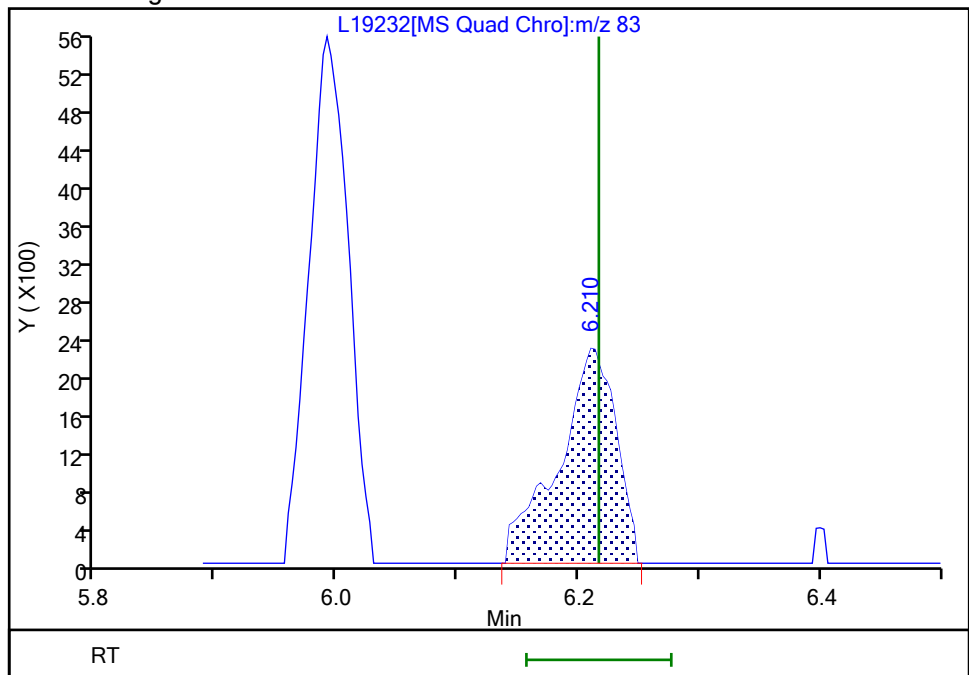
Signal: 1

Not Detected  
Expected RT: 6.22

## Processing Integration Results



## Manual Integration Results



Reviewer: LS5G, 17-Aug-2022 16:07:24  
Audit Action: Assigned Compound ID

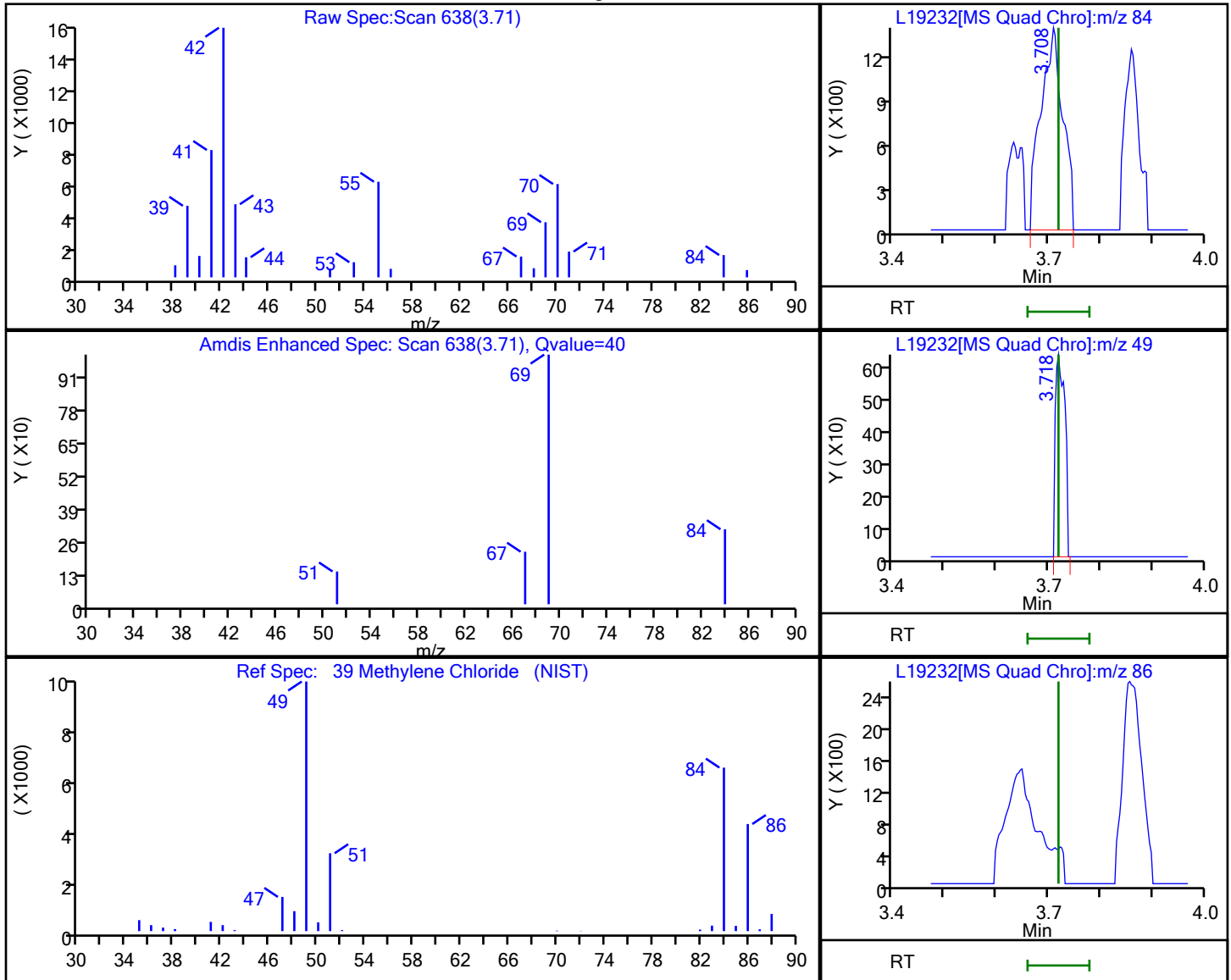
Audit Reason: Poor chromatography  
Page 166 of 733

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19232.D  
Injection Date: 17-Aug-2022 14:43:34 Instrument ID: HP5977L  
Lims ID: 480-200570-C-3 Lab Sample ID: 480-200570-3  
Client ID: WG-11230275-081022-KM-003  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 36  
Purge Vol: 5.000 mL Dil. Factor: 40.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

## 39 Methylene Chloride, CAS: 75-09-2

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.71 | 84.00 | 4001     | 0.204215 |
| 3.72 | 49.00 | 803      |          |
| 3.72 | 86.00 | 0        |          |

Reviewer: LS5G, 17-Aug-2022 16:06:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                                |                                                |
|------------------------------------------------|------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u>              | Job No.: <u>480-200570-1</u>                   |
| SDG No.: _____                                 |                                                |
| Client Sample ID: <u>TB-11230275-081022-KM</u> | Lab Sample ID: <u>480-200570-4</u>             |
| Matrix: <u>Water</u>                           | Lab File ID: <u>L19201.D</u>                   |
| Analysis Method: <u>8260C</u>                  | Date Collected: <u>08/10/2022 00:00</u>        |
| Sample wt/vol: <u>5(mL)</u>                    | Date Analyzed: <u>08/16/2022 17:43</u>         |
| Soil Aliquot Vol: _____                        | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____                       | GC Column: <u>ZB-624 (30) VOA ID: 0.25(mm)</u> |
| Purge Volume: <u>5.0(mL)</u>                   | Heated Purge: (Y/N) <u>N</u> pH: _____         |
| % Moisture: _____ % Solids: _____              | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>637640</u>              | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME                         | RESULT | Q    | RL  | MDL  |
|------------|---------------------------------------|--------|------|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane                 | 0.82   | U    | 1.0 | 0.82 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 0.21   | U    | 1.0 | 0.21 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 0.23   | U    | 1.0 | 0.23 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.31   | U    | 1.0 | 0.31 |
| 75-34-3    | 1,1-Dichloroethane                    | 0.38   | U ** | 1.0 | 0.38 |
| 75-35-4    | 1,1-Dichloroethene                    | 0.29   | U    | 1.0 | 0.29 |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 0.41   | U    | 1.0 | 0.41 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 0.39   | U    | 1.0 | 0.39 |
| 95-50-1    | 1,2-Dichlorobenzene                   | 0.79   | U    | 1.0 | 0.79 |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 0.41   | U    | 1.0 | 0.41 |
| 107-06-2   | 1,2-Dichloroethane                    | 0.21   | U    | 1.0 | 0.21 |
| 78-87-5    | 1,2-Dichloropropane                   | 0.72   | U    | 1.0 | 0.72 |
| 541-73-1   | 1,3-Dichlorobenzene                   | 0.78   | U    | 1.0 | 0.78 |
| 106-46-7   | 1,4-Dichlorobenzene                   | 0.84   | U    | 1.0 | 0.84 |
| 78-93-3    | 2-Butanone (MEK)                      | 1.3    | U ** | 10  | 1.3  |
| 591-78-6   | 2-Hexanone                            | 1.2    | U    | 5.0 | 1.2  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 2.1    | U    | 5.0 | 2.1  |
| 67-64-1    | Acetone                               | 3.0    | U    | 10  | 3.0  |
| 71-43-2    | Benzene                               | 0.41   | U    | 1.0 | 0.41 |
| 75-27-4    | Bromodichloromethane                  | 0.39   | U    | 1.0 | 0.39 |
| 75-25-2    | Bromoform                             | 0.26   | U    | 1.0 | 0.26 |
| 74-83-9    | Bromomethane                          | 0.69   | U    | 1.0 | 0.69 |
| 75-15-0    | Carbon disulfide                      | 0.19   | U    | 1.0 | 0.19 |
| 56-23-5    | Carbon tetrachloride                  | 0.27   | U    | 1.0 | 0.27 |
| 108-90-7   | Chlorobenzene                         | 0.75   | U    | 1.0 | 0.75 |
| 124-48-1   | Dibromochloromethane                  | 0.32   | U    | 1.0 | 0.32 |
| 75-00-3    | Chloroethane                          | 0.32   | U    | 1.0 | 0.32 |
| 67-66-3    | Chloroform                            | 0.34   | U    | 1.0 | 0.34 |
| 74-87-3    | Chloromethane                         | 0.35   | U    | 1.0 | 0.35 |
| 156-59-2   | cis-1,2-Dichloroethene                | 0.81   | U    | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene               | 0.36   | U    | 1.0 | 0.36 |
| 110-82-7   | Cyclohexane                           | 0.18   | U    | 1.0 | 0.18 |
| 75-71-8    | Dichlorodifluoromethane               | 0.68   | U    | 1.0 | 0.68 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                                |                                                |
|------------------------------------------------|------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u>              | Job No.: <u>480-200570-1</u>                   |
| SDG No.: _____                                 |                                                |
| Client Sample ID: <u>TB-11230275-081022-KM</u> | Lab Sample ID: <u>480-200570-4</u>             |
| Matrix: <u>Water</u>                           | Lab File ID: <u>L19201.D</u>                   |
| Analysis Method: <u>8260C</u>                  | Date Collected: <u>08/10/2022 00:00</u>        |
| Sample wt/vol: <u>5(mL)</u>                    | Date Analyzed: <u>08/16/2022 17:43</u>         |
| Soil Aliquot Vol: _____                        | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____                       | GC Column: <u>ZB-624 (30) VOA ID: 0.25(mm)</u> |
| Purge Volume: <u>5.0(mL)</u>                   | Heated Purge: (Y/N) <u>N</u> pH: _____         |
| % Moisture: _____ % Solids: _____              | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>637640</u>              | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL  |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4   | Ethylbenzene              | 0.74   | U | 1.0 | 0.74 |
| 106-93-4   | 1,2-Dibromoethane         | 0.73   | U | 1.0 | 0.73 |
| 98-82-8    | Isopropylbenzene          | 0.79   | U | 1.0 | 0.79 |
| 79-20-9    | Methyl acetate            | 1.3    | U | 2.5 | 1.3  |
| 1634-04-4  | Methyl tert-butyl ether   | 0.16   | U | 1.0 | 0.16 |
| 108-87-2   | Methylcyclohexane         | 0.16   | U | 1.0 | 0.16 |
| 75-09-2    | Methylene Chloride        | 0.44   | U | 1.0 | 0.44 |
| 100-42-5   | Styrene                   | 0.73   | U | 1.0 | 0.73 |
| 127-18-4   | Tetrachloroethene         | 0.36   | U | 1.0 | 0.36 |
| 108-88-3   | Toluene                   | 0.51   | U | 1.0 | 0.51 |
| 156-60-5   | trans-1,2-Dichloroethene  | 0.90   | U | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.37   | U | 1.0 | 0.37 |
| 79-01-6    | Trichloroethene           | 0.46   | U | 1.0 | 0.46 |
| 75-69-4    | Trichlorofluoromethane    | 0.88   | U | 1.0 | 0.88 |
| 75-01-4    | Vinyl chloride            | 0.90   | U | 1.0 | 0.90 |
| 1330-20-7  | Xylenes, Total            | 0.66   | U | 2.0 | 0.66 |
| 74-97-5    | Chlorobromomethane        | 0.87   | U | 1.0 | 0.87 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 107  |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 91   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19201.D  
 Lims ID: 480-200570-B-4  
 Client ID: TB-11230275-081022-KM  
 Sample Type: Client  
 Inject. Date: 16-Aug-2022 17:43:52 ALS Bottle#: 0 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-200570-B-4  
 Misc. Info.: 480-0107114-012  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:18:16 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 10:18:51

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.773            | 0.003            | 99 | 139295   | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.667        | 8.666            | 0.001            | 85 | 594474   | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.062       | 11.062           | 0.000            | 95 | 317238   | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226        | 5.229            | 0.000            | 93 | 176257   | 24.9              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.528        | 5.525            | 0.003            | 96 | 214795   | 26.8              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.207        | 7.206            | 0.004            | 93 | 687404   | 23.2              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911        | 9.914            | 0.000            | 99 | 210354   | 22.6              |       |
| 10 Dichlorodifluoromethane               | 85  |              | 1.770            |                  |    |          | ND                |       |
| 13 Chloromethane                         | 50  |              | 2.004            |                  |    |          | ND                |       |
| 14 Vinyl chloride                        | 62  |              | 2.107            |                  |    |          | ND                |       |
| 18 Bromomethane                          | 94  |              | 2.480            |                  |    |          | ND                |       |
| 19 Chloroethane                          | 64  |              | 2.564            |                  |    |          | ND                |       |
| 21 Trichlorofluoromethane                | 101 |              | 2.779            |                  |    |          | ND                |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 |              | 3.249            |                  |    |          | ND                |       |
| 30 1,1-Dichloroethene                    | 96  |              | 3.252            |                  |    |          | ND                |       |
| 31 Acetone                               | 43  |              | 3.358            |                  |    |          | ND                |       |
| 35 Carbon disulfide                      | 76  |              | 3.477            |                  |    |          | ND                |       |
| 38 Methyl acetate                        | 43  |              | 3.615            |                  |    |          | ND                |       |
| 39 Methylene Chloride                    | 84  |              | 3.721            |                  |    |          | ND                |       |
| 41 Methyl tert-butyl ether               | 73  |              | 3.901            |                  |    |          | ND                |       |
| 42 trans-1,2-Dichloroethene              | 96  |              | 3.927            |                  |    |          | ND                |       |
| 50 1,1-Dichloroethane                    | 63  |              | 4.306            |                  |    |          | ND                |       |
| 58 cis-1,2-Dichloroethene                | 96  |              | 4.808            |                  |    |          | ND                |       |
| 57 2-Butanone (MEK)                      | 43  |              | 4.824            |                  |    |          | ND                |       |
| 60 Chlorobromomethane                    | 128 |              | 5.030            |                  |    |          | ND                |       |
| 62 Chloroform                            | 83  |              | 5.078            |                  |    |          | ND                |       |
| 64 1,1,1-Trichloroethane                 | 97  |              | 5.207            |                  |    |          | ND                |       |
| 65 Cyclohexane                           | 56  |              | 5.223            |                  |    |          | ND                |       |
| 66 Carbon tetrachloride                  | 117 |              | 5.339            |                  |    |          | ND                |       |
| 70 Benzene                               | 78  |              | 5.538            |                  |    |          | ND                |       |
| 72 1,2-Dichloroethane                    | 62  |              | 5.593            |                  |    |          | ND                |       |



| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|---|----------|-------------------|-------|
| 75 Trichloroethene              | 95  |              | 6.091            |                  |   |          | ND                |       |
| 76 Methylcyclohexane            | 83  |              | 6.216            |                  |   |          | ND                |       |
| 77 1,2-Dichloropropane          | 63  |              | 6.329            |                  |   |          | ND                |       |
| 83 Dichlorobromomethane         | 83  |              | 6.586            |                  |   |          | ND                |       |
| 85 cis-1,3-Dichloropropene      | 75  |              | 6.982            |                  |   |          | ND                |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  |              | 7.097            |                  |   |          | ND                |       |
| 88 Toluene                      | 92  |              | 7.268            |                  |   |          | ND                |       |
| 91 trans-1,3-Dichloropropene    | 75  |              | 7.519            |                  |   |          | ND                |       |
| 93 1,1,2-Trichloroethane        | 83  |              | 7.712            |                  |   |          | ND                |       |
| 94 Tetrachloroethene            | 166 |              | 7.792            |                  |   |          | ND                |       |
| 96 2-Hexanone                   | 43  |              | 7.908            |                  |   |          | ND                |       |
| 98 Chlorodibromomethane         | 129 |              | 8.117            |                  |   |          | ND                |       |
| 101 Ethylene Dibromide          | 107 |              | 8.242            |                  |   |          | ND                |       |
| 103 Chlorobenzene               | 112 |              | 8.695            |                  |   |          | ND                |       |
| 104 Ethylbenzene                | 91  |              | 8.766            |                  |   |          | ND                |       |
| 106 m-Xylene & p-Xylene         | 106 |              | 8.882            |                  |   |          | ND                |       |
| 107 o-Xylene                    | 106 |              | 9.316            |                  |   |          | ND                |       |
| 109 Styrene                     | 104 |              | 9.342            |                  |   |          | ND                |       |
| 110 Bromoform                   | 173 |              | 9.615            |                  |   |          | ND                |       |
| 111 Isopropylbenzene            | 105 |              | 9.686            |                  |   |          | ND                |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  |              | 10.094           |                  |   |          | ND                |       |
| 124 1,3-Dichlorobenzene         | 146 |              | 11.001           |                  |   |          | ND                |       |
| 126 1,4-Dichlorobenzene         | 146 |              | 11.084           |                  |   |          | ND                |       |
| 128 1,2-Dichlorobenzene         | 146 |              | 11.435           |                  |   |          | ND                |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  |              | 12.136           |                  |   |          | ND                |       |
| 130 1,2,4-Trichlorobenzene      | 180 |              | 12.760           |                  |   |          | ND                |       |
| 133 1,2,3-Trichlorobenzene      | 180 |              | 13.178           |                  |   |          | ND                |       |
| S 143 Xylenes, Total            | 1   |              | 30.000           |                  |   |          | ND                | 7     |

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19201.D

Injection Date: 16-Aug-2022 17:43:52

Instrument ID: HP5977L

Lims ID: 480-200570-B-4

Lab Sample ID: 480-200570-4

Client ID: TB-11230275-081022-KM

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 12

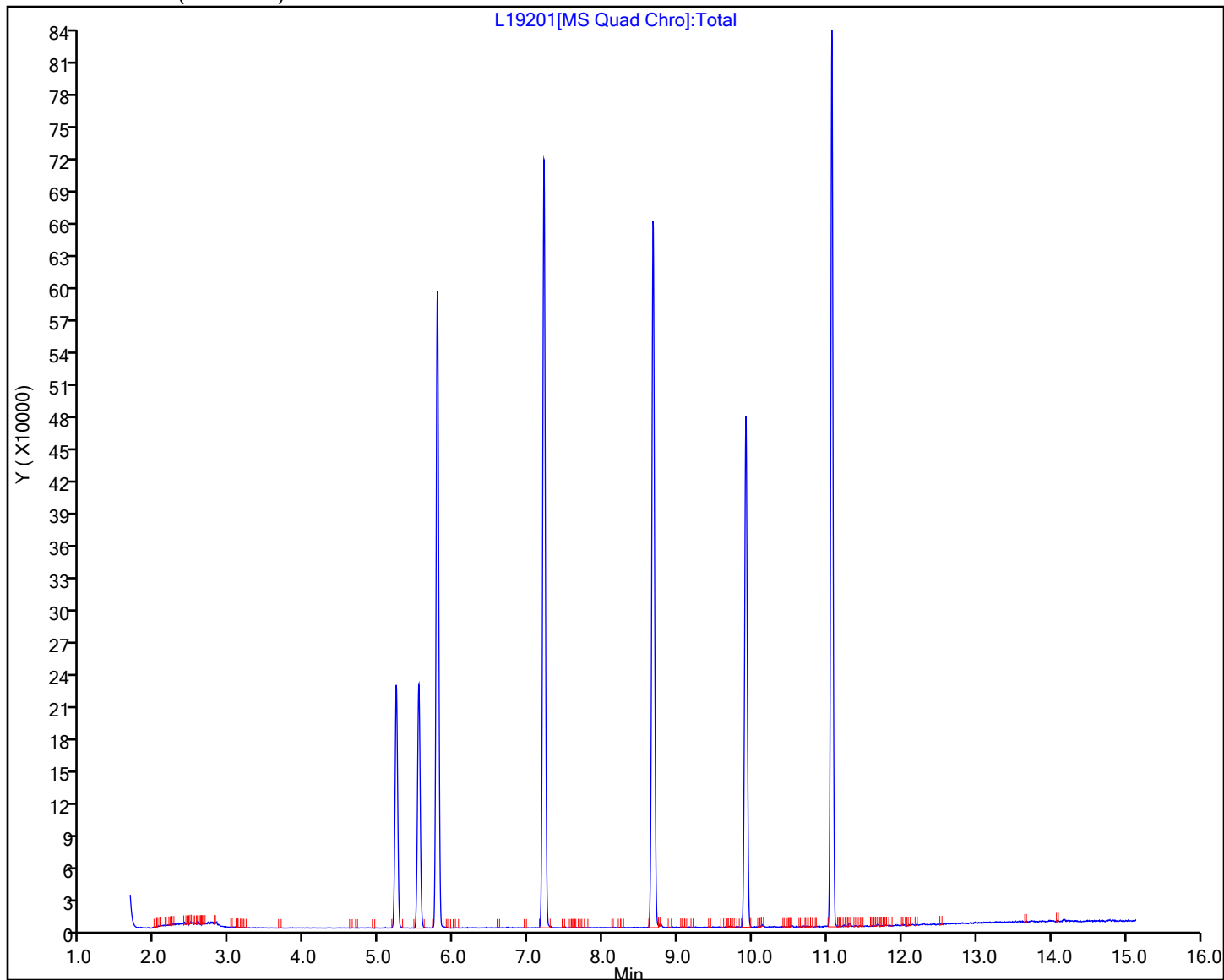
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19201.D  
 Lims ID: 480-200570-B-4  
 Client ID: TB-11230275-081022-KM  
 Sample Type: Client  
 Inject. Date: 16-Aug-2022 17:43:52 ALS Bottle#: 0 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-200570-B-4  
 Misc. Info.: 480-0107114-012  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:18:16 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 10:18:51

| Compound                          | Amount Added | Amount Recovered | % Rec. |
|-----------------------------------|--------------|------------------|--------|
| \$ 4 Dibromofluoromethane (Surr)  | 25.0         | 24.9             | 99.68  |
| \$ 5 1,2-Dichloroethane-d4 (Surr) | 25.0         | 26.8             | 107.22 |
| \$ 6 Toluene-d8 (Surr)            | 25.0         | 23.2             | 92.65  |
| \$ 7 4-Bromofluorobenzene (Surr)  | 25.0         | 22.6             | 90.59  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

Calibration Files

|         |                    |              |
|---------|--------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:     | LAB FILE ID: |
| Level 1 | IC 480-636697/13   | S4495.D      |
| Level 2 | IC 480-636697/14   | S4496.D      |
| Level 3 | IC 480-636697/15   | S4497.D      |
| Level 4 | IC 480-636697/16   | S4498.D      |
| Level 5 | IC 480-636697/17   | S4499.D      |
| Level 6 | ICIS 480-636697/18 | S4500.D      |
| Level 7 | IC 480-636697/19   | S4501.D      |
| Level 8 | IC 480-636697/20   | S4502.D      |

| ANALYTE                               | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---------------------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|------------|----|---|---------|------|---|----------|------------|---|----------------|
|                                       | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1         | M2 |   |         |      |   |          |            |   |                |
|                                       | LVL 6            | LVL 7            | LVL 8            |        |        |            |             |            |    |   |         |      |   |          |            |   |                |
| Dichlorodifluoromethane               | 1.9954<br>2.1603 | 2.1608<br>2.0041 | 2.1904<br>1.9692 | 1.9162 | 1.9986 | Ave        |             | 2.049<br>4 |    |   | 0.1000  | 5.1  |   | 20.0     |            |   |                |
| Chloromethane                         | 3.6556<br>3.2457 | 3.6150<br>3.0279 | 3.5669<br>2.8607 | 3.0310 | 3.0111 | Ave        |             | 3.251<br>7 |    |   | 0.1000  | 9.8  |   | 20.0     |            |   |                |
| Vinyl chloride                        | 2.0831<br>2.0894 | 2.2659<br>1.9948 | 2.2541<br>1.8645 | 2.0107 | 1.9606 | Ave        |             | 2.065<br>4 |    |   | 0.1000  | 6.7  |   | 20.0     |            |   |                |
| Butadiene                             | 2.2564<br>2.6533 | 2.4568<br>2.5262 | 2.5762<br>2.3388 | 2.3513 | 2.3434 | Ave        |             | 2.437<br>8 |    |   |         | 5.7  |   | 20.0     |            |   |                |
| Bromomethane                          | 1.2189<br>1.1841 | 1.4311<br>1.0748 | 1.2829<br>1.0434 | 1.2365 | 1.1738 | Ave        |             | 1.205<br>7 |    |   | 0.1000  | 10.1 |   | 20.0     |            |   |                |
| Chloroethane                          | ++++<br>1.3513   | 1.4044<br>1.2497 | 1.3534<br>1.1836 | 1.3585 | 1.2064 | Ave        |             | 1.301<br>1 |    |   | 0.1000  | 6.6  |   | 20.0     |            |   |                |
| Trichlorofluoromethane                | 2.5794<br>2.5844 | 3.1441<br>2.5022 | 2.5473<br>2.4341 | 2.4065 | 2.5199 | Ave        |             | 2.589<br>7 |    |   | 0.1000  | 9.0  |   | 20.0     |            |   |                |
| Dichlorofluoromethane                 | 3.1014<br>2.9356 | 3.2663<br>2.7230 | 2.9125<br>2.6382 | 2.7881 | 2.7736 | Ave        |             | 2.892<br>3 |    |   |         | 7.2  |   | 20.0     |            |   |                |
| Ethyl ether                           | 1.9497<br>1.9191 | 1.8796<br>1.7534 | 1.9101<br>1.7049 | 1.8113 | 1.7870 | Ave        |             | 1.839<br>4 |    |   |         | 4.8  |   | 20.0     |            |   |                |
| Acrolein                              | 0.2482<br>0.2681 | 0.3123<br>0.2431 | 0.2467<br>0.2407 | 0.2575 | 0.2387 | Ave        |             | 0.256<br>9 |    |   |         | 9.5  |   | 20.0     |            |   |                |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.9110<br>1.3607 | 1.2317<br>1.2270 | 1.2264<br>1.3022 | 1.2619 | 1.4082 | Ave        |             | 1.241<br>1 |    |   | 0.1000  | 12.0 |   | 20.0     |            |   |                |
| 1,1-Dichloroethene                    | 1.5048<br>1.4330 | 1.4220<br>1.2957 | 1.4925<br>1.2490 | 1.1841 | 1.3605 | Ave        |             | 1.367<br>7 |    |   | 0.1000  | 8.5  |   | 20.0     |            |   |                |
| Acetone                               | ++++<br>0.8530   | 0.8558<br>0.7580 | 0.8427<br>0.7850 | 0.8092 | 0.7455 | Ave        |             | 0.807<br>0 |    |   | 0.1000  | 5.6  |   | 20.0     |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                  | RRF              |                  |                  |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|--------------------------|------------------|------------------|------------------|--------|--------|---------------|-------------|------------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                          | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5  |               | B           | M1         | M2 |   |         |      |   |             |               |   |                   |
| Iodomethane              | ++++<br>2.5157   | 2.5173<br>2.3649 | 2.4104<br>2.4463 | 2.3476 | 2.3957 | Ave           |             | 2.428<br>3 |    |   |         | 2.8  |   | 20.0        |               |   |                   |
| Carbon disulfide         | 3.9988<br>4.6296 | 4.4213<br>4.4537 | 4.6433<br>4.6971 | 4.1415 | 4.3135 | Ave           |             | 4.412<br>4 |    |   | 0.1000  | 5.7  |   | 20.0        |               |   |                   |
| Allyl chloride           | 3.5142<br>3.5076 | 3.4765<br>3.1174 | 3.3525<br>3.1281 | 3.0906 | 3.1057 | Ave           |             | 3.286<br>6 |    |   |         | 5.9  |   | 20.0        |               |   |                   |
| Methyl acetate           | ++++<br>2.2296   | 2.3648<br>2.0514 | 2.4414<br>2.0107 | 2.1668 | 2.1045 | Ave           |             | 2.195<br>6 |    |   | 0.1000  | 7.3  |   | 20.0        |               |   |                   |
| Methylene Chloride       | 2.3531<br>1.8355 | 2.5579<br>1.7550 | 1.9814<br>1.6684 | 1.7828 | 1.7537 | Lin1          | 0.523<br>7  | 1.707<br>7 |    |   | 0.1000  | 12.7 |   |             | 0.9990        |   | 0.9900            |
| 2-Methyl-2-propanol      | 0.2392<br>0.2358 | 0.2379<br>0.2213 | 0.2419<br>0.2689 | 0.2217 | 0.2421 | Ave           |             | 0.238<br>6 |    |   |         | 6.2  |   | 20.0        |               |   |                   |
| Methyl tert-butyl ether  | 5.4548<br>5.6175 | 6.0940<br>5.2672 | 5.7628<br>5.2358 | 5.2002 | 5.2813 | Ave           |             | 5.489<br>2 |    |   | 0.1000  | 5.8  |   | 20.0        |               |   |                   |
| trans-1,2-Dichloroethene | 1.5848<br>1.8251 | 1.8949<br>1.6598 | 1.7203<br>1.6222 | 1.7155 | 1.6862 | Ave           |             | 1.713<br>6 |    |   | 0.1000  | 6.0  |   | 20.0        |               |   |                   |
| Acrylonitrile            | 1.1015<br>1.1111 | 1.1456<br>1.0453 | 1.1382<br>1.0959 | 1.0726 | 1.0773 | Ave           |             | 1.098<br>4 |    |   |         | 3.1  |   | 20.0        |               |   |                   |
| Hexane                   | ++++<br>3.8136   | 3.7204<br>3.5185 | 3.7750<br>3.3428 | 3.2233 | 3.3996 | Ave           |             | 3.541<br>9 |    |   |         | 6.5  |   | 20.0        |               |   |                   |
| 1,1-Dichloroethane       | 3.5241<br>3.7320 | 4.0738<br>3.4547 | 3.6540<br>3.3565 | 3.5065 | 3.4881 | Ave           |             | 3.598<br>7 |    |   | 0.2000  | 6.2  |   | 20.0        |               |   |                   |
| Vinyl acetate            | 4.6952<br>5.4277 | 4.6772<br>5.3033 | 4.4747<br>5.5089 | 4.4268 | 4.4480 | Ave           |             | 4.870<br>2 |    |   |         | 9.5  |   | 20.0        |               |   |                   |
| 2,2-Dichloropropane      | 1.7555<br>2.1162 | 2.3693<br>2.0110 | 1.9619<br>1.8670 | 1.9694 | 1.8807 | Ave           |             | 1.991<br>4 |    |   |         | 9.4  |   | 20.0        |               |   |                   |
| cis-1,2-Dichloroethene   | ++++<br>1.9739   | 2.2239<br>1.8306 | 2.0657<br>1.7486 | 1.9048 | 1.7327 | Ave           |             | 1.925<br>8 |    |   | 0.1000  | 9.2  |   | 20.0        |               |   |                   |
| 2-Butanone (MEK)         | 1.3418<br>1.4437 | 1.4682<br>1.3327 | 1.3483<br>1.3396 | 1.3344 | 1.2973 | Ave           |             | 1.363<br>3 |    |   | 0.1000  | 4.4  |   | 20.0        |               |   |                   |
| Chlorobromomethane       | 1.1493<br>1.0111 | 1.3497<br>0.9451 | 1.0682<br>0.9127 | 1.0093 | 0.9899 | Ave           |             | 1.054<br>4 |    |   |         | 13.2 |   | 20.0        |               |   |                   |
| Tetrahydrofuran          | 0.9996<br>0.8964 | 0.9894<br>0.8451 | 0.8974<br>0.8276 | 0.8177 | 0.8831 | Ave           |             | 0.894<br>6 |    |   |         | 7.7  |   | 20.0        |               |   |                   |
| Chloroform               | 3.5507<br>3.2333 | 3.4465<br>3.0050 | 3.2635<br>2.9423 | 2.9979 | 3.0319 | Ave           |             | 3.183<br>9 |    |   | 0.2000  | 7.1  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                     | RRF              |                  |                  |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|-----------------------------|------------------|------------------|------------------|--------|--------|---------------|-------------|------------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                             | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |               | B           | M1         | M2 |   |         |      |   |             |               |   |                   |
|                             | LVL 6            | LVL 7            | LVL 8            |        |        |               |             |            |    |   |         |      |   |             |               |   |                   |
| Cyclohexane                 | ++++<br>4.0309   | 3.8310<br>3.7806 | 3.7959<br>3.4924 | 3.4953 | 3.5509 | Ave           |             | 3.711<br>0 |    |   | 0.1000  | 5.5  |   | 20.0        |               |   |                   |
| 1,1,1-Trichloroethane       | 2.3334<br>2.6716 | 2.6550<br>2.5421 | 2.5656<br>2.4782 | 2.3140 | 2.4037 | Ave           |             | 2.495<br>5 |    |   | 0.1000  | 5.5  |   | 20.0        |               |   |                   |
| Carbon tetrachloride        | 2.2266<br>2.2372 | 2.3229<br>2.1718 | 1.9772<br>2.0903 | 1.8687 | 2.0151 | Ave           |             | 2.113<br>7 |    |   | 0.1000  | 7.2  |   | 20.0        |               |   |                   |
| 1,1-Dichloropropene         | ++++<br>2.5504   | 2.5745<br>2.4602 | 2.5775<br>2.3757 | 2.3899 | 2.4036 | Ave           |             | 2.476<br>0 |    |   |         | 3.6  |   | 20.0        |               |   |                   |
| Benzene                     | 7.6182<br>7.8116 | 8.3115<br>7.1443 | 7.5322<br>7.0659 | 7.1898 | 7.2041 | Ave           |             | 7.484<br>7 |    |   | 0.5000  | 5.7  |   | 20.0        |               |   |                   |
| Isobutyl alcohol            | 0.1121<br>0.1088 | 0.1035<br>0.1032 | 0.0976<br>++++   | 0.0888 | 0.0848 | Ave           |             | 0.099<br>8 |    |   |         | 10.1 |   | 20.0        |               |   |                   |
| 1,2-Dichloroethane          | 3.2118<br>2.9908 | 3.3592<br>2.8219 | 3.0578<br>2.7828 | 2.9731 | 2.8150 | Ave           |             | 3.001<br>6 |    |   | 0.1000  | 6.8  |   | 20.0        |               |   |                   |
| n-Heptane                   | 4.2823<br>4.5013 | 4.4868<br>4.3122 | 4.2542<br>3.7406 | 3.9674 | 4.3876 | Ave           |             | 4.241<br>6 |    |   |         | 6.2  |   | 20.0        |               |   |                   |
| Trichloroethene             | 1.8502<br>1.8923 | 1.9714<br>1.7398 | 1.9955<br>1.7064 | 1.8159 | 1.7894 | Ave           |             | 1.845<br>1 |    |   | 0.2000  | 5.6  |   | 20.0        |               |   |                   |
| Methylcyclohexane           | ++++<br>3.4493   | 3.1124<br>3.2958 | 3.3565<br>3.1579 | 2.8306 | 3.1929 | Ave           |             | 3.199<br>4 |    |   | 0.1000  | 6.3  |   | 20.0        |               |   |                   |
| 1,2-Dichloropropane         | 2.0680<br>2.1624 | 2.1825<br>2.0488 | 2.1431<br>1.9574 | 1.9568 | 2.0185 | Ave           |             | 2.067<br>2 |    |   | 0.1000  | 4.3  |   | 20.0        |               |   |                   |
| Dibromomethane              | 1.1701<br>1.1743 | 1.1094<br>1.0579 | 1.1535<br>1.0447 | 1.0179 | 1.0838 | Ave           |             | 1.101<br>5 |    |   | 0.1000  | 5.4  |   | 20.0        |               |   |                   |
| 1,4-Dioxane                 | ++++<br>0.0089   | 0.0067<br>0.0096 | 0.0094<br>0.0098 | 0.0114 | 0.0103 | Ave           |             | 0.009<br>5 |    |   |         | 15.3 |   | 20.0        |               |   |                   |
| Bromodichloromethane        | 2.1006<br>2.2600 | 2.1905<br>2.1674 | 2.0971<br>2.1978 | 2.0389 | 2.0498 | Ave           |             | 2.137<br>8 |    |   | 0.2000  | 3.7  |   | 20.0        |               |   |                   |
| 2-Chloroethyl vinyl ether   | 1.2698<br>1.4259 | 1.5268<br>1.4130 | 1.4318<br>1.4287 | 1.2849 | 1.3485 | Ave           |             | 1.391<br>2 |    |   |         | 6.1  |   | 20.0        |               |   |                   |
| cis-1,3-Dichloropropene     | 2.5210<br>2.8739 | 2.7027<br>2.8215 | 2.4424<br>2.8396 | 2.3806 | 2.6465 | Ave           |             | 2.653<br>5 |    |   | 0.2000  | 7.1  |   | 20.0        |               |   |                   |
| 4-Methyl-2-pentanone (MIBK) | 1.4803<br>1.4763 | 1.4700<br>1.5195 | 1.4081<br>1.5310 | 1.3530 | 1.4874 | Ave           |             | 1.465<br>7 |    |   | 0.1000  | 4.0  |   | 20.0        |               |   |                   |
| Toluene                     | 2.1960<br>2.2916 | 2.4569<br>2.3022 | 2.3550<br>2.3088 | 2.1336 | 2.3914 | Ave           |             | 2.304<br>4 |    |   | 0.4000  | 4.5  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                   | RRF              |                  |                  |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|---------------------------|------------------|------------------|------------------|--------|--------|---------------|-------------|------------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                           | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5  |               | B           | M1         | M2 |   |         |      |   |             |               |   |                   |
| trans-1,3-Dichloropropene | 1.1132<br>1.2458 | 1.1177<br>1.3001 | 1.0648<br>++++   | 1.0937 | 1.1754 | Ave           |             | 1.158<br>7 |    |   | 0.1000  | 7.4  |   | 20.0        |               |   |                   |
| Ethyl methacrylate        | ++++<br>1.1768   | 1.0152<br>1.2380 | 0.8812<br>1.3334 | 1.0206 | 1.0889 | Ave           |             | 1.107<br>7 |    |   |         | 13.8 |   | 20.0        |               |   |                   |
| 1,1,2-Trichloroethane     | 0.7169<br>0.6927 | 0.7311<br>0.6862 | 0.7281<br>0.6889 | 0.6283 | 0.7138 | Ave           |             | 0.698<br>3 |    |   | 0.1000  | 4.8  |   | 20.0        |               |   |                   |
| Tetrachloroethene         | ++++<br>0.9883   | 1.0270<br>1.0050 | 1.0865<br>0.9767 | 0.9089 | 1.0045 | Ave           |             | 0.999<br>6 |    |   | 0.2000  | 5.4  |   | 20.0        |               |   |                   |
| 1,3-Dichloropropane       | 1.5364<br>1.4455 | 1.5666<br>1.4704 | 1.4529<br>1.4741 | 1.3866 | 1.5205 | Ave           |             | 1.481<br>6 |    |   |         | 3.9  |   | 20.0        |               |   |                   |
| 2-Hexanone                | 0.9140<br>1.0525 | 0.9624<br>1.0728 | 0.9312<br>1.1023 | 0.9398 | 1.0676 | Ave           |             | 1.005<br>3 |    |   | 0.1000  | 7.5  |   | 20.0        |               |   |                   |
| Dibromochloromethane      | 0.6764<br>0.7559 | 0.6251<br>0.7927 | 0.6314<br>++++   | 0.6623 | 0.7184 | Ave           |             | 0.694<br>6 |    |   | 0.1000  | 9.1  |   | 20.0        |               |   |                   |
| 1,2-Dibromoethane         | 0.7995<br>0.8538 | 0.8737<br>0.8483 | 0.8478<br>0.8718 | 0.7924 | 0.8548 | Ave           |             | 0.842<br>8 |    |   |         | 3.6  |   | 20.0        |               |   |                   |
| Chlorobenzene             | 2.7959<br>2.5985 | 2.9223<br>2.6378 | 2.7560<br>2.6427 | 2.5973 | 2.7672 | Ave           |             | 2.714<br>7 |    |   | 0.5000  | 4.2  |   | 20.0        |               |   |                   |
| Ethylbenzene              | ++++<br>4.3342   | 4.3271<br>4.5002 | 4.0757<br>4.5522 | 4.0672 | 4.3997 | Ave           |             | 4.322<br>3 |    |   | 0.1000  | 4.4  |   | 20.0        |               |   |                   |
| 1,1,1,2-Tetrachloroethane | 0.9370<br>0.8714 | 0.9610<br>0.9164 | 0.7795<br>0.9612 | 0.8333 | 0.8667 | Ave           |             | 0.890<br>8 |    |   |         | 7.3  |   | 20.0        |               |   |                   |
| m,p-Xylene                | ++++<br>1.7631   | 1.6917<br>1.7670 | 1.5776<br>1.7709 | 1.6393 | 1.7745 | Ave           |             | 1.712<br>0 |    |   | 0.1000  | 4.6  |   | 20.0        |               |   |                   |
| o-Xylene                  | ++++<br>1.6745   | 1.6235<br>1.6803 | 1.6489<br>1.7118 | 1.5344 | 1.6980 | Ave           |             | 1.653<br>1 |    |   | 0.3000  | 3.6  |   | 20.0        |               |   |                   |
| Styrene                   | ++++<br>2.9326   | 2.5787<br>2.9724 | 2.4992<br>3.0431 | 2.5344 | 2.8590 | Ave           |             | 2.774<br>2 |    |   | 0.3000  | 8.3  |   | 20.0        |               |   |                   |
| Bromoform                 | 0.4491<br>0.4944 | 0.4910<br>0.5085 | 0.4376<br>++++   | 0.3938 | 0.4609 | Ave           |             | 0.462<br>2 |    |   | 0.1000  | 8.6  |   | 20.0        |               |   |                   |
| Isopropylbenzene          | 3.6179<br>4.4726 | 4.1648<br>4.3785 | 3.7807<br>4.6073 | 3.8278 | 4.0911 | Ave           |             | 4.117<br>6 |    |   | 0.1000  | 8.6  |   | 20.0        |               |   |                   |
| Bromobenzene              | ++++<br>1.1191   | 1.1782<br>1.0657 | 1.0102<br>1.0912 | 1.0519 | 1.0645 | Ave           |             | 1.083<br>0 |    |   |         | 5.0  |   | 20.0        |               |   |                   |
| 1,1,2,2-Tetrachloroethane | 1.0622<br>1.0964 | 1.3551<br>1.0781 | 1.0630<br>1.1107 | 1.0575 | 1.0603 | Ave           |             | 1.110<br>4 |    |   | 0.3000  | 9.1  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                     | RRF              |                  |                  |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | #      | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|-----------------------------|------------------|------------------|------------------|--------|--------|---------------|-------------|------------|----|--------|---------|------|---|-------------|---------------|---|-------------------|
|                             | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5  |               | B           | M1         | M2 |        |         |      |   |             |               |   |                   |
| N-Propylbenzene             | ++++<br>5.2117   | 4.8864<br>5.0282 | 4.6082<br>5.3384 | 4.5343 | 4.7023 | Ave           |             | 4.901<br>4 |    |        |         | 6.3  |   | 20.0        |               |   |                   |
| 1,2,3-Trichloropropane      | 0.3440<br>0.3785 | 0.4206<br>0.3475 | 0.3767<br>0.3669 | 0.3501 | 0.3629 | Ave           |             | 0.368<br>4 |    |        |         | 6.7  |   | 20.0        |               |   |                   |
| trans-1,4-Dichloro-2-butene | 0.2355<br>0.3610 | 0.2745<br>0.3708 | 0.2324<br>++++   | 0.2610 | 0.2881 | Ave           |             | 0.289<br>0 |    |        |         | 19.4 |   | 20.0        |               |   |                   |
| 2-Chlorotoluene             | 0.9852<br>1.0587 | 1.0927<br>0.9934 | 0.9913<br>1.0156 | 0.9413 | 0.9808 | Ave           |             | 1.007<br>4 |    |        |         | 4.7  |   | 20.0        |               |   |                   |
| 1,3,5-Trimethylbenzene      | ++++<br>3.8262   | 3.3431<br>3.7391 | 3.3463<br>3.9488 | 3.2868 | 3.4820 | Ave           |             | 3.567<br>5 |    |        |         | 7.5  |   | 20.0        |               |   |                   |
| 4-Chlorotoluene             | 0.9963<br>1.0936 | 1.1335<br>1.0314 | 1.0352<br>1.0825 | 1.0131 | 1.0293 | Ave           |             | 1.051<br>9 |    |        |         | 4.4  |   | 20.0        |               |   |                   |
| tert-Butylbenzene           | ++++<br>0.8618   | 0.8003<br>0.8505 | 0.7679<br>0.8690 | 0.7309 | 0.7581 | Ave           |             | 0.805<br>5 |    |        |         | 6.9  |   | 20.0        |               |   |                   |
| 1,2,4-Trimethylbenzene      | 3.2123<br>3.8872 | 3.4861<br>3.7850 | 3.2637<br>4.0401 | 3.3437 | 3.5374 | Ave           |             | 3.569<br>4 |    |        |         | 8.5  |   | 20.0        |               |   |                   |
| sec-Butylbenzene            | 3.9623<br>4.9186 | 4.8040<br>4.9029 | 4.1285<br>5.2120 | 4.2175 | 4.5665 | Ave           |             | 4.589<br>0 |    |        |         | 9.7  |   | 20.0        |               |   |                   |
| 1,3-Dichlorobenzene         | 2.2856<br>2.2384 | 2.3463<br>2.1034 | 2.2139<br>2.2011 | 2.0158 | 2.1024 | Ave           |             | 2.188<br>4 |    | 0.6000 |         | 4.9  |   | 20.0        |               |   |                   |
| 4-Isopropyltoluene          | 3.5631<br>4.3003 | 3.6825<br>4.2666 | 3.6478<br>++++   | 3.6289 | 3.8396 | Ave           |             | 3.847<br>0 |    |        |         | 8.1  |   | 20.0        |               |   |                   |
| 1,4-Dichlorobenzene         | 2.5388<br>2.2612 | 2.5086<br>2.1197 | 2.2627<br>2.2339 | 2.1177 | 2.1323 | Ave           |             | 2.271<br>9 |    | 0.5000 |         | 7.4  |   | 20.0        |               |   |                   |
| n-Butylbenzene              | 3.0321<br>3.8348 | 3.1197<br>3.7776 | 3.2177<br>4.0303 | 3.1326 | 3.4522 | Ave           |             | 3.449<br>6 |    |        |         | 11.1 |   | 20.0        |               |   |                   |
| 1,2-Dichlorobenzene         | 2.1034<br>2.1640 | 2.2272<br>2.0238 | 2.0785<br>2.1339 | 1.9860 | 2.0397 | Ave           |             | 2.094<br>6 |    | 0.4000 |         | 3.8  |   | 20.0        |               |   |                   |
| 1,2-Dibromo-3-Chloropropane | ++++<br>0.1959   | 0.1971<br>0.1967 | 0.1401<br>0.2257 | 0.1645 | 0.1819 | Ave           |             | 0.186<br>0 |    | 0.0500 |         | 14.7 |   | 20.0        |               |   |                   |
| 1,2,4-Trichlorobenzene      | 1.4490<br>1.6285 | 1.6814<br>1.6724 | 1.5570<br>1.7637 | 1.4365 | 1.5178 | Ave           |             | 1.588<br>3 |    | 0.2000 |         | 7.4  |   | 20.0        |               |   |                   |
| Hexachlorobutadiene         | 0.6318<br>0.7544 | 0.8042<br>0.7305 | 0.5939<br>0.7488 | 0.6346 | 0.6998 | Ave           |             | 0.699<br>8 |    |        |         | 10.4 |   | 20.0        |               |   |                   |
| Naphthalene                 | 3.4996<br>4.2071 | 3.6198<br>4.2886 | 3.3058<br>++++   | 3.4758 | 3.5892 | Ave           |             | 3.712<br>3 |    |        |         | 10.2 |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.



FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                      | RRF              |                  |                  |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|------------------------------|------------------|------------------|------------------|--------|--------|---------------|-------------|------------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                              | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |               | B           | M1         | M2 |   |         |      |   |             |               |   |                   |
|                              | LVL 6            | LVL 7            | LVL 8            |        |        |               |             |            |    |   |         |      |   |             |               |   |                   |
| 1,2,3-Trichlorobenzene       | ++++<br>1.6544   | 1.6206<br>1.6114 | 1.4594<br>1.6968 | 1.4282 | 1.4693 | Ave           |             | 1.562<br>9 |    |   |         | 6.9  |   | 20.0        |               |   |                   |
| Dibromofluoromethane (Surr)  | 1.3219<br>1.3129 | 1.2626<br>1.2547 | 1.2899<br>1.2004 | 1.2653 | 1.2492 | Ave           |             | 1.269<br>6 |    |   |         | 3.1  |   | 20.0        |               |   |                   |
| 1,2-Dichloroethane-d4 (Surr) | 0.8901<br>0.9238 | 0.8915<br>0.8235 | 0.8535<br>0.8154 | 0.8640 | 0.8639 | Ave           |             | 0.865<br>7 |    |   |         | 4.2  |   | 20.0        |               |   |                   |
| Toluene-d8 (Surr)            | 2.3646<br>2.4131 | 2.4338<br>2.4188 | 2.3797<br>2.5128 | 2.4002 | 2.5711 | Ave           |             | 2.436<br>8 |    |   |         | 2.9  |   | 20.0        |               |   |                   |
| 4-Bromofluorobenzene (Surr)  | 0.7892<br>0.8216 | 0.8131<br>0.7915 | 0.7949<br>0.8195 | 0.7978 | 0.8463 | Ave           |             | 0.809<br>2 |    |   |         | 2.4  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

Calibration Files

|         |                    |              |
|---------|--------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:     | LAB FILE ID: |
| Level 1 | IC 480-636697/13   | S4495.D      |
| Level 2 | IC 480-636697/14   | S4496.D      |
| Level 3 | IC 480-636697/15   | S4497.D      |
| Level 4 | IC 480-636697/16   | S4498.D      |
| Level 5 | IC 480-636697/17   | S4499.D      |
| Level 6 | ICIS 480-636697/18 | S4500.D      |
| Level 7 | IC 480-636697/19   | S4501.D      |
| Level 8 | IC 480-636697/20   | S4502.D      |

| ANALYTE                                   | IS<br>REF | CURVE<br>TYPE | RESPONSE        |                  |                  |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|-------------------------------------------|-----------|---------------|-----------------|------------------|------------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                                           |           |               | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane                   | FB        | Ave           | 7285<br>395131  | 15627<br>785884  | 31697<br>1596548 | 71780  | 153515 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Chloromethane                             | FB        | Ave           | 13346<br>593662 | 26144<br>1187385 | 51616<br>2319392 | 113542 | 231282 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Vinyl chloride                            | FB        | Ave           | 7605<br>382171  | 16387<br>782267  | 32619<br>1511681 | 75321  | 150597 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Butadiene                                 | FB        | Ave           | 8238<br>485314  | 17768<br>990649  | 37280<br>1896213 | 88081  | 179994 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Bromomethane                              | FB        | Ave           | 4450<br>216586  | 10350<br>421498  | 18565<br>845971  | 46318  | 90158  | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Chloroethane                              | FB        | Ave           | ++++<br>247169  | 10157<br>490070  | 19585<br>959600  | 50890  | 92666  | ++++<br>25.0         | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Trichlorofluoromethane                    | FB        | Ave           | 9417<br>472711  | 22738<br>981244  | 36861<br>1973504 | 90146  | 193553 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Dichlorofluoromethane                     | FB        | Ave           | 11323<br>536953 | 23622<br>1067803 | 42146<br>2139010 | 104440 | 213038 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Ethyl ether                               | FB        | Ave           | 7118<br>351015  | 13593<br>687596  | 27641<br>1382287 | 67851  | 137259 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Acrolein                                  | FB        | Ave           | 4530<br>245160  | 11293<br>476589  | 17848<br>975764  | 48235  | 91682  | 2.50<br>125          | 5.00<br>250    | 10.0<br>500    | 25.0  | 50.0  |
| 1,1,2-Trichloro-1,2,2-trifluoroe<br>thane | FB        | Ave           | 3326<br>248879  | 8908<br>481167   | 17747<br>1055805 | 47269  | 108164 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 1,1-Dichloroethene                        | FB        | Ave           | 5494<br>262112  | 10284<br>508092  | 21597<br>1012682 | 44356  | 104497 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Acetone                                   | FB        | Ave           | ++++<br>30946   | 60974            | 151568           | 286308 | ++++   | 5.00                 | 10.0           | 25.0           | 50.0  |       |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                  | IS<br>REF | CURVE<br>TYPE | RESPONSE         |                  |                   |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|--------------------------|-----------|---------------|------------------|------------------|-------------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                          |           |               | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8    | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
|                          |           |               | 780086           | 1486299          | 3182444           |        |        | 125                  | 250            | 500            |       |       |
| Iodomethane              | FB        | Ave           | ++++<br>460148   | 18205<br>927367  | 34880<br>1983398  | 87940  | 184011 | ++++<br>25.0         | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Carbon disulfide         | FB        | Ave           | 14599<br>846794  | 31975<br>1746515 | 67192<br>3808315  | 155141 | 331323 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Allyl chloride           | FB        | Ave           | 12830<br>641577  | 25142<br>1222495 | 48513<br>2536198  | 115773 | 238552 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Methyl acetate           | FB        | Ave           | ++++<br>815629   | 34204<br>1608930 | 70658<br>3260537  | 162339 | 323298 | ++++<br>50.0         | 2.00<br>100    | 4.00<br>200    | 10.0  | 20.0  |
| Methylene Chloride       | FB        | Lin1          | 8591<br>335721   | 18499<br>688224  | 28673<br>1352678  | 66784  | 134703 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 2-Methyl-2-propanol      | FB        | Ave           | 8732<br>431364   | 17202<br>867893  | 35000<br>2180455  | 83039  | 185951 | 5.00<br>250          | 10.0<br>500    | 20.0<br>1000   | 50.0  | 100   |
| Methyl tert-butyl ether  | FB        | Ave           | 19915<br>1027489 | 44072<br>2065530 | 83392<br>4245084  | 194799 | 405660 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| trans-1,2-Dichloroethene | FB        | Ave           | 5786<br>333820   | 13704<br>650872  | 24894<br>1315246  | 64262  | 129516 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Acrylonitrile            | FB        | Ave           | 40214<br>2032279 | 82848<br>4099110 | 164711<br>8885232 | 401779 | 827483 | 5.00<br>250          | 10.0<br>500    | 20.0<br>1000   | 50.0  | 100   |
| Hexane                   | FB        | Ave           | ++++<br>697545   | 26906<br>1379774 | 54627<br>2710279  | 120745 | 261122 | ++++<br>25.0         | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 1,1-Dichloroethane       | FB        | Ave           | 12866<br>682607  | 29462<br>1354761 | 52876<br>2721379  | 131353 | 267921 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Vinyl acetate            | FB        | Ave           | 34283<br>1985551 | 67651<br>4159306 | 129506<br>8932995 | 331655 | 683301 | 1.00<br>50.0         | 2.00<br>100    | 4.00<br>200    | 10.0  | 20.0  |
| 2,2-Dichloropropane      | FB        | Ave           | 6409<br>387078   | 17135<br>788603  | 28390<br>1513700  | 73775  | 144453 | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| cis-1,2-Dichloroethene   | FB        | Ave           | ++++<br>361049   | 16083<br>717873  | 29893<br>1417760  | 71354  | 133085 | ++++<br>25.0         | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 2-Butanone (MEK)         | FB        | Ave           | 24494<br>1320356 | 53090<br>2613030 | 97556<br>5430665  | 249931 | 498230 | 2.50<br>125          | 5.00<br>250    | 10.0<br>500    | 25.0  | 50.0  |
| Chlorobromomethane       | FB        | Ave           | 4196<br>184931   | 9761<br>370617   | 15458<br>739966   | 37807  | 76032  | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Tetrahydrofuran          | FB        | Ave           | 7299<br>327935   | 14311<br>662805  | 25973<br>1341957  | 61265  | 135666 | 1.00<br>50.0         | 2.00<br>100    | 4.00<br>200    | 10.0  | 20.0  |
| Chloroform               | FB        | Ave           | 12963            | 24925            | 47226             | 112302 | 232882 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                     | IS<br>REF  | CURVE<br>TYPE | RESPONSE         |                  |                   |        |         | CONCENTRATION (UG/L) |                |                |       |       |
|-----------------------------|------------|---------------|------------------|------------------|-------------------|--------|---------|----------------------|----------------|----------------|-------|-------|
|                             |            |               | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8    | LVL 4  | LVL 5   | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
|                             |            |               | 591396           | 1178415          | 2385540           |        |         | 25.0                 | 50.0           | 100            |       |       |
| Cyclohexane                 | FB         | Ave           | ++++<br>737278   | 27706<br>1482566 | 54930<br>2831548  | 130935 | 272745  | ++++<br>25.0         | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 1,1,1-Trichloroethane       | FB         | Ave           | 8519<br>488654   | 19201<br>996892  | 37127<br>2009240  | 86682  | 184630  | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Carbon tetrachloride        | FB         | Ave           | 8129<br>409200   | 16799<br>851656  | 28611<br>1694778  | 70002  | 154780  | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 1,1-Dichloropropene         | FB         | Ave           | ++++<br>466493   | 18619<br>964738  | 37299<br>1926173  | 89526  | 184619  | ++++<br>25.0         | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Benzene                     | FB         | Ave           | 27813<br>1428812 | 60109<br>2801624 | 108997<br>5728860 | 269327 | 553348  | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Isobutyl alcohol            | FB         | Ave           | 10235<br>497632  | 18718<br>1011570 | 35301<br>++++     | 83187  | 162822  | 12.5<br>625          | 25.0<br>1250   | 50.0<br>++++   | 125   | 250   |
| 1,2-Dichloroethane          | FB         | Ave           | 11726<br>547049  | 24294<br>1106593 | 44249<br>2256211  | 111372 | 216223  | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| n-Heptane                   | FB         | Ave           | 15634<br>823320  | 32449<br>1691030 | 61562<br>3032834  | 148619 | 337015  | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Trichloroethene             | FB         | Ave           | 6755<br>346121   | 14257<br>682274  | 28876<br>1383528  | 68024  | 137446  | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Methylcyclohexane           | FB         | Ave           | ++++<br>630901   | 22509<br>1292449 | 48571<br>2560399  | 106034 | 245250  | ++++<br>25.0         | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 1,2-Dichloropropane         | FB         | Ave           | 7550<br>395517   | 15784<br>803434  | 31013<br>1587058  | 73300  | 155040  | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Dibromomethane              | FB         | Ave           | 4272<br>214787   | 8023<br>414844   | 16692<br>847032   | 38130  | 83250   | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 1,4-Dioxane                 | CBNZ<br>d5 | Ave           | ++++<br>69322    | 2017<br>147189   | 5716<br>301983    | 17646  | 30638   | ++++<br>500          | 20.0<br>1000   | 40.0<br>2000   | 100   | 200   |
| Bromodichloromethane        | FB         | Ave           | 7669<br>413366   | 15842<br>849949  | 30347<br>1781918  | 76376  | 157446  | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 2-Chloroethyl vinyl ether   | FB         | Ave           | 4636<br>260807   | 11042<br>554092  | 20719<br>1158370  | 48131  | 103582  | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| cis-1,3-Dichloropropene     | FB         | Ave           | 9204<br>525654   | 19546<br>1106426 | 35343<br>2302314  | 89177  | 203277  | 0.500<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 4-Methyl-2-pentanone (MIBK) | CBNZ<br>d5 | Ave           | 56728            | 110314           | 213583            | 522072 | 1104129 | 2.50                 | 5.00           | 10.0           | 25.0  | 50.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                   | IS<br>REF  | CURVE<br>TYPE | RESPONSE       |                |                |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|---------------------------|------------|---------------|----------------|----------------|----------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                           |            |               | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
|                           |            |               | 2860010        | 5840745        | 11752786       |        |        | 125                  | 250            | 500            |       |       |
| Toluene                   | CBNZ<br>d5 | Ave           | 16831          | 36873          | 71444          | 164652 | 355049 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 887883         | 1769820        | 3544631        |        |        | 25.0                 | 50.0           | 100            |       |       |
| trans-1,3-Dichloropropene | CBNZ<br>d5 | Ave           | 8532           | 16775          | 32303          | 84404  | 174510 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 482674         | 999435         | +++++          |        |        | 25.0                 | 50.0           | +++++          |       |       |
| Ethyl methacrylate        | CBNZ<br>d5 | Ave           | +++++          | 15236          | 26732          | 78762  | 161671 | +++++                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 455953         | 951704         | 2047139        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,1,2-Trichloroethane     | CBNZ<br>d5 | Ave           | 5495           | 10973          | 22090          | 48487  | 105984 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 268402         | 527523         | 1057594        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Tetrachloroethene         | CBNZ<br>d5 | Ave           | +++++          | 15414          | 32962          | 70143  | 149137 | +++++                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 382922         | 772568         | 1499525        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,3-Dichloropropane       | CBNZ<br>d5 | Ave           | 11776          | 23512          | 44078          | 107007 | 225745 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 560064         | 1130357        | 2263120        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 2-Hexanone                | CBNZ<br>d5 | Ave           | 35027          | 72223          | 141253         | 362618 | 792558 | 2.50                 | 5.00           | 10.0           | 25.0  | 50.0  |
|                           |            |               | 2039028        | 4123558        | 8461887        |        |        | 125                  | 250            | 500            |       |       |
| Dibromochloromethane      | CBNZ<br>d5 | Ave           | 5184           | 9381           | 19156          | 51112  | 106654 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 292878         | 609387         | +++++          |        |        | 25.0                 | 50.0           | +++++          |       |       |
| 1,2-Dibromoethane         | CBNZ<br>d5 | Ave           | 6128           | 13112          | 25720          | 61147  | 126909 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 330805         | 652156         | 1338460        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Chlorobenzene             | CBNZ<br>d5 | Ave           | 21429          | 43859          | 83610          | 200437 | 410847 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 1006794        | 2027822        | 4057287        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Ethylbenzene              | CBNZ<br>d5 | Ave           | +++++          | 64942          | 123646         | 313865 | 653220 | +++++                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 1679293        | 3459527        | 6988878        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,1,1,2-Tetrachloroethane | CBNZ<br>d5 | Ave           | 7182           | 14423          | 23647          | 64305  | 128683 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                     | IS<br>REF  | CURVE<br>TYPE | RESPONSE       |                |                |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|-----------------------------|------------|---------------|----------------|----------------|----------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                             |            |               | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
|                             |            |               | 337609         | 704483         | 1475697        |        |        | 25.0                 | 50.0           | 100            |       |       |
| m,p-Xylene                  | CBNZ<br>d5 | Ave           | ++++           | 25390          | 47861          | 126505 | 263458 | ++++                 | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |               | 683116         | 1358414        | 2718893        |        |        | 25.0                 | 50.0           | 100            |       |       |
| o-Xylene                    | CBNZ<br>d5 | Ave           | ++++           | 24366          | 50024          | 118407 | 252100 | ++++                 | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |               | 648793         | 1291723        | 2628097        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Styrene                     | CBNZ<br>d5 | Ave           | ++++           | 38702          | 75820          | 195585 | 424468 | ++++                 | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |               | 1136240        | 2285016        | 4671960        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Bromoform                   | CBNZ<br>d5 | Ave           | 3442           | 7369           | 13275          | 30392  | 68424  | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |               | 191574         | 390936         | ++++           |        |        | 25.0                 | 50.0           | ++++           |       |       |
| Isopropylbenzene            | DCBd<br>4  | Ave           | 27848          | 65106          | 120791         | 314452 | 682005 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |               | 1766249        | 3585949        | 7290373        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Bromobenzene                | DCBd<br>4  | Ave           | ++++           | 18419          | 32276          | 86417  | 177451 | ++++                 | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |               | 441933         | 872828         | 1726650        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,1,2,2-Tetrachloroethane   | DCBd<br>4  | Ave           | 8176           | 21183          | 33963          | 86873  | 176755 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |               | 432983         | 882977         | 1757555        |        |        | 25.0                 | 50.0           | 100            |       |       |
| N-Propylbenzene             | DCBd<br>4  | Ave           | ++++           | 76386          | 147231         | 372488 | 783899 | ++++                 | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |               | 2058138        | 4117986        | 8447339        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,2,3-Trichloropropane      | DCBd<br>4  | Ave           | 2648           | 6575           | 12037          | 28757  | 60506  | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |               | 149464         | 284620         | 580622         |        |        | 25.0                 | 50.0           | 100            |       |       |
| trans-1,4-Dichloro-2-butene | DCBd<br>4  | Ave           | 1813           | 4291           | 7426           | 21437  | 48027  | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |               | 142541         | 303644         | ++++           |        |        | 25.0                 | 50.0           | ++++           |       |       |
| 2-Chlorotoluene             | DCBd<br>4  | Ave           | 7583           | 17082          | 31671          | 77329  | 163507 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |               | 418089         | 813569         | 1607005        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,3,5-Trimethylbenzene      | DCBd<br>4  | Ave           | ++++           | 52261          | 106913         | 270006 | 580480 | ++++                 | 1.00           | 2.00           | 5.00  | 10.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                     | IS<br>REF | CURVE<br>TYPE | RESPONSE       |                |                |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|-----------------------------|-----------|---------------|----------------|----------------|----------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                             |           |               | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
|                             |           |               | 1510977        | 3062273        | 6248371        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 4-Chlorotoluene             | DCBd<br>4 | Ave           | 7669           | 17719          | 33074          | 83226  | 171586 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 431850         | 844707         | 1712909        |        |        | 25.0                 | 50.0           | 100            |       |       |
| tert-Butylbenzene           | DCBd<br>4 | Ave           | ++++           | 12511          | 24533          | 60043  | 126378 | ++++                 | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 340336         | 696532         | 1375025        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,2,4-Trimethylbenzene      | DCBd<br>4 | Ave           | 24726          | 54496          | 104274         | 274685 | 589704 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 1535055        | 3099866        | 6392838        |        |        | 25.0                 | 50.0           | 100            |       |       |
| sec-Butylbenzene            | DCBd<br>4 | Ave           | 30499          | 75098          | 131903         | 346463 | 761267 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 1942362        | 4015440        | 8247290        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,3-Dichlorobenzene         | DCBd<br>4 | Ave           | 17593          | 36679          | 70733          | 165595 | 350489 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 883939         | 1722675        | 3482923        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 4-Isopropyltoluene          | DCBd<br>4 | Ave           | 27426          | 57567          | 116546         | 298111 | 640085 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 1698208        | 3494291        | ++++           |        |        | 25.0                 | 50.0           | ++++           |       |       |
| 1,4-Dichlorobenzene         | DCBd<br>4 | Ave           | 19542          | 39216          | 72293          | 173971 | 355475 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 892953         | 1735965        | 3534767        |        |        | 25.0                 | 50.0           | 100            |       |       |
| n-Butylbenzene              | DCBd<br>4 | Ave           | 23339          | 48769          | 102803         | 257341 | 575501 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 1514367        | 3093832        | 6377315        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,2-Dichlorobenzene         | DCBd<br>4 | Ave           | 16190          | 34817          | 66407          | 163148 | 340039 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 854566         | 1657487        | 3376611        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,2-Dibromo-3-Chloropropane | DCBd<br>4 | Ave           | ++++           | 3081           | 4475           | 13513  | 30321  | ++++                 | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 77379          | 161090         | 357096         |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,2,4-Trichlorobenzene      | DCBd<br>4 | Ave           | 11153          | 26285          | 49744          | 118010 | 253024 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 643107         | 1369691        | 2790731        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Hexachlorobutadiene         | DCBd<br>4 | Ave           | 4863           | 12572          | 18976          | 52135  | 116653 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                      | IS<br>REF  | CURVE<br>TYPE | RESPONSE       |                |                |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|------------------------------|------------|---------------|----------------|----------------|----------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                              |            |               | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
|                              |            |               | 297914         | 598307         | 1184839        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Naphthalene                  | DCBd<br>4  | Ave           | 26937          | 56587          | 105620         | 285532 | 598344 | 0.500                | 1.00           | 2.00           | 5.00  | 10.0  |
|                              |            |               | 1661410        | 3512339        | +++++          |        |        | 25.0                 | 50.0           | +++++          |       |       |
| 1,2,3-Trichlorobenzene       | DCBd<br>4  | Ave           | +++++          | 25334          | 46628          | 117324 | 244949 | +++++                | 1.00           | 2.00           | 5.00  | 10.0  |
|                              |            |               | 653340         | 1319709        | 2685027        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Dibromofluoromethane (Surr)  | FB         | Ave           | 241306         | 228282         | 233321         | 236993 | 239872 | 25.0                 | 25.0           | 25.0           | 25.0  | 25.0  |
|                              |            |               | 240142         | 246014         | 243318         |        |        | 25.0                 | 25.0           | 25.0           |       |       |
| 1,2-Dichloroethane-d4 (Surr) | FB         | Ave           | 162486         | 161176         | 154391         | 161821 | 165882 | 25.0                 | 25.0           | 25.0           | 25.0  | 25.0  |
|                              |            |               | 168974         | 161459         | 165280         |        |        | 25.0                 | 25.0           | 25.0           |       |       |
| Toluene-d8 (Surr)            | CBNZ<br>d5 | Ave           | 906179         | 913164         | 902413         | 926131 | 954309 | 25.0                 | 25.0           | 25.0           | 25.0  | 25.0  |
|                              |            |               | 934958         | 929739         | 964470         |        |        | 25.0                 | 25.0           | 25.0           |       |       |
| 4-Bromofluorobenzene (Surr)  | CBNZ<br>d5 | Ave           | 302441         | 305079         | 301442         | 307817 | 314127 | 25.0                 | 25.0           | 25.0           | 25.0  | 25.0  |
|                              |            |               | 318325         | 304216         | 314546         |        |        | 25.0                 | 25.0           | 25.0           |       |       |

Curve Type Legend

Ave = Average ISTD  
Lin1 = Linear 1/conc ISTD



FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

Calibration Files

|         |                    |              |
|---------|--------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:     | LAB FILE ID: |
| Level 1 | IC 480-636697/13   | S4495.D      |
| Level 2 | IC 480-636697/14   | S4496.D      |
| Level 3 | IC 480-636697/15   | S4497.D      |
| Level 4 | IC 480-636697/16   | S4498.D      |
| Level 5 | IC 480-636697/17   | S4499.D      |
| Level 6 | ICIS 480-636697/18 | S4500.D      |
| Level 7 | IC 480-636697/19   | S4501.D      |
| Level 8 | IC 480-636697/20   | S4502.D      |

| ANALYTE                               | PERCENT ERROR |         |         |         |         |         | PERCENT ERROR LIMIT |       |       |       |       |       |
|---------------------------------------|---------------|---------|---------|---------|---------|---------|---------------------|-------|-------|-------|-------|-------|
|                                       | LVL 1 #       | LVL 2 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1               | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
|                                       | LVL 7 #       | LVL 8 # |         |         |         |         | LVL 7               | LVL 8 |       |       |       |       |
| Dichlorodifluoromethane               | -2.6          |         |         |         |         |         | 30                  |       |       |       |       |       |
| Chloromethane                         | 12.4          |         |         |         |         |         | 30                  |       |       |       |       |       |
| Vinyl chloride                        | 0.9           |         |         |         |         |         | 30                  |       |       |       |       |       |
| Butadiene                             | -7.4          |         |         |         |         |         | 30                  |       |       |       |       |       |
| Bromomethane                          | 1.1           |         |         |         |         |         | 30                  |       |       |       |       |       |
| Chloroethane                          | +++++         | 7.9     |         |         |         |         |                     | 30    |       |       |       |       |
| Trichlorofluoromethane                | -0.4          |         |         |         |         |         | 30                  |       |       |       |       |       |
| Dichlorofluoromethane                 | 7.2           |         |         |         |         |         | 30                  |       |       |       |       |       |
| Ethyl ether                           | 6.0           |         |         |         |         |         | 30                  |       |       |       |       |       |
| Acrolein                              | -3.4          |         |         |         |         |         | 30                  |       |       |       |       |       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | -26.6         |         |         |         |         |         | 30                  |       |       |       |       |       |
| 1,1-Dichloroethene                    | 10.0          |         |         |         |         |         | 30                  |       |       |       |       |       |
| Acetone                               | +++++         | 6.0     |         |         |         |         |                     | 30    |       |       |       |       |
| Iodomethane                           | +++++         | 3.7     |         |         |         |         |                     | 30    |       |       |       |       |
| Carbon disulfide                      | -9.4          |         |         |         |         |         | 30                  |       |       |       |       |       |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                  | PERCENT ERROR      |                    |         |         |         |         | PERCENT ERROR LIMIT |                |       |       |       |       |
|--------------------------|--------------------|--------------------|---------|---------|---------|---------|---------------------|----------------|-------|-------|-------|-------|
|                          | LVL 1 #<br>LVL 7 # | LVL 2 #<br>LVL 8 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1<br>LVL 7      | LVL 2<br>LVL 8 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
| Allyl chloride           | 6.9                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Methyl acetate           | +++++              | 7.7                |         |         |         |         |                     | 30             |       |       |       |       |
| Methylene Chloride       | -23.5              |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 2-Methyl-2-propanol      | 0.2                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Methyl tert-butyl ether  | -0.6               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| trans-1,2-Dichloroethene | -7.5               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Acrylonitrile            | 0.3                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Hexane                   | +++++              | 5.0                |         |         |         |         |                     | 30             |       |       |       |       |
| 1,1-Dichloroethane       | -2.1               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Vinyl acetate            | -3.6               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 2,2-Dichloropropane      | -11.8              |                    |         |         |         |         | 30                  |                |       |       |       |       |
| cis-1,2-Dichloroethene   | +++++              | 15.5               |         |         |         |         |                     | 30             |       |       |       |       |
| 2-Butanone (MEK)         | -1.6               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Chlorobromomethane       | 9.0                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Tetrahydrofuran          | 11.7               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Chloroform               | 11.5               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Cyclohexane              | +++++              | 3.2                |         |         |         |         |                     | 30             |       |       |       |       |
| 1,1,1-Trichloroethane    | -6.5               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Carbon tetrachloride     | 5.3                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,1-Dichloropropene      | +++++              | 4.0                |         |         |         |         |                     | 30             |       |       |       |       |
| Benzene                  | 1.8                |                    |         |         |         |         | 30                  |                |       |       |       |       |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                     | PERCENT ERROR      |                    |         |         |         |         | PERCENT ERROR LIMIT |                |       |       |       |       |
|-----------------------------|--------------------|--------------------|---------|---------|---------|---------|---------------------|----------------|-------|-------|-------|-------|
|                             | LVL 1 #<br>LVL 7 # | LVL 2 #<br>LVL 8 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1<br>LVL 7      | LVL 2<br>LVL 8 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
| Isobutyl alcohol            | 12.3               | ++++               |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2-Dichloroethane          | 7.0                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| n-Heptane                   | 1.0                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Trichloroethene             | 0.3                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Methylcyclohexane           | ++++               | -2.7               |         |         |         |         |                     | 30             |       |       |       |       |
| 1,2-Dichloropropane         | 0.0                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Dibromomethane              | 6.2                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,4-Dioxane                 | ++++               | -29.0              |         |         |         |         |                     | 30             |       |       |       |       |
| Bromodichloromethane        | -1.7               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 2-Chloroethyl vinyl ether   | -8.7               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| cis-1,3-Dichloropropene     | -5.0               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 4-Methyl-2-pentanone (MIBK) | 1.0                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Toluene                     | -4.7               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| trans-1,3-Dichloropropene   | -3.9               | ++++               |         |         |         |         | 30                  |                |       |       |       |       |
| Ethyl methacrylate          | ++++               | -8.4               |         |         |         |         |                     | 30             |       |       |       |       |
| 1,1,2-Trichloroethane       | 2.7                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Tetrachloroethene           | ++++               | 2.7                |         |         |         |         |                     | 30             |       |       |       |       |
| 1,3-Dichloropropane         | 3.7                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 2-Hexanone                  | -9.1               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Dibromochloromethane        | -2.6               | ++++               |         |         |         |         | 30                  |                |       |       |       |       |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                     | PERCENT ERROR      |                    |         |         |         |         | PERCENT ERROR LIMIT |                |       |       |       |       |
|-----------------------------|--------------------|--------------------|---------|---------|---------|---------|---------------------|----------------|-------|-------|-------|-------|
|                             | LVL 1 #<br>LVL 7 # | LVL 2 #<br>LVL 8 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1<br>LVL 7      | LVL 2<br>LVL 8 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
| 1,2-Dibromoethane           | -5.1               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Chlorobenzene               | 3.0                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Ethylbenzene                | +++++              | 0.1                |         |         |         |         |                     | 30             |       |       |       |       |
| 1,1,1,2-Tetrachloroethane   | 5.2                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| m,p-Xylene                  | +++++              | -1.2               |         |         |         |         |                     | 30             |       |       |       |       |
| o-Xylene                    | +++++              | -1.8               |         |         |         |         |                     | 30             |       |       |       |       |
| Styrene                     | +++++              | -7.0               |         |         |         |         |                     | 30             |       |       |       |       |
| Bromoform                   | -2.8               | +++++              |         |         |         |         | 30                  |                |       |       |       |       |
| Isopropylbenzene            | -12.1              |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Bromobenzene                | +++++              | 8.8                |         |         |         |         |                     | 30             |       |       |       |       |
| 1,1,2,2-Tetrachloroethane   | -4.3               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| N-Propylbenzene             | +++++              | -0.3               |         |         |         |         |                     | 30             |       |       |       |       |
| 1,2,3-Trichloropropane      | -6.6               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| trans-1,4-Dichloro-2-butene | -18.5              | +++++              |         |         |         |         | 30                  |                |       |       |       |       |
| 2-Chlorotoluene             | -2.2               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,3,5-Trimethylbenzene      | +++++              | -6.3               |         |         |         |         |                     | 30             |       |       |       |       |
| 4-Chlorotoluene             | -5.3               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| tert-Butylbenzene           | +++++              | -0.6               |         |         |         |         |                     | 30             |       |       |       |       |
| 1,2,4-Trimethylbenzene      | -10.0              |                    |         |         |         |         | 30                  |                |       |       |       |       |
| sec-Butylbenzene            | -13.7              |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,3-Dichlorobenzene         | 4.4                |                    |         |         |         |         | 30                  |                |       |       |       |       |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 636697

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 17:06 Calibration End Date: 08/09/2022 19:49 Calibration ID: 43798

| ANALYTE                      | PERCENT ERROR      |                    |         |         |         |         | PERCENT ERROR LIMIT |                |       |       |       |       |
|------------------------------|--------------------|--------------------|---------|---------|---------|---------|---------------------|----------------|-------|-------|-------|-------|
|                              | LVL 1 #<br>LVL 7 # | LVL 2 #<br>LVL 8 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1<br>LVL 7      | LVL 2<br>LVL 8 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
| 4-Isopropyltoluene           | -7.4               | +++++              |         |         |         |         | 30                  |                |       |       |       |       |
| 1,4-Dichlorobenzene          | 11.8               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| n-Butylbenzene               | -12.1              |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2-Dichlorobenzene          | 0.4                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2-Dibromo-3-Chloropropane  | +++++              | 6.0                |         |         |         |         |                     | 30             |       |       |       |       |
| 1,2,4-Trichlorobenzene       | -8.8               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Hexachlorobutadiene          | -9.7               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Naphthalene                  | -5.7               | +++++              |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2,3-Trichlorobenzene       | +++++              | 3.7                |         |         |         |         |                     | 30             |       |       |       |       |
| Dibromofluoromethane (Surr)  | 4.1                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2-Dichloroethane-d4 (Surr) | 2.8                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Toluene-d8 (Surr)            | -3.0               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 4-Bromofluorobenzene (Surr)  | -2.5               |                    |         |         |         |         | 30                  |                |       |       |       |       |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
 Lims ID: IC 0.5  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 09-Aug-2022 17:06:30 ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC 0.5  
 Misc. Info.: 480-0106979-013  
 Operator ID: AG Instrument ID: HP5973S  
 Sublist: chrom-S-8260\*sub26  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 10-Aug-2022 14:56:47 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1608

First Level Reviewer: FGO5

Date: 10-Aug-2022 09:30:30

| Compound                                 | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|------------------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 153 Fluorobenzene (IS)                 | 70  | 4.873     | 4.867         | 0.006         | 98 | 182544   | 25.0         | 25.0           |       |
| * 2 Chlorobenzene-d5                     | 82  | 7.824     | 7.824         | 0.000         | 88 | 383225   | 25.0         | 25.0           |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 10.264    | 10.263        | 0.001         | 96 | 384862   | 25.0         | 25.0           |       |
| \$ 154 Dibromofluoromethane (Surr)       | 113 | 4.308     | 4.307         | 0.001         | 55 | 241306   | 25.0         | 26.0           |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)        | 67  | 4.600     | 4.606         | -0.006        | 98 | 162486   | 25.0         | 25.7           |       |
| \$ 5 Toluene-d8 (Surr)                   | 98  | 6.358     | 6.358         | 0.000         | 92 | 906179   | 25.0         | 24.3           |       |
| \$ 6 4-Bromofluorobenzene (Surr)         | 174 | 9.077     | 9.077         | 0.000         | 88 | 302441   | 25.0         | 24.4           |       |
| 10 Dichlorodifluoromethane               | 85  | 1.041     | 1.035         | 0.007         | 39 | 7285     | 0.5000       | 0.4868         |       |
| 12 Chloromethane                         | 50  | 1.181     | 1.187         | -0.006        | 89 | 13346    | 0.5000       | 0.5621         |       |
| 13 Vinyl chloride                        | 62  | 1.248     | 1.247         | 0.001         | 36 | 7605     | 0.5000       | 0.5043         | a     |
| 151 Butadiene                            | 54  | 1.266     | 1.266         | 0.000         | 77 | 8238     | 0.5000       | 0.4628         |       |
| 14 Bromomethane                          | 94  | 1.515     | 1.509         | 0.006         | 42 | 4450     | 0.5000       | 0.5055         |       |
| 15 Chloroethane                          | 64  | 1.582     | 1.582         | 0.000         | 17 | 5032     | 0.5000       | 0.5297         | M     |
| 17 Trichlorofluoromethane                | 101 | 1.759     | 1.746         | 0.013         | 56 | 9417     | 0.5000       | 0.4980         |       |
| 16 Dichlorofluoromethane                 | 67  | 1.765     | 1.758         | 0.007         | 71 | 11323    | 0.5000       | 0.5361         | M     |
| 18 Ethyl ether                           | 59  | 1.996     | 2.002         | -0.006        | 77 | 7118     | 0.5000       | 0.5300         | M     |
| 20 Acrolein                              | 56  | 2.166     | 2.166         | 0.000         | 32 | 4530     | 2.50         | 2.41           | a     |
| 22 1,1-Dichloroethene                    | 96  | 2.191     | 2.196         | -0.005        | 64 | 5494     | 0.5000       | 0.5501         | M     |
| 21 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 2.185     | 2.196         | -0.011        | 37 | 3326     | 0.5000       | 0.3670         | M     |
| 23 Acetone                               | 43  | 2.318     | 2.312         | 0.006         | 80 | 16066    | 2.50         | 2.73           | M     |
| 25 Iodomethane                           | 142 | 2.343     | 2.342         | 0.001         | 72 | 7734     | 0.5000       | 0.4362         | M     |
| 26 Carbon disulfide                      | 76  | 2.385     | 2.379         | 0.006         | 54 | 14599    | 0.5000       | 0.4531         |       |
| 28 3-Chloro-1-propene                    | 41  | 2.543     | 2.543         | 0.000         | 78 | 12830    | 0.5000       | 0.5346         | M     |
| 27 Methyl acetate                        | 43  | 2.592     | 2.592         | 0.000         | 87 | 16103    | 1.00         | 1.00           | M     |
| 30 Methylene Chloride                    | 84  | 2.696     | 2.683         | 0.013         | 73 | 8591     | 0.5000       | 0.3823         | M     |
| 31 2-Methyl-2-propanol                   | 59  | 2.896     | 2.860         | 0.036         | 47 | 8732     | 5.00         | 5.01           |       |
| 32 Methyl tert-butyl ether               | 73  | 2.884     | 2.884         | 0.000         | 85 | 19915    | 0.5000       | 0.4969         |       |
| 34 trans-1,2-Dichloroethene              | 96  | 2.890     | 2.896         | -0.006        | 59 | 5786     | 0.5000       | 0.4624         |       |
| 33 Acrylonitrile                         | 53  | 2.963     | 2.963         | 0.000         | 89 | 40214    | 5.00         | 5.01           | M     |
| 35 Hexane                                | 57  | 3.085     | 3.085         | 0.000         | 80 | 10826    | 0.5000       | 0.4186         |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane          | 63  | 3.298     | 3.304         | -0.006        | 73 | 12866    | 0.5000       | 0.4896         |       |
| 37 Vinyl acetate               | 43  | 3.371     | 3.365         | 0.007         | 88 | 34283    | 1.00         | 0.9641         | M     |
| 44 2,2-Dichloropropane         | 77  | 3.809     | 3.803         | 0.006         | 59 | 6409     | 0.5000       | 0.4408         |       |
| 45 cis-1,2-Dichloroethene      | 96  | 3.839     | 3.839         | 0.000         | 37 | 8408     | 0.5000       | 0.5979         |       |
| 43 2-Butanone (MEK)            | 43  | 3.894     | 3.888         | 0.006         | 88 | 24494    | 2.50         | 2.46           |       |
| 48 Chlorobromomethane          | 128 | 4.077     | 4.070         | 0.007         | 54 | 4196     | 0.5000       | 0.5450         |       |
| 49 Tetrahydrofuran             | 42  | 4.095     | 4.082         | 0.013         | 77 | 7299     | 1.00         | 1.12           |       |
| 50 Chloroform                  | 83  | 4.150     | 4.155         | -0.005        | 69 | 12963    | 0.5000       | 0.5576         |       |
| 52 Cyclohexane                 | 56  | 4.247     | 4.253         | -0.006        | 79 | 11245    | 0.5000       | 0.4150         |       |
| 51 1,1,1-Trichloroethane       | 97  | 4.253     | 4.253         | 0.000         | 55 | 8519     | 0.5000       | 0.4675         |       |
| 55 Carbon tetrachloride        | 117 | 4.387     | 4.380         | 0.007         | 54 | 8129     | 0.5000       | 0.5267         |       |
| 54 1,1-Dichloropropene         | 75  | 4.405     | 4.399         | 0.006         | 63 | 8177     | 0.5000       | 0.4523         | a     |
| 57 Benzene                     | 78  | 4.600     | 4.599         | 0.001         | 36 | 27813    | 0.5000       | 0.5089         |       |
| 53 Isobutyl alcohol            | 43  | 4.679     | 4.660         | 0.019         | 6  | 10235    | 12.5         | 14.0           |       |
| 58 1,2-Dichloroethane          | 62  | 4.679     | 4.672         | 0.007         | 46 | 11726    | 0.5000       | 0.5350         |       |
| 59 n-Heptane                   | 43  | 4.788     | 4.788         | 0.000         | 78 | 15634    | 0.5000       | 0.5048         | M     |
| 62 Trichloroethene             | 95  | 5.214     | 5.202         | 0.012         | 55 | 6755     | 0.5000       | 0.5014         |       |
| 64 Methylcyclohexane           | 83  | 5.305     | 5.311         | -0.006        | 73 | 9956     | 0.5000       | 0.4262         |       |
| 65 1,2-Dichloropropane         | 63  | 5.445     | 5.445         | 0.000         | 55 | 7550     | 0.5000       | 0.5002         |       |
| 67 Dibromomethane              | 93  | 5.573     | 5.579         | -0.006        | 44 | 4272     | 0.5000       | 0.5312         |       |
| 66 1,4-Dioxane                 | 88  | 5.603     | 5.597         | 0.006         | 4  | 950      | 10.0         | 6.55           | a     |
| 68 Dichlorobromomethane        | 83  | 5.737     | 5.737         | 0.000         | 42 | 7669     | 0.5000       | 0.4913         |       |
| 69 2-Chloroethyl vinyl ether   | 63  | 6.035     | 6.029         | 0.006         | 39 | 4636     | 0.5000       | 0.4564         |       |
| 72 cis-1,3-Dichloropropene     | 75  | 6.151     | 6.151         | 0.000         | 51 | 9204     | 0.5000       | 0.4750         |       |
| 73 4-Methyl-2-pentanone (MIBK) | 43  | 6.303     | 6.303         | 0.000         | 95 | 56728    | 2.50         | 2.52           |       |
| 74 Toluene                     | 92  | 6.425     | 6.425         | 0.000         | 64 | 16831    | 0.5000       | 0.4765         |       |
| 77 trans-1,3-Dichloropropene   | 75  | 6.729     | 6.723         | 0.006         | 57 | 8532     | 0.5000       | 0.4804         |       |
| 75 Ethyl methacrylate          | 69  | 6.778     | 6.777         | 0.001         | 42 | 6448     | 0.5000       | 0.3797         |       |
| 79 1,1,2-Trichloroethane       | 83  | 6.893     | 6.899         | -0.006        | 22 | 5495     | 0.5000       | 0.5134         |       |
| 81 Tetrachloroethene           | 166 | 6.942     | 6.948         | -0.006        | 57 | 6570     | 0.5000       | 0.4288         |       |
| 82 1,3-Dichloropropane         | 76  | 7.064     | 7.057         | 0.007         | 78 | 11776    | 0.5000       | 0.5185         |       |
| 80 2-Hexanone                  | 43  | 7.143     | 7.136         | 0.007         | 92 | 35027    | 2.50         | 2.27           |       |
| 83 Chlorodibromomethane        | 129 | 7.289     | 7.288         | 0.001         | 7  | 5184     | 0.5000       | 0.4869         | M     |
| 84 Ethylene Dibromide          | 107 | 7.380     | 7.380         | 0.000         | 54 | 6128     | 0.5000       | 0.4744         |       |
| 87 Chlorobenzene               | 112 | 7.854     | 7.854         | 0.000         | 57 | 21429    | 0.5000       | 0.5149         | M     |
| 88 Ethylbenzene                | 91  | 7.952     | 7.952         | 0.000         | 80 | 28810    | 0.5000       | 0.4348         | M     |
| 89 1,1,1,2-Tetrachloroethane   | 131 | 7.952     | 7.958         | -0.006        | 29 | 7182     | 0.5000       | 0.5260         |       |
| 90 m-Xylene & p-Xylene         | 106 | 8.080     | 8.073         | 0.006         | 85 | 11410    | 0.5000       | 0.4348         |       |
| 91 o-Xylene                    | 106 | 8.499     | 8.493         | 0.006         | 79 | 11497    | 0.5000       | 0.4537         | M     |
| 92 Styrene                     | 104 | 8.536     | 8.529         | 0.007         | 77 | 15853    | 0.5000       | 0.3728         | M     |
| 95 Bromoform                   | 173 | 8.767     | 8.767         | 0.000         | 26 | 3442     | 0.5000       | 0.4858         | M     |
| 94 Isopropylbenzene            | 105 | 8.883     | 8.882         | 0.001         | 65 | 27848    | 0.5000       | 0.4393         |       |
| 101 Bromobenzene               | 156 | 9.223     | 9.223         | 0.000         | 74 | 6780     | 0.5000       | 0.4067         |       |
| 97 1,1,2,2-Tetrachloroethane   | 83  | 9.314     | 9.308         | 0.006         | 20 | 8176     | 0.5000       | 0.4783         |       |
| 99 N-Propylbenzene             | 91  | 9.327     | 9.326         | 0.001         | 87 | 32412    | 0.5000       | 0.4296         |       |
| 100 1,2,3-Trichloropropane     | 110 | 9.339     | 9.339         | 0.000         | 26 | 2648     | 0.5000       | 0.4669         |       |
| 98 trans-1,4-Dichloro-2-butene | 53  | 9.369     | 9.357         | 0.012         | 1  | 1813     | 0.5000       | 0.4075         | M     |
| 103 2-Chlorotoluene            | 126 | 9.424     | 9.424         | 0.000         | 72 | 7583     | 0.5000       | 0.4890         |       |
| 102 1,3,5-Trimethylbenzene     | 105 | 9.521     | 9.515         | 0.006         | 71 | 22086    | 0.5000       | 0.4022         |       |
| 105 4-Chlorotoluene            | 126 | 9.540     | 9.545         | -0.005        | 69 | 7669     | 0.5000       | 0.4736         | M     |
| 106 tert-Butylbenzene          | 134 | 9.856     | 9.844         | 0.012         | 53 | 5133     | 0.5000       | 0.4139         |       |
| 107 1,2,4-Trimethylbenzene     | 105 | 9.905     | 9.904         | 0.001         | 71 | 24726    | 0.5000       | 0.4500         |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 109 sec-Butylbenzene             | 105 | 10.063       | 10.063           | 0.000            | 61 | 30499    | 0.5000          | 0.4317            |       |
| 111 1,3-Dichlorobenzene          | 146 | 10.197       | 10.190           | 0.007            | 82 | 17593    | 0.5000          | 0.5222            |       |
| 110 4-Isopropyltoluene           | 119 | 10.215       | 10.215           | 0.000            | 77 | 27426    | 0.5000          | 0.4631            |       |
| 113 1,4-Dichlorobenzene          | 146 | 10.282       | 10.288           | -0.006           | 40 | 19542    | 0.5000          | 0.5588            |       |
| 115 n-Butylbenzene               | 91  | 10.610       | 10.610           | 0.000            | 80 | 23339    | 0.5000          | 0.4395            |       |
| 116 1,2-Dichlorobenzene          | 146 | 10.647       | 10.647           | 0.000            | 80 | 16190    | 0.5000          | 0.5021            |       |
| 117 1,2-Dibromo-3-Chloropropane  | 75  | 11.395       | 11.395           | 0.000            | 1  | 1832     | 0.5000          | 0.6399            | M     |
| 119 1,2,4-Trichlorobenzene       | 180 | 12.076       | 12.070           | 0.006            | 64 | 11153    | 0.5000          | 0.4561            |       |
| 120 Hexachlorobutadiene          | 225 | 12.192       | 12.192           | 0.000            | 42 | 4863     | 0.5000          | 0.4514            |       |
| 121 Naphthalene                  | 128 | 12.289       | 12.283           | 0.006            | 80 | 26937    | 0.5000          | 0.4713            | M     |
| 122 1,2,3-Trichlorobenzene       | 180 | 12.490       | 12.490           | 0.000            | 67 | 10109    | 0.5000          | 0.4202            |       |
| S 126 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 0.9554            |       |
| S 125 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 1.06              |       |
| S 123 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 2.31              |       |
| S 124 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 0.8885            |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

8260 CORP mix\_00228

Amount Added: 0.50

Units: uL

GAS CORP mix\_00524

Amount Added: 0.50

Units: uL

S\_8260\_IS\_00357

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00426

Amount Added: 1.00

Units: uL

Run Reagent



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D

Injection Date: 09-Aug-2022 17:06:30

Instrument ID: HP5973S

Operator ID: AG

Lims ID: IC 0.5

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

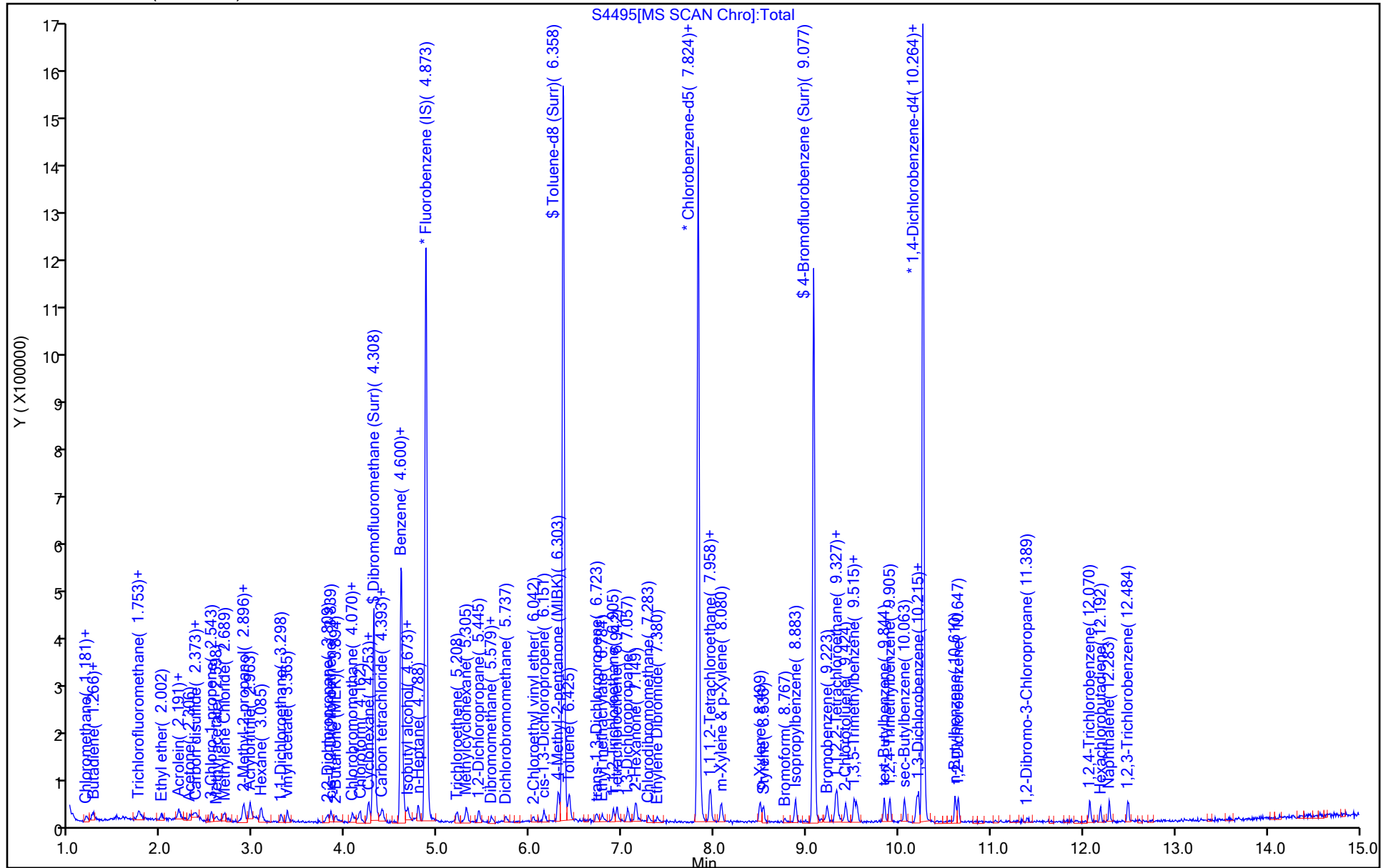
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)



## Eurofins Buffalo

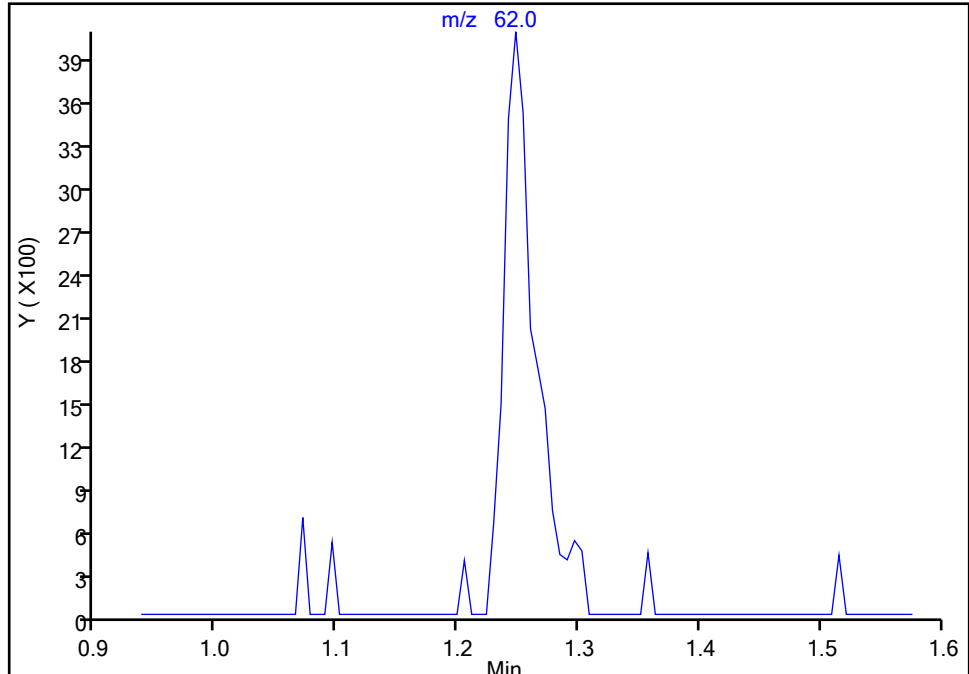
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**13 Vinyl chloride, CAS: 75-01-4**

Signal: 1

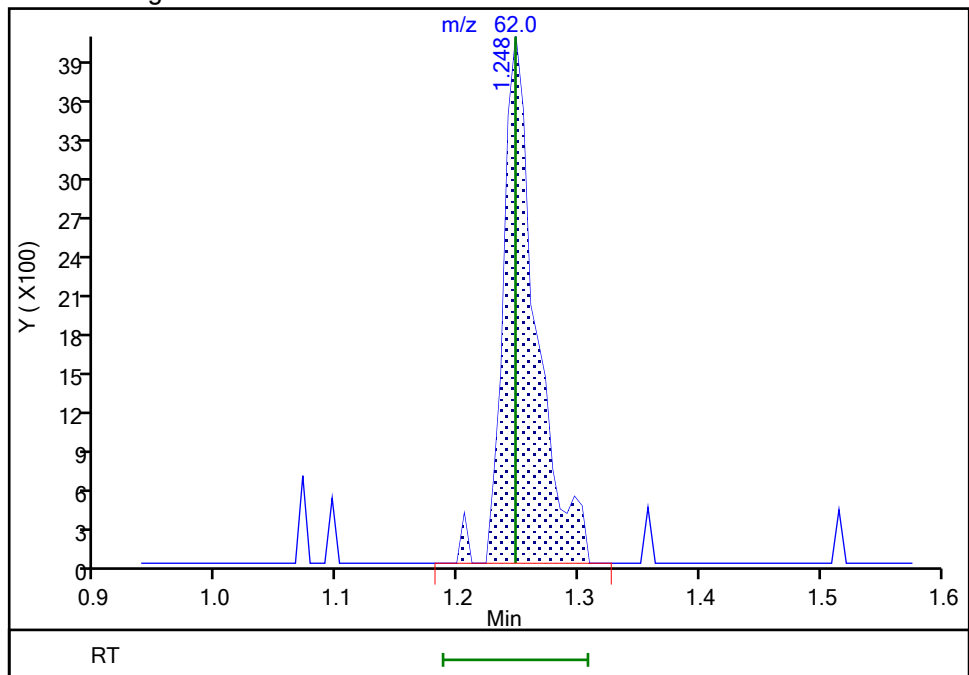
Not Detected  
Expected RT: 1.25

## Processing Integration Results



RT: 1.25  
Area: 7605  
Amount: 0.504276  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:23:30  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## Eurofins Buffalo

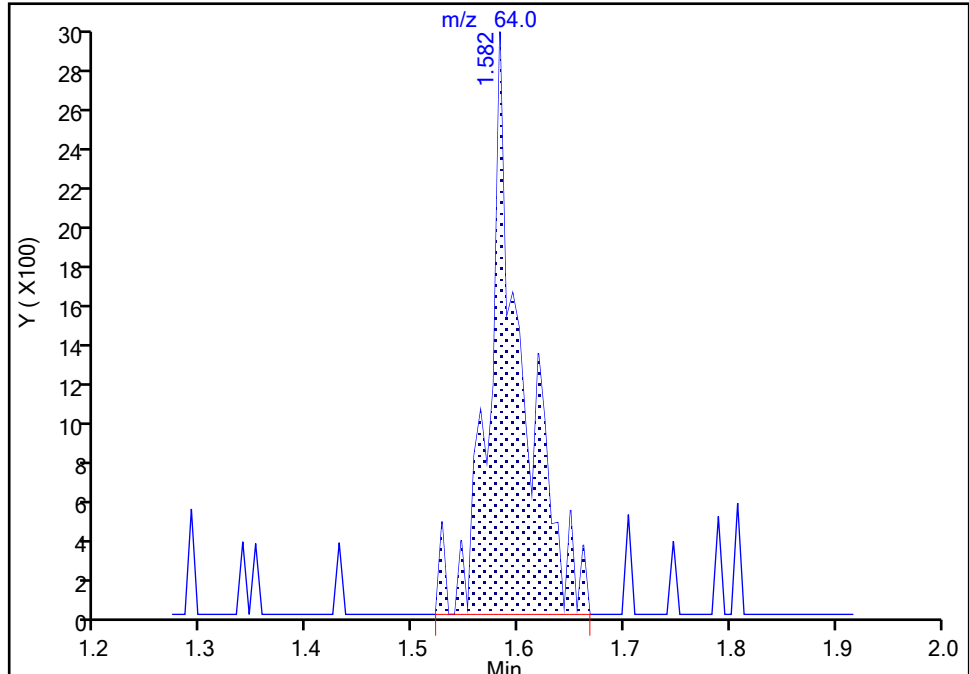
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**15 Chloroethane, CAS: 75-00-3**

Signal: 1

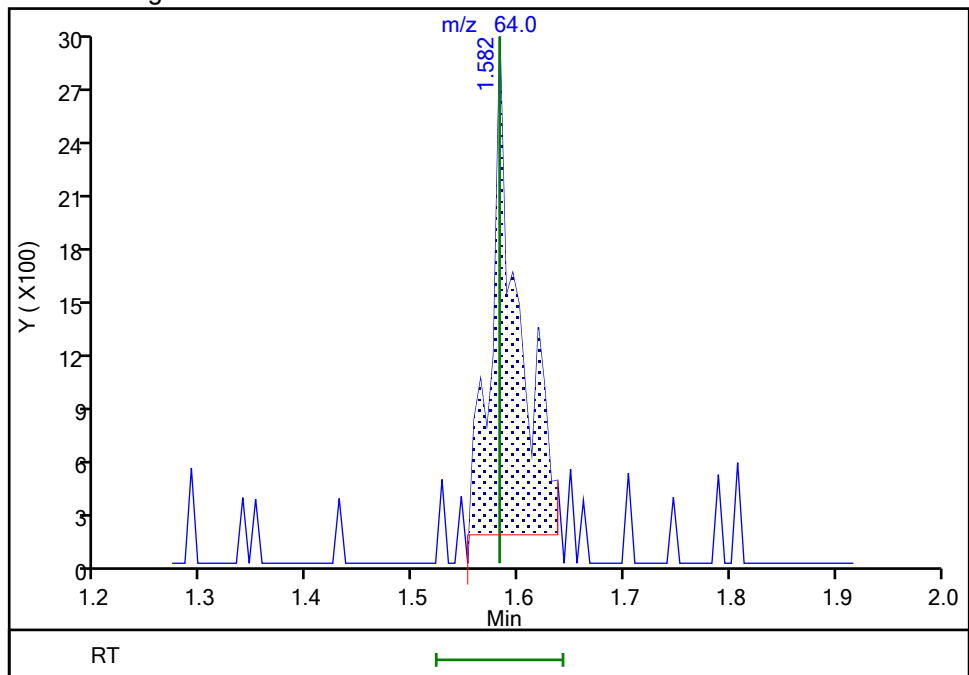
RT: 1.58  
Area: 6550  
Amount: 0.644470  
Amount Units: ug/L

## Processing Integration Results



RT: 1.58  
Area: 5032  
Amount: 0.529683  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:27:34  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D

Injection Date: 09-Aug-2022 17:06:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: AG

ALS Bottle#:

13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)

Detector

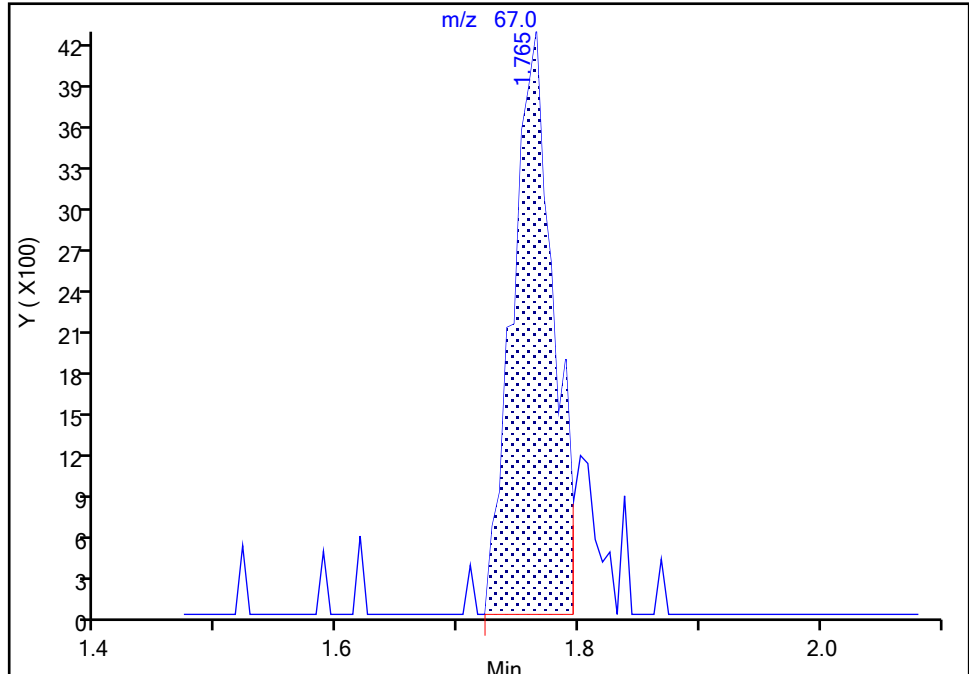
MS SCAN

**16 Dichlorofluoromethane, CAS: 75-43-4**

Signal: 1

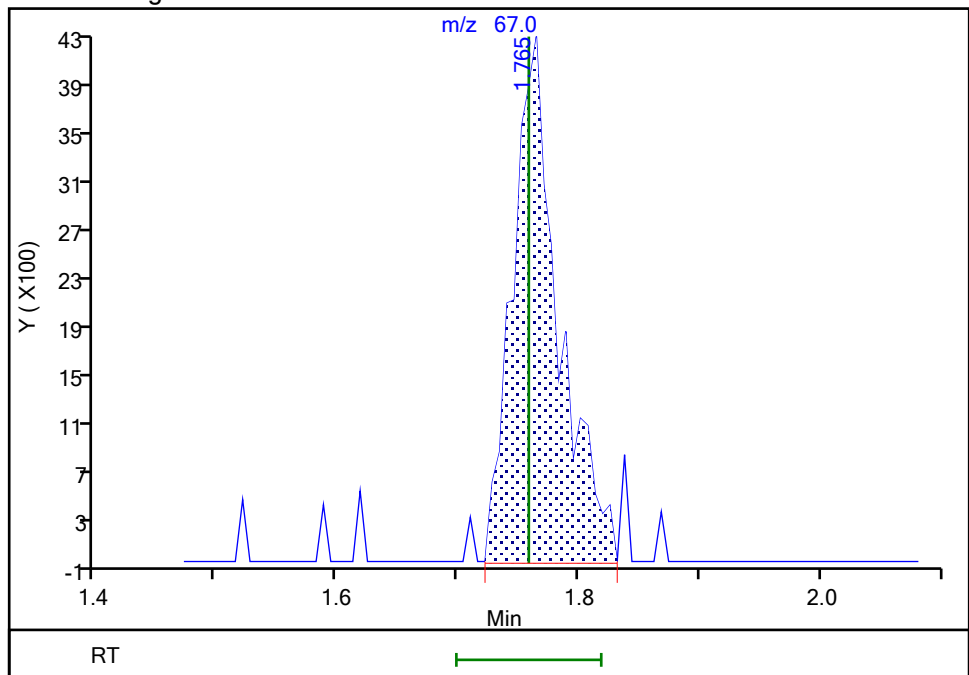
RT: 1.76  
Area: 9896  
Amount: 0.476544  
Amount Units: ug/L

## Processing Integration Results



RT: 1.76  
Area: 11323  
Amount: 0.536149  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:24:16

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

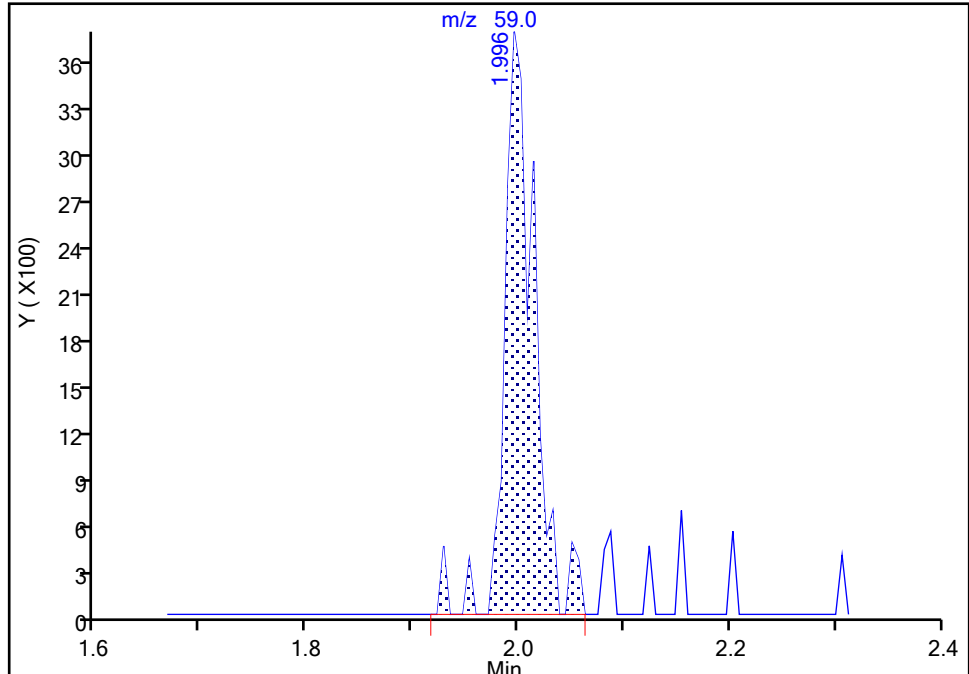
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**18 Ethyl ether, CAS: 60-29-7**

Signal: 1

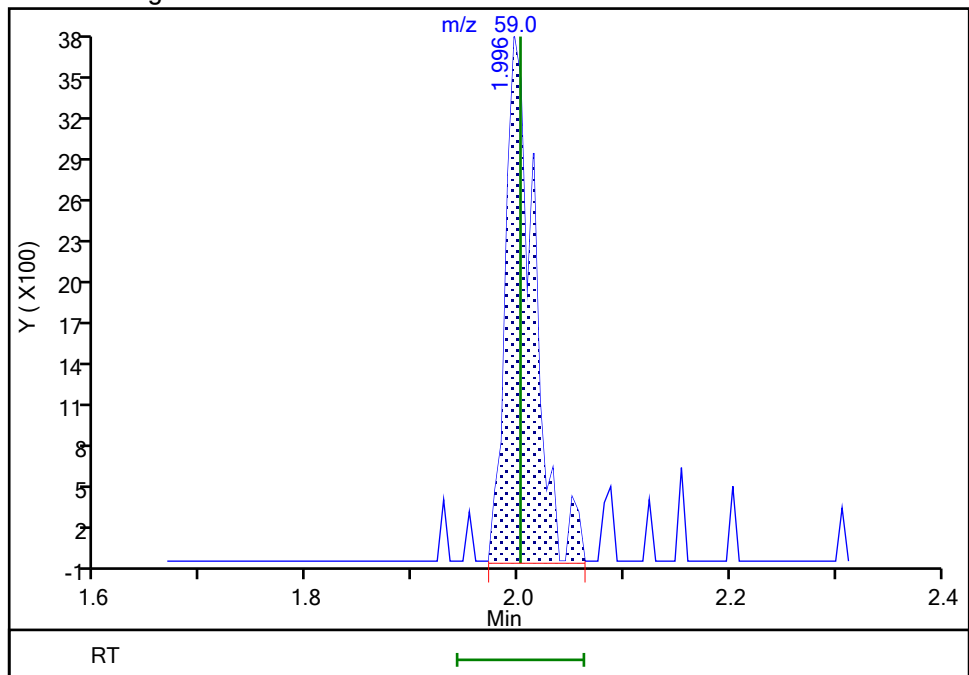
RT: 2.00  
Area: 7320  
Amount: 0.539683  
Amount Units: ug/L

## Processing Integration Results



RT: 2.00  
Area: 7118  
Amount: 0.529980  
Amount Units: ug/L

## Manual Integration Results



## Eurofins Buffalo

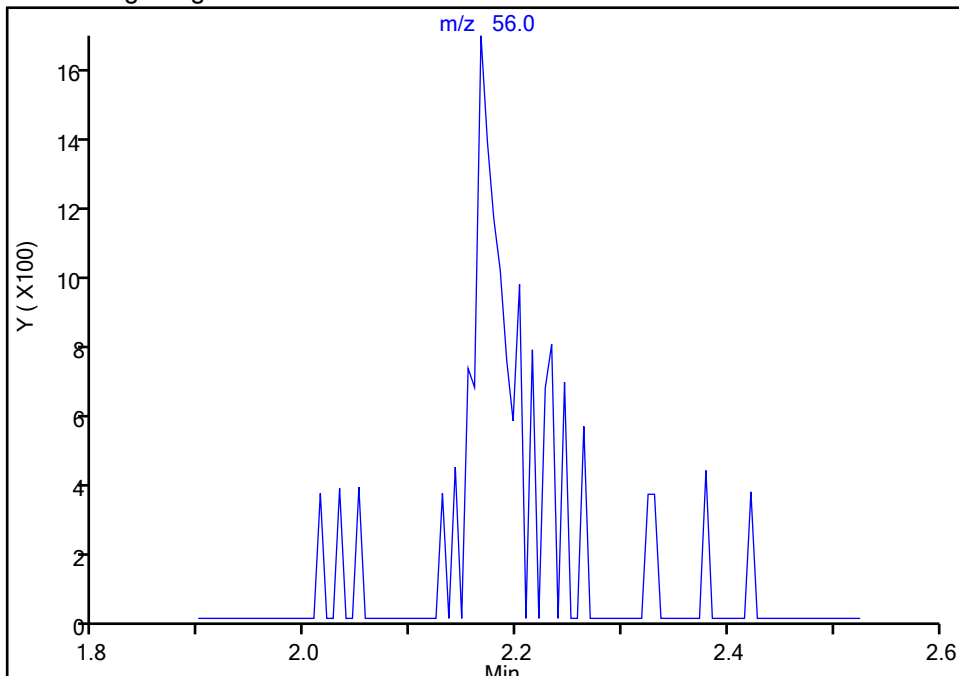
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

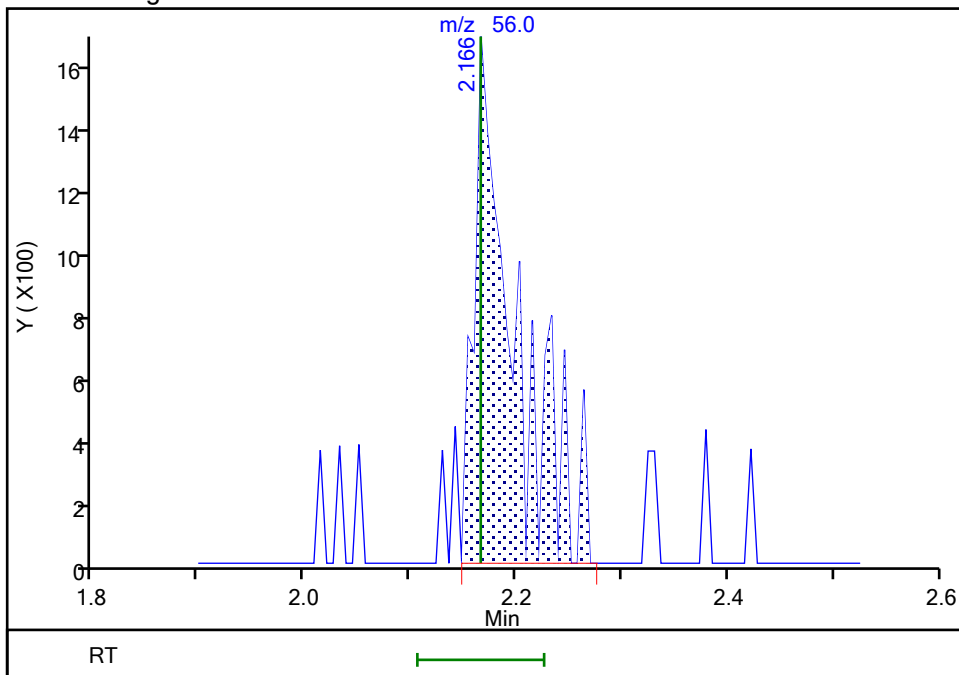
Signal: 1

Not Detected  
Expected RT: 2.17

## Processing Integration Results



## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:24:33  
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

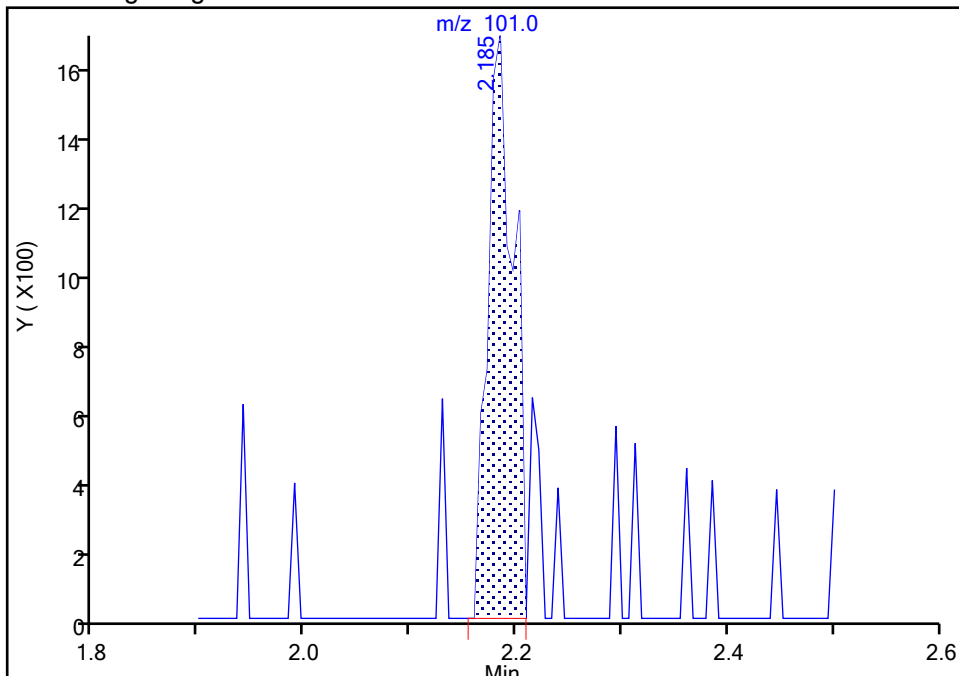
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

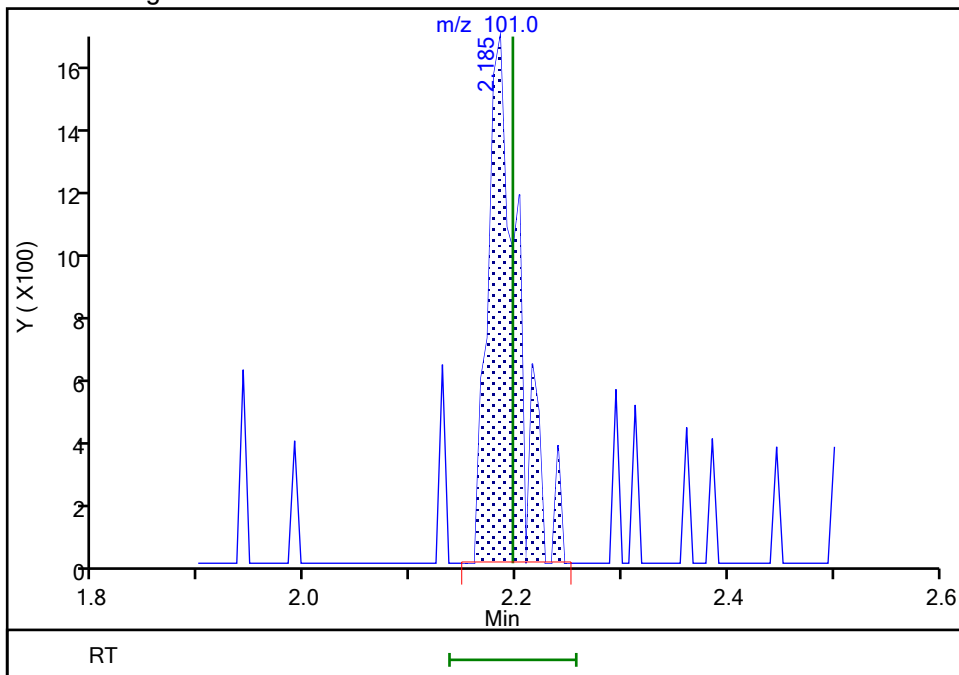
RT: 2.18  
Area: 2811  
Amount: 0.317112  
Amount Units: ug/L

## Processing Integration Results



RT: 2.18  
Area: 3326  
Amount: 0.367007  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 10:33:07  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

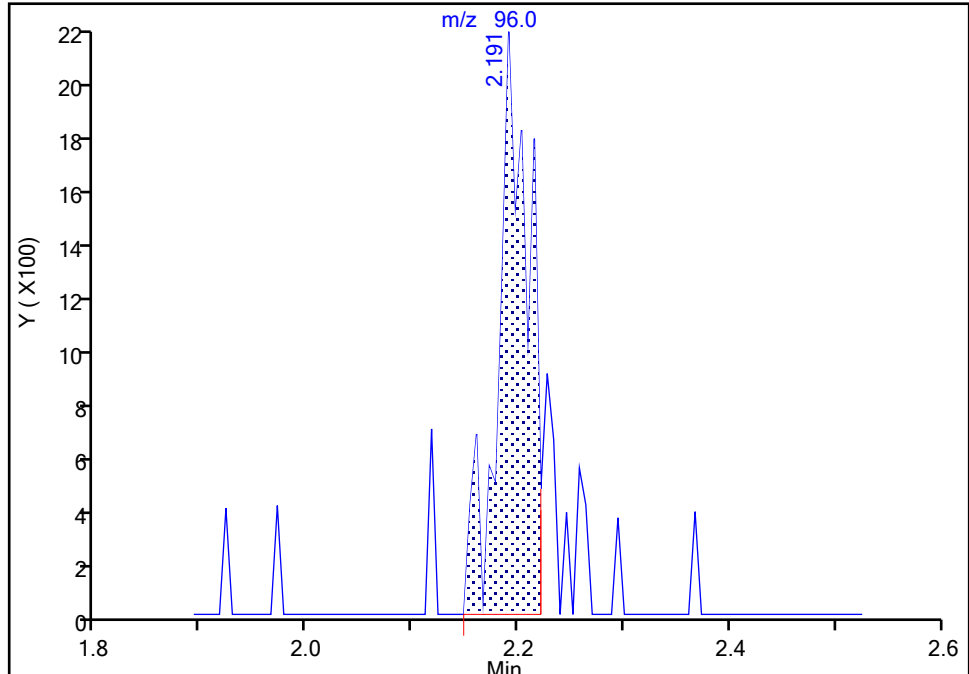
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**22 1,1-Dichloroethene, CAS: 75-35-4**

Signal: 1

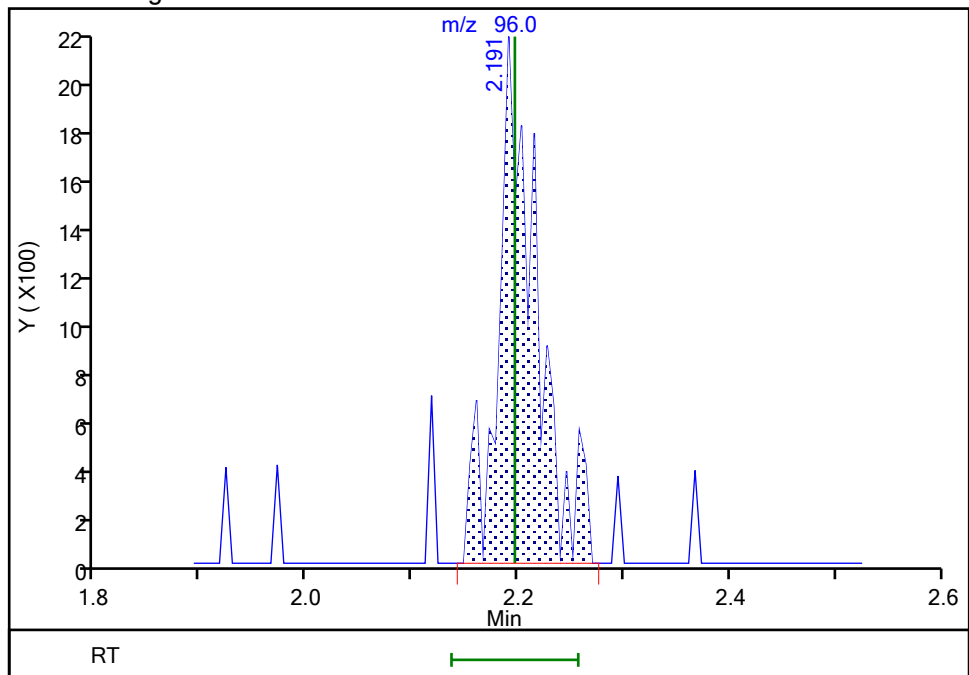
RT: 2.19  
Area: 4432  
Amount: 0.459171  
Amount Units: ug/L

## Processing Integration Results



RT: 2.19  
Area: 5494  
Amount: 0.550137  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:27:47  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

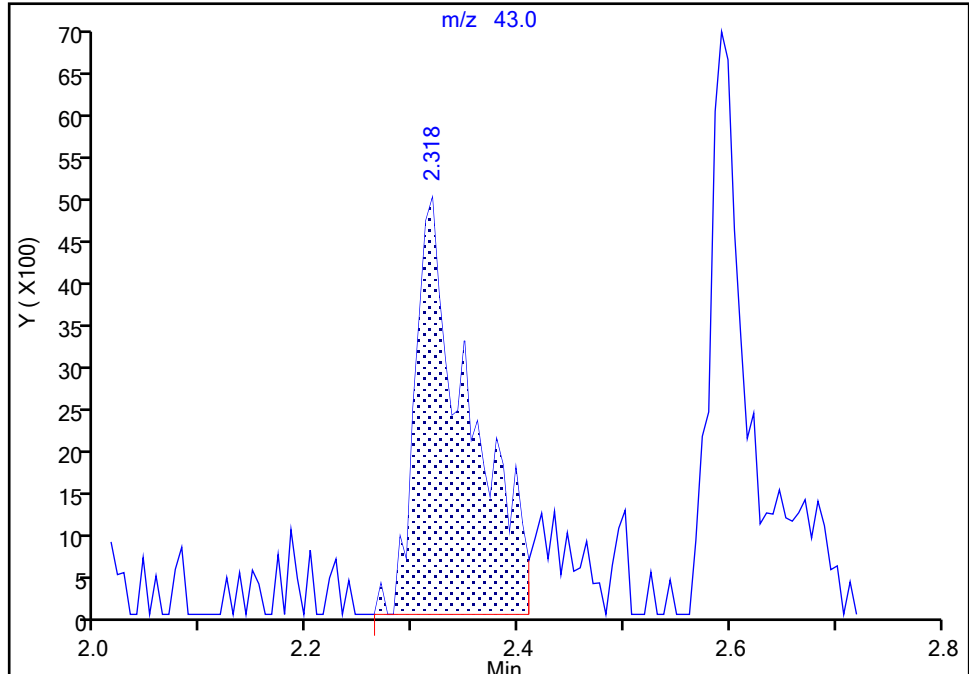
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**23 Acetone, CAS: 67-64-1**

Signal: 1

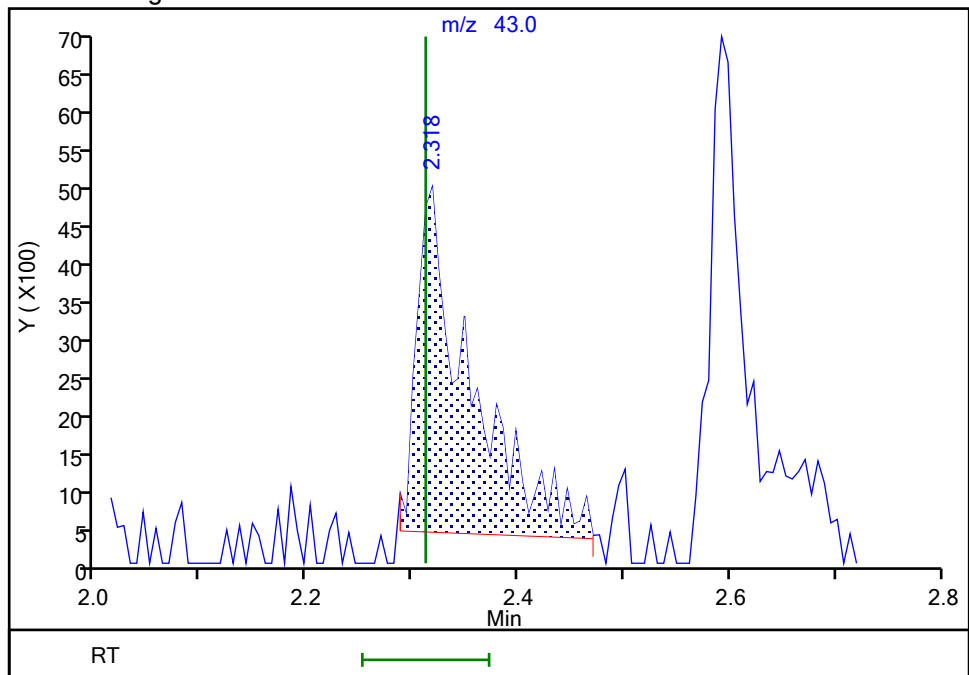
RT: 2.32  
Area: 17611  
Amount: 2.935745  
Amount Units: ug/L

## Processing Integration Results



RT: 2.32  
Area: 16066  
Amount: 2.726365  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:28:03  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

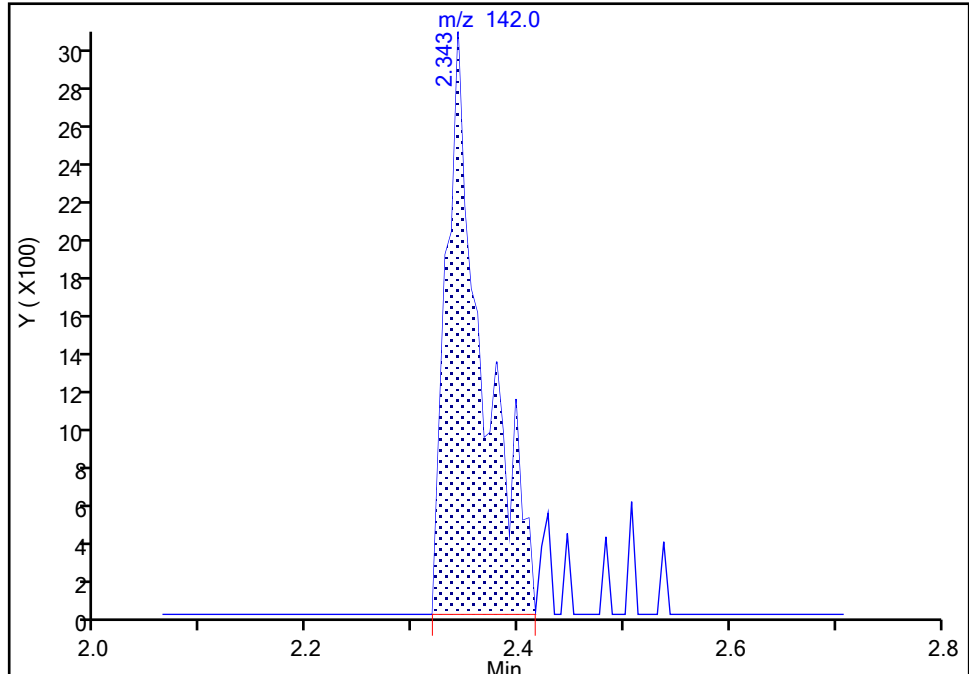
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector MS SCAN

**25 Iodomethane, CAS: 74-88-4**

Signal: 1

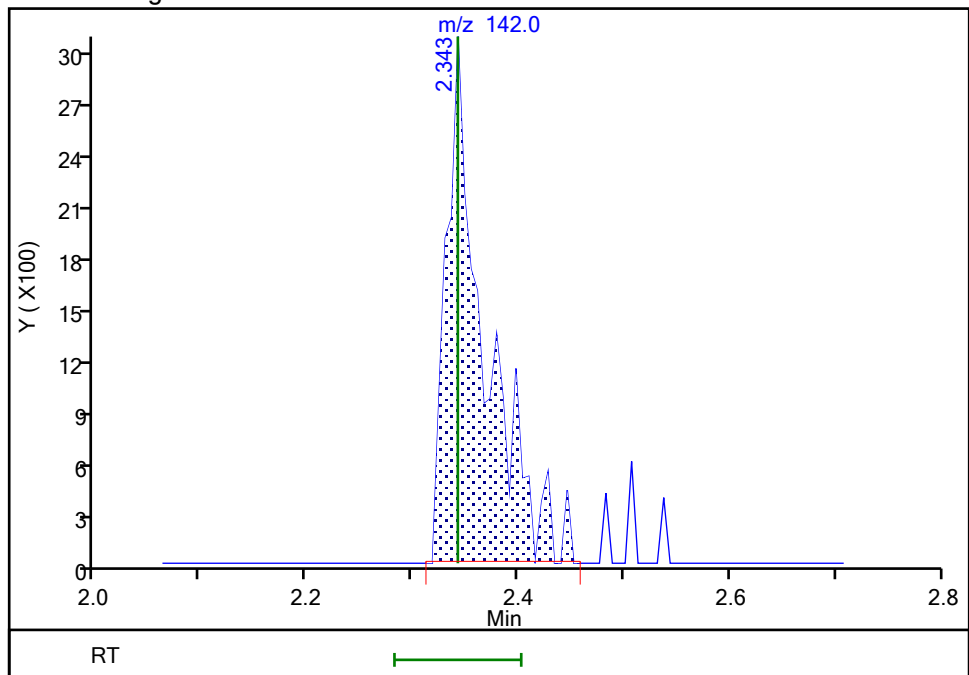
RT: 2.34  
Area: 7353  
Amount: 0.424589  
Amount Units: ug/L

## Processing Integration Results



RT: 2.34  
Area: 7734  
Amount: 0.436197  
Amount Units: ug/L

## Manual Integration Results



## Eurofins Buffalo

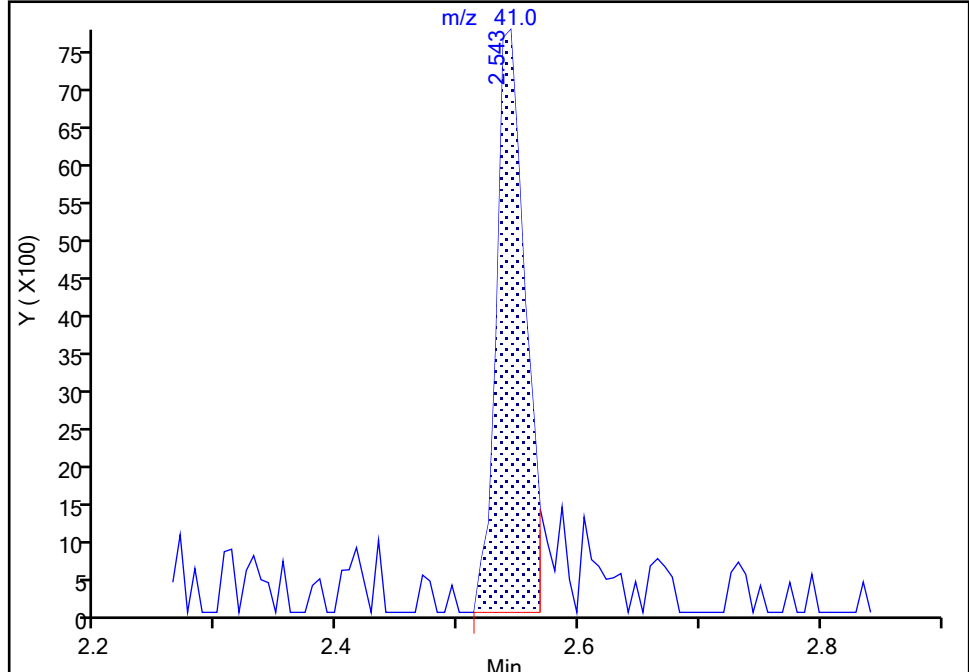
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**28 3-Chloro-1-propene, CAS: 107-05-1**

Signal: 1

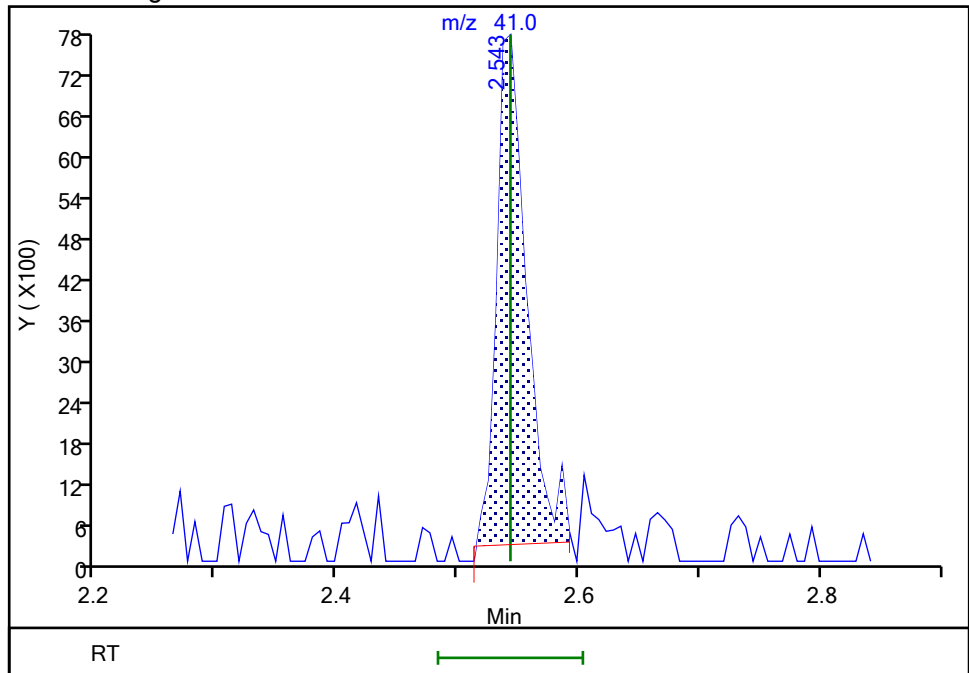
RT: 2.54  
Area: 12906  
Amount: 0.537278  
Amount Units: ug/L

## Processing Integration Results



RT: 2.54  
Area: 12830  
Amount: 0.534631  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:28:12  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

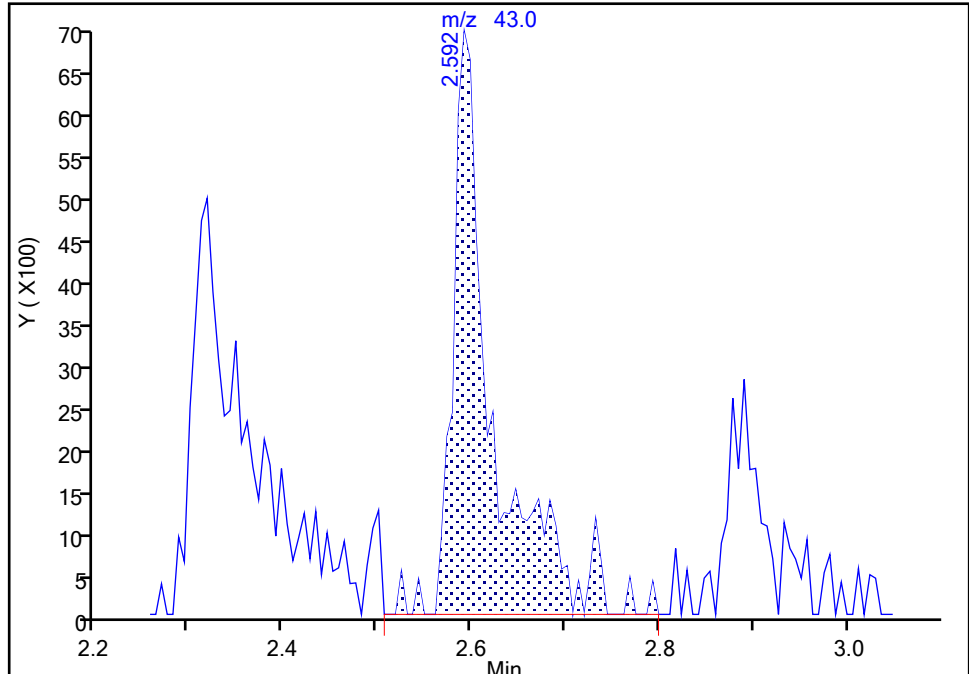
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**27 Methyl acetate, CAS: 79-20-9**

Signal: 1

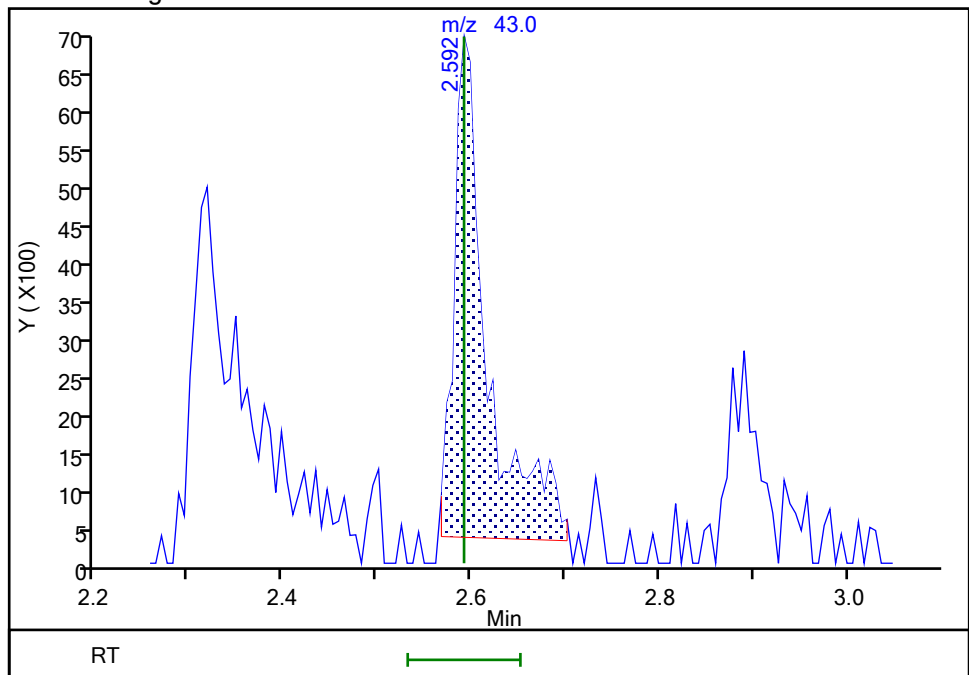
RT: 2.59  
Area: 20400  
Amount: 1.237654  
Amount Units: ug/L

## Processing Integration Results



RT: 2.59  
Area: 16103  
Amount: 1.004436  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:28:19  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

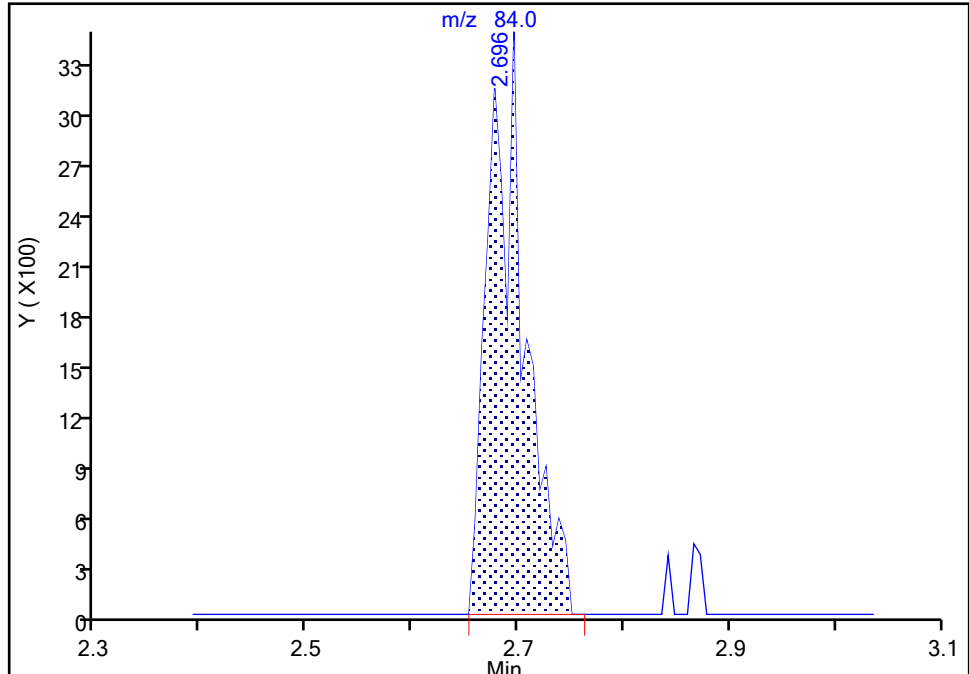
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**30 Methylene Chloride, CAS: 75-09-2**

Signal: 1

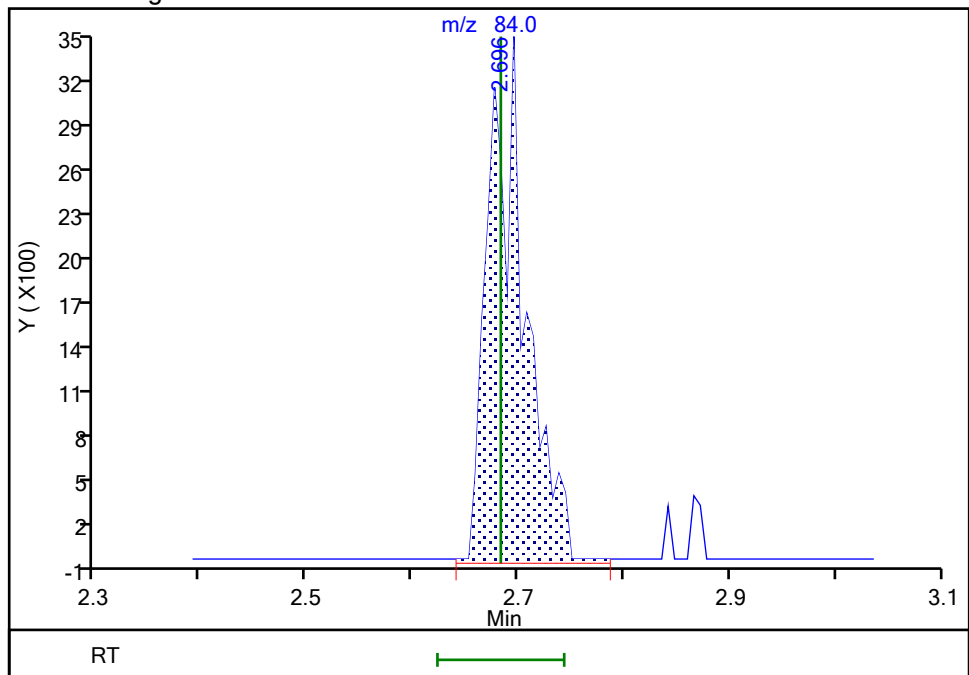
RT: 2.70  
Area: 8336  
Amount: 0.389883  
Amount Units: ug/L

## Processing Integration Results



RT: 2.70  
Area: 8591  
Amount: 0.382341  
Amount Units: ug/L

## Manual Integration Results



## Eurofins Buffalo

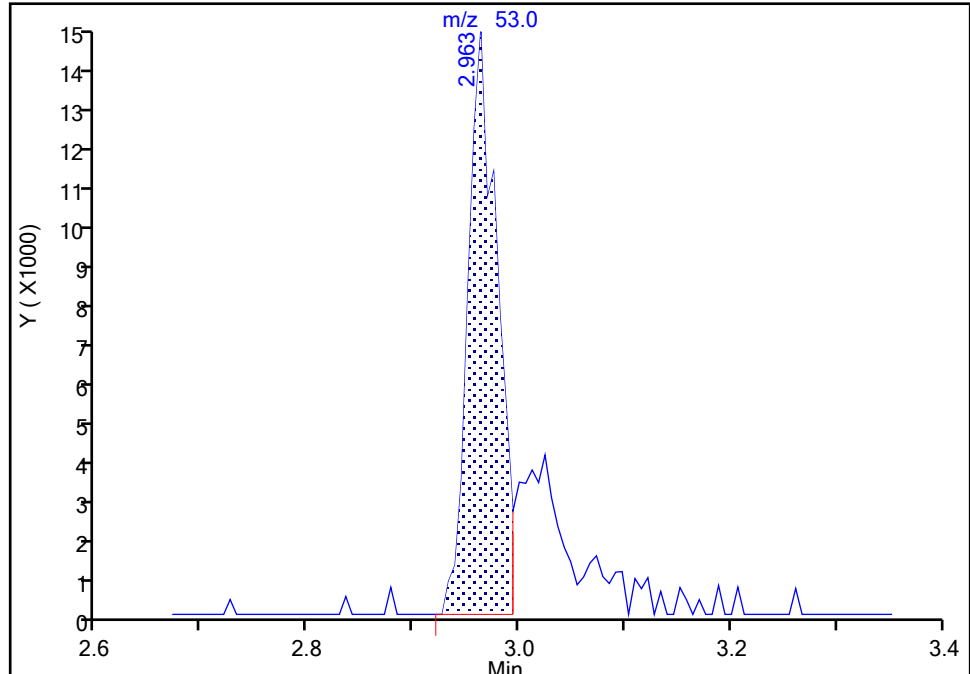
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**33 Acrylonitrile, CAS: 107-13-1**

Signal: 1

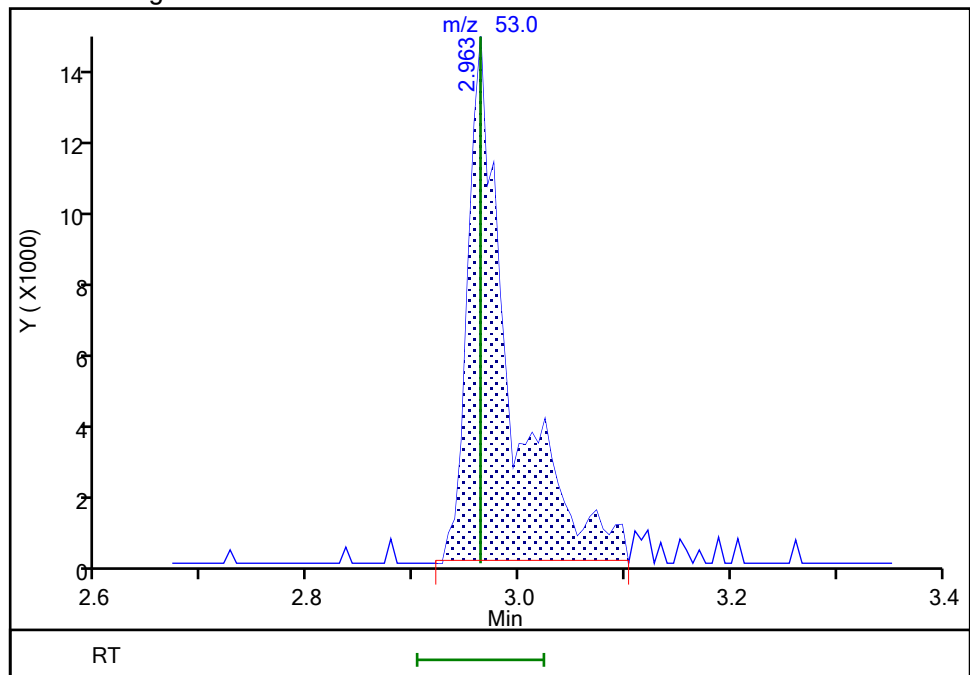
RT: 2.96  
Area: 28562  
Amount: 3.850350  
Amount Units: ug/L

## Processing Integration Results



RT: 2.96  
Area: 40214  
Amount: 5.013918  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:25:33  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D

Injection Date: 09-Aug-2022 17:06:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: AG

ALS Bottle#:

13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)

Detector

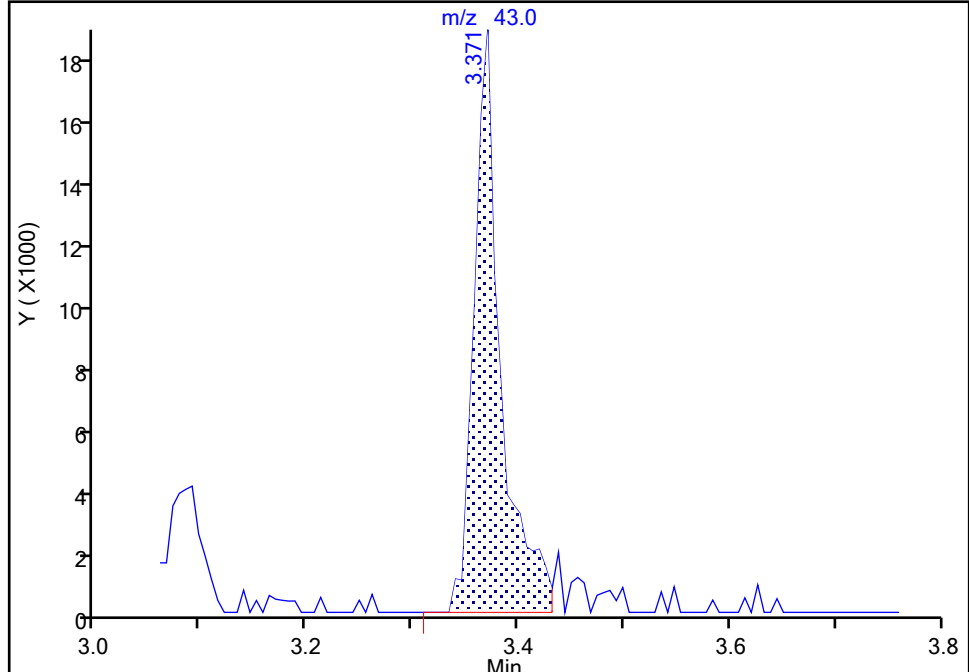
MS SCAN

**37 Vinyl acetate, CAS: 108-05-4**

Signal: 1

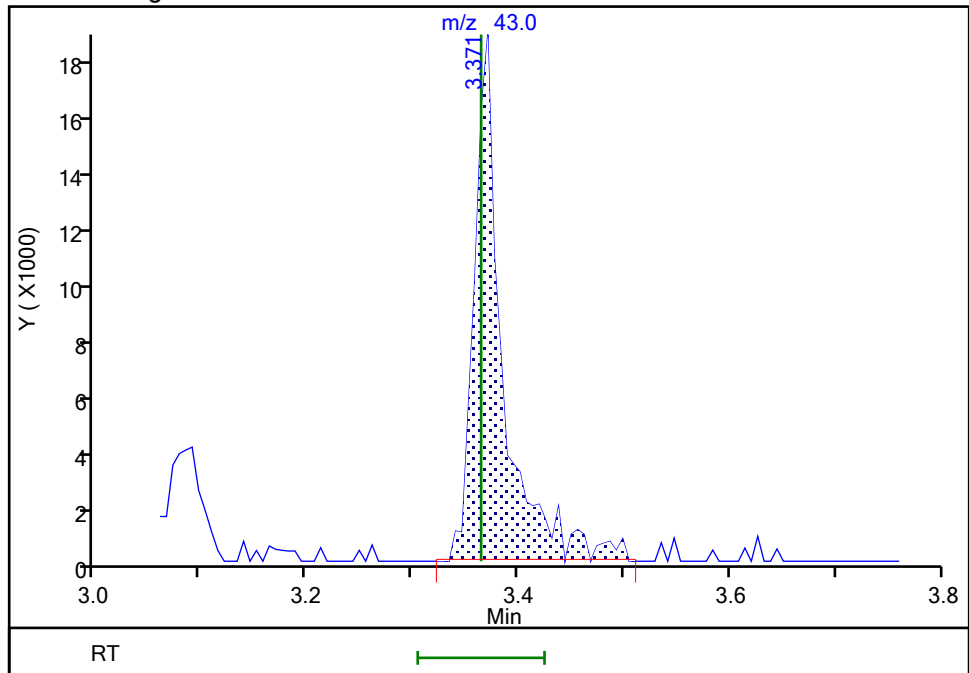
RT: 3.37  
Area: 32173  
Amount: 0.911326  
Amount Units: ug/L

## Processing Integration Results



RT: 3.37  
Area: 34283  
Amount: 0.964057  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:25:59

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

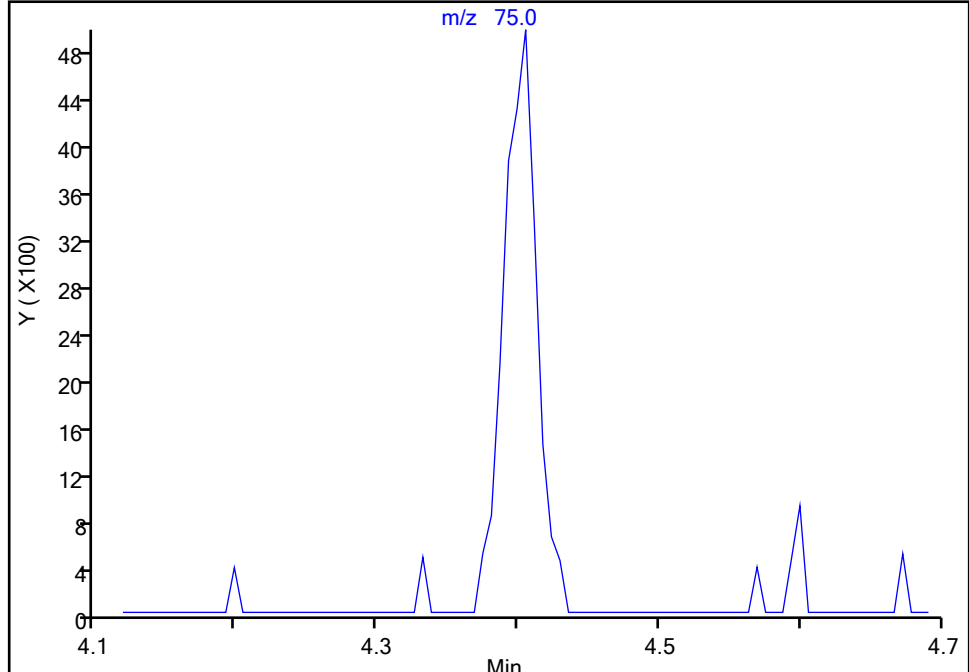
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**54 1,1-Dichloropropene, CAS: 563-58-6**

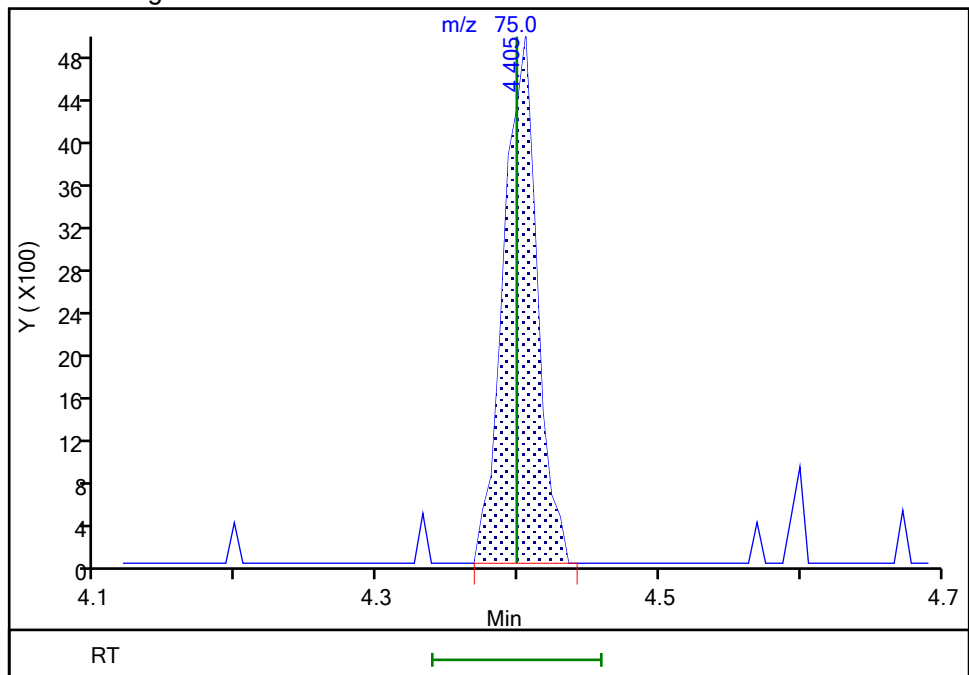
Signal: 1

Not Detected  
Expected RT: 4.40

## Processing Integration Results



## Manual Integration Results



RT: 4.41  
Area: 8177  
Amount: 0.452293  
Amount Units: ug/L



## Eurofins Buffalo

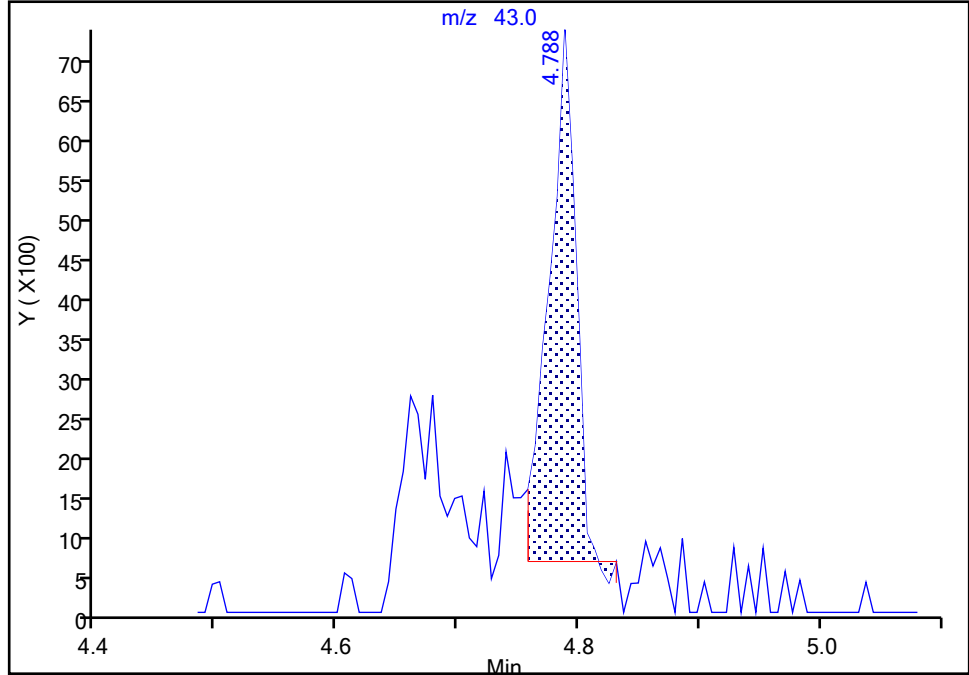
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**59 n-Heptane, CAS: 142-82-5**

Signal: 1

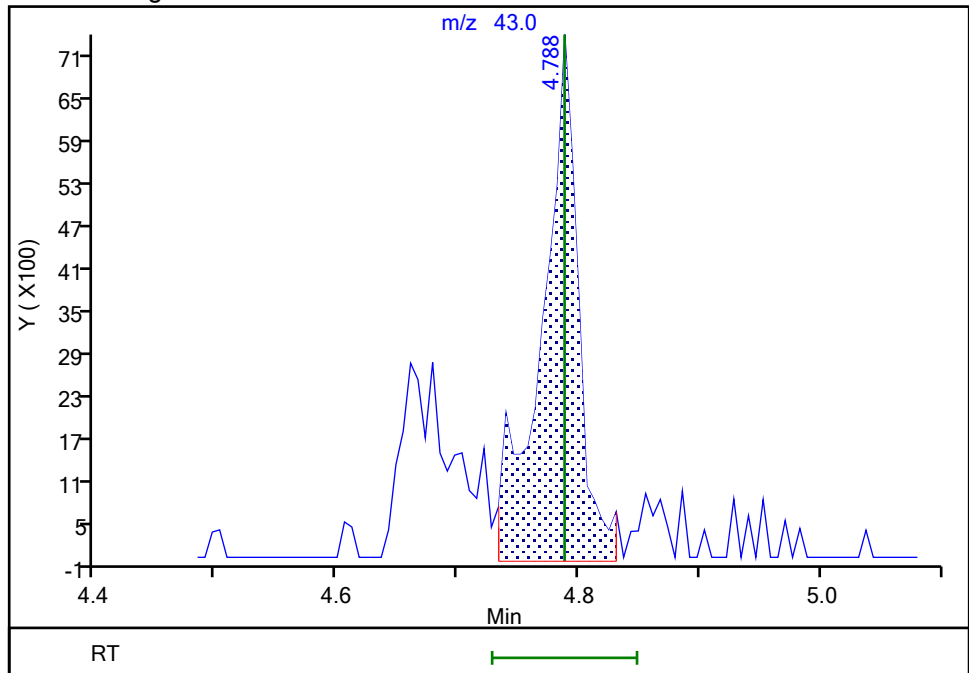
RT: 4.79  
Area: 10196  
Amount: 0.350469  
Amount Units: ug/L

## Processing Integration Results



RT: 4.79  
Area: 15634  
Amount: 0.504796  
Amount Units: ug/L

## Manual Integration Results



## Eurofins Buffalo

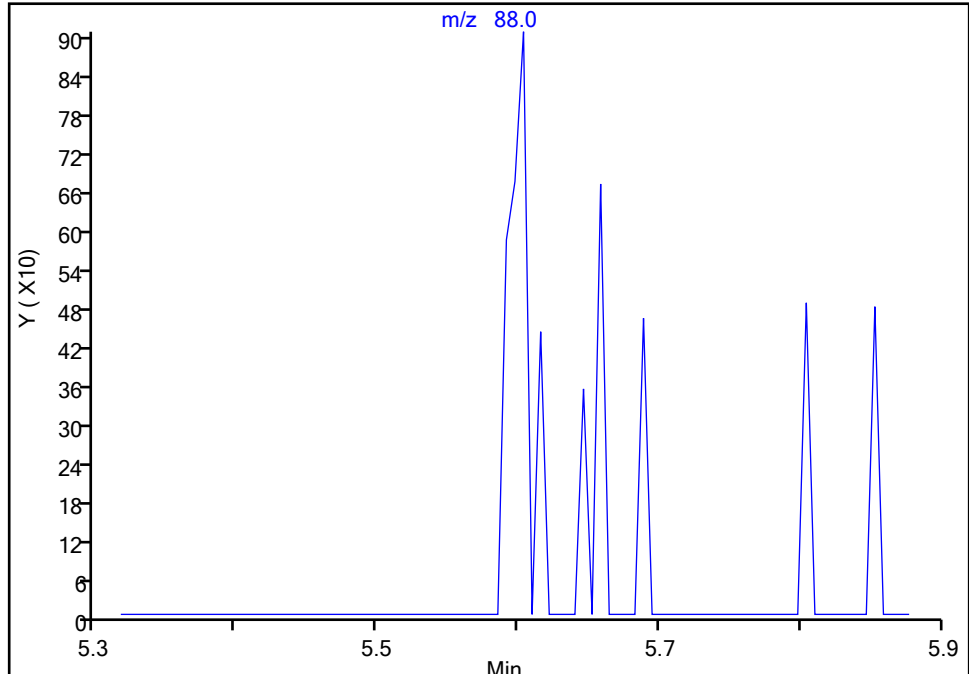
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**66 1,4-Dioxane, CAS: 123-91-1**

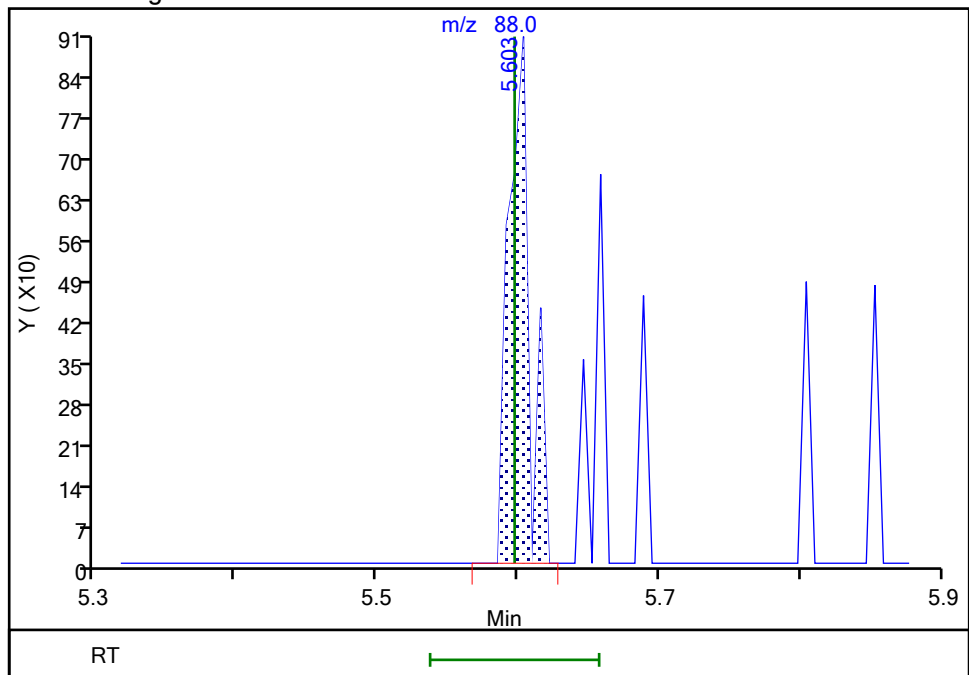
Signal: 1

Not Detected  
Expected RT: 5.60

## Processing Integration Results



## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:26:57  
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D

Injection Date: 09-Aug-2022 17:06:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: AG

ALS Bottle#:

13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)

Detector

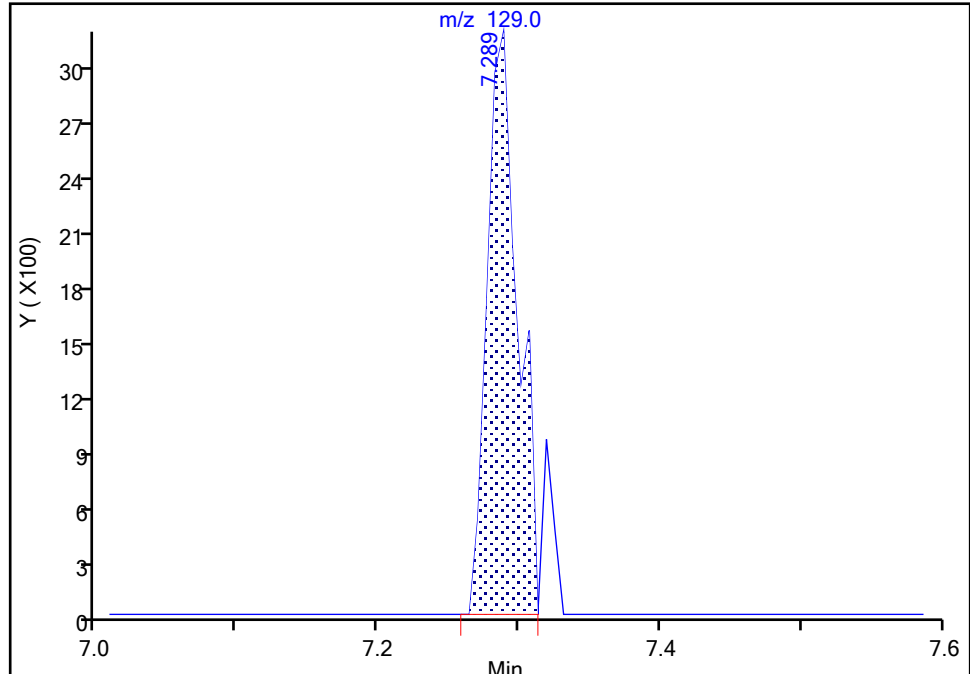
MS SCAN

**83 Chlorodibromomethane, CAS: 124-48-1**

Signal: 1

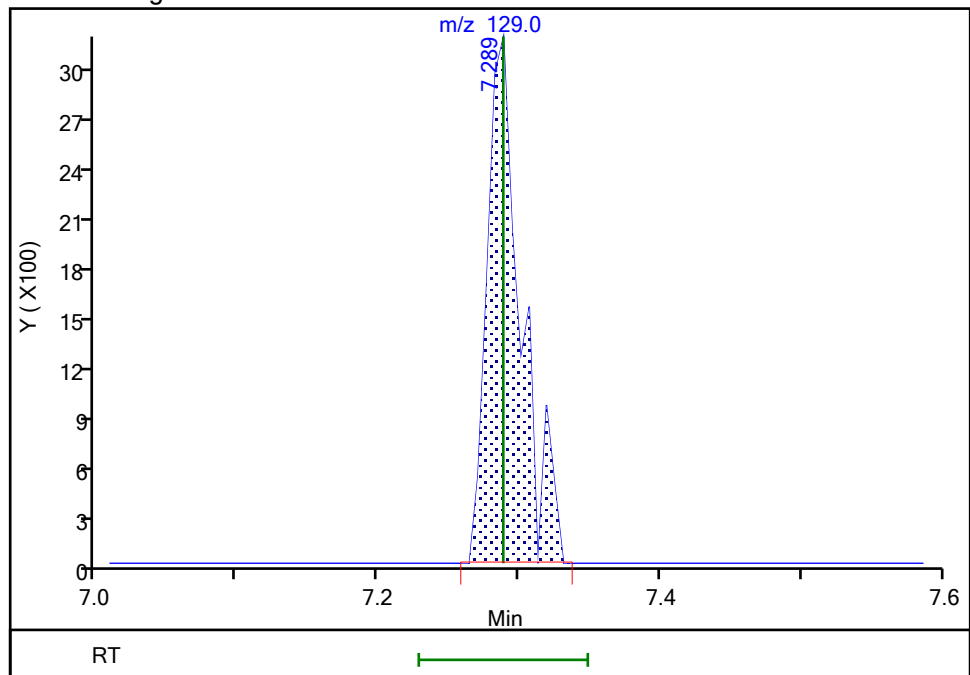
RT: 7.29  
Area: 4714  
Amount: 0.434470  
Amount Units: ug/L

## Processing Integration Results



RT: 7.29  
Area: 5184  
Amount: 0.486880  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:27:39

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

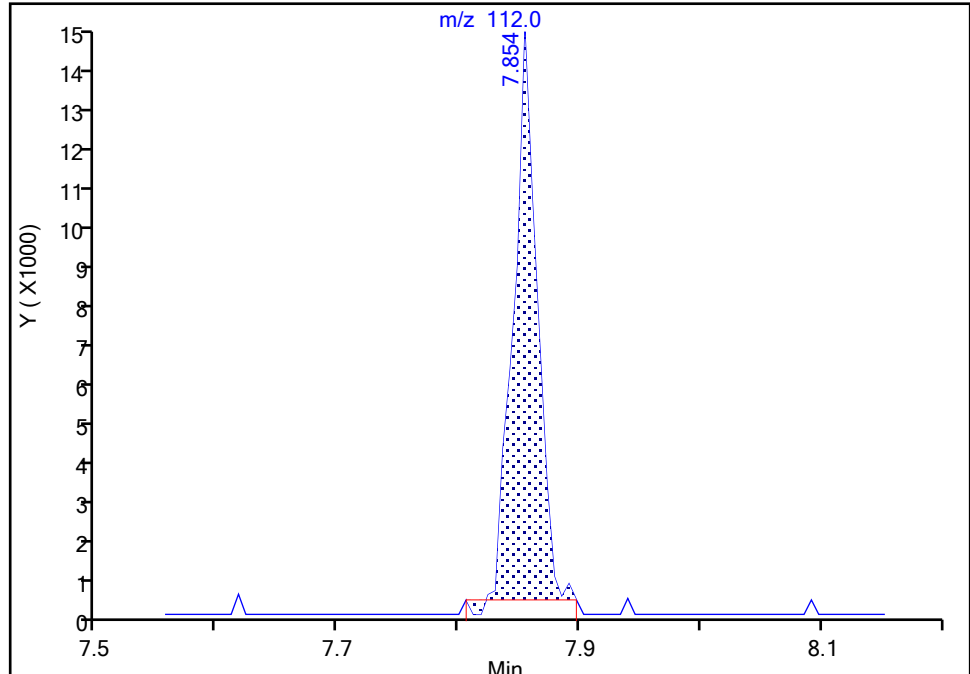
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**87 Chlorobenzene, CAS: 108-90-7**

Signal: 1

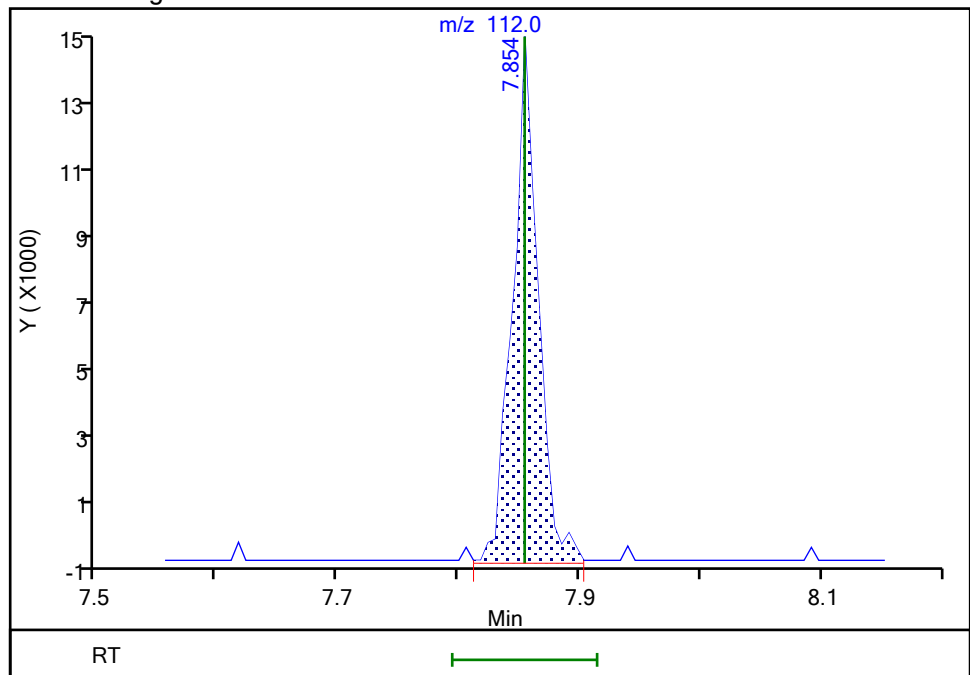
RT: 7.85  
Area: 18979  
Amount: 0.462887  
Amount Units: ug/L

## Processing Integration Results



RT: 7.85  
Area: 21429  
Amount: 0.514948  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:28:16  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

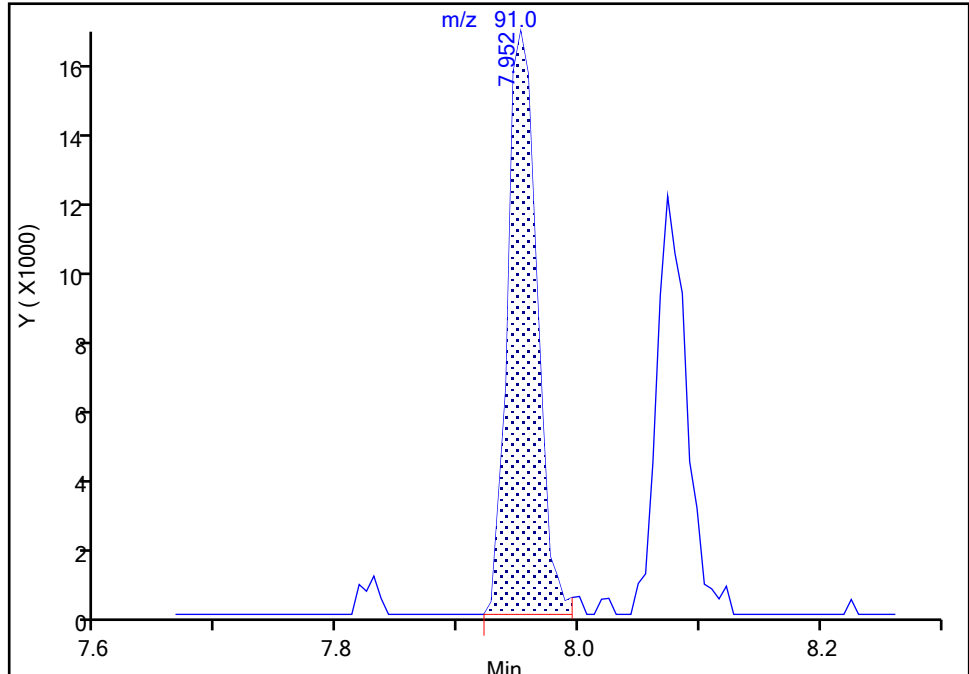
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**88 Ethylbenzene, CAS: 100-41-4**

Signal: 1

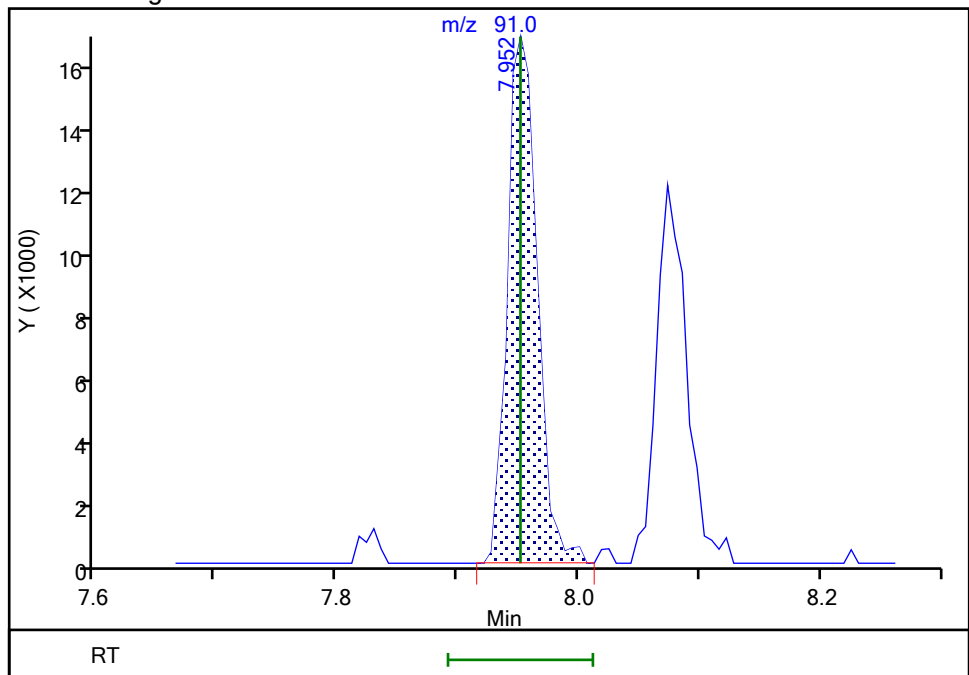
RT: 7.95  
Area: 28707  
Amount: 0.440620  
Amount Units: ug/L

## Processing Integration Results



RT: 7.95  
Area: 28810  
Amount: 0.434824  
Amount Units: ug/L

## Manual Integration Results



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D

Injection Date: 09-Aug-2022 17:06:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: AG

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)

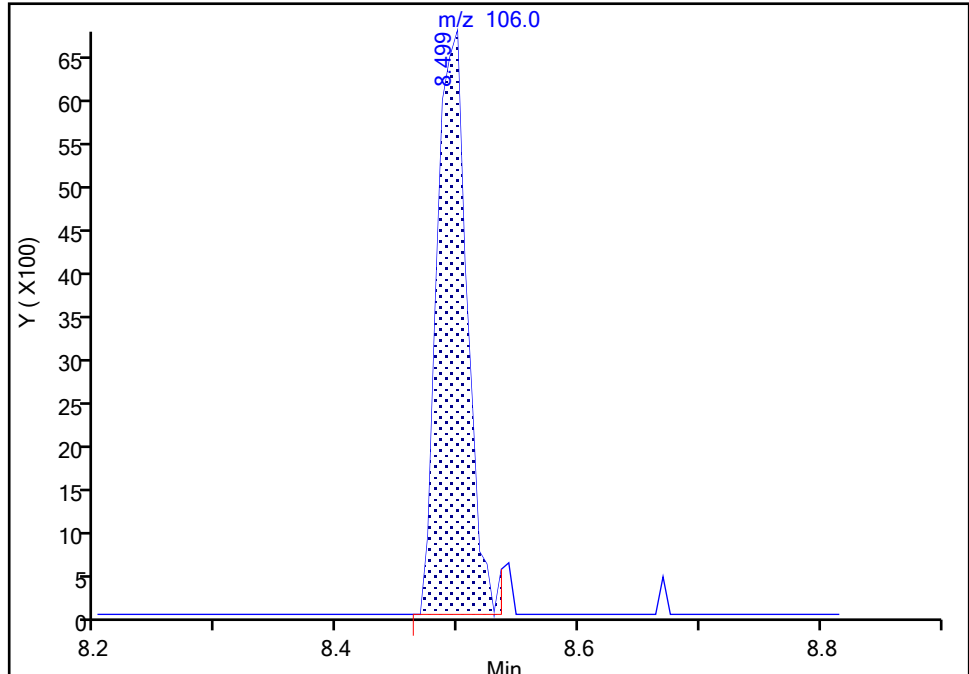
Detector: MS SCAN

**91 o-Xylene, CAS: 95-47-6**

Signal: 1

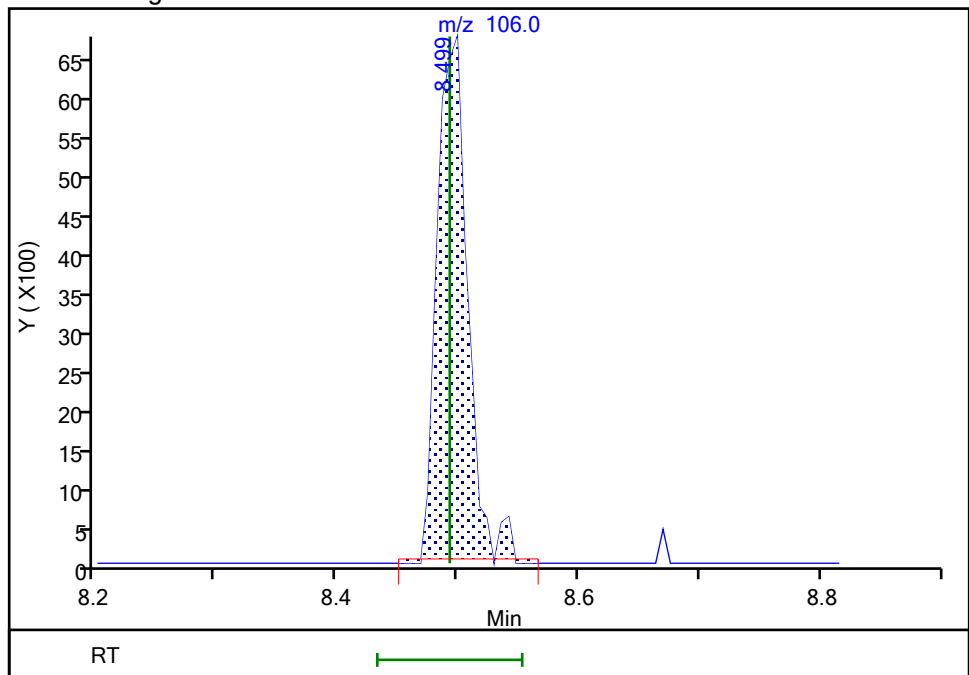
RT: 8.50  
Area: 11681  
Amount: 0.465519  
Amount Units: ug/L

## Processing Integration Results



RT: 8.50  
Area: 11497  
Amount: 0.453716  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:28:48

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

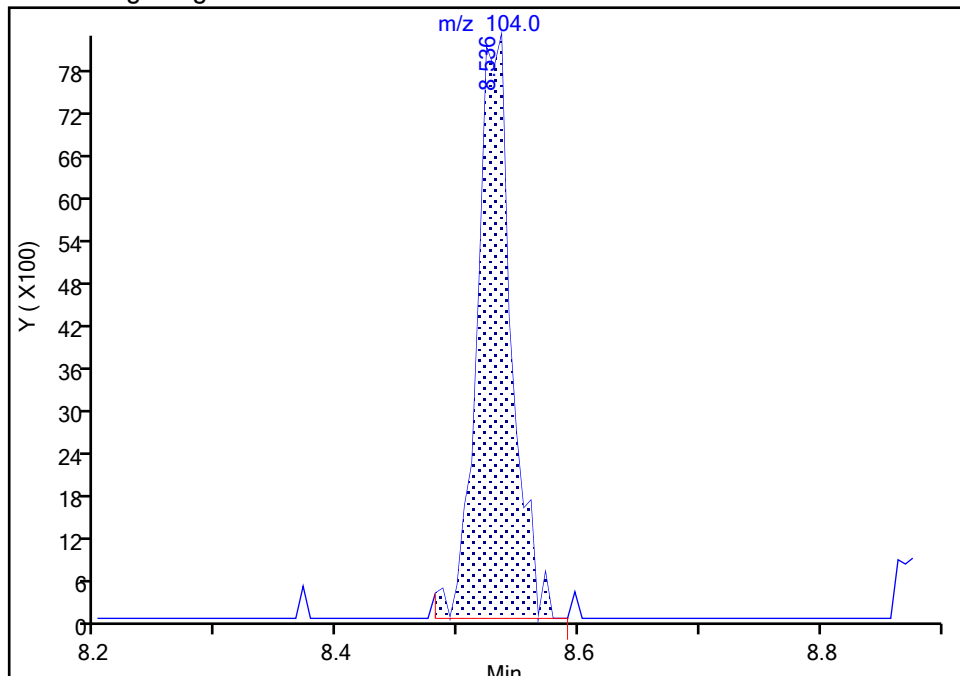
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

92 Styrene, CAS: 100-42-5

Signal: 1

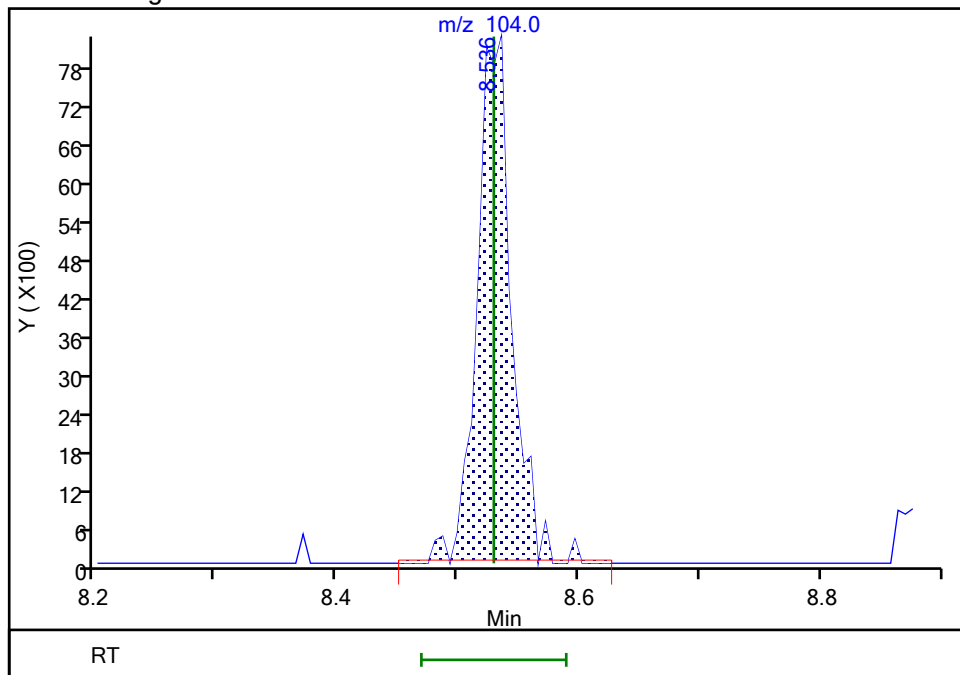
RT: 8.54  
Area: 16252  
Amount: 0.395023  
Amount Units: ug/L

## Processing Integration Results



RT: 8.54  
Area: 15853  
Amount: 0.372787  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:29:02

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

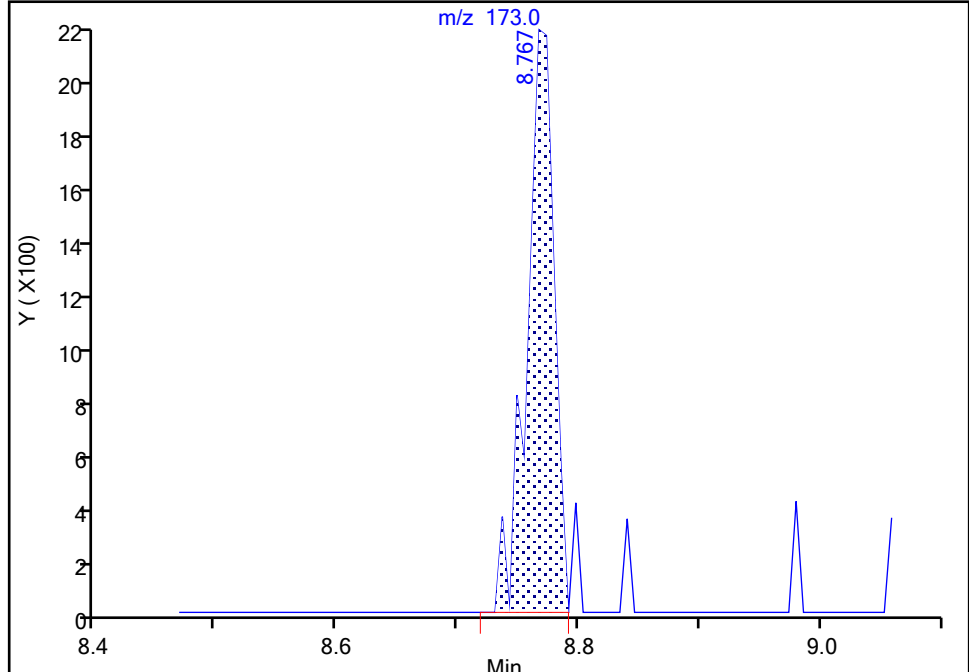
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**95 Bromoform, CAS: 75-25-2**

Signal: 1

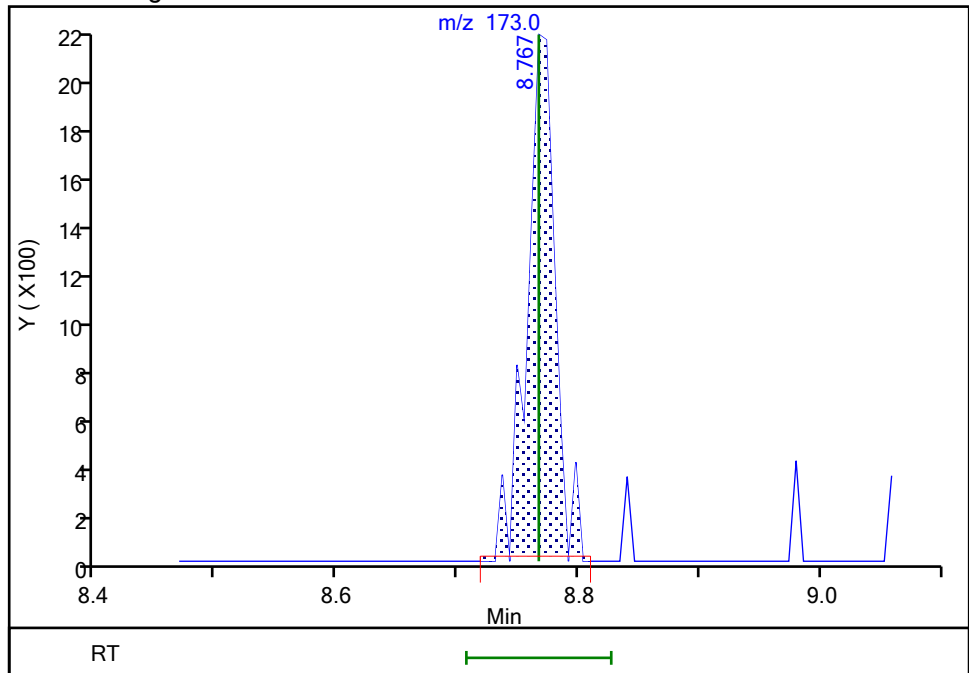
RT: 8.77  
Area: 3414  
Amount: 0.468968  
Amount Units: ug/L

## Processing Integration Results



RT: 8.77  
Area: 3442  
Amount: 0.485822  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:29:13  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D

Injection Date: 09-Aug-2022 17:06:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: AG

ALS Bottle#:

13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)

Detector

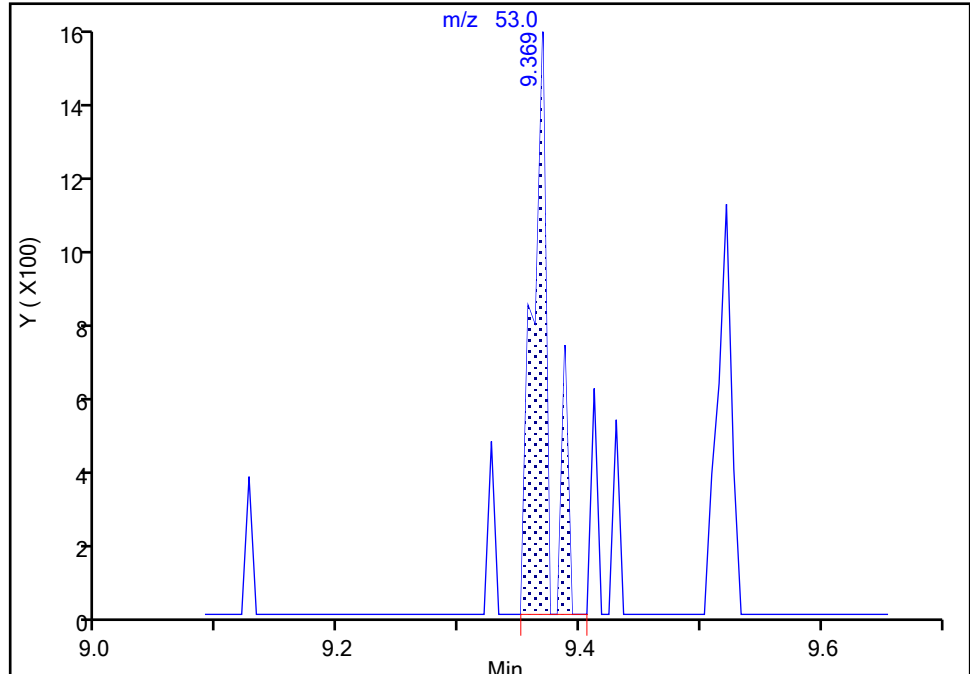
MS SCAN

**98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6**

Signal: 1

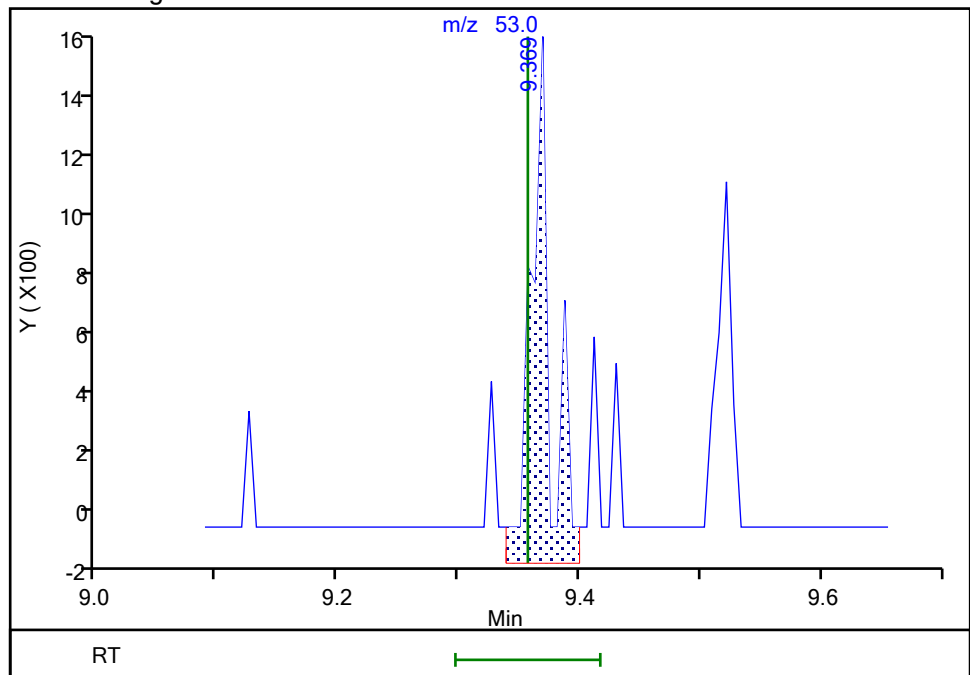
RT: 9.37  
Area: 1367  
Amount: 0.732793  
Amount Units: ug/L

## Processing Integration Results



RT: 9.37  
Area: 1813  
Amount: 0.407464  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 10:43:57

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

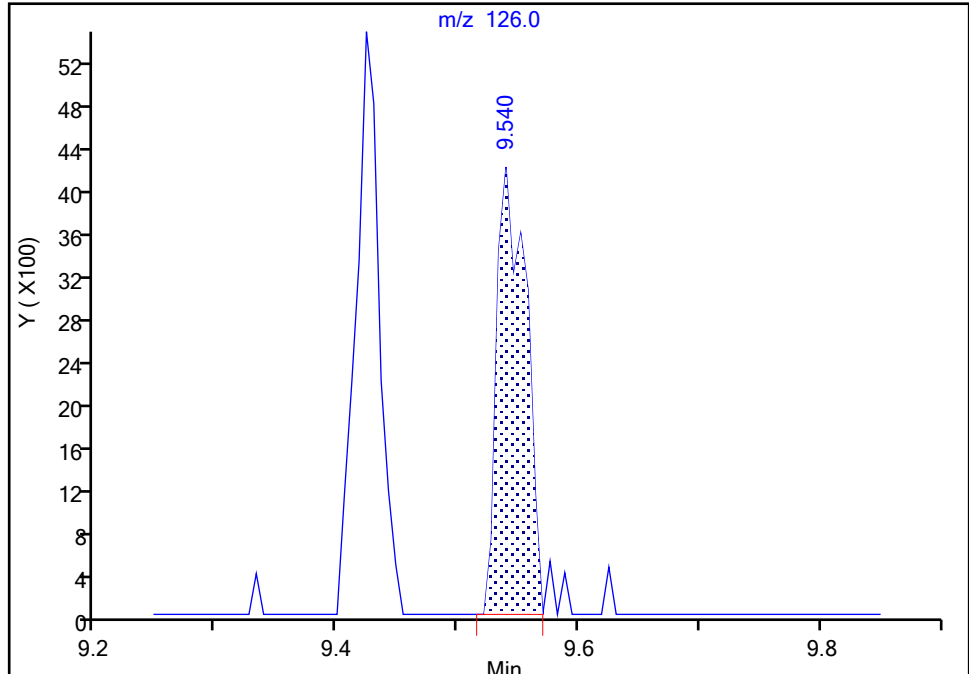
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**105 4-Chlorotoluene, CAS: 106-43-4**

Signal: 1

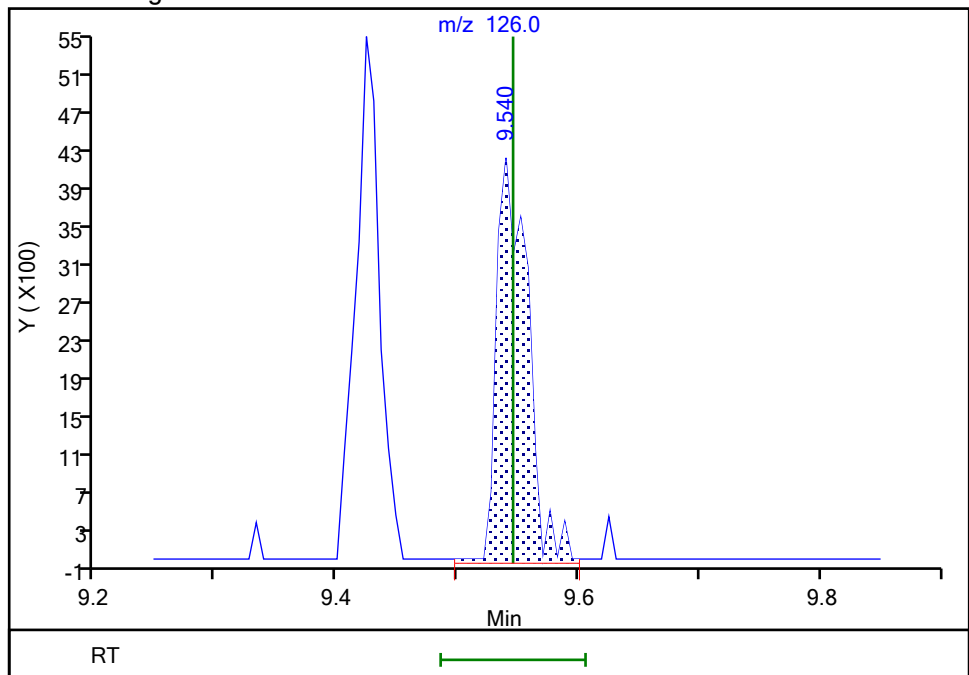
RT: 9.54  
Area: 7055  
Amount: 0.439858  
Amount Units: ug/L

## Processing Integration Results



RT: 9.54  
Area: 7669  
Amount: 0.473607  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:29:42  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D

Injection Date: 09-Aug-2022 17:06:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: AG

ALS Bottle#:

13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)

Detector

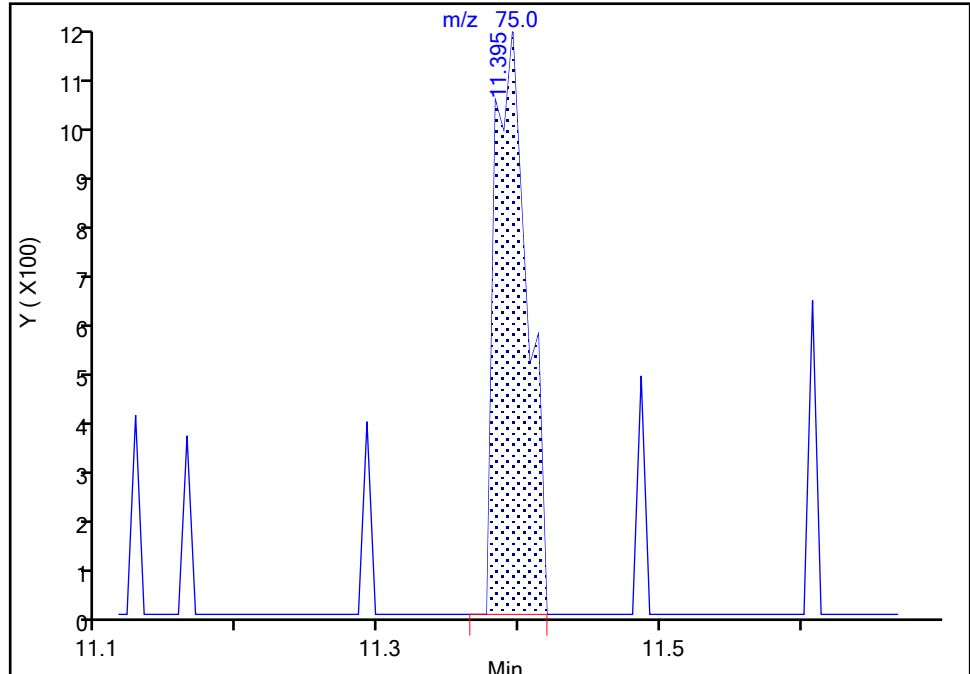
MS SCAN

**117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8**

Signal: 1

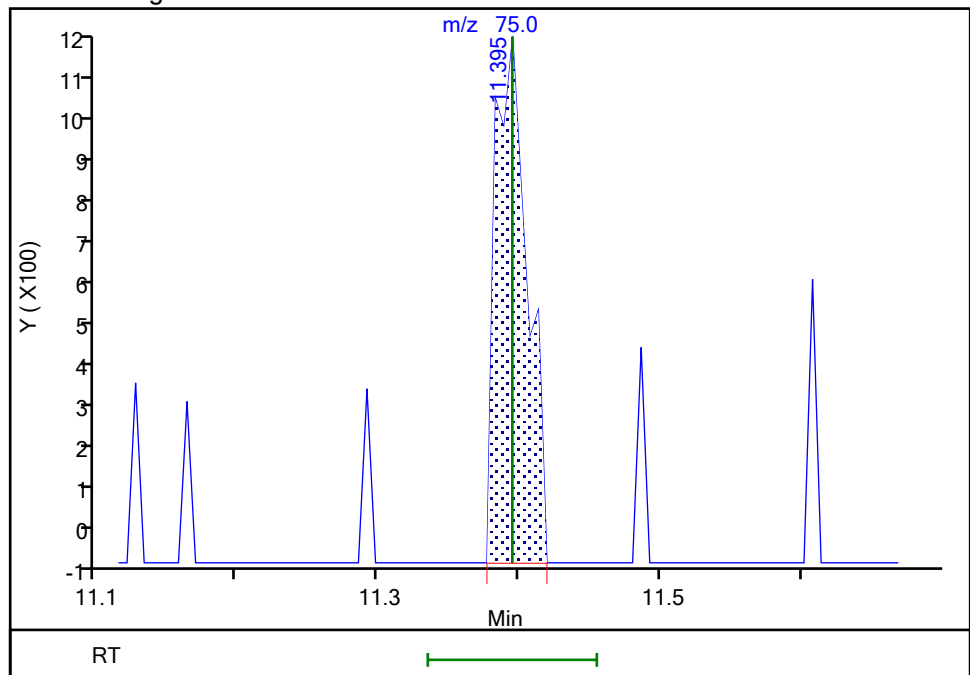
RT: 11.40  
Area: 1829  
Amount: 0.617406  
Amount Units: ug/L

## Processing Integration Results



RT: 11.40  
Area: 1832  
Amount: 0.639883  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:30:04

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

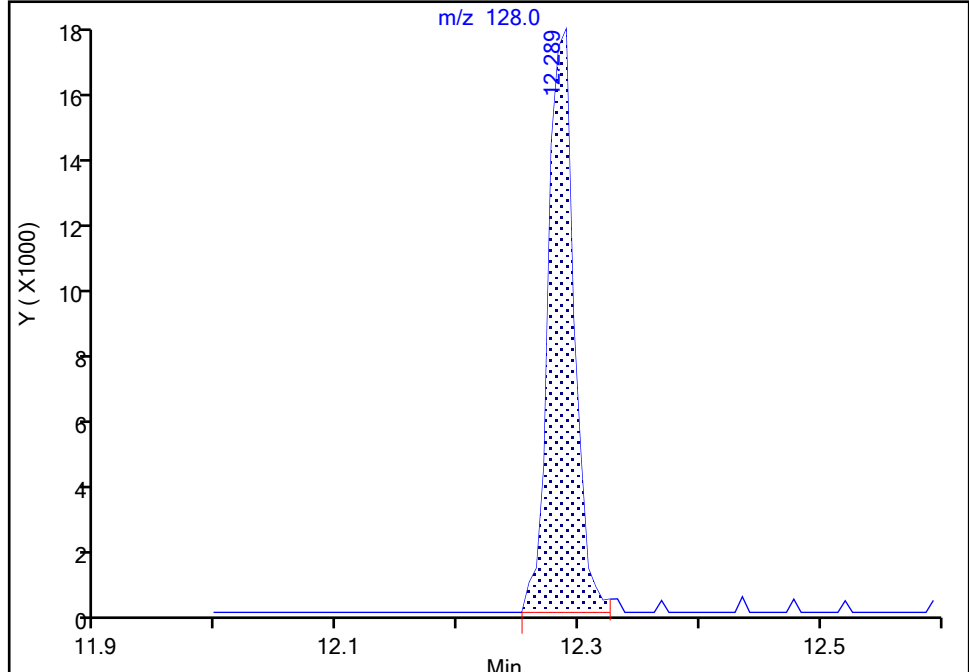
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4495.D  
Injection Date: 09-Aug-2022 17:06:30 Instrument ID: HP5973S  
Lims ID: IC 0.5  
Client ID:  
Operator ID: AG ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**121 Naphthalene, CAS: 91-20-3**

Signal: 1

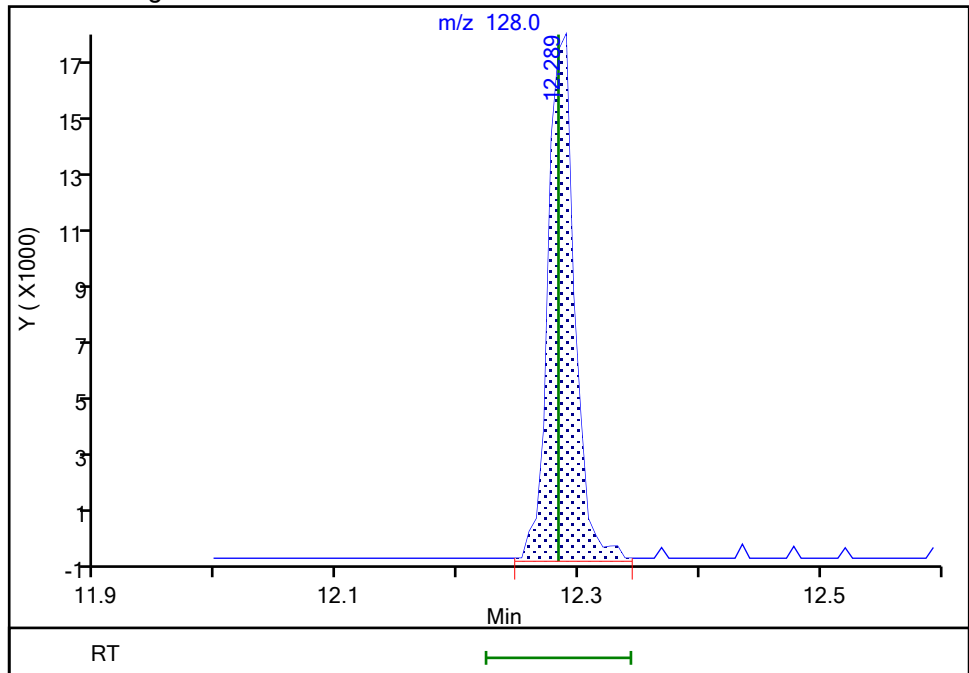
RT: 12.29  
Area: 26162  
Amount: 0.444785  
Amount Units: ug/L

## Processing Integration Results



RT: 12.29  
Area: 26937  
Amount: 0.471350  
Amount Units: ug/L

## Manual Integration Results



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4496.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 09-Aug-2022 17:30:30 ALS Bottle#: 14 Worklist Smp#: 14  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 480-0106979-014  
 Operator ID: AG Instrument ID: HP5973S  
 Sublist: chrom-S-8260\*sub26  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 10-Aug-2022 14:56:52 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1608

First Level Reviewer: FGO5

Date: 10-Aug-2022 09:36:32

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 153 Fluorobenzene (IS)                 | 70  | 4.873        | 4.867            | 0.006            | 98 | 180801   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 82  | 7.824        | 7.824            | 0.000            | 87 | 375205   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 10.263       | 10.263           | 0.000            | 94 | 390813   | 25.0            | 25.0              |       |
| \$ 154 Dibromofluoromethane (Surr)       | 113 | 4.308        | 4.307            | 0.001            | 58 | 228282   | 25.0            | 24.9              |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)        | 67  | 4.606        | 4.606            | 0.000            | 97 | 161176   | 25.0            | 25.7              |       |
| \$ 5 Toluene-d8 (Surr)                   | 98  | 6.364        | 6.358            | 0.006            | 93 | 913164   | 25.0            | 25.0              |       |
| \$ 6 4-Bromofluorobenzene (Surr)         | 174 | 9.077        | 9.077            | 0.000            | 88 | 305079   | 25.0            | 25.1              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.035        | 1.035            | 0.001            | 70 | 15627    | 1.00            | 1.05              | M     |
| 12 Chloromethane                         | 50  | 1.181        | 1.187            | -0.006           | 94 | 26144    | 1.00            | 1.11              |       |
| 13 Vinyl chloride                        | 62  | 1.247        | 1.247            | 0.000            | 58 | 16387    | 1.00            | 1.10              |       |
| 151 Butadiene                            | 54  | 1.254        | 1.266            | -0.012           | 79 | 17768    | 1.00            | 1.01              | M     |
| 14 Bromomethane                          | 94  | 1.503        | 1.509            | -0.006           | 51 | 10350    | 1.00            | 1.19              |       |
| 15 Chloroethane                          | 64  | 1.588        | 1.582            | 0.006            | 51 | 10157    | 1.00            | 1.08              | M     |
| 17 Trichlorofluoromethane                | 101 | 1.746        | 1.746            | 0.000            | 60 | 22738    | 1.00            | 1.21              | M     |
| 16 Dichlorofluoromethane                 | 67  | 1.759        | 1.758            | 0.000            | 80 | 23622    | 1.00            | 1.13              |       |
| 18 Ethyl ether                           | 59  | 2.008        | 2.002            | 0.006            | 64 | 13593    | 1.00            | 1.02              | M     |
| 20 Acrolein                              | 56  | 2.166        | 2.166            | 0.000            | 59 | 11293    | 5.00            | 6.08              |       |
| 22 1,1-Dichloroethene                    | 96  | 2.197        | 2.196            | 0.001            | 83 | 10284    | 1.00            | 1.04              | M     |
| 21 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 2.184        | 2.196            | -0.012           | 44 | 8908     | 1.00            | 0.99              |       |
| 23 Acetone                               | 43  | 2.312        | 2.312            | 0.000            | 81 | 30946    | 5.00            | 5.30              | M     |
| 25 Iodomethane                           | 142 | 2.379        | 2.342            | 0.037            | 11 | 18205    | 1.00            | 1.04              |       |
| 26 Carbon disulfide                      | 76  | 2.385        | 2.379            | 0.006            | 69 | 31975    | 1.00            | 1.00              |       |
| 28 3-Chloro-1-propene                    | 41  | 2.549        | 2.543            | 0.006            | 79 | 25142    | 1.00            | 1.06              |       |
| 27 Methyl acetate                        | 43  | 2.598        | 2.592            | 0.006            | 87 | 34204    | 2.00            | 2.15              | M     |
| 30 Methylene Chloride                    | 84  | 2.683        | 2.683            | 0.000            | 80 | 18499    | 1.00            | 1.19              |       |
| 31 2-Methyl-2-propanol                   | 59  | 2.872        | 2.860            | 0.012            | 43 | 17202    | 10.0            | 9.97              | M     |
| 32 Methyl tert-butyl ether               | 73  | 2.878        | 2.884            | -0.006           | 89 | 44072    | 1.00            | 1.11              | M     |
| 34 trans-1,2-Dichloroethene              | 96  | 2.902        | 2.896            | 0.006            | 83 | 13704    | 1.00            | 1.11              |       |
| 33 Acrylonitrile                         | 53  | 2.963        | 2.963            | 0.000            | 97 | 82848    | 10.0            | 10.4              |       |
| 35 Hexane                                | 57  | 3.079        | 3.085            | -0.006           | 87 | 26906    | 1.00            | 1.05              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane          | 63  | 3.304     | 3.304         | 0.000         | 72 | 29462    | 1.00         | 1.13           |       |
| 37 Vinyl acetate               | 43  | 3.365     | 3.365         | 0.001         | 94 | 67651    | 2.00         | 1.92           |       |
| 44 2,2-Dichloropropane         | 77  | 3.803     | 3.803         | 0.000         | 71 | 17135    | 1.00         | 1.19           |       |
| 45 cis-1,2-Dichloroethene      | 96  | 3.845     | 3.839         | 0.006         | 71 | 16083    | 1.00         | 1.15           |       |
| 43 2-Butanone (MEK)            | 43  | 3.894     | 3.888         | 0.006         | 93 | 53090    | 5.00         | 5.38           | M     |
| 48 Chlorobromomethane          | 128 | 4.076     | 4.070         | 0.006         | 73 | 9761     | 1.00         | 1.28           |       |
| 49 Tetrahydrofuran             | 42  | 4.089     | 4.082         | 0.006         | 80 | 14311    | 2.00         | 2.21           |       |
| 50 Chloroform                  | 83  | 4.149     | 4.155         | -0.006        | 89 | 24925    | 1.00         | 1.08           |       |
| 52 Cyclohexane                 | 56  | 4.241     | 4.253         | -0.012        | 81 | 27706    | 1.00         | 1.03           |       |
| 51 1,1,1-Trichloroethane       | 97  | 4.259     | 4.253         | 0.006         | 61 | 19201    | 1.00         | 1.06           |       |
| 55 Carbon tetrachloride        | 117 | 4.381     | 4.380         | 0.001         | 74 | 16799    | 1.00         | 1.10           |       |
| 54 1,1-Dichloropropene         | 75  | 4.399     | 4.399         | 0.000         | 66 | 18619    | 1.00         | 1.04           |       |
| 57 Benzene                     | 78  | 4.600     | 4.599         | 0.001         | 49 | 60109    | 1.00         | 1.11           |       |
| 53 Isobutyl alcohol            | 43  | 4.660     | 4.660         | 0.000         | 76 | 18718    | 25.0         | 25.9           | M     |
| 58 1,2-Dichloroethane          | 62  | 4.679     | 4.672         | 0.007         | 62 | 24294    | 1.00         | 1.12           |       |
| 59 n-Heptane                   | 43  | 4.788     | 4.788         | 0.000         | 91 | 32449    | 1.00         | 1.06           | M     |
| 62 Trichloroethene             | 95  | 5.202     | 5.202         | 0.000         | 80 | 14257    | 1.00         | 1.07           |       |
| 64 Methylcyclohexane           | 83  | 5.311     | 5.311         | 0.000         | 90 | 22509    | 1.00         | 0.9728         |       |
| 65 1,2-Dichloropropane         | 63  | 5.445     | 5.445         | 0.000         | 74 | 15784    | 1.00         | 1.06           |       |
| 67 Dibromomethane              | 93  | 5.579     | 5.579         | 0.000         | 77 | 8023     | 1.00         | 1.01           |       |
| 66 1,4-Dioxane                 | 88  | 5.603     | 5.597         | 0.006         | 22 | 2017     | 20.0         | 14.2           |       |
| 68 Dichlorobromomethane        | 83  | 5.737     | 5.737         | 0.000         | 64 | 15842    | 1.00         | 1.02           |       |
| 69 2-Chloroethyl vinyl ether   | 63  | 6.029     | 6.029         | 0.000         | 46 | 11042    | 1.00         | 1.10           |       |
| 72 cis-1,3-Dichloropropene     | 75  | 6.151     | 6.151         | 0.000         | 72 | 19546    | 1.00         | 1.02           |       |
| 73 4-Methyl-2-pentanone (MIBK) | 43  | 6.309     | 6.303         | 0.006         | 95 | 110314   | 5.00         | 5.01           |       |
| 74 Toluene                     | 92  | 6.425     | 6.425         | 0.000         | 77 | 36873    | 1.00         | 1.07           |       |
| 77 trans-1,3-Dichloropropene   | 75  | 6.723     | 6.723         | 0.000         | 76 | 16775    | 1.00         | 0.9647         |       |
| 75 Ethyl methacrylate          | 69  | 6.777     | 6.777         | 0.000         | 76 | 15236    | 1.00         | 0.9165         |       |
| 79 1,1,2-Trichloroethane       | 83  | 6.899     | 6.899         | 0.000         | 65 | 10973    | 1.00         | 1.05           |       |
| 81 Tetrachloroethene           | 166 | 6.942     | 6.948         | -0.006        | 71 | 15414    | 1.00         | 1.03           |       |
| 82 1,3-Dichloropropane         | 76  | 7.063     | 7.057         | 0.006         | 84 | 23512    | 1.00         | 1.06           |       |
| 80 2-Hexanone                  | 43  | 7.142     | 7.136         | 0.006         | 92 | 72223    | 5.00         | 4.79           |       |
| 83 Chlorodibromomethane        | 129 | 7.288     | 7.288         | 0.000         | 57 | 9381     | 1.00         | 0.8999         |       |
| 84 Ethylene Dibromide          | 107 | 7.386     | 7.380         | 0.006         | 73 | 13112    | 1.00         | 1.04           |       |
| 87 Chlorobenzene               | 112 | 7.854     | 7.854         | 0.000         | 89 | 43859    | 1.00         | 1.08           |       |
| 88 Ethylbenzene                | 91  | 7.952     | 7.952         | 0.000         | 93 | 64942    | 1.00         | 1.00           |       |
| 89 1,1,1,2-Tetrachloroethane   | 131 | 7.952     | 7.958         | -0.006        | 34 | 14423    | 1.00         | 1.08           |       |
| 90 m-Xylene & p-Xylene         | 106 | 8.073     | 8.073         | 0.000         | 96 | 25390    | 1.00         | 0.9881         |       |
| 91 o-Xylene                    | 106 | 8.493     | 8.493         | 0.000         | 89 | 24366    | 1.00         | 0.9821         |       |
| 92 Styrene                     | 104 | 8.536     | 8.529         | 0.007         | 87 | 38702    | 1.00         | 0.9295         | M     |
| 95 Bromoform                   | 173 | 8.767     | 8.767         | 0.000         | 59 | 7369     | 1.00         | 1.06           |       |
| 94 Isopropylbenzene            | 105 | 8.882     | 8.882         | 0.000         | 86 | 65106    | 1.00         | 1.01           |       |
| 101 Bromobenzene               | 156 | 9.223     | 9.223         | 0.000         | 90 | 18419    | 1.00         | 1.09           |       |
| 97 1,1,2,2-Tetrachloroethane   | 83  | 9.308     | 9.308         | 0.000         | 58 | 21183    | 1.00         | 1.22           |       |
| 99 N-Propylbenzene             | 91  | 9.320     | 9.326         | -0.006        | 97 | 76386    | 1.00         | 1.00           |       |
| 100 1,2,3-Trichloropropane     | 110 | 9.333     | 9.339         | -0.006        | 47 | 6575     | 1.00         | 1.14           |       |
| 98 trans-1,4-Dichloro-2-butene | 53  | 9.357     | 9.357         | 0.000         | 19 | 4291     | 1.00         | 0.9497         |       |
| 103 2-Chlorotoluene            | 126 | 9.424     | 9.424         | 0.000         | 90 | 17082    | 1.00         | 1.08           |       |
| 102 1,3,5-Trimethylbenzene     | 105 | 9.515     | 9.515         | 0.000         | 89 | 52261    | 1.00         | 0.9371         |       |
| 105 4-Chlorotoluene            | 126 | 9.552     | 9.545         | 0.007         | 87 | 17719    | 1.00         | 1.08           |       |
| 106 tert-Butylbenzene          | 134 | 9.844     | 9.844         | 0.000         | 88 | 12511    | 1.00         | 0.99           |       |
| 107 1,2,4-Trimethylbenzene     | 105 | 9.904     | 9.904         | 0.000         | 32 | 54496    | 1.00         | 0.9766         |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 109 sec-Butylbenzene             | 105 | 10.063       | 10.063           | 0.000            | 83 | 75098    | 1.00            | 1.05              |       |
| 111 1,3-Dichlorobenzene          | 146 | 10.196       | 10.190           | 0.006            | 93 | 36679    | 1.00            | 1.07              |       |
| 110 4-Isopropyltoluene           | 119 | 10.215       | 10.215           | 0.000            | 86 | 57567    | 1.00            | 0.9573            |       |
| 113 1,4-Dichlorobenzene          | 146 | 10.288       | 10.288           | 0.000            | 82 | 39216    | 1.00            | 1.10              |       |
| 115 n-Butylbenzene               | 91  | 10.616       | 10.610           | 0.006            | 92 | 48769    | 1.00            | 0.9044            |       |
| 116 1,2-Dichlorobenzene          | 146 | 10.647       | 10.647           | 0.000            | 89 | 34817    | 1.00            | 1.06              |       |
| 117 1,2-Dibromo-3-Chloropropane  | 75  | 11.401       | 11.395           | 0.006            | 8  | 3081     | 1.00            | 1.06              |       |
| 119 1,2,4-Trichlorobenzene       | 180 | 12.070       | 12.070           | 0.000            | 81 | 26285    | 1.00            | 1.06              |       |
| 120 Hexachlorobutadiene          | 225 | 12.192       | 12.192           | 0.000            | 77 | 12572    | 1.00            | 1.15              |       |
| 121 Naphthalene                  | 128 | 12.289       | 12.283           | 0.006            | 90 | 56587    | 1.00            | 0.9751            |       |
| 122 1,2,3-Trichlorobenzene       | 180 | 12.490       | 12.490           | 0.000            | 83 | 25334    | 1.00            | 1.04              |       |
| S 126 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 1.98              |       |
| S 125 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 2.26              |       |
| S 123 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 5.15              |       |
| S 124 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 1.97              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00228

Amount Added: 1.00

Units: uL

GAS CORP mix\_00524

Amount Added: 1.00

Units: uL

S\_8260\_IS\_00357

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00426

Amount Added: 1.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4496.D

Injection Date: 09-Aug-2022 17:30:30

Instrument ID: HP5973S

Operator ID: AG

Lims ID: IC

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

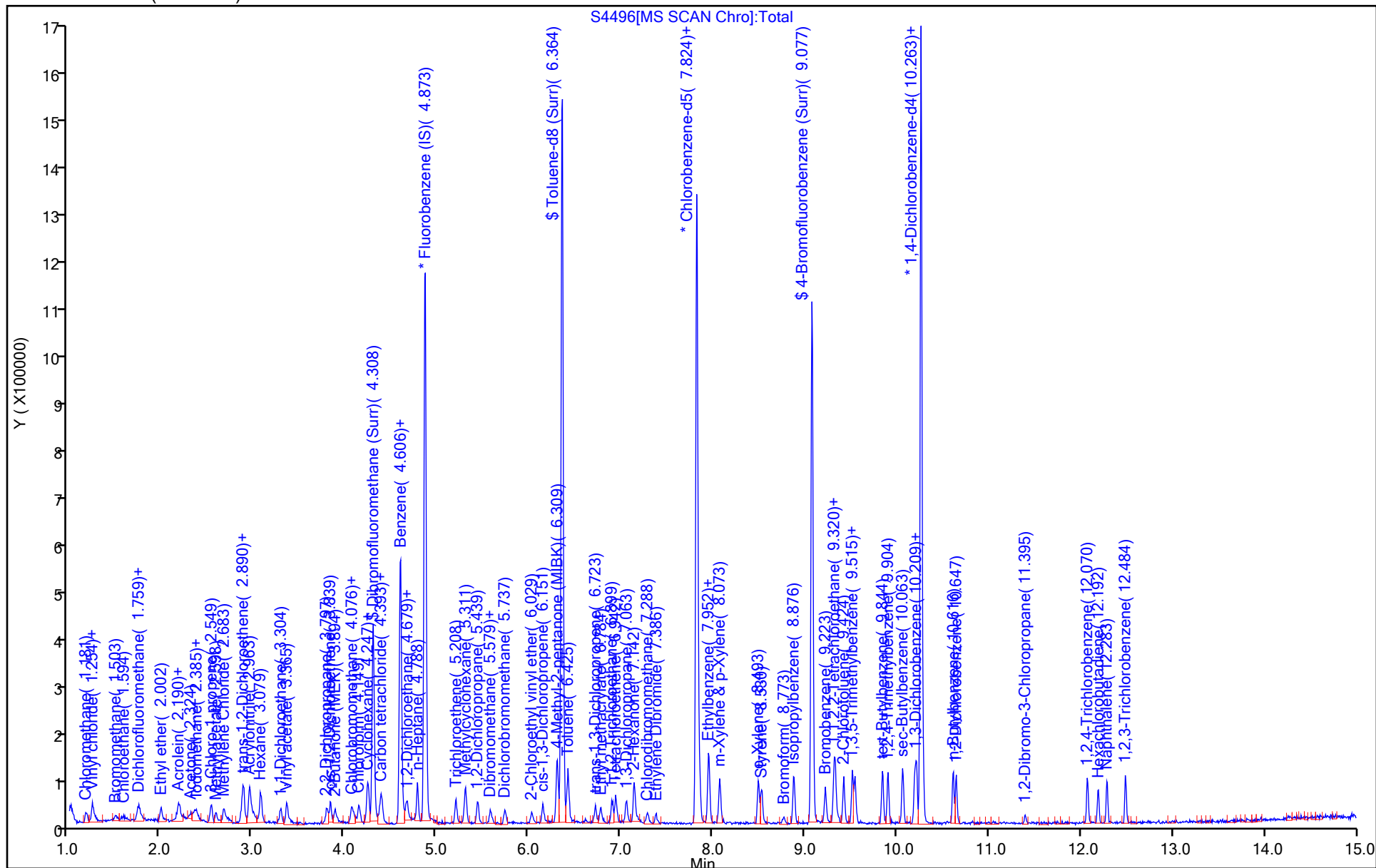
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)





## Eurofins Buffalo

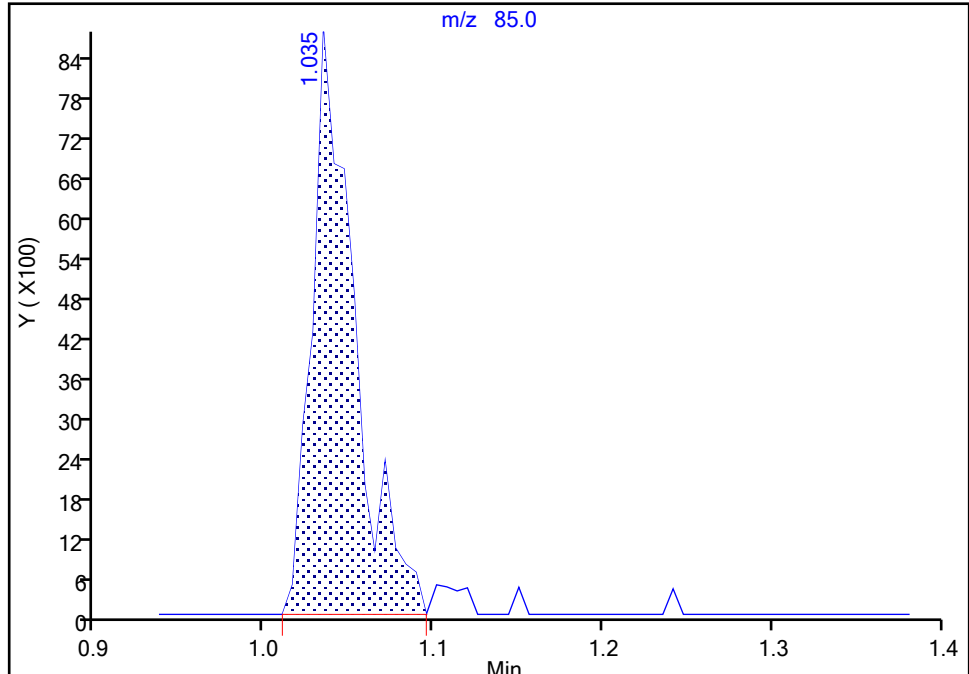
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Injection Date: 09-Aug-2022 17:30:30 Instrument ID: HP5973S  
Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**10 Dichlorodifluoromethane, CAS: 75-71-8**

Signal: 1

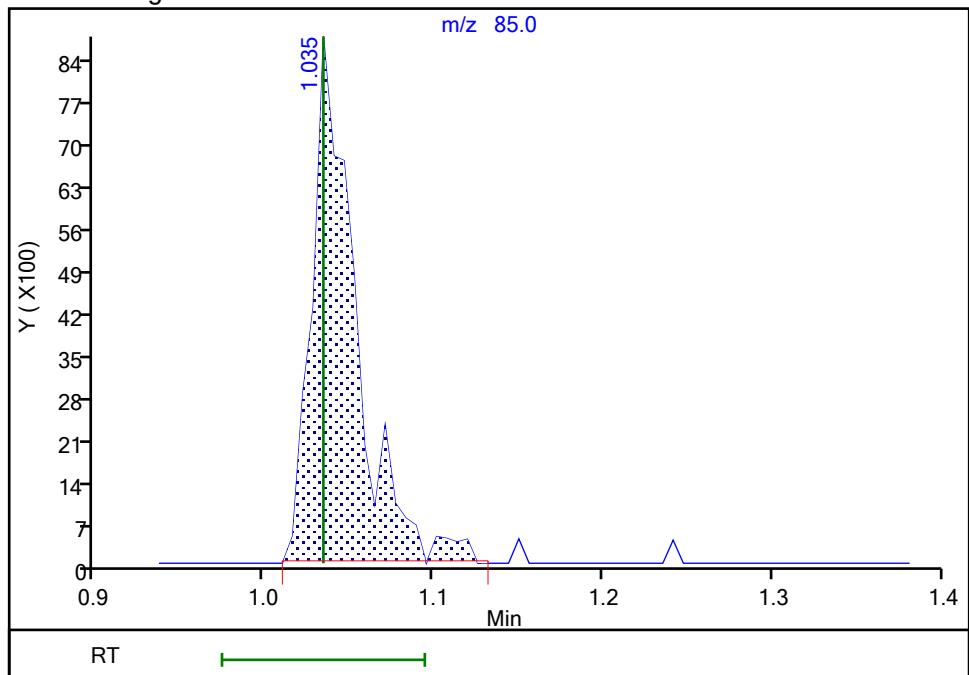
RT: 1.03  
Area: 15347  
Amount: 1.045875  
Amount Units: ug/L

## Processing Integration Results



RT: 1.03  
Area: 15627  
Amount: 1.054376  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:31:02  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

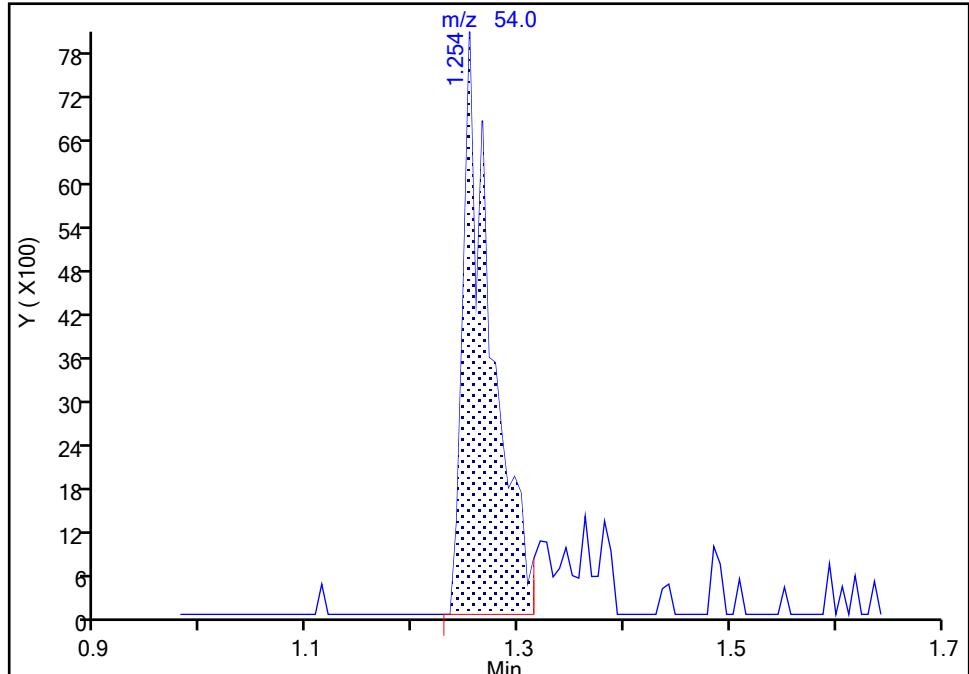
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Injection Date: 09-Aug-2022 17:30:30 Instrument ID: HP5973S  
Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**151 Butadiene, CAS: 106-99-0**

Signal: 1

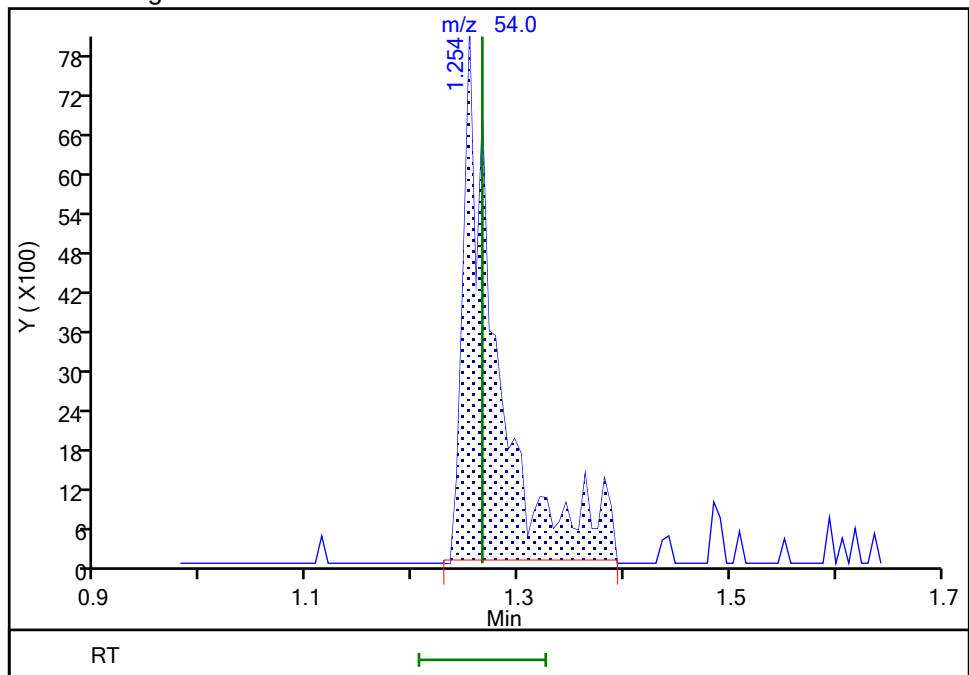
RT: 1.25  
Area: 14752  
Amount: 0.870982  
Amount Units: ug/L

## Processing Integration Results



RT: 1.25  
Area: 17768  
Amount: 1.007806  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:31:31

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

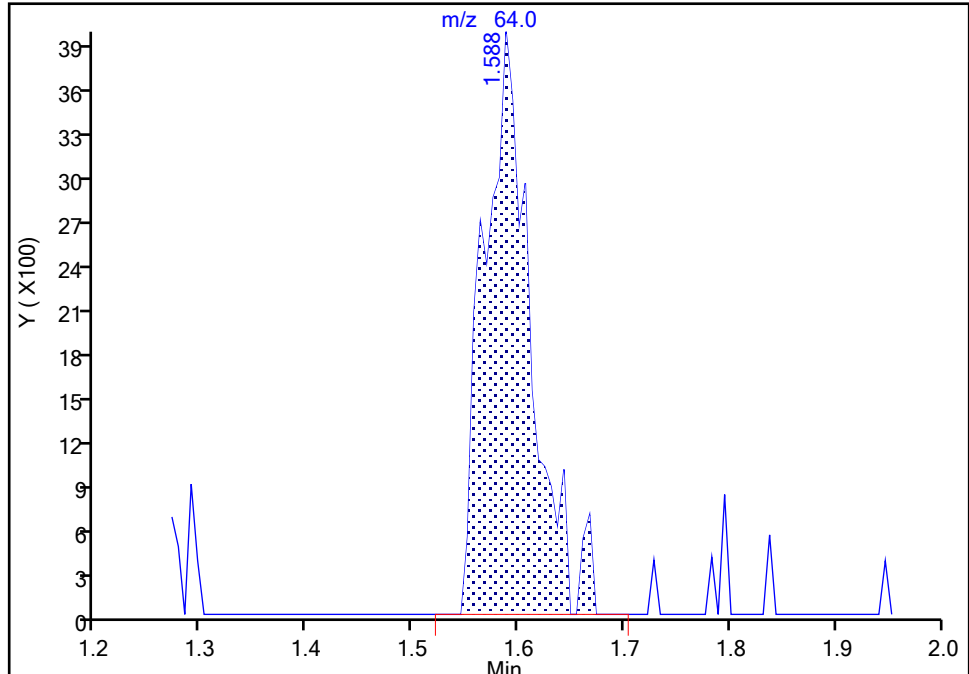
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Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**15 Chloroethane, CAS: 75-00-3**

Signal: 1

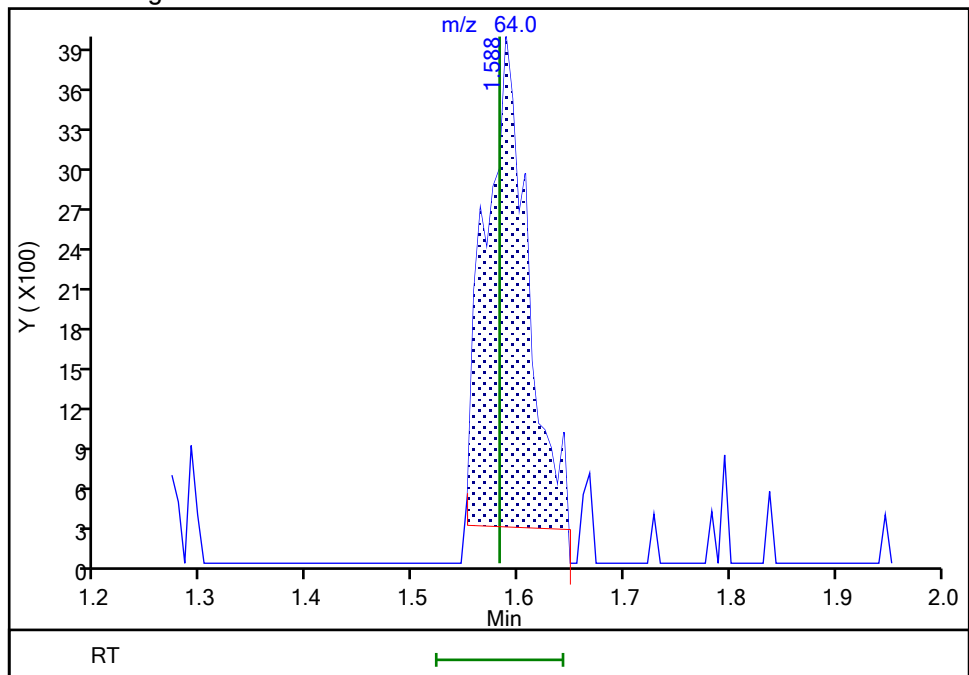
RT: 1.59  
Area: 12261  
Amount: 1.236666  
Amount Units: ug/L

## Processing Integration Results



RT: 1.59  
Area: 10157  
Amount: 1.079463  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:29:28  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

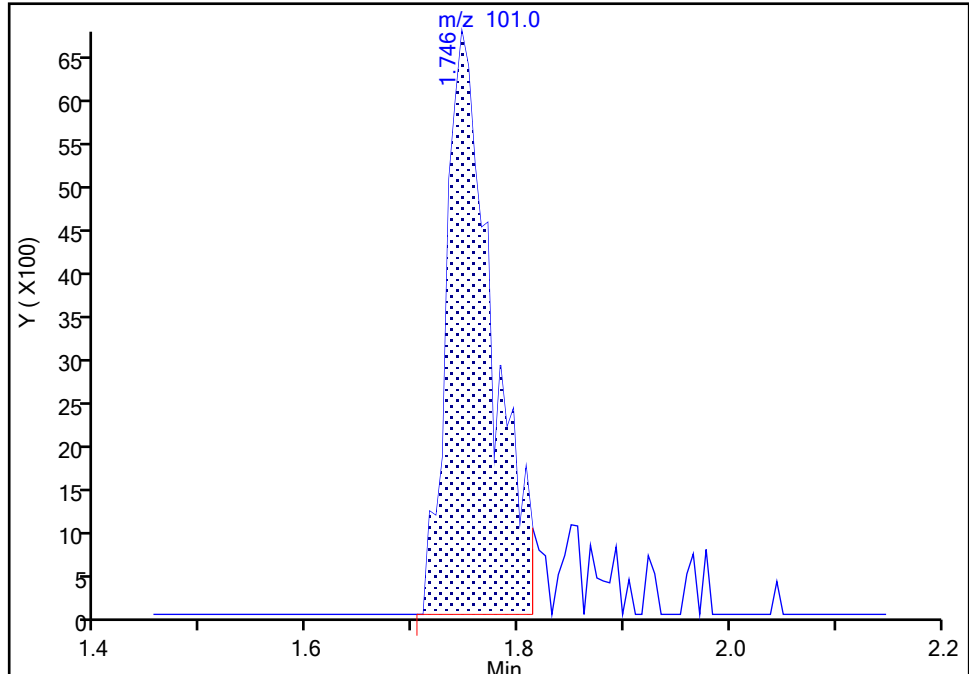
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Injection Date: 09-Aug-2022 17:30:30 Instrument ID: HP5973S  
Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**17 Trichlorofluoromethane, CAS: 75-69-4**

Signal: 1

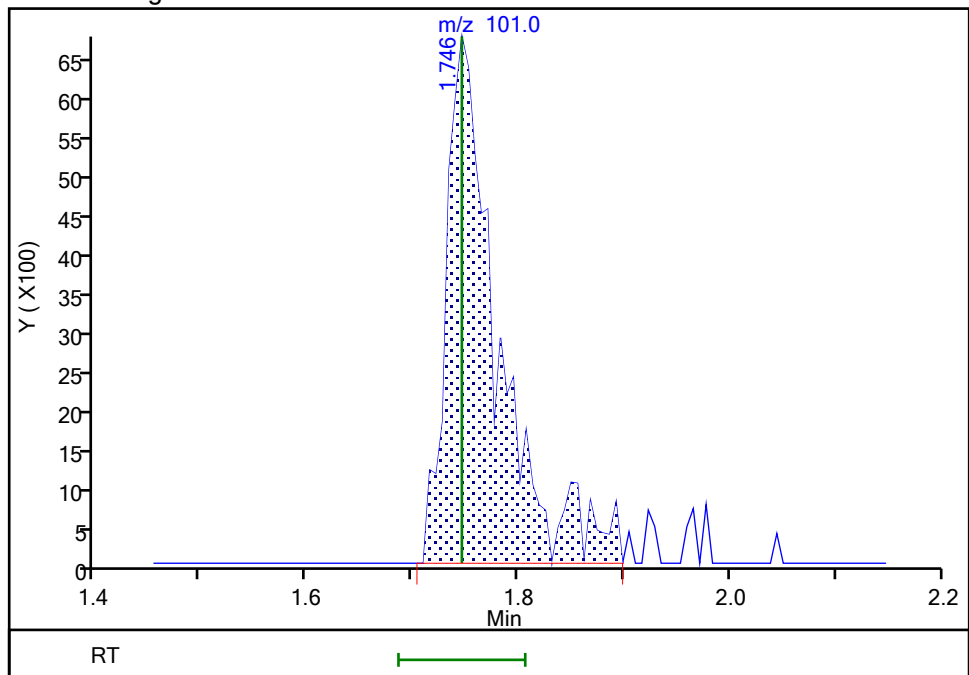
RT: 1.75  
Area: 20060  
Amount: 1.090356  
Amount Units: ug/L

## Processing Integration Results



RT: 1.75  
Area: 22738  
Amount: 1.214052  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:29:38  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

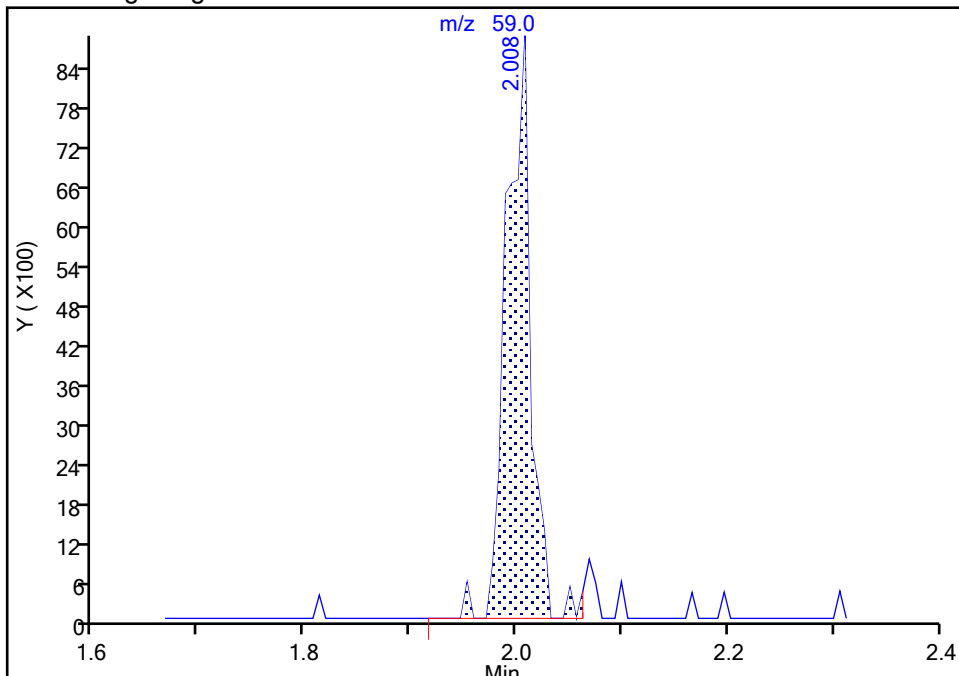
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Injection Date: 09-Aug-2022 17:30:30 Instrument ID: HP5973S  
Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**18 Ethyl ether, CAS: 60-29-7**

Signal: 1

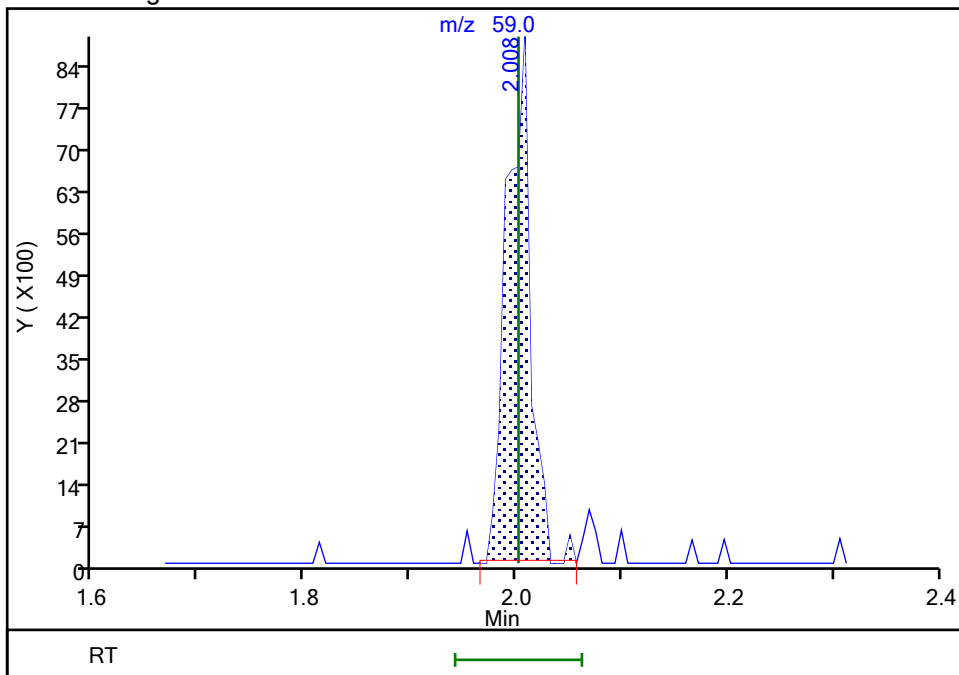
RT: 2.01  
Area: 14226  
Amount: 1.062912  
Amount Units: ug/L

## Processing Integration Results



RT: 2.01  
Area: 13593  
Amount: 1.021842  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:32:05  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

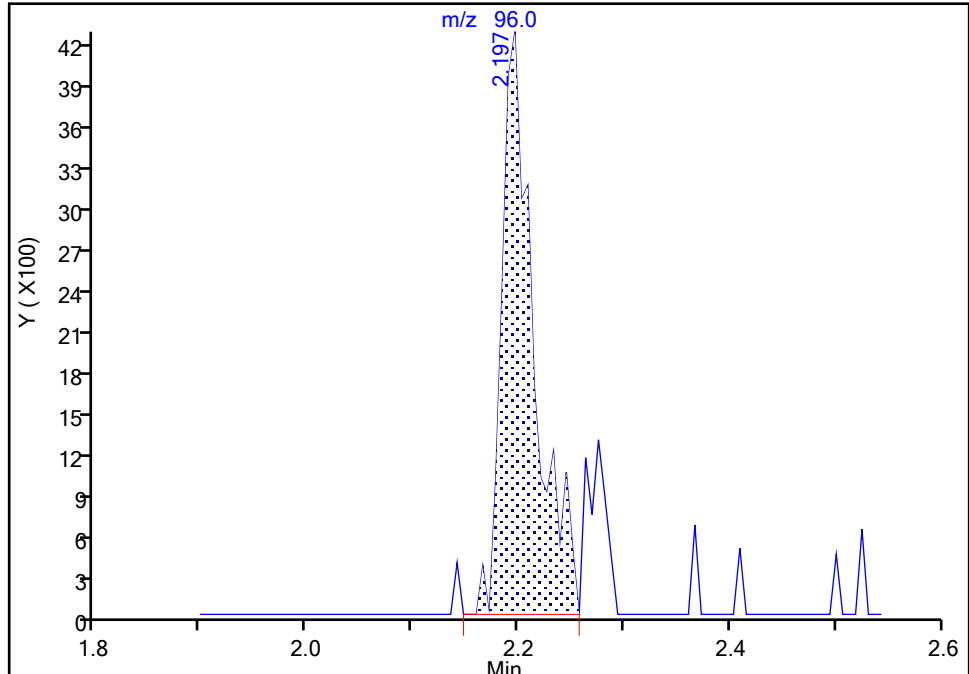
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Injection Date: 09-Aug-2022 17:30:30 Instrument ID: HP5973S  
Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**22 1,1-Dichloroethene, CAS: 75-35-4**

Signal: 1

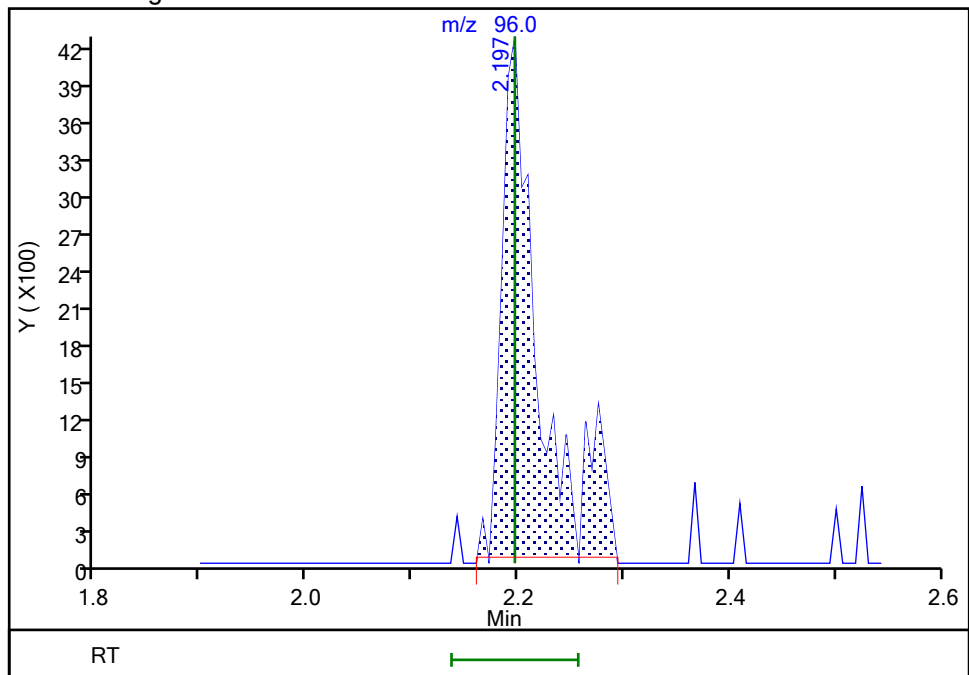
RT: 2.20  
Area: 9075  
Amount: 0.967794  
Amount Units: ug/L

## Processing Integration Results



RT: 2.20  
Area: 10284  
Amount: 1.039708  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:32:31  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

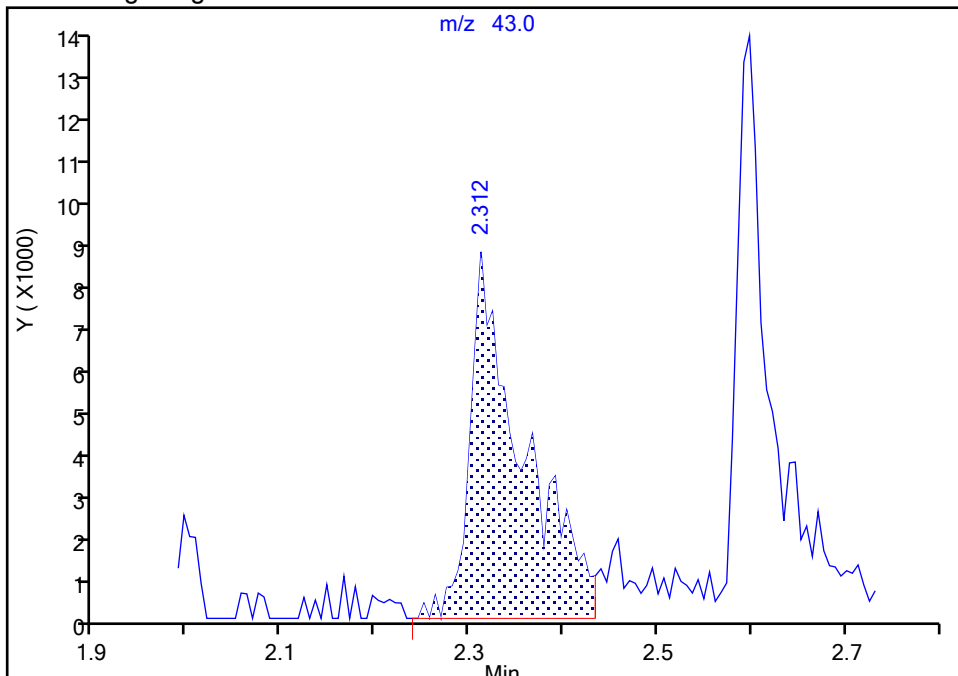
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Injection Date: 09-Aug-2022 17:30:30 Instrument ID: HP5973S  
Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**23 Acetone, CAS: 67-64-1**

Signal: 1

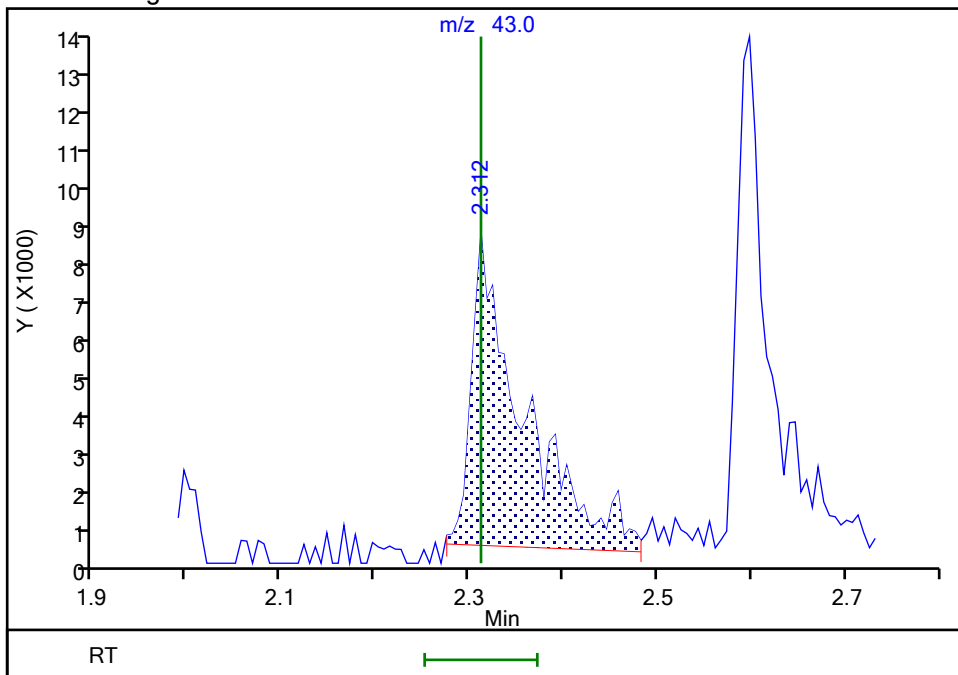
RT: 2.31  
Area: 33261  
Amount: 5.449110  
Amount Units: ug/L

## Processing Integration Results



RT: 2.31  
Area: 30946  
Amount: 5.302094  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:29:52  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

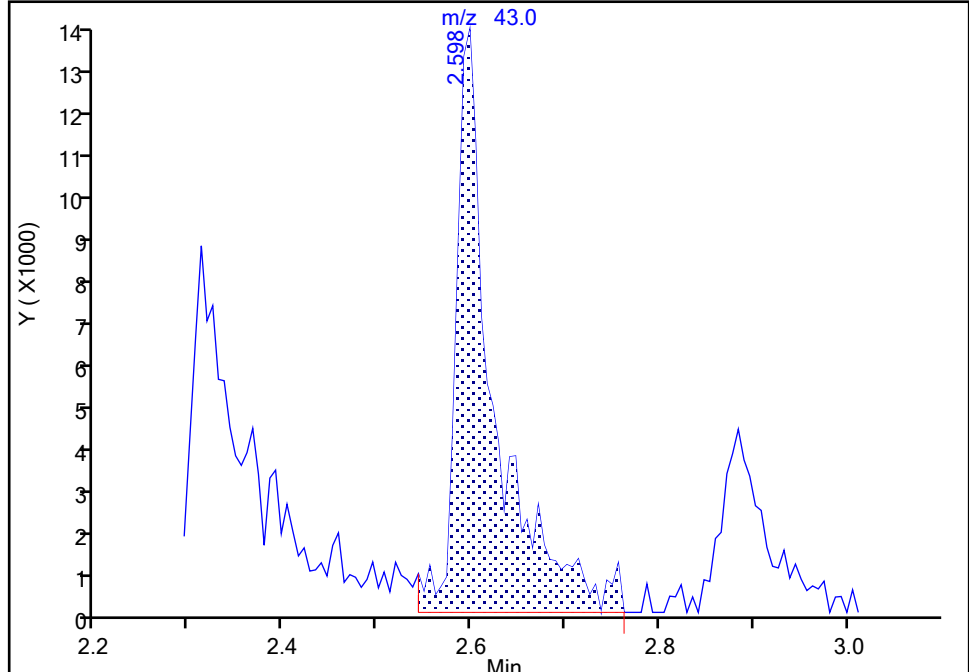
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Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**27 Methyl acetate, CAS: 79-20-9**

Signal: 1

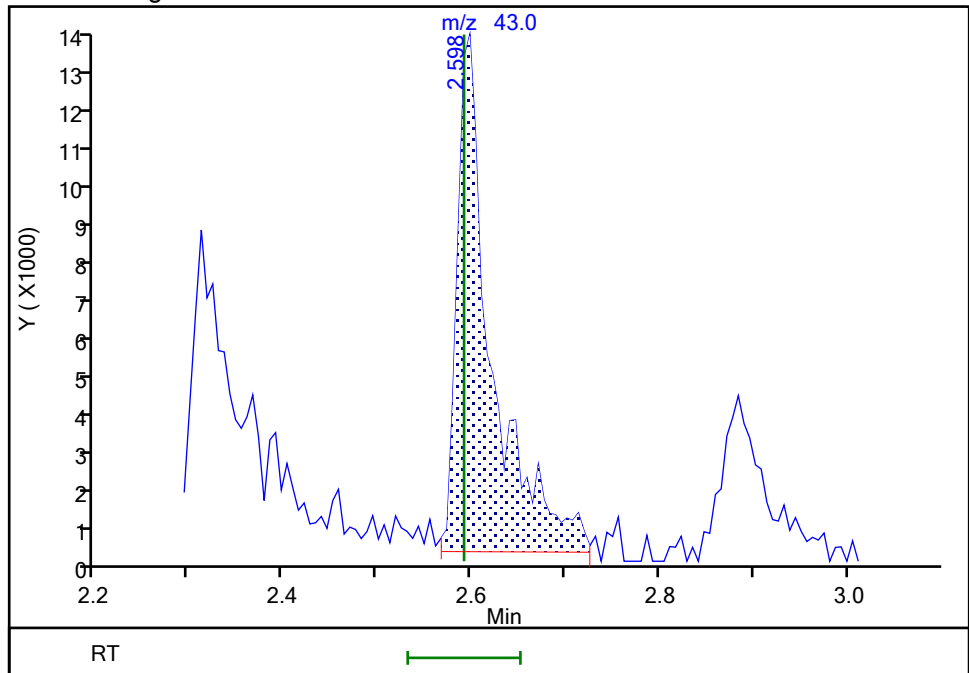
RT: 2.60  
Area: 38787  
Amount: 2.375867  
Amount Units: ug/L

## Processing Integration Results



RT: 2.60  
Area: 34204  
Amount: 2.154067  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:30:16  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

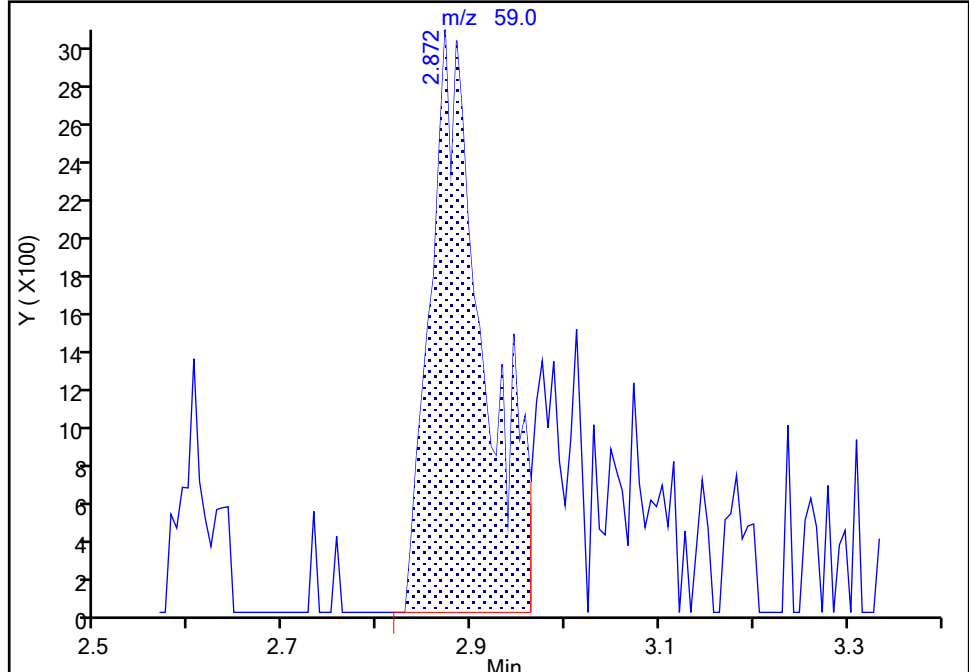
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Injection Date: 09-Aug-2022 17:30:30 Instrument ID: HP5973S  
Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector MS SCAN

**31 2-Methyl-2-propanol, CAS: 75-65-0**

Signal: 1

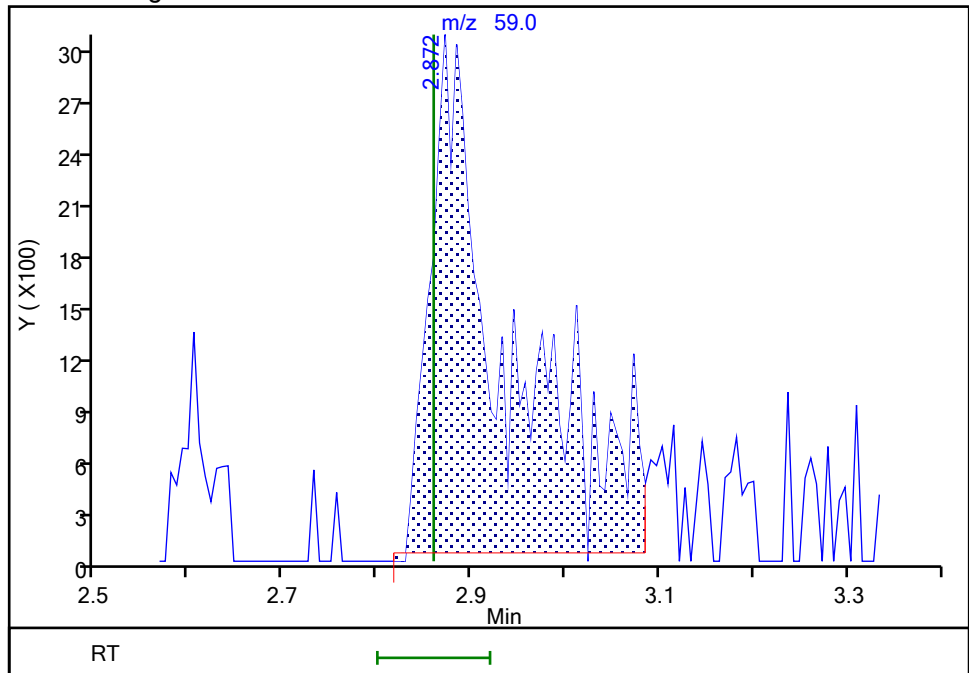
RT: 2.87  
Area: 12122  
Amount: 7.729631  
Amount Units: ug/L

## Processing Integration Results



RT: 2.87  
Area: 17202  
Amount: 9.969143  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:33:19  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

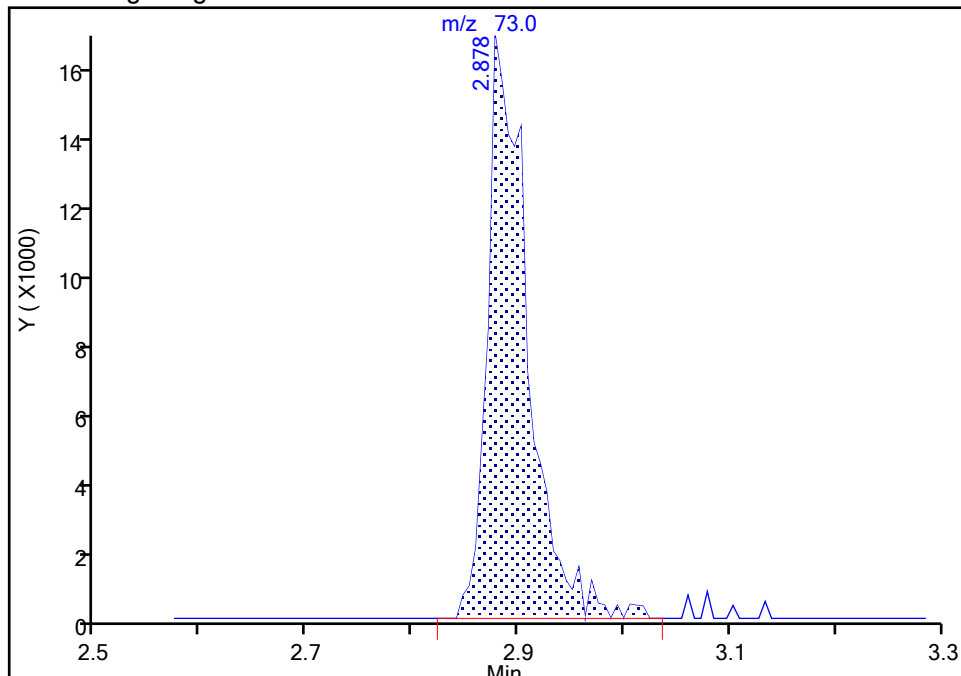
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Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**32 Methyl tert-butyl ether, CAS: 1634-04-4**

Signal: 1

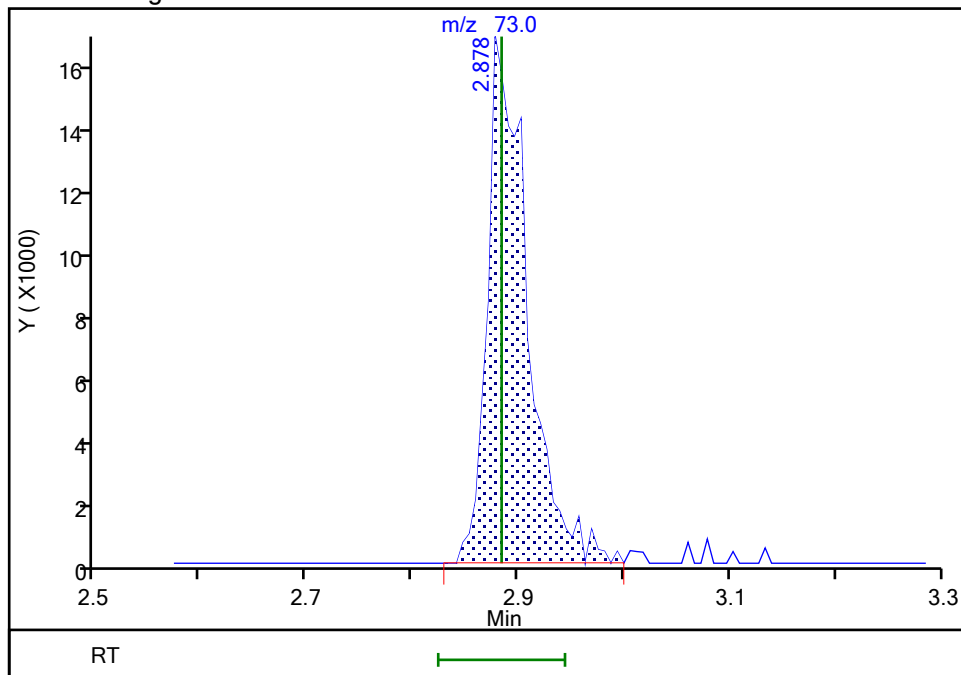
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Amount: 1.122102  
Amount Units: ug/L

## Processing Integration Results



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Area: 44072  
Amount: 1.110175  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:33:38

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

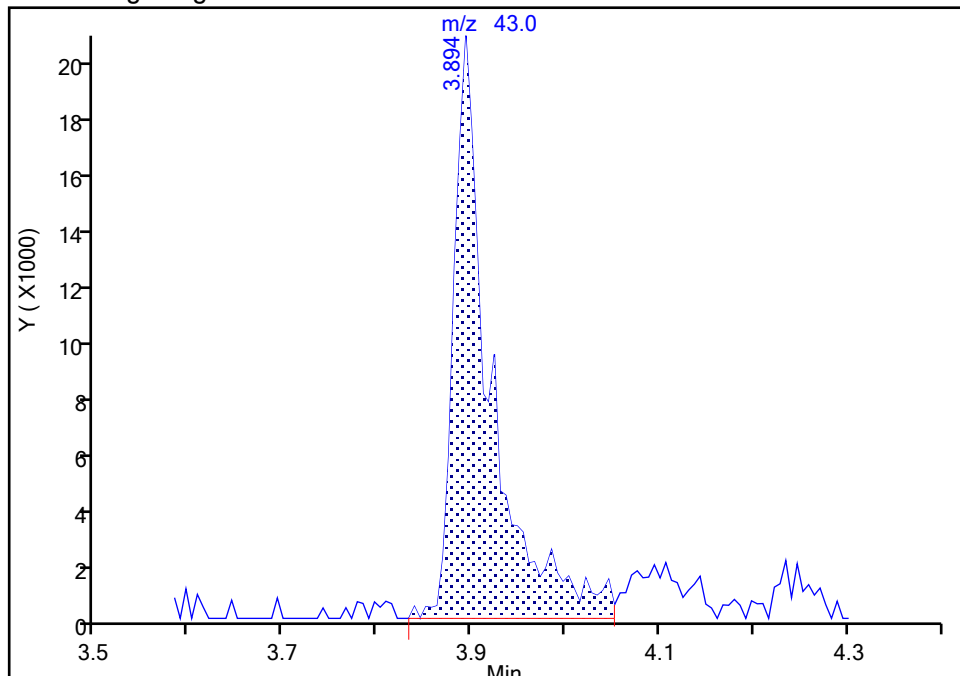
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4496.D  
Injection Date: 09-Aug-2022 17:30:30 Instrument ID: HP5973S  
Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector MS SCAN

**43 2-Butanone (MEK), CAS: 78-93-3**

Signal: 1

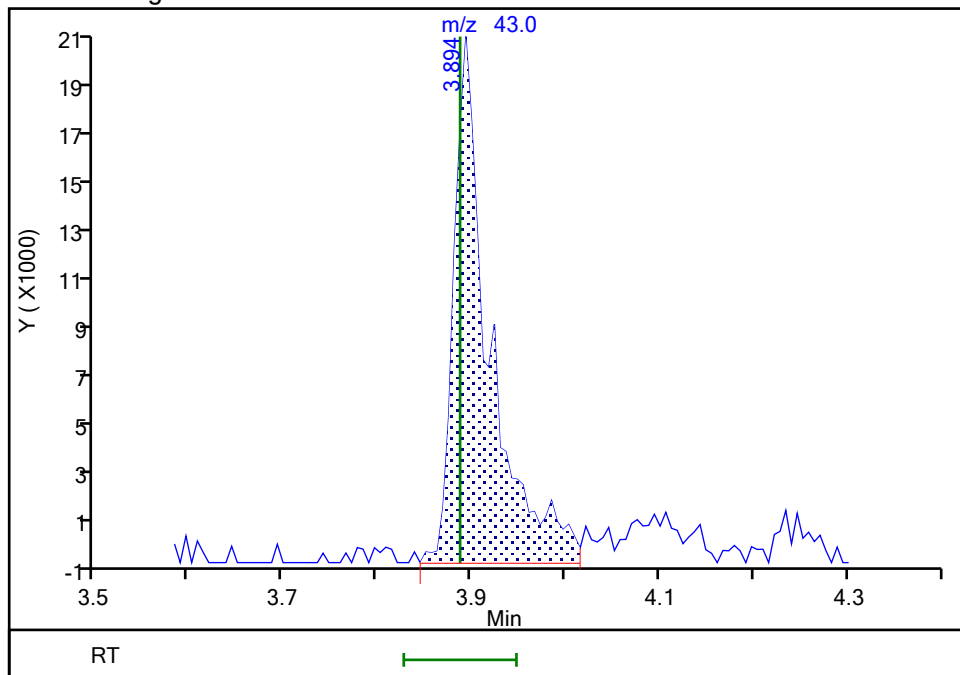
RT: 3.89  
Area: 55103  
Amount: 5.550457  
Amount Units: ug/L

## Processing Integration Results



RT: 3.89  
Area: 53090  
Amount: 5.384858  
Amount Units: ug/L

## Manual Integration Results



## Eurofins Buffalo

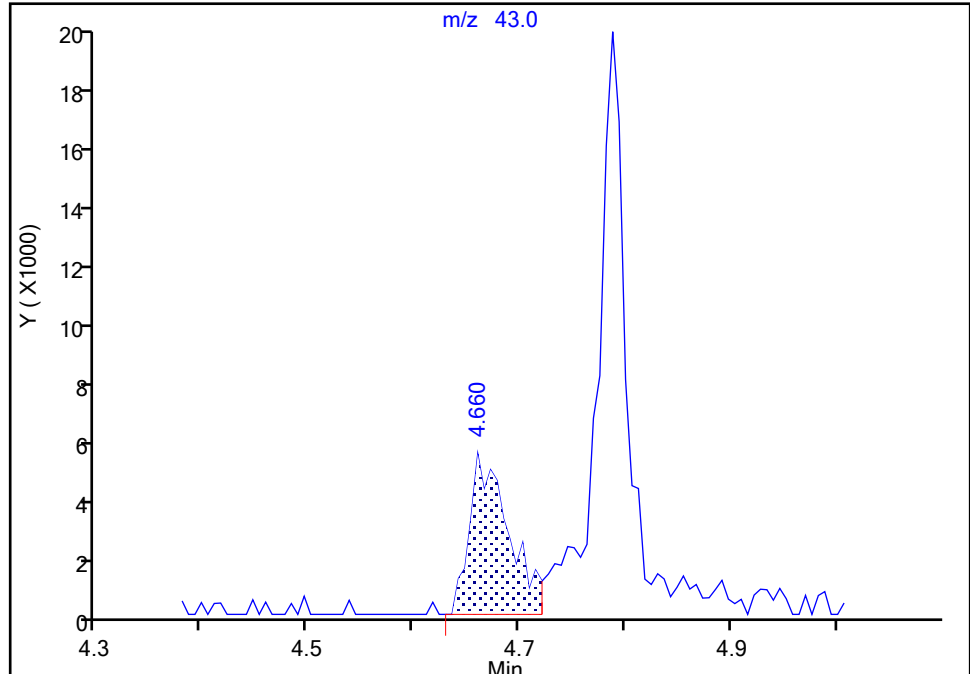
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4496.D  
Injection Date: 09-Aug-2022 17:30:30 Instrument ID: HP5973S  
Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**53 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

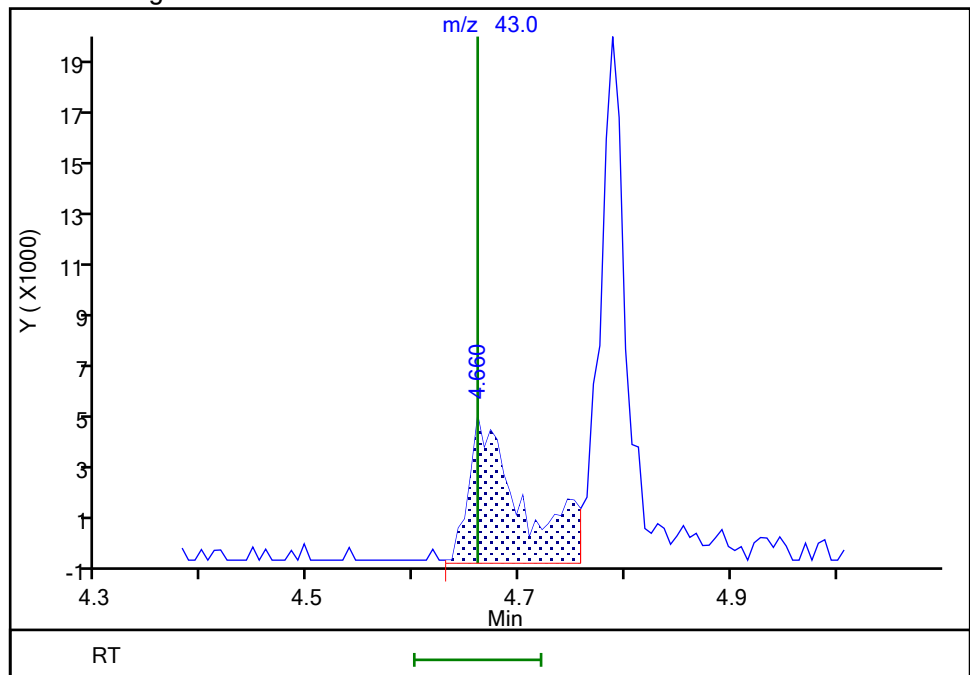
RT: 4.66  
Area: 13786  
Amount: 18.788719  
Amount Units: ug/L

## Processing Integration Results



RT: 4.66  
Area: 18718  
Amount: 25.923749  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:34:29  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 238 of 733

## Eurofins Buffalo

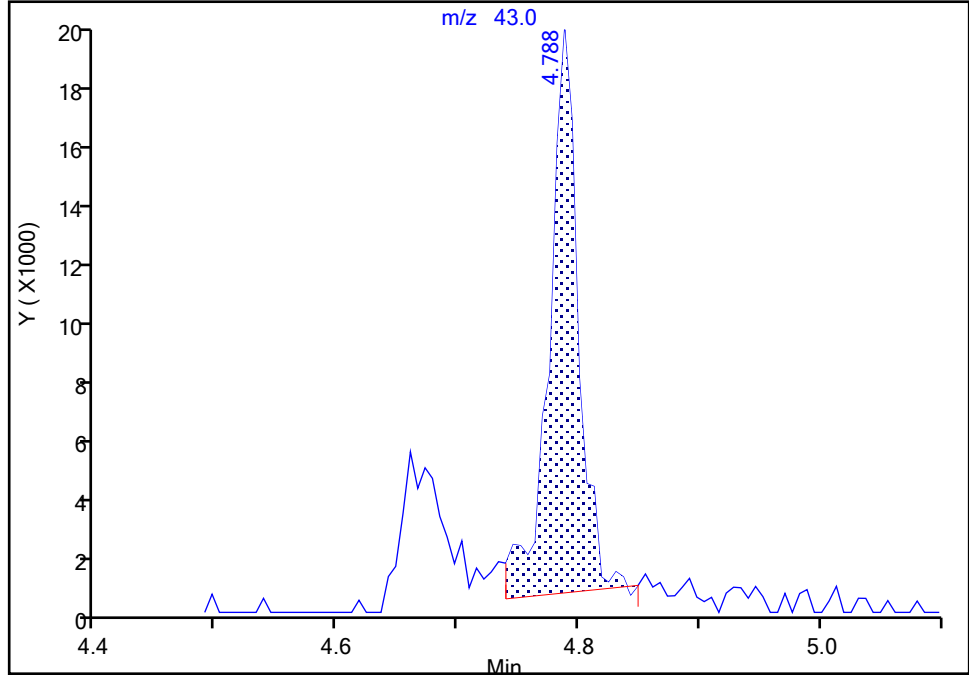
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4496.D  
Injection Date: 09-Aug-2022 17:30:30 Instrument ID: HP5973S  
Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**59 n-Heptane, CAS: 142-82-5**

Signal: 1

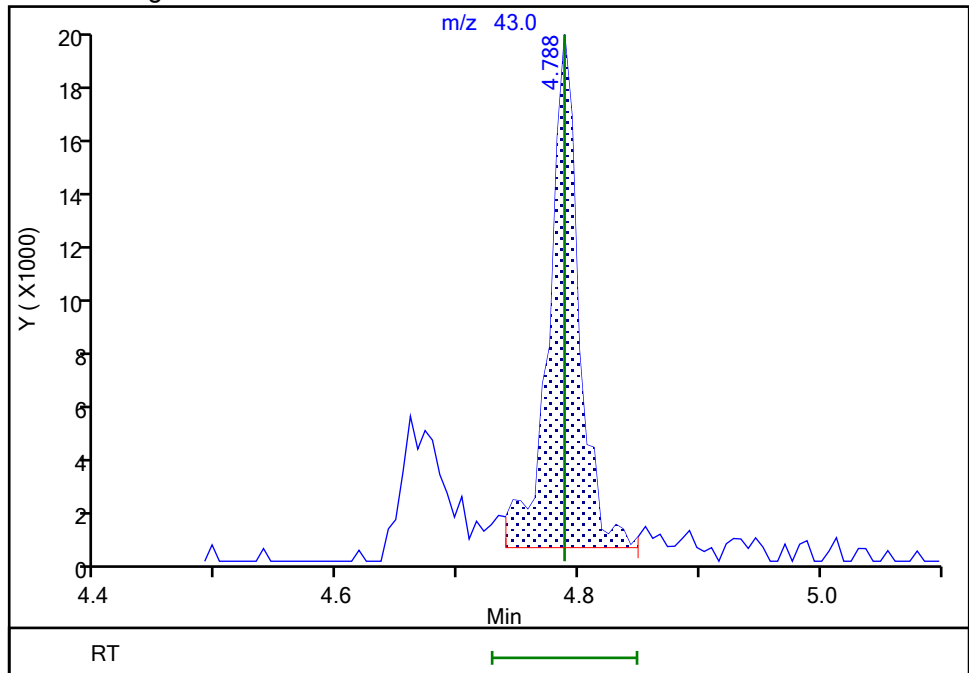
RT: 4.79  
Area: 31249  
Amount: 1.036068  
Amount Units: ug/L

## Processing Integration Results



RT: 4.79  
Area: 32449  
Amount: 1.057825  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:34:56  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 239 of 733

## Eurofins Buffalo

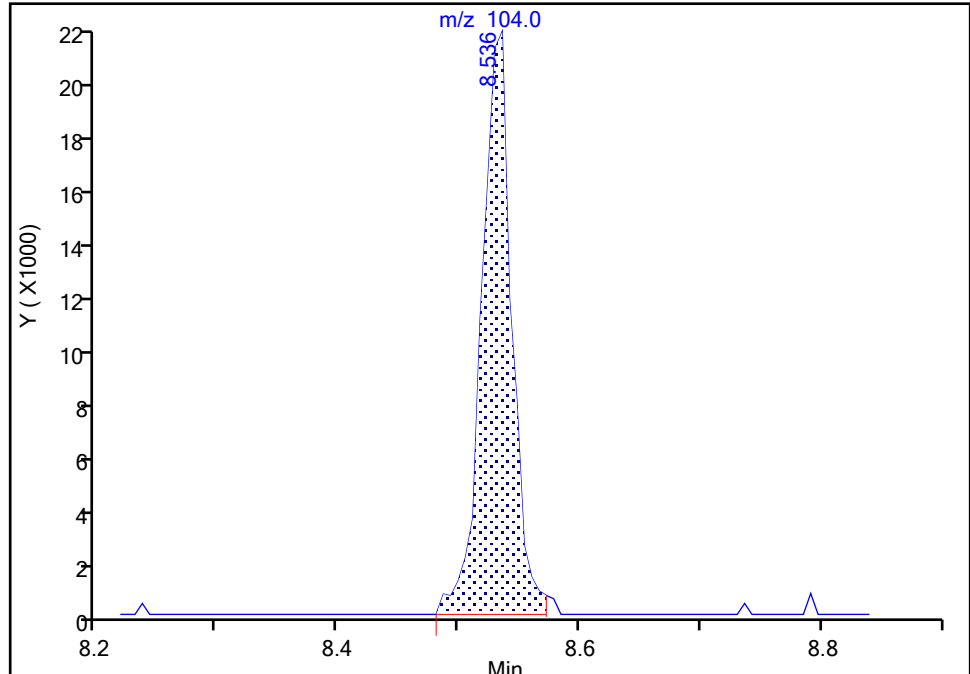
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Injection Date: 09-Aug-2022 17:30:30 Instrument ID: HP5973S  
Lims ID: IC  
Client ID:  
Operator ID: AG ALS Bottle#: 14 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

92 Styrene, CAS: 100-42-5

Signal: 1

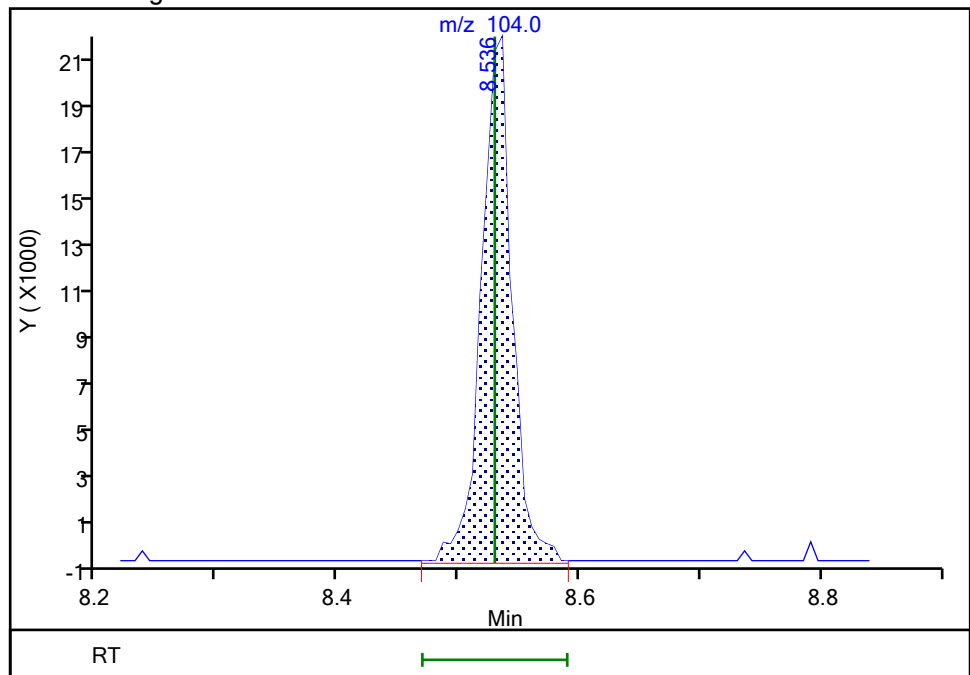
RT: 8.54  
Area: 37676  
Amount: 0.937604  
Amount Units: ug/L

## Processing Integration Results



RT: 8.54  
Area: 38702  
Amount: 0.929540  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:35:53  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 240 of 733

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
 Lims ID: IC 2  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 09-Aug-2022 17:53:30 ALS Bottle#: 15 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC 2  
 Misc. Info.: 480-0106979-015  
 Operator ID: AG Instrument ID: HP5973S  
 Sublist: chrom-S-8260\*sub26  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 10-Aug-2022 14:56:57 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1608

First Level Reviewer: FGO5

Date: 10-Aug-2022 09:43:03

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 153 Fluorobenzene (IS)                 | 70  | 4.867        | 4.867            | 0.000            | 98 | 180885   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 82  | 7.824        | 7.824            | 0.000            | 88 | 379216   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 10.263       | 10.263           | 0.000            | 94 | 399370   | 25.0            | 25.0              |       |
| \$ 154 Dibromofluoromethane (Surr)       | 113 | 4.301        | 4.307            | -0.006           | 57 | 233321   | 25.0            | 25.4              |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)        | 67  | 4.599        | 4.606            | -0.007           | 95 | 154391   | 25.0            | 24.6              |       |
| \$ 5 Toluene-d8 (Surr)                   | 98  | 6.358        | 6.358            | 0.000            | 91 | 902413   | 25.0            | 24.4              |       |
| \$ 6 4-Bromofluorobenzene (Surr)         | 174 | 9.077        | 9.077            | 0.000            | 88 | 301442   | 25.0            | 24.6              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.034        | 1.035            | 0.000            | 93 | 31697    | 2.00            | 2.14              | M     |
| 12 Chloromethane                         | 50  | 1.180        | 1.187            | -0.007           | 94 | 51616    | 2.00            | 2.19              |       |
| 13 Vinyl chloride                        | 62  | 1.241        | 1.247            | -0.006           | 52 | 32619    | 2.00            | 2.18              |       |
| 151 Butadiene                            | 54  | 1.272        | 1.266            | 0.006            | 87 | 37280    | 2.00            | 2.11              | M     |
| 14 Bromomethane                          | 94  | 1.503        | 1.509            | -0.006           | 73 | 18565    | 2.00            | 2.13              |       |
| 15 Chloroethane                          | 64  | 1.576        | 1.582            | -0.006           | 69 | 19585    | 2.00            | 2.08              | M     |
| 17 Trichlorofluoromethane                | 101 | 1.746        | 1.746            | 0.000            | 67 | 36861    | 2.00            | 1.97              | M     |
| 16 Dichlorofluoromethane                 | 67  | 1.758        | 1.758            | 0.000            | 75 | 42146    | 2.00            | 2.01              |       |
| 18 Ethyl ether                           | 59  | 1.996        | 2.002            | -0.006           | 80 | 27641    | 2.00            | 2.08              |       |
| 20 Acrolein                              | 56  | 2.172        | 2.166            | 0.006            | 80 | 17848    | 10.0            | 9.60              |       |
| 22 1,1-Dichloroethene                    | 96  | 2.190        | 2.196            | -0.006           | 90 | 21597    | 2.00            | 2.18              |       |
| 21 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 2.172        | 2.196            | -0.024           | 60 | 17747    | 2.00            | 1.98              | M     |
| 23 Acetone                               | 43  | 2.312        | 2.312            | 0.000            | 95 | 60974    | 10.0            | 10.4              | M     |
| 25 Iodomethane                           | 142 | 2.342        | 2.342            | 0.000            | 85 | 34880    | 2.00            | 1.99              |       |
| 26 Carbon disulfide                      | 76  | 2.373        | 2.379            | -0.006           | 98 | 67192    | 2.00            | 2.10              | M     |
| 28 3-Chloro-1-propene                    | 41  | 2.543        | 2.543            | 0.000            | 82 | 48513    | 2.00            | 2.04              | M     |
| 27 Methyl acetate                        | 43  | 2.592        | 2.592            | 0.000            | 95 | 70658    | 4.00            | 4.45              | M     |
| 30 Methylene Chloride                    | 84  | 2.683        | 2.683            | 0.000            | 88 | 28673    | 2.00            | 2.01              | M     |
| 31 2-Methyl-2-propanol                   | 59  | 2.860        | 2.860            | 0.000            | 63 | 35000    | 20.0            | 20.3              | M     |
| 32 Methyl tert-butyl ether               | 73  | 2.890        | 2.884            | 0.006            | 90 | 83392    | 2.00            | 2.10              |       |
| 34 trans-1,2-Dichloroethene              | 96  | 2.890        | 2.896            | -0.006           | 66 | 24894    | 2.00            | 2.01              |       |
| 33 Acrylonitrile                         | 53  | 2.963        | 2.963            | 0.000            | 95 | 164711   | 20.0            | 20.7              | M     |
| 35 Hexane                                | 57  | 3.085        | 3.085            | 0.000            | 86 | 54627    | 2.00            | 2.13              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane          | 63  | 3.304     | 3.304         | 0.000         | 93 | 52876    | 2.00         | 2.03           | M     |
| 37 Vinyl acetate               | 43  | 3.364     | 3.365         | 0.000         | 97 | 129506   | 4.00         | 3.68           |       |
| 44 2,2-Dichloropropane         | 77  | 3.796     | 3.803         | -0.007        | 83 | 28390    | 2.00         | 1.97           |       |
| 45 cis-1,2-Dichloroethene      | 96  | 3.839     | 3.839         | 0.000         | 67 | 29893    | 2.00         | 2.15           |       |
| 43 2-Butanone (MEK)            | 43  | 3.888     | 3.888         | 0.000         | 97 | 97556    | 10.0         | 9.89           |       |
| 48 Chlorobromomethane          | 128 | 4.070     | 4.070         | 0.000         | 83 | 15458    | 2.00         | 2.03           |       |
| 49 Tetrahydrofuran             | 42  | 4.101     | 4.082         | 0.019         | 89 | 25973    | 4.00         | 4.01           |       |
| 50 Chloroform                  | 83  | 4.149     | 4.155         | -0.006        | 78 | 47226    | 2.00         | 2.05           |       |
| 52 Cyclohexane                 | 56  | 4.247     | 4.253         | -0.006        | 86 | 54930    | 2.00         | 2.05           |       |
| 51 1,1,1-Trichloroethane       | 97  | 4.247     | 4.253         | -0.006        | 73 | 37127    | 2.00         | 2.06           |       |
| 55 Carbon tetrachloride        | 117 | 4.380     | 4.380         | 0.000         | 79 | 28611    | 2.00         | 1.87           | M     |
| 54 1,1-Dichloropropene         | 75  | 4.399     | 4.399         | 0.000         | 81 | 37299    | 2.00         | 2.08           |       |
| 57 Benzene                     | 78  | 4.599     | 4.599         | 0.000         | 57 | 108997   | 2.00         | 2.01           |       |
| 53 Isobutyl alcohol            | 43  | 4.666     | 4.660         | 0.006         | 40 | 35301    | 50.0         | 48.9           |       |
| 58 1,2-Dichloroethane          | 62  | 4.672     | 4.672         | 0.000         | 47 | 44249    | 2.00         | 2.04           |       |
| 59 n-Heptane                   | 43  | 4.782     | 4.788         | -0.006        | 90 | 61562    | 2.00         | 2.01           | M     |
| 62 Trichloroethene             | 95  | 5.202     | 5.202         | 0.000         | 82 | 28876    | 2.00         | 2.16           |       |
| 64 Methylcyclohexane           | 83  | 5.311     | 5.311         | 0.000         | 87 | 48571    | 2.00         | 2.10           |       |
| 65 1,2-Dichloropropane         | 63  | 5.439     | 5.445         | -0.006        | 83 | 31013    | 2.00         | 2.07           |       |
| 67 Dibromomethane              | 93  | 5.579     | 5.579         | 0.000         | 85 | 16692    | 2.00         | 2.09           |       |
| 66 1,4-Dioxane                 | 88  | 5.609     | 5.597         | 0.012         | 12 | 5716     | 40.0         | 39.8           |       |
| 68 Dichlorobromomethane        | 83  | 5.737     | 5.737         | 0.000         | 85 | 30347    | 2.00         | 1.96           |       |
| 69 2-Chloroethyl vinyl ether   | 63  | 6.029     | 6.029         | 0.000         | 77 | 20719    | 2.00         | 2.06           |       |
| 72 cis-1,3-Dichloropropene     | 75  | 6.151     | 6.151         | 0.000         | 72 | 35343    | 2.00         | 1.84           |       |
| 73 4-Methyl-2-pentanone (MIBK) | 43  | 6.309     | 6.303         | 0.006         | 98 | 213583   | 10.0         | 9.61           |       |
| 74 Toluene                     | 92  | 6.425     | 6.425         | -0.001        | 80 | 71444    | 2.00         | 2.04           |       |
| 77 trans-1,3-Dichloropropene   | 75  | 6.723     | 6.723         | 0.000         | 80 | 32303    | 2.00         | 1.84           |       |
| 75 Ethyl methacrylate          | 69  | 6.777     | 6.777         | 0.000         | 82 | 26732    | 2.00         | 1.59           |       |
| 79 1,1,2-Trichloroethane       | 83  | 6.905     | 6.899         | 0.006         | 80 | 22090    | 2.00         | 2.09           |       |
| 81 Tetrachloroethene           | 166 | 6.942     | 6.948         | -0.006        | 77 | 32962    | 2.00         | 2.17           |       |
| 82 1,3-Dichloropropane         | 76  | 7.057     | 7.057         | 0.000         | 88 | 44078    | 2.00         | 1.96           |       |
| 80 2-Hexanone                  | 43  | 7.142     | 7.136         | 0.006         | 98 | 141253   | 10.0         | 9.26           | M     |
| 83 Chlorodibromomethane        | 129 | 7.288     | 7.288         | 0.000         | 74 | 19156    | 2.00         | 1.82           | M     |
| 84 Ethylene Dibromide          | 107 | 7.380     | 7.380         | 0.000         | 87 | 25720    | 2.00         | 2.01           |       |
| 87 Chlorobenzene               | 112 | 7.854     | 7.854         | 0.000         | 87 | 83610    | 2.00         | 2.03           |       |
| 88 Ethylbenzene                | 91  | 7.951     | 7.952         | -0.001        | 95 | 123646   | 2.00         | 1.89           |       |
| 89 1,1,1,2-Tetrachloroethane   | 131 | 7.951     | 7.958         | -0.007        | 35 | 23647    | 2.00         | 1.75           |       |
| 90 m-Xylene & p-Xylene         | 106 | 8.073     | 8.073         | 0.000         | 97 | 47861    | 2.00         | 1.84           |       |
| 91 o-Xylene                    | 106 | 8.493     | 8.493         | 0.000         | 93 | 50024    | 2.00         | 2.00           |       |
| 92 Styrene                     | 104 | 8.529     | 8.529         | 0.000         | 88 | 75820    | 2.00         | 1.80           |       |
| 95 Bromoform                   | 173 | 8.767     | 8.767         | 0.000         | 83 | 13275    | 2.00         | 1.89           |       |
| 94 Isopropylbenzene            | 105 | 8.882     | 8.882         | 0.000         | 91 | 120791   | 2.00         | 1.84           |       |
| 101 Bromobenzene               | 156 | 9.229     | 9.223         | 0.006         | 82 | 32276    | 2.00         | 1.87           |       |
| 97 1,1,2,2-Tetrachloroethane   | 83  | 9.308     | 9.308         | 0.000         | 84 | 33963    | 2.00         | 1.91           |       |
| 99 N-Propylbenzene             | 91  | 9.326     | 9.326         | 0.000         | 97 | 147231   | 2.00         | 1.88           |       |
| 100 1,2,3-Trichloropropane     | 110 | 9.332     | 9.339         | -0.007        | 44 | 12037    | 2.00         | 2.05           |       |
| 98 trans-1,4-Dichloro-2-butene | 53  | 9.363     | 9.357         | 0.006         | 1  | 7426     | 2.00         | 1.61           |       |
| 103 2-Chlorotoluene            | 126 | 9.424     | 9.424         | 0.000         | 95 | 31671    | 2.00         | 1.97           |       |
| 102 1,3,5-Trimethylbenzene     | 105 | 9.515     | 9.515         | 0.000         | 92 | 106913   | 2.00         | 1.88           |       |
| 105 4-Chlorotoluene            | 126 | 9.545     | 9.545         | 0.000         | 94 | 33074    | 2.00         | 1.97           |       |
| 106 tert-Butylbenzene          | 134 | 9.843     | 9.844         | -0.001        | 88 | 24533    | 2.00         | 1.91           |       |
| 107 1,2,4-Trimethylbenzene     | 105 | 9.904     | 9.904         | 0.000         | 26 | 104274   | 2.00         | 1.83           |       |



| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 109 sec-Butylbenzene             | 105 | 10.062       | 10.063           | -0.001           | 87 | 131903   | 2.00            | 1.80              |       |
| 111 1,3-Dichlorobenzene          | 146 | 10.196       | 10.190           | 0.006            | 95 | 70733    | 2.00            | 2.02              |       |
| 110 4-Isopropyltoluene           | 119 | 10.215       | 10.215           | 0.000            | 96 | 116546   | 2.00            | 1.90              |       |
| 113 1,4-Dichlorobenzene          | 146 | 10.288       | 10.288           | 0.000            | 89 | 72293    | 2.00            | 1.99              |       |
| 115 n-Butylbenzene               | 91  | 10.610       | 10.610           | 0.000            | 93 | 102803   | 2.00            | 1.87              |       |
| 116 1,2-Dichlorobenzene          | 146 | 10.647       | 10.647           | -0.001           | 96 | 66407    | 2.00            | 1.98              |       |
| 117 1,2-Dibromo-3-Chloropropane  | 75  | 11.401       | 11.395           | 0.006            | 46 | 4475     | 2.00            | 1.51              |       |
| 119 1,2,4-Trichlorobenzene       | 180 | 12.076       | 12.070           | 0.006            | 88 | 49744    | 2.00            | 1.96              |       |
| 120 Hexachlorobutadiene          | 225 | 12.192       | 12.192           | 0.000            | 82 | 18976    | 2.00            | 1.70              |       |
| 121 Naphthalene                  | 128 | 12.283       | 12.283           | 0.000            | 94 | 105620   | 2.00            | 1.78              |       |
| 122 1,2,3-Trichlorobenzene       | 180 | 12.490       | 12.490           | 0.000            | 88 | 46628    | 2.00            | 1.87              |       |
| S 126 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 3.68              |       |
| S 125 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 4.15              |       |
| S 123 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 9.78              |       |
| S 124 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 3.84              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00228

Amount Added: 2.00

Units: uL

GAS CORP mix\_00524

Amount Added: 2.00

Units: uL

S\_8260\_IS\_00357

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00426

Amount Added: 1.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D

Injection Date: 09-Aug-2022 17:53:30

Instrument ID: HP5973S

Operator ID: AG

Lims ID: IC 2

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

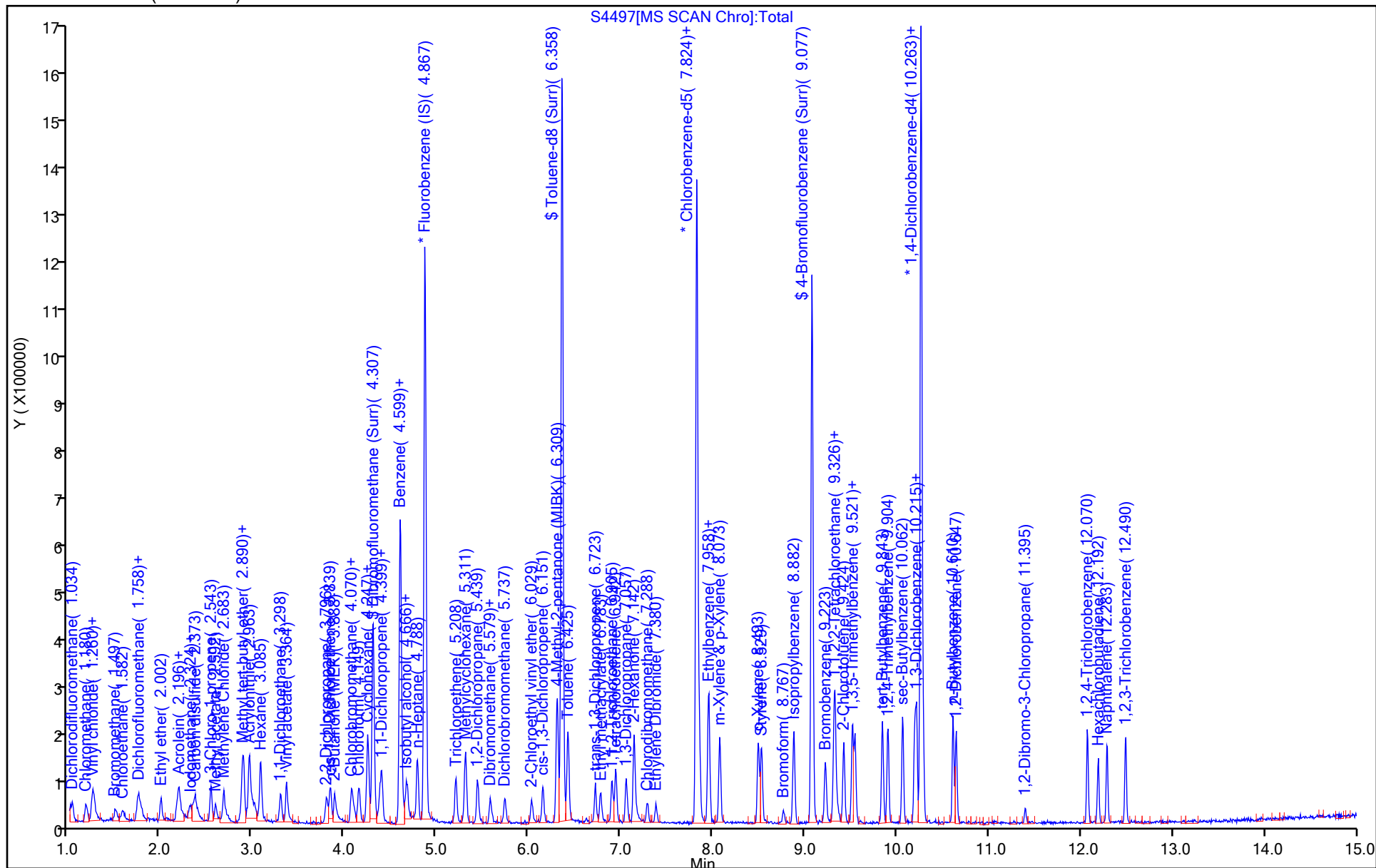
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



## Eurofins Buffalo

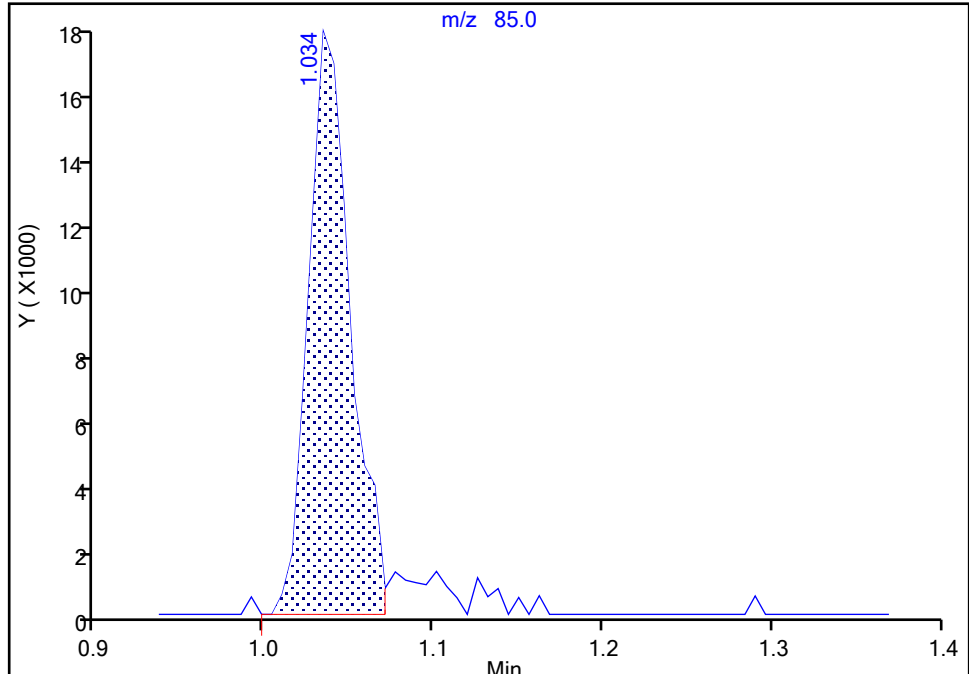
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector MS SCAN

**10 Dichlorodifluoromethane, CAS: 75-71-8**

Signal: 1

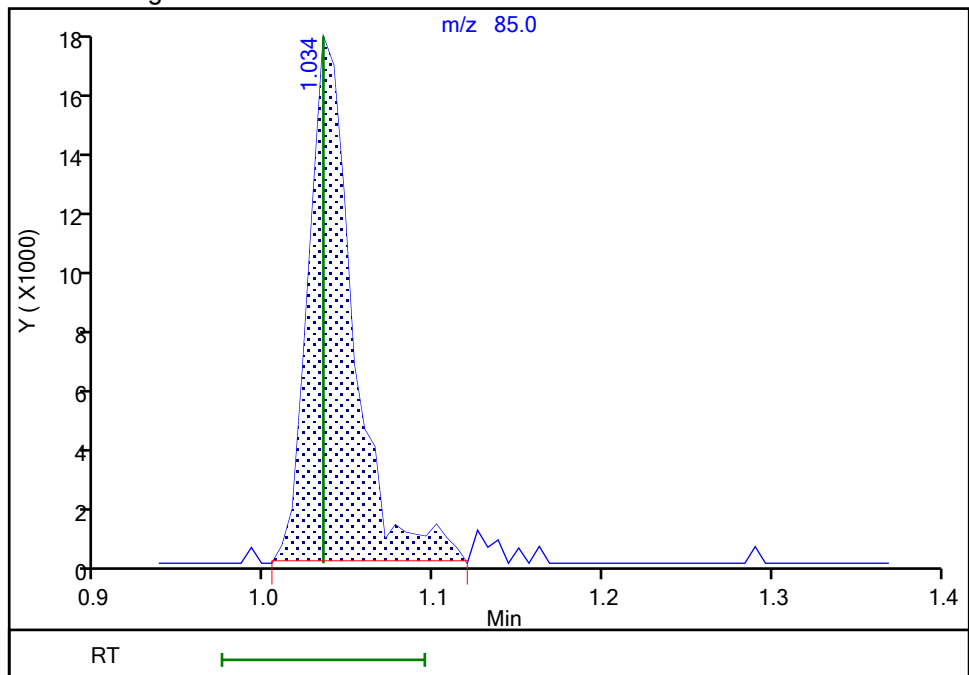
RT: 1.03  
Area: 29857  
Amount: 2.028925  
Amount Units: ug/L

## Processing Integration Results



RT: 1.03  
Area: 31697  
Amount: 2.137648  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:37:09  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG  
Purge Vol: 5.000 mL  
Method: S-8260  
Column: ZB-624 ( 0.18 mm)

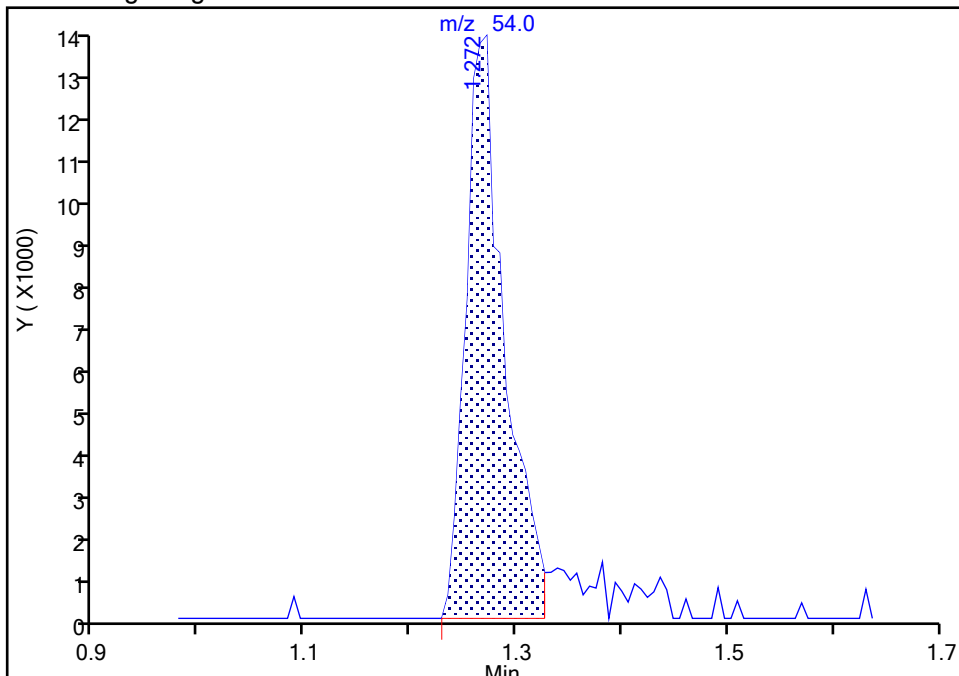
ALS Bottle#: 15 Worklist Smp#: 15  
Dil. Factor: 1.0000  
Limit Group: MV - 8260C ICAL  
Detector: MS SCAN

**151 Butadiene, CAS: 106-99-0**

Signal: 1

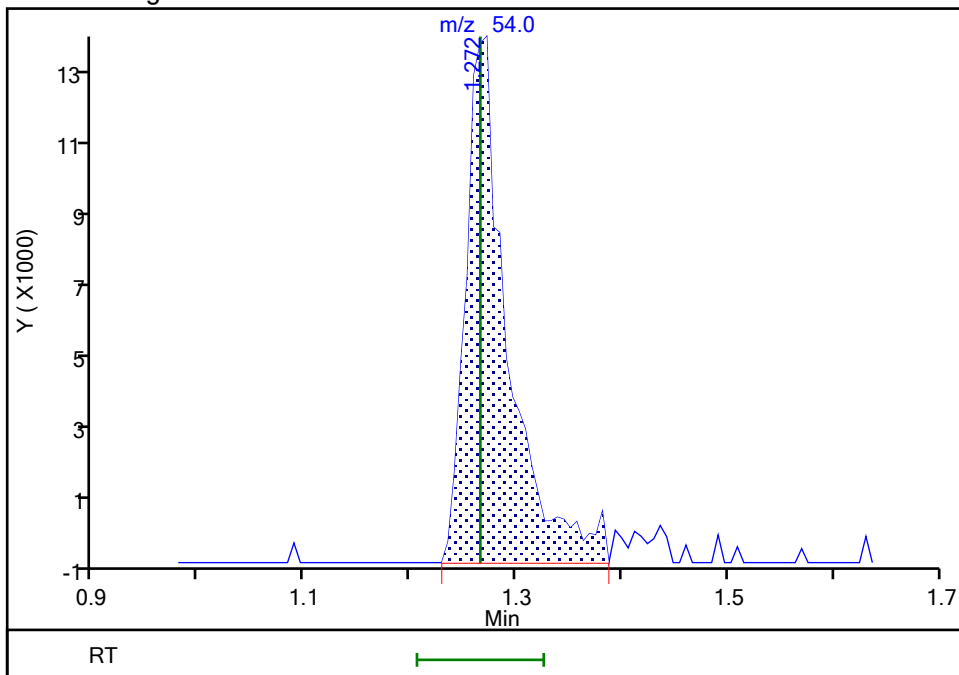
RT: 1.27  
Area: 34016  
Amount: 1.963717  
Amount Units: ug/L

## Processing Integration Results



RT: 1.27  
Area: 37280  
Amount: 2.113550  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:37:22  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

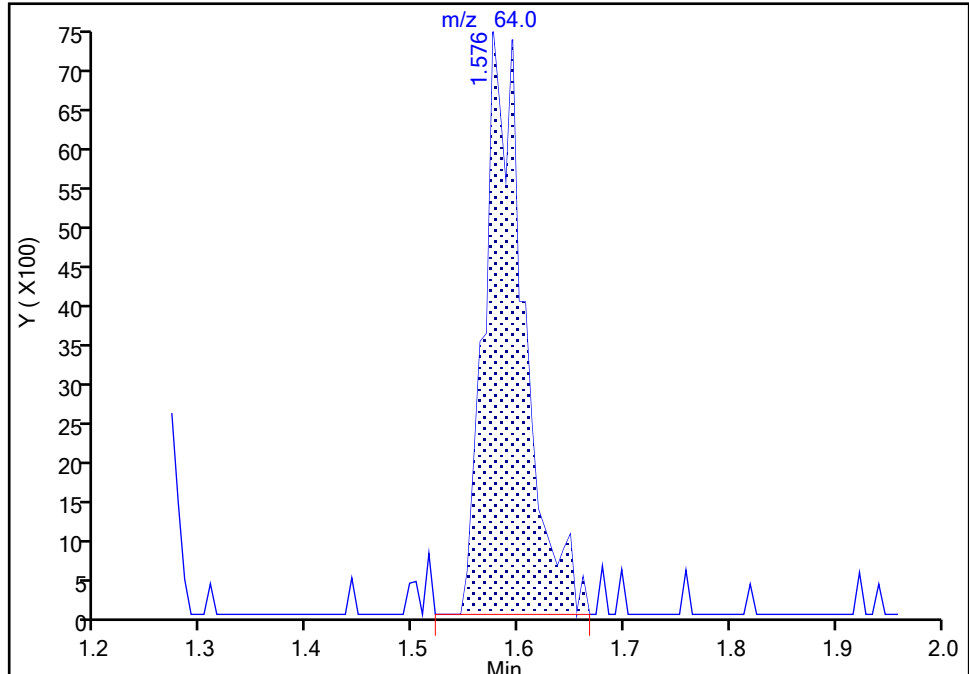
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**15 Chloroethane, CAS: 75-00-3**

Signal: 1

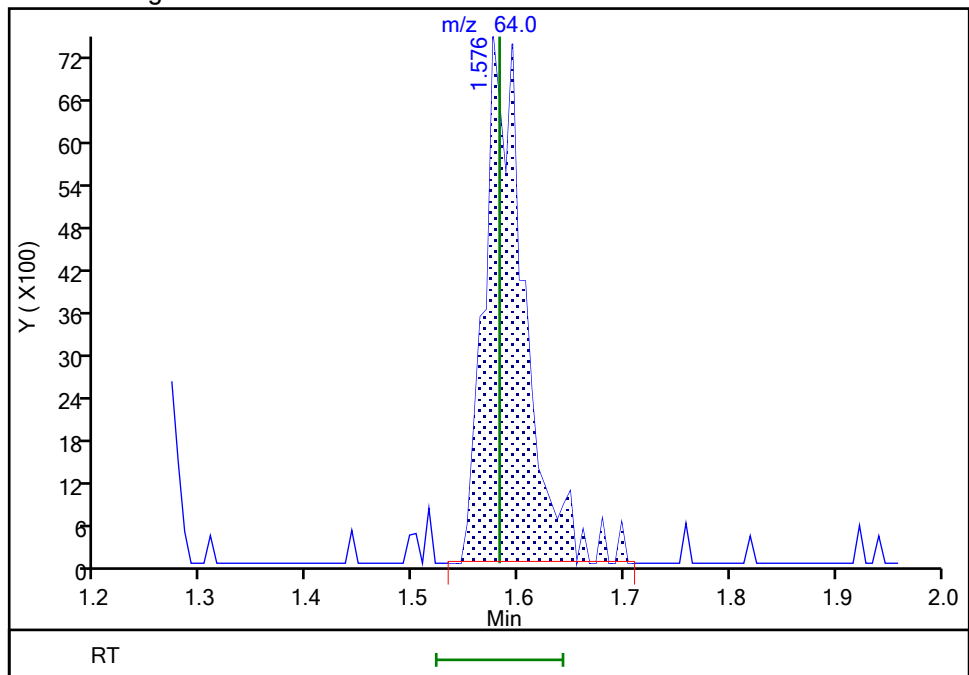
RT: 1.58  
Area: 19432  
Amount: 1.968790  
Amount Units: ug/L

## Processing Integration Results



RT: 1.58  
Area: 19585  
Amount: 2.080483  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:37:38  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

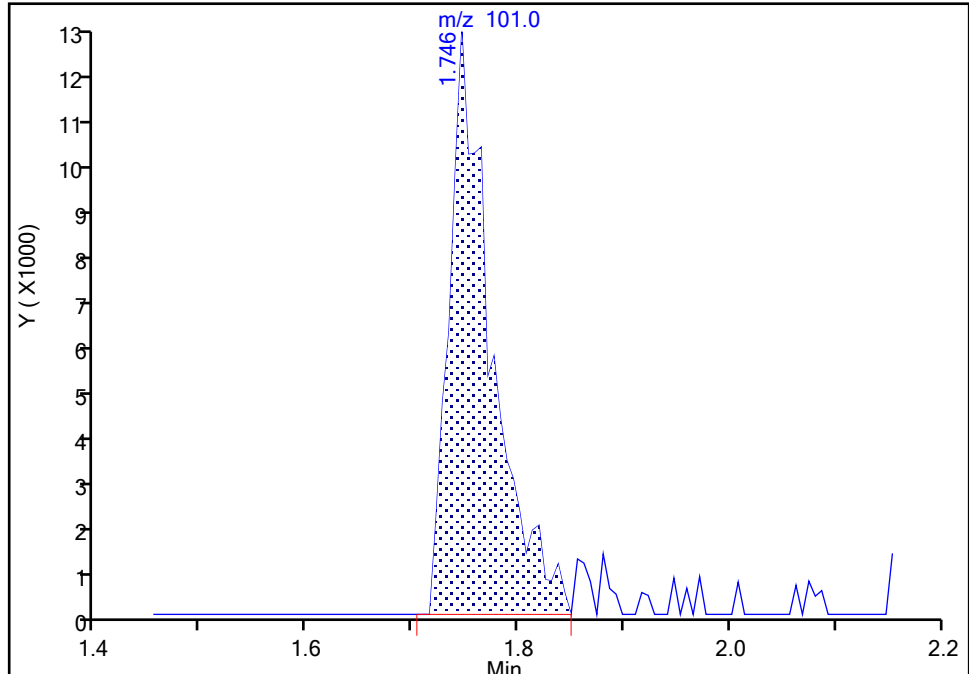
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**17 Trichlorofluoromethane, CAS: 75-69-4**

Signal: 1

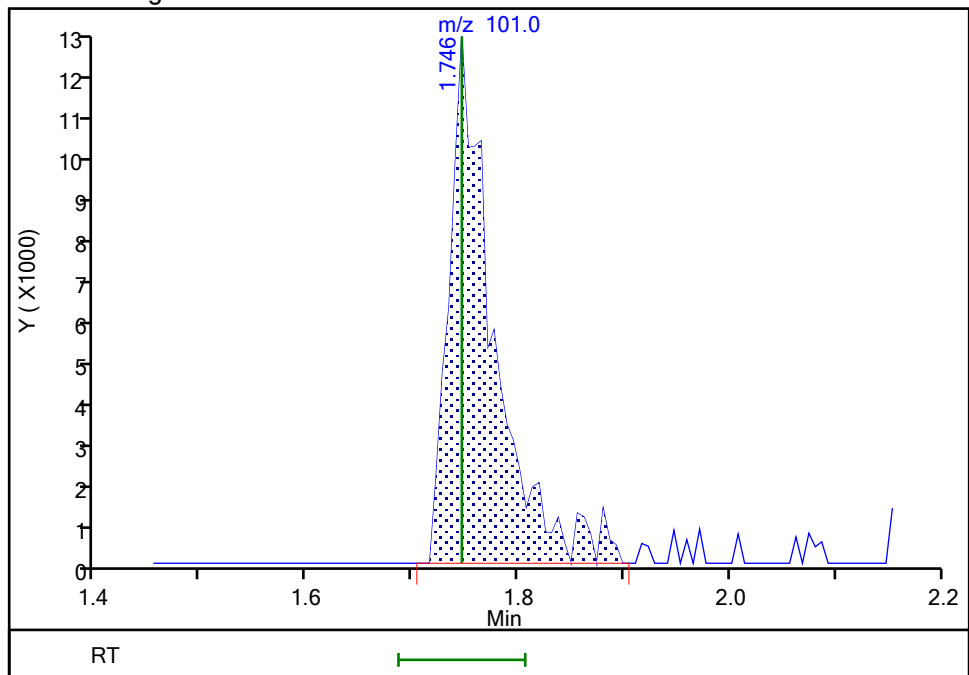
RT: 1.75  
Area: 34936  
Amount: 1.921557  
Amount Units: ug/L

## Processing Integration Results



RT: 1.75  
Area: 36861  
Amount: 1.967209  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:37:50  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

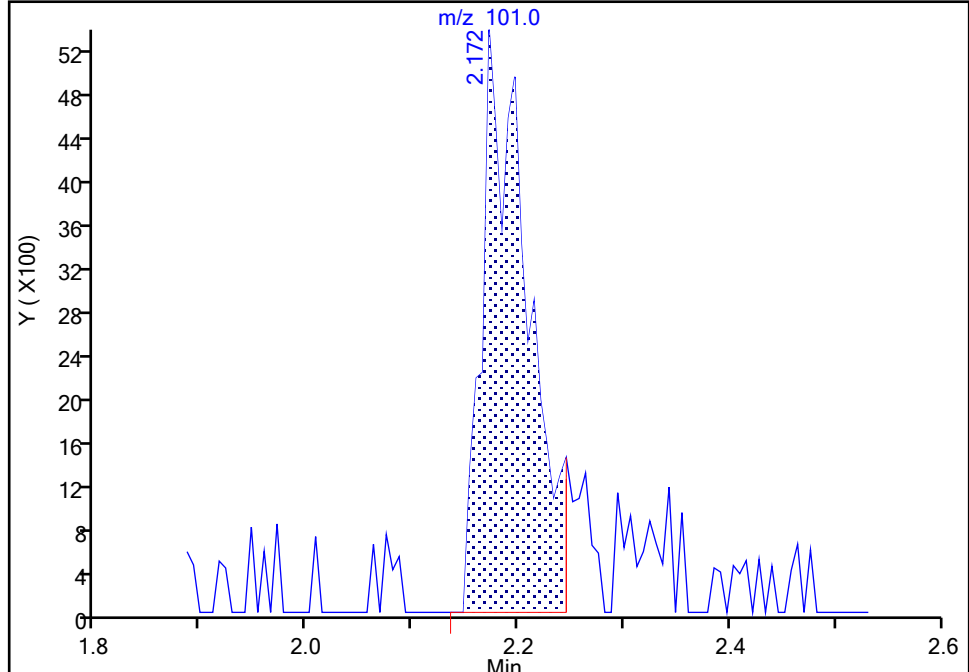
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

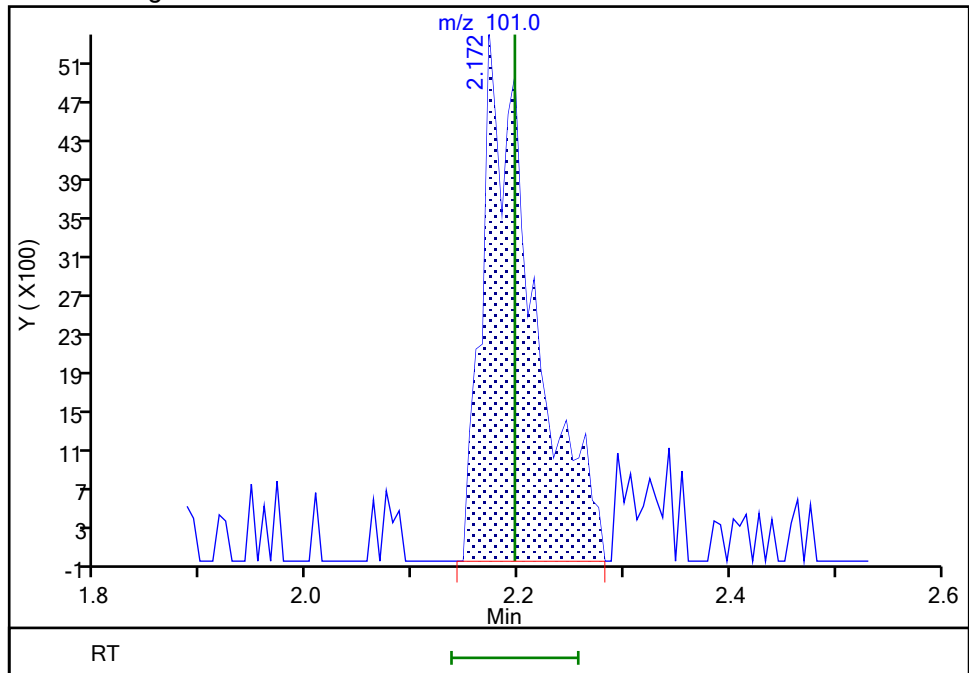
RT: 2.17  
Area: 16102  
Amount: 1.924192  
Amount Units: ug/L

## Processing Integration Results



RT: 2.17  
Area: 17747  
Amount: 1.976250  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:38:05  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D

Injection Date: 09-Aug-2022 17:53:30

Instrument ID: HP5973S

Lims ID: IC 2

Client ID:

Operator ID: AG

ALS Bottle#:

15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)

Detector

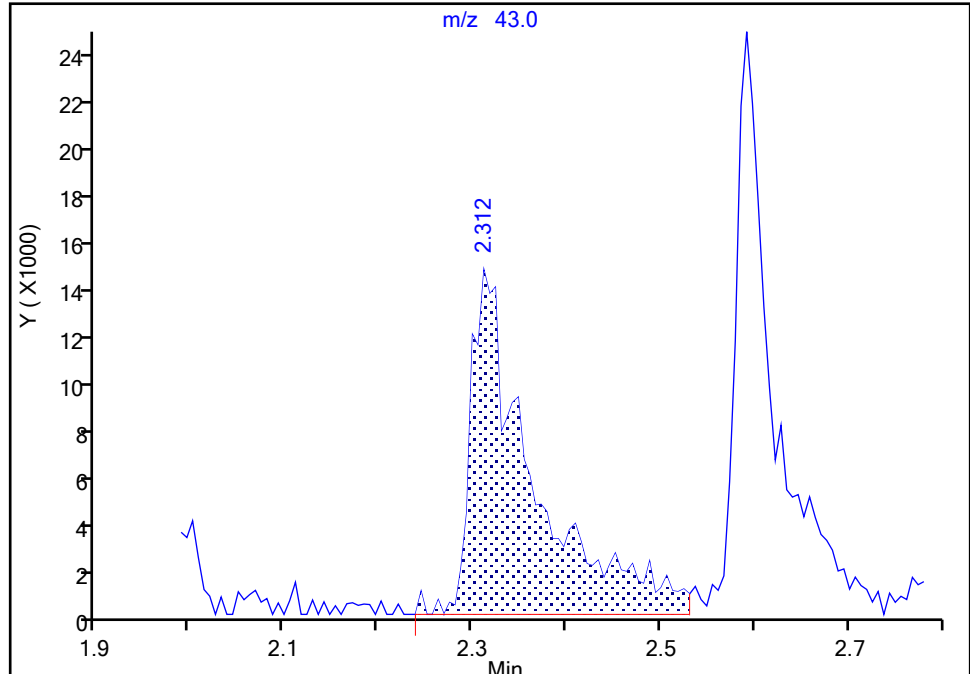
MS SCAN

**23 Acetone, CAS: 67-64-1**

Signal: 1

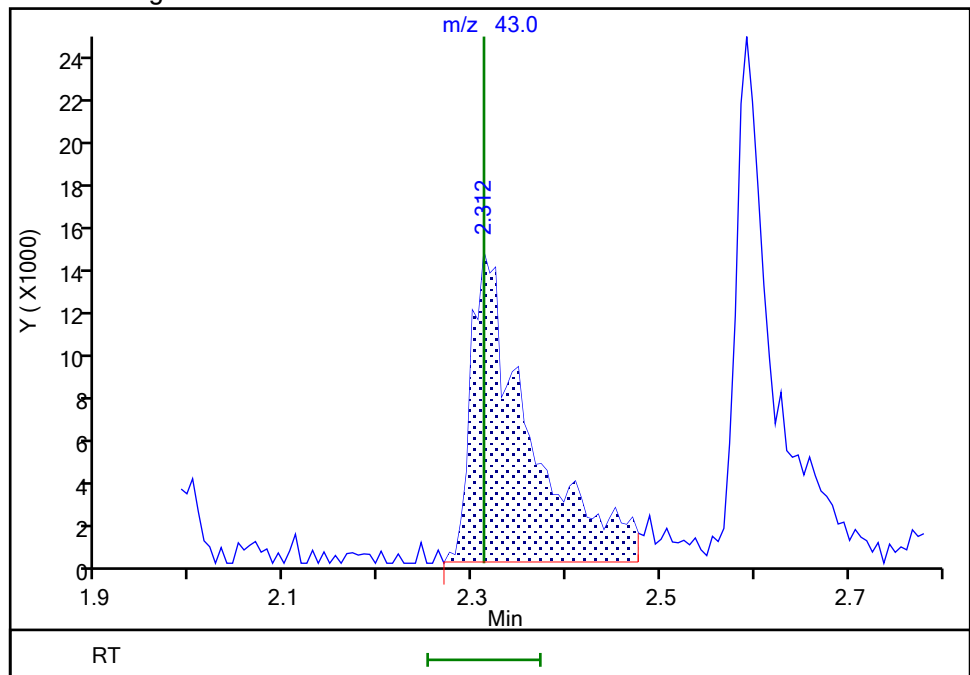
RT: 2.31  
Area: 66250  
Amount: 10.856844  
Amount Units: ug/L

## Processing Integration Results



RT: 2.31  
Area: 60974  
Amount: 10.442053  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:38:18

Audit Action: Manually Integrated

Audit Reason: Poor chromatography



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D

Injection Date: 09-Aug-2022 17:53:30

Instrument ID: HP5973S

Lims ID: IC 2

Client ID:

Operator ID: AG

ALS Bottle#:

15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)

Detector

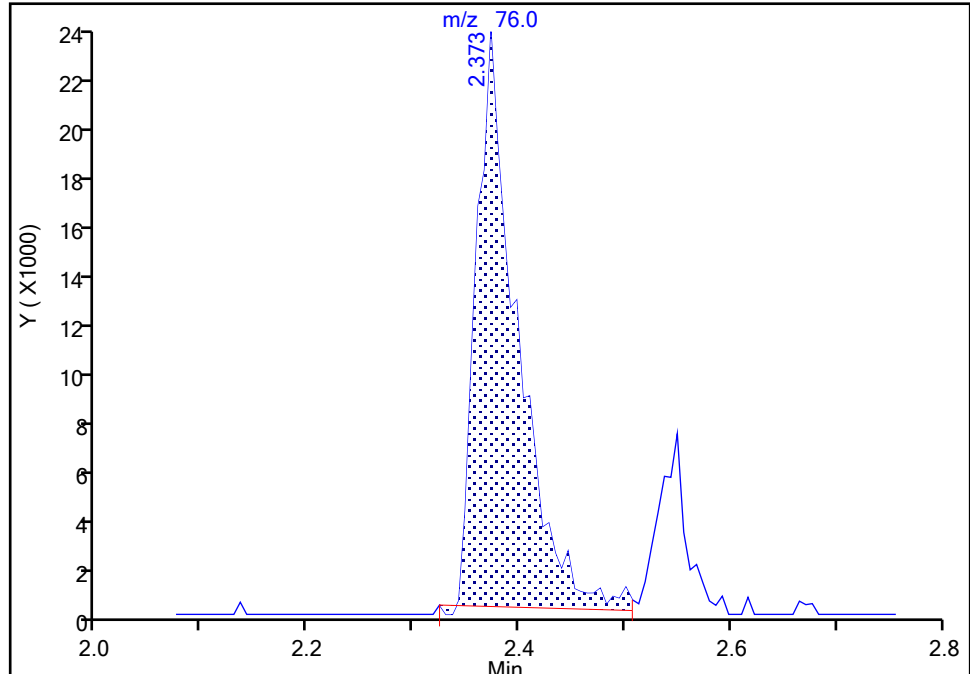
MS SCAN

**26 Carbon disulfide, CAS: 75-15-0**

Signal: 1

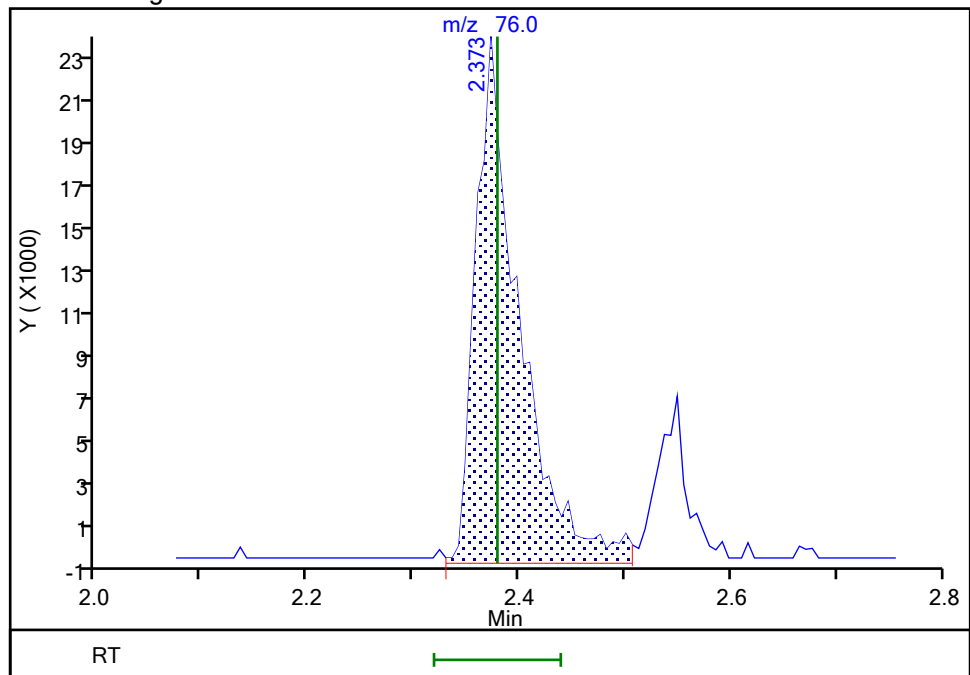
RT: 2.37  
Area: 61779  
Amount: 1.956172  
Amount Units: ug/L

## Processing Integration Results



RT: 2.37  
Area: 67192  
Amount: 2.104671  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:38:47

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

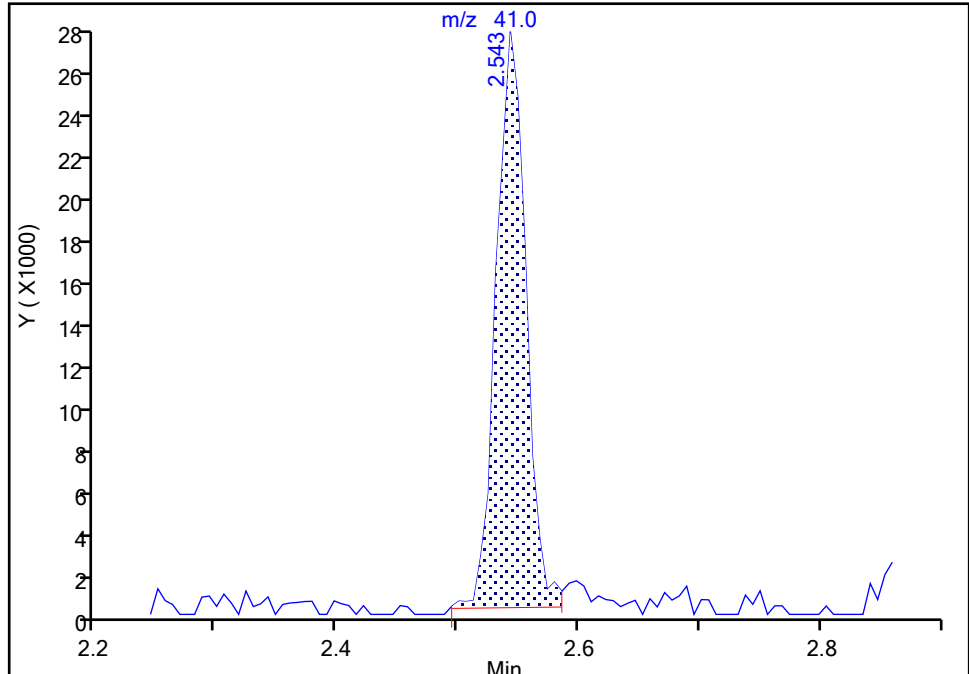
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**28 3-Chloro-1-propene, CAS: 107-05-1**

Signal: 1

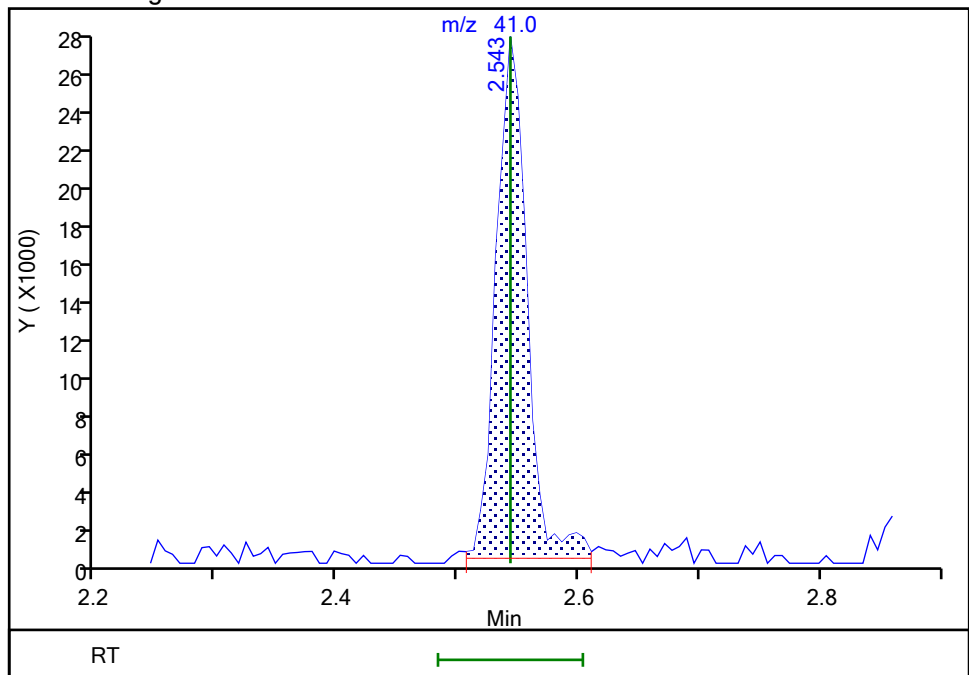
RT: 2.54  
Area: 46919  
Amount: 1.979440  
Amount Units: ug/L

## Processing Integration Results



RT: 2.54  
Area: 48513  
Amount: 2.040095  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:38:58  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG  
Purge Vol: 5.000 mL  
Method: S-8260  
Column: ZB-624 ( 0.18 mm)

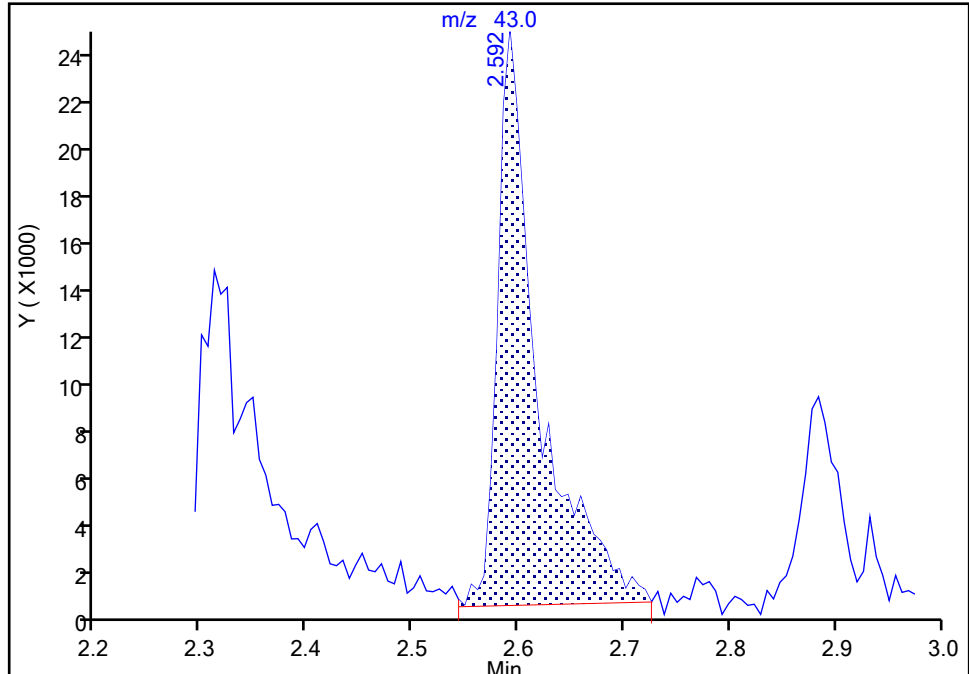
ALS Bottle#: 15 Worklist Smp#: 15  
Dil. Factor: 1.0000  
Limit Group: MV - 8260C ICAL  
Detector: MS SCAN

**27 Methyl acetate, CAS: 79-20-9**

Signal: 1

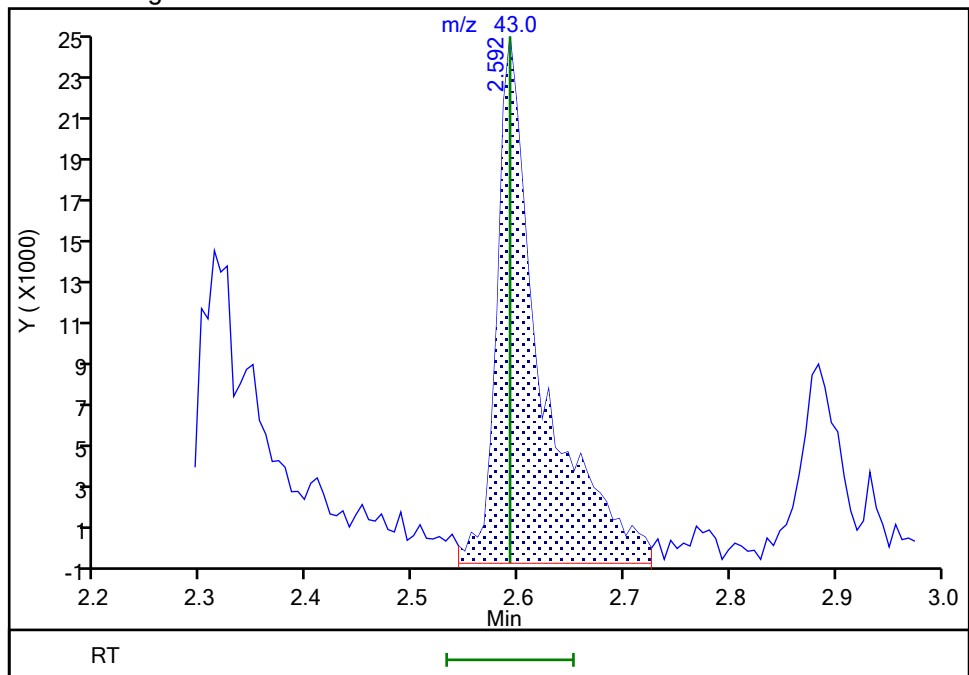
RT: 2.59  
Area: 63919  
Amount: 3.872460  
Amount Units: ug/L

## Processing Integration Results



RT: 2.59  
Area: 70658  
Amount: 4.447767  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:39:19  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

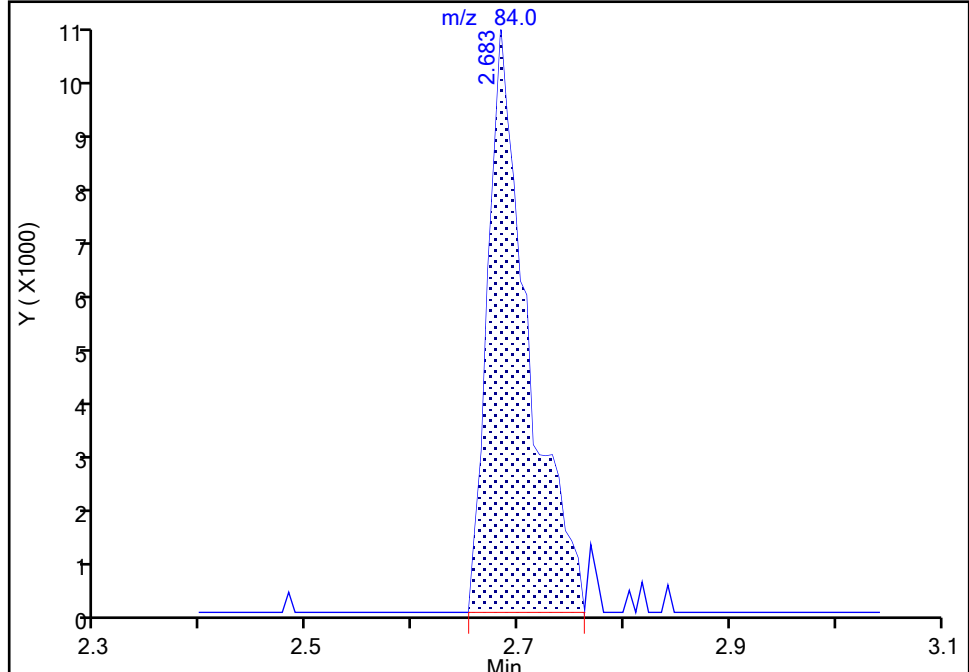
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**30 Methylene Chloride, CAS: 75-09-2**

Signal: 1

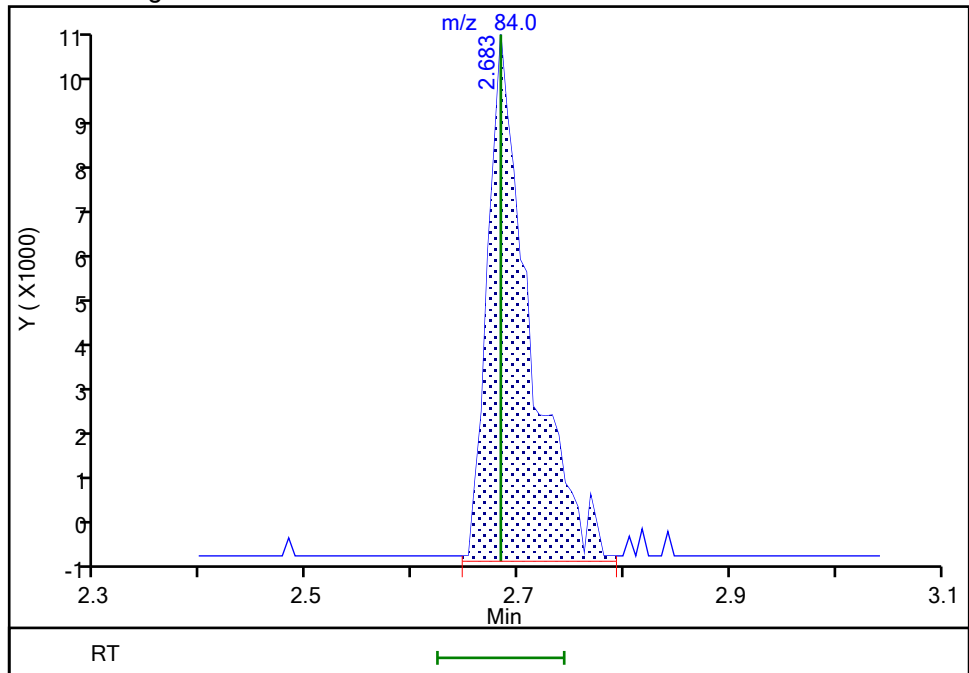
RT: 2.68  
Area: 27042  
Amount: 1.898660  
Amount Units: ug/L

## Processing Integration Results



RT: 2.68  
Area: 28673  
Amount: 2.013989  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:39:32

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

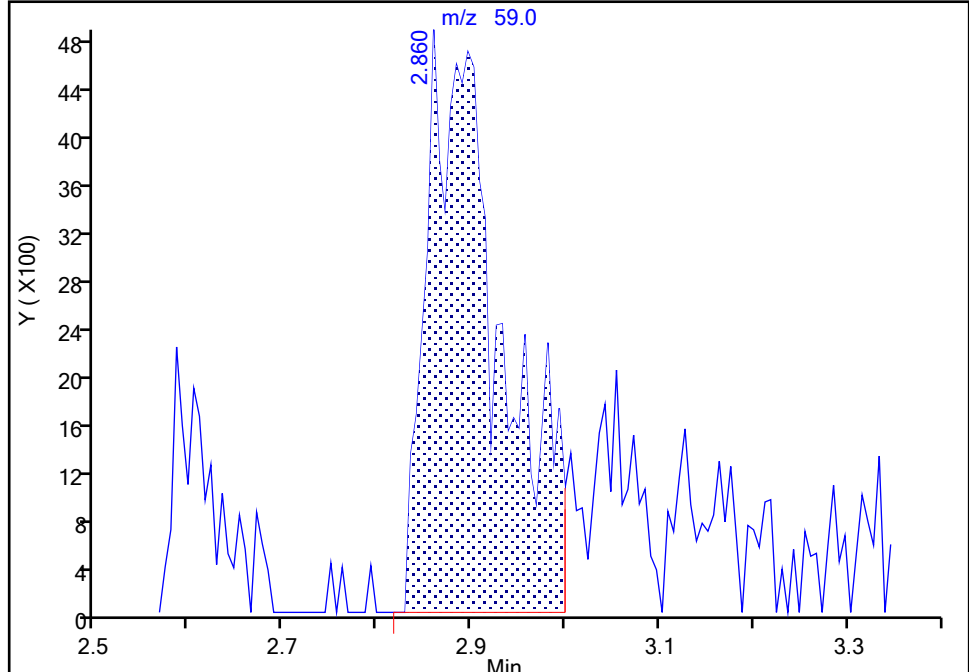
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**31 2-Methyl-2-propanol, CAS: 75-65-0**

Signal: 1

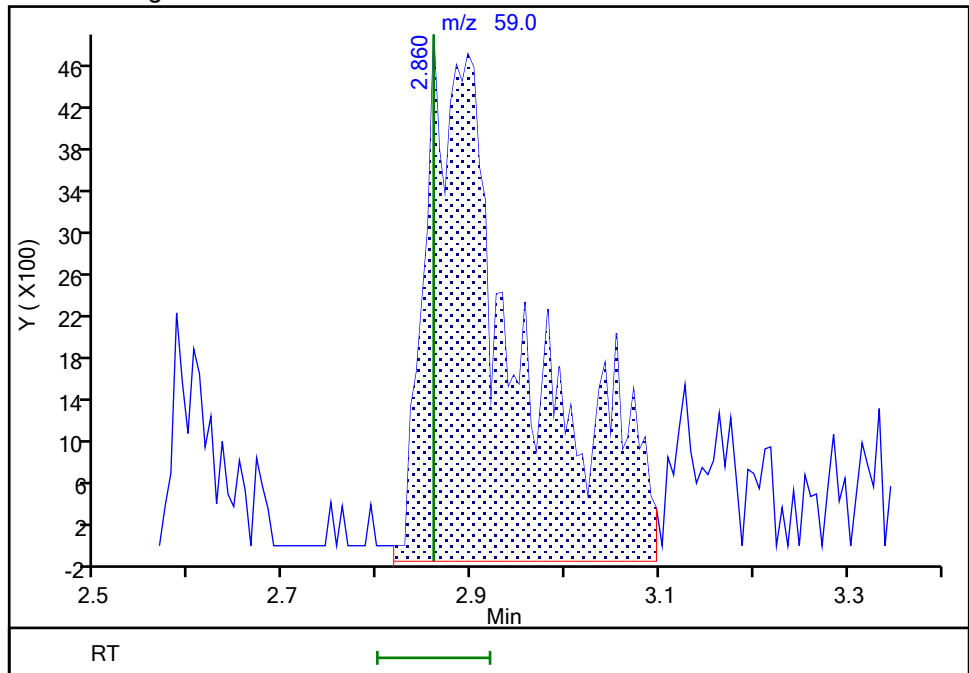
RT: 2.86  
Area: 26328  
Amount: 16.127324  
Amount Units: ug/L

## Processing Integration Results



RT: 2.86  
Area: 35000  
Amount: 20.274269  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:39:54  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

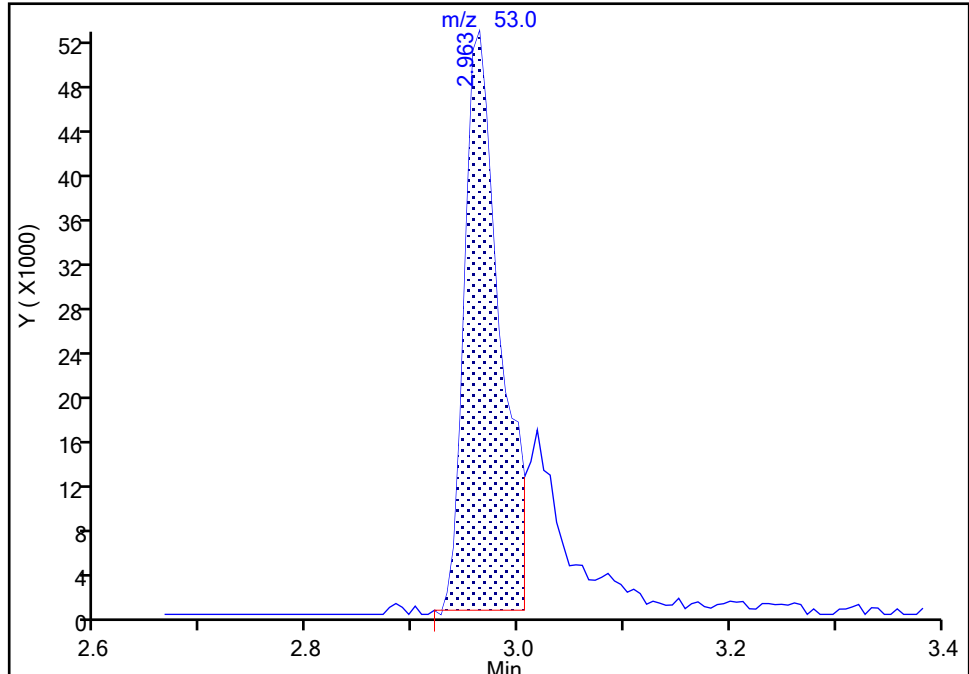
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**33 Acrylonitrile, CAS: 107-13-1**

Signal: 1

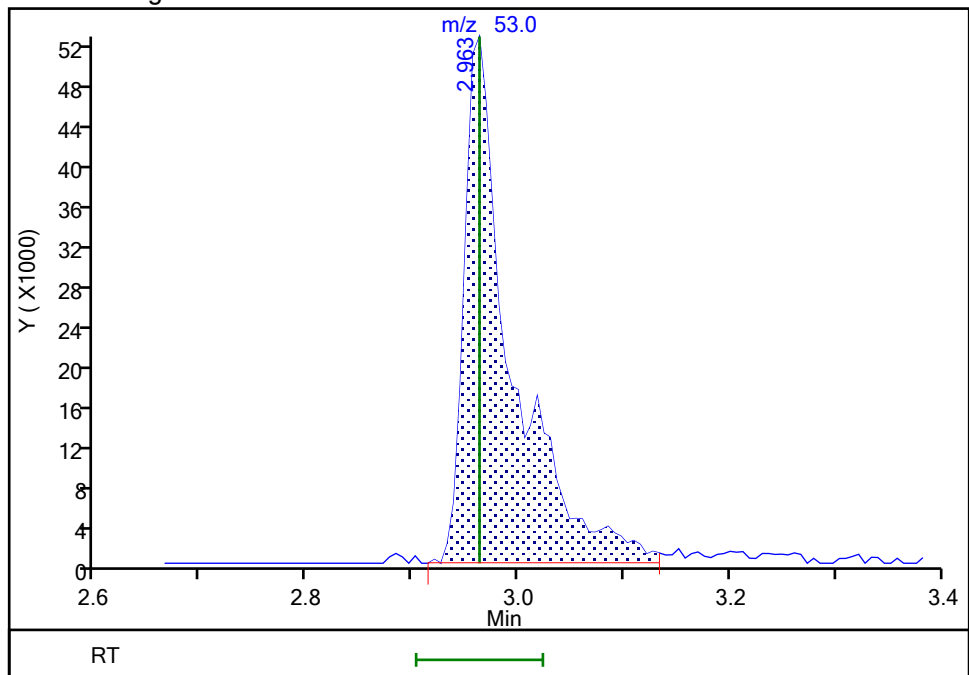
RT: 2.96  
Area: 122291  
Amount: 16.008222  
Amount Units: ug/L

## Processing Integration Results



RT: 2.96  
Area: 164711  
Amount: 20.724669  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:40:11

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

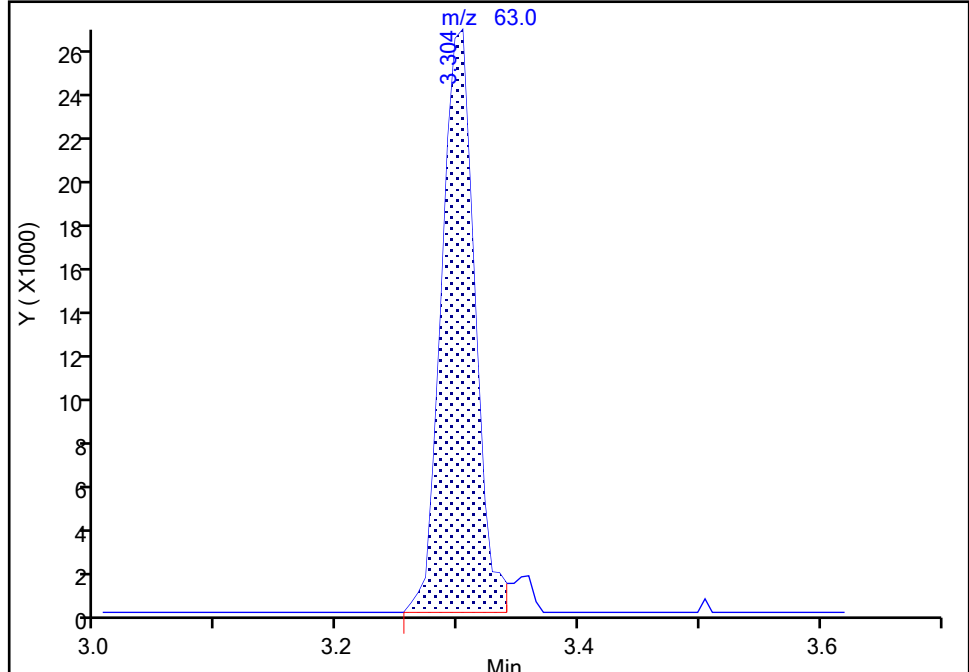
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**39 1,1-Dichloroethane, CAS: 75-34-3**

Signal: 1

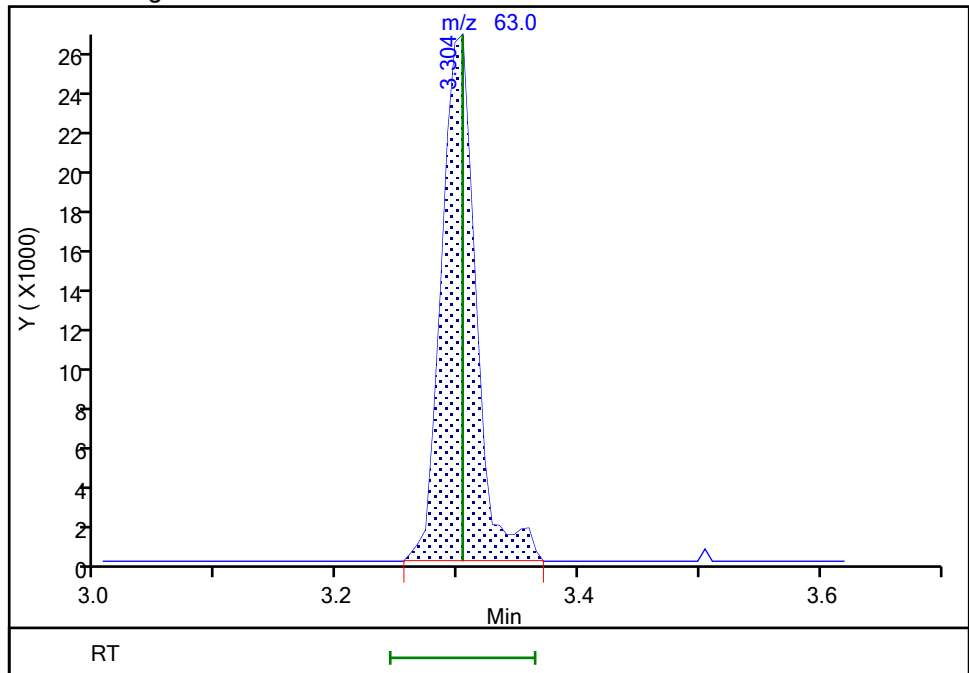
RT: 3.30  
Area: 51234  
Amount: 1.975082  
Amount Units: ug/L

## Processing Integration Results



RT: 3.30  
Area: 52876  
Amount: 2.030716  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:40:22  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

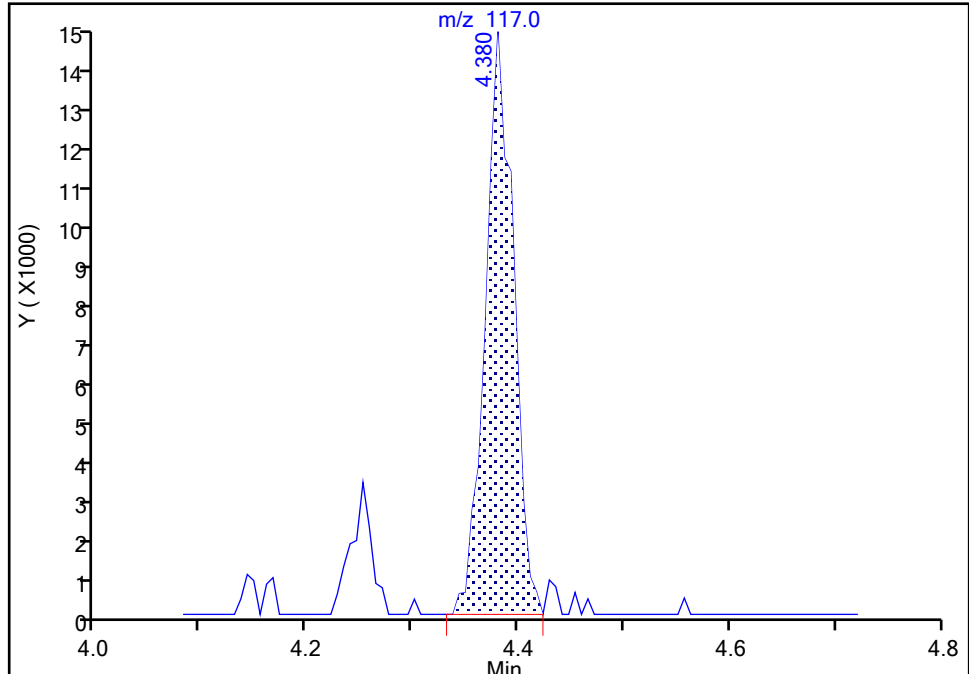
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**55 Carbon tetrachloride, CAS: 56-23-5**

Signal: 1

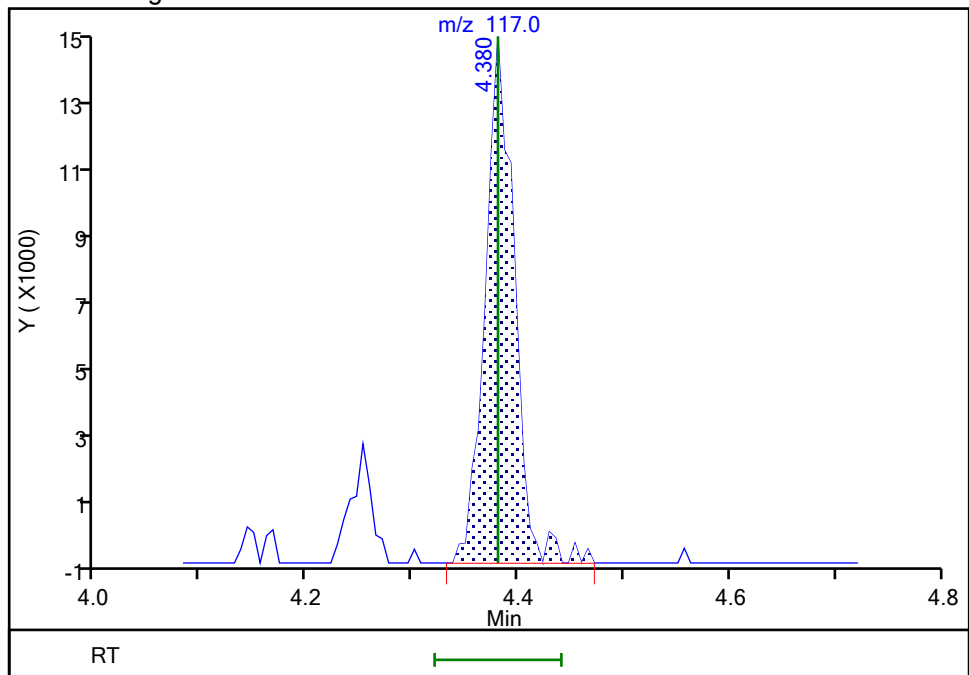
RT: 4.38  
Area: 27612  
Amount: 1.812544  
Amount Units: ug/L

## Processing Integration Results



RT: 4.38  
Area: 28611  
Amount: 1.870788  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:40:45  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

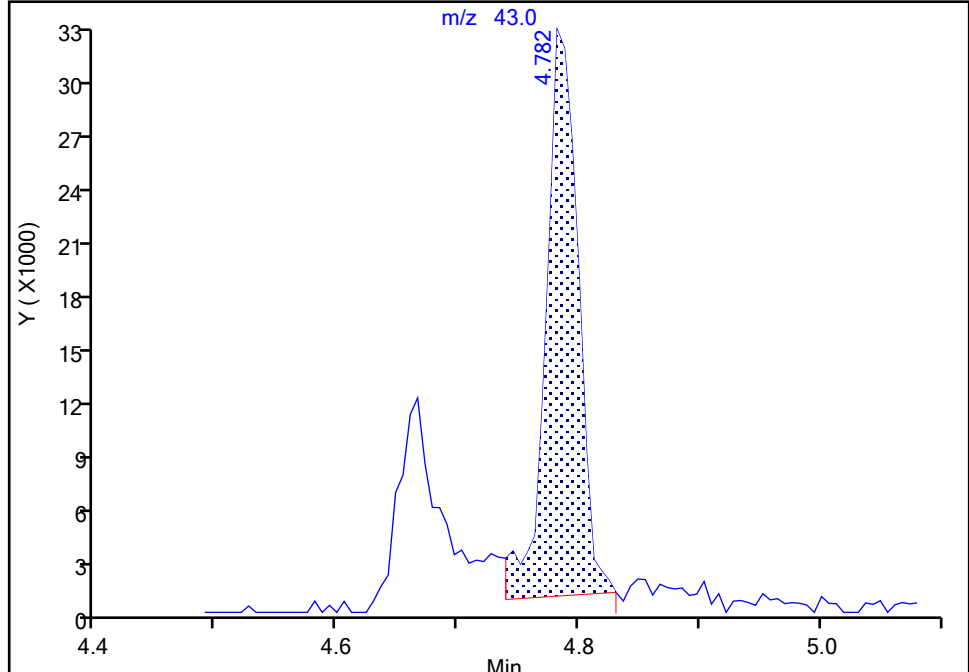
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**59 n-Heptane, CAS: 142-82-5**

Signal: 1

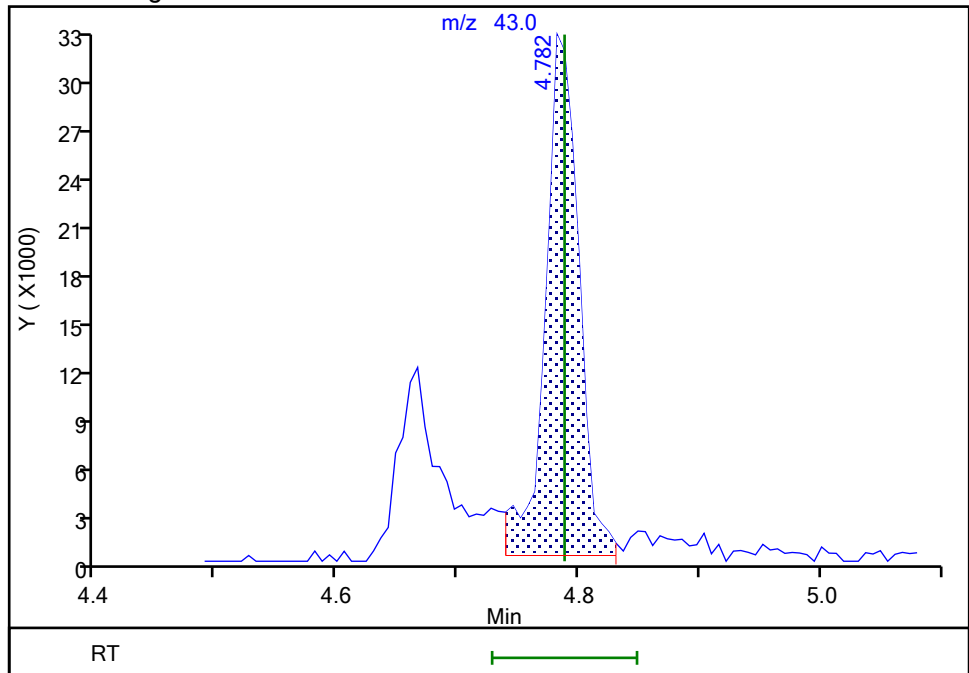
RT: 4.78  
Area: 58297  
Amount: 1.922392  
Amount Units: ug/L

## Processing Integration Results



RT: 4.78  
Area: 61562  
Amount: 2.005966  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:41:02  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

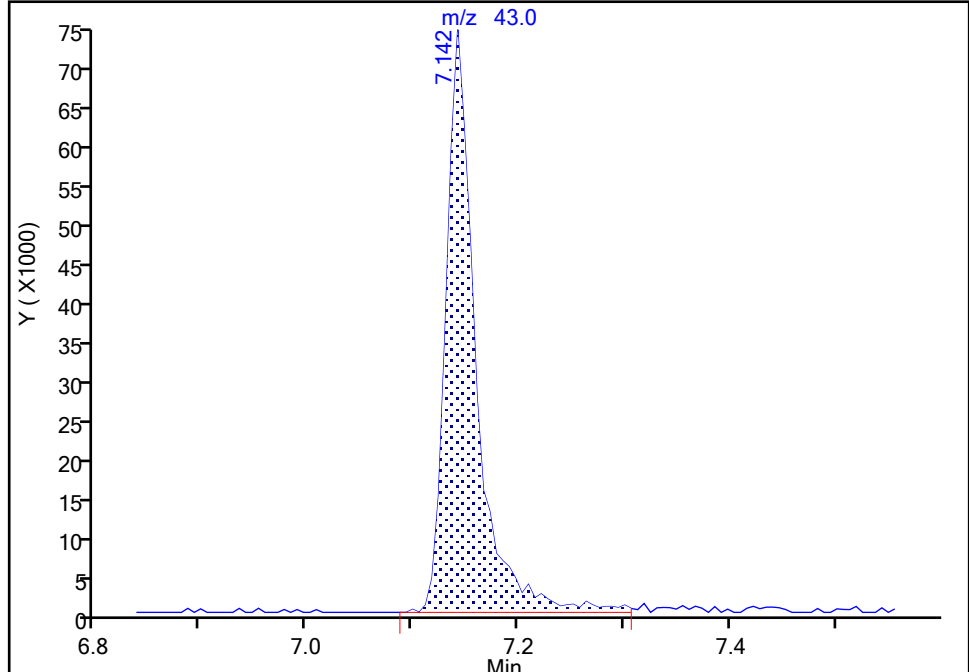
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**80 2-Hexanone, CAS: 591-78-6**

Signal: 1

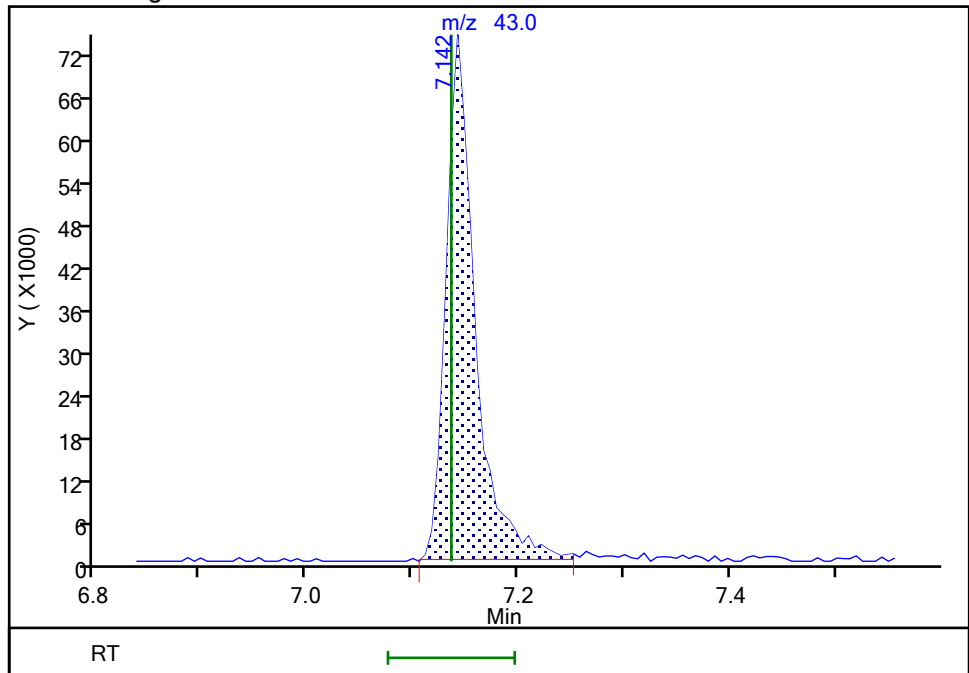
RT: 7.14  
Area: 146354  
Amount: 9.557241  
Amount Units: ug/L

## Processing Integration Results



RT: 7.14  
Area: 141253  
Amount: 9.262703  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:41:54  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

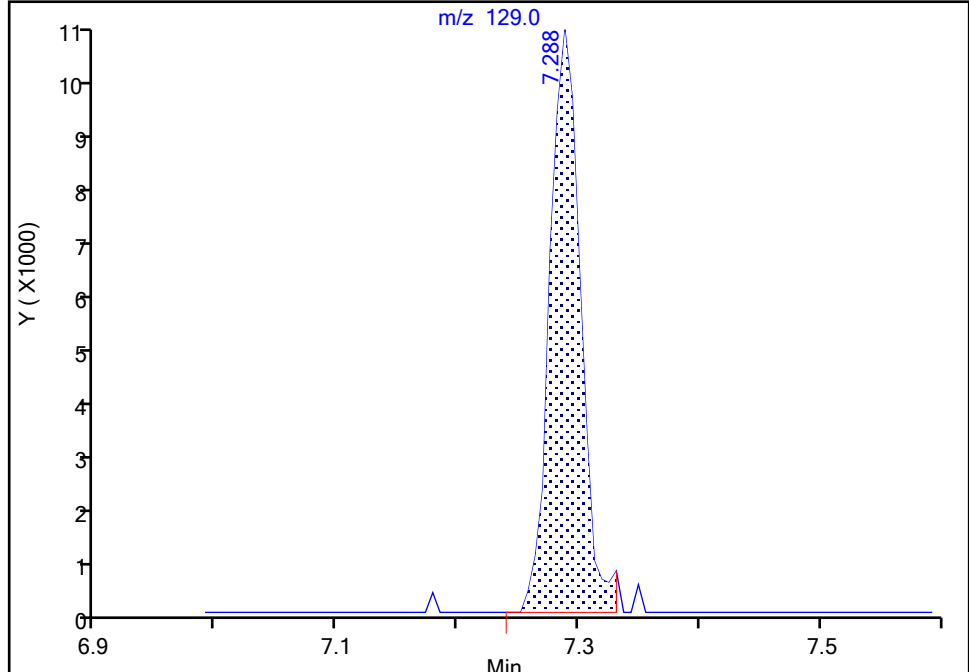
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4497.D  
Injection Date: 09-Aug-2022 17:53:30 Instrument ID: HP5973S  
Lims ID: IC 2  
Client ID:  
Operator ID: AG ALS Bottle#: 15 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**83 Chlorodibromomethane, CAS: 124-48-1**

Signal: 1

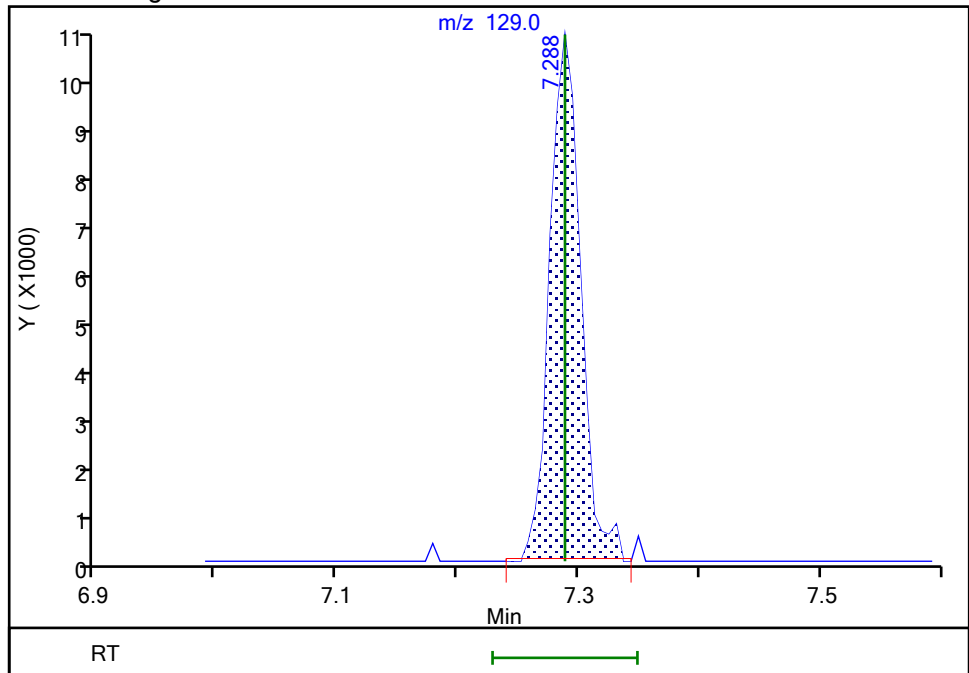
RT: 7.29  
Area: 19531  
Amount: 1.799635  
Amount Units: ug/L

## Processing Integration Results



RT: 7.29  
Area: 19156  
Amount: 1.818147  
Amount Units: ug/L

## Manual Integration Results



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4498.D  
 Lims ID: IC 3  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 09-Aug-2022 18:16:30 ALS Bottle#: 16 Worklist Smp#: 16  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC 3  
 Misc. Info.: 480-0106979-016  
 Operator ID: AG Instrument ID: HP5973S  
 Sublist: chrom-S-8260\*sub26  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 10-Aug-2022 14:57:03 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1608

First Level Reviewer: FGO5

Date: 10-Aug-2022 09:47:39

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 153 Fluorobenzene (IS)                 | 70  | 4.873        | 4.867            | 0.006            | 98 | 187299   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 82  | 7.824        | 7.824            | 0.000            | 88 | 385853   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 10.263       | 10.263           | 0.000            | 86 | 410747   | 25.0            | 25.0              |       |
| \$ 154 Dibromofluoromethane (Surr)       | 113 | 4.308        | 4.307            | 0.001            | 57 | 236993   | 25.0            | 24.9              |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)        | 67  | 4.606        | 4.606            | 0.000            | 92 | 161821   | 25.0            | 24.9              |       |
| \$ 5 Toluene-d8 (Surr)                   | 98  | 6.358        | 6.358            | 0.000            | 91 | 926131   | 25.0            | 24.6              |       |
| \$ 6 4-Bromofluorobenzene (Surr)         | 174 | 9.077        | 9.077            | 0.000            | 87 | 307817   | 25.0            | 24.6              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.035        | 1.035            | 0.001            | 96 | 71780    | 5.00            | 4.68              |       |
| 12 Chloromethane                         | 50  | 1.181        | 1.187            | -0.006           | 99 | 113542   | 5.00            | 4.66              |       |
| 13 Vinyl chloride                        | 62  | 1.248        | 1.247            | 0.001            | 90 | 75321    | 5.00            | 4.87              |       |
| 151 Butadiene                            | 54  | 1.266        | 1.266            | 0.000            | 66 | 88081    | 5.00            | 4.82              | M     |
| 14 Bromomethane                          | 94  | 1.497        | 1.509            | -0.012           | 82 | 46318    | 5.00            | 5.13              | M     |
| 15 Chloroethane                          | 64  | 1.576        | 1.582            | -0.006           | 90 | 50890    | 5.00            | 5.22              | M     |
| 17 Trichlorofluoromethane                | 101 | 1.746        | 1.746            | 0.000            | 85 | 90146    | 5.00            | 4.65              | M     |
| 16 Dichlorofluoromethane                 | 67  | 1.759        | 1.758            | 0.001            | 96 | 104440   | 5.00            | 4.82              |       |
| 18 Ethyl ether                           | 59  | 1.996        | 2.002            | -0.006           | 93 | 67851    | 5.00            | 4.92              |       |
| 20 Acrolein                              | 56  | 2.166        | 2.166            | 0.000            | 75 | 48235    | 25.0            | 25.1              |       |
| 22 1,1-Dichloroethene                    | 96  | 2.191        | 2.196            | -0.005           | 93 | 44356    | 5.00            | 4.33              | M     |
| 21 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 2.185        | 2.196            | -0.012           | 62 | 47269    | 5.00            | 5.08              |       |
| 23 Acetone                               | 43  | 2.312        | 2.312            | 0.000            | 99 | 151568   | 25.0            | 25.1              |       |
| 25 Iodomethane                           | 142 | 2.337        | 2.342            | -0.005           | 98 | 87940    | 5.00            | 4.83              | M     |
| 26 Carbon disulfide                      | 76  | 2.367        | 2.379            | -0.012           | 98 | 155141   | 5.00            | 4.69              |       |
| 28 3-Chloro-1-propene                    | 41  | 2.543        | 2.543            | 0.000            | 86 | 115773   | 5.00            | 4.70              |       |
| 27 Methyl acetate                        | 43  | 2.592        | 2.592            | 0.000            | 99 | 162339   | 10.0            | 9.87              |       |
| 30 Methylene Chloride                    | 84  | 2.683        | 2.683            | 0.000            | 91 | 66784    | 5.00            | 4.91              |       |
| 31 2-Methyl-2-propanol                   | 59  | 2.866        | 2.860            | 0.006            | 49 | 83039    | 50.0            | 46.5              | M     |
| 32 Methyl tert-butyl ether               | 73  | 2.884        | 2.884            | 0.000            | 89 | 194799   | 5.00            | 4.74              |       |
| 34 trans-1,2-Dichloroethene              | 96  | 2.896        | 2.896            | 0.000            | 92 | 64262    | 5.00            | 5.01              |       |
| 33 Acrylonitrile                         | 53  | 2.957        | 2.963            | -0.006           | 97 | 401779   | 50.0            | 48.8              | M     |
| 35 Hexane                                | 57  | 3.079        | 3.085            | -0.006           | 89 | 120745   | 5.00            | 4.55              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane          | 63  | 3.298     | 3.304         | -0.006        | 96 | 131353   | 5.00         | 4.87           |       |
| 37 Vinyl acetate               | 43  | 3.365     | 3.365         | 0.001         | 97 | 331655   | 10.0         | 9.09           |       |
| 44 2,2-Dichloropropane         | 77  | 3.803     | 3.803         | 0.000         | 87 | 73775    | 5.00         | 4.94           |       |
| 45 cis-1,2-Dichloroethene      | 96  | 3.839     | 3.839         | 0.000         | 74 | 71354    | 5.00         | 4.95           |       |
| 43 2-Butanone (MEK)            | 43  | 3.888     | 3.888         | 0.000         | 97 | 249931   | 25.0         | 24.5           |       |
| 48 Chlorobromomethane          | 128 | 4.070     | 4.070         | 0.000         | 84 | 37807    | 5.00         | 4.79           |       |
| 49 Tetrahydrofuran             | 42  | 4.089     | 4.082         | 0.007         | 90 | 61265    | 10.0         | 9.14           | M     |
| 50 Chloroform                  | 83  | 4.156     | 4.155         | 0.001         | 93 | 112302   | 5.00         | 4.71           | M     |
| 52 Cyclohexane                 | 56  | 4.247     | 4.253         | -0.006        | 91 | 130935   | 5.00         | 4.71           |       |
| 51 1,1,1-Trichloroethane       | 97  | 4.247     | 4.253         | -0.006        | 76 | 86682    | 5.00         | 4.64           |       |
| 55 Carbon tetrachloride        | 117 | 4.387     | 4.380         | 0.007         | 84 | 70002    | 5.00         | 4.42           |       |
| 54 1,1-Dichloropropene         | 75  | 4.399     | 4.399         | 0.000         | 90 | 89526    | 5.00         | 4.83           |       |
| 57 Benzene                     | 78  | 4.600     | 4.599         | 0.001         | 84 | 269327   | 5.00         | 4.80           |       |
| 53 Isobutyl alcohol            | 43  | 4.661     | 4.660         | 0.001         | 59 | 83187    | 125.0        | 111.2          |       |
| 58 1,2-Dichloroethane          | 62  | 4.673     | 4.672         | 0.001         | 67 | 111372   | 5.00         | 4.95           |       |
| 59 n-Heptane                   | 43  | 4.788     | 4.788         | 0.000         | 96 | 148619   | 5.00         | 4.68           | M     |
| 62 Trichloroethene             | 95  | 5.208     | 5.202         | 0.006         | 92 | 68024    | 5.00         | 4.92           |       |
| 64 Methylcyclohexane           | 83  | 5.311     | 5.311         | 0.000         | 95 | 106034   | 5.00         | 4.42           |       |
| 65 1,2-Dichloropropane         | 63  | 5.439     | 5.445         | -0.006        | 87 | 73300    | 5.00         | 4.73           |       |
| 67 Dibromomethane              | 93  | 5.579     | 5.579         | 0.000         | 84 | 38130    | 5.00         | 4.62           |       |
| 66 1,4-Dioxane                 | 88  | 5.603     | 5.597         | 0.006         | 80 | 17646    | 100.0        | 120.8          | M     |
| 68 Dichlorobromomethane        | 83  | 5.737     | 5.737         | 0.000         | 95 | 76376    | 5.00         | 4.77           |       |
| 69 2-Chloroethyl vinyl ether   | 63  | 6.029     | 6.029         | 0.000         | 83 | 48131    | 5.00         | 4.62           |       |
| 72 cis-1,3-Dichloropropene     | 75  | 6.151     | 6.151         | 0.000         | 79 | 89177    | 5.00         | 4.49           |       |
| 73 4-Methyl-2-pentanone (MIBK) | 43  | 6.303     | 6.303         | 0.000         | 98 | 522072   | 25.0         | 23.1           |       |
| 74 Toluene                     | 92  | 6.425     | 6.425         | 0.000         | 75 | 164652   | 5.00         | 4.63           |       |
| 77 trans-1,3-Dichloropropene   | 75  | 6.723     | 6.723         | 0.000         | 95 | 84404    | 5.00         | 4.72           |       |
| 75 Ethyl methacrylate          | 69  | 6.778     | 6.777         | 0.001         | 74 | 78762    | 5.00         | 4.61           |       |
| 79 1,1,2-Trichloroethane       | 83  | 6.905     | 6.899         | 0.006         | 94 | 48487    | 5.00         | 4.50           |       |
| 81 Tetrachloroethene           | 166 | 6.948     | 6.948         | 0.000         | 89 | 70143    | 5.00         | 4.55           |       |
| 82 1,3-Dichloropropane         | 76  | 7.057     | 7.057         | 0.000         | 96 | 107007   | 5.00         | 4.68           |       |
| 80 2-Hexanone                  | 43  | 7.143     | 7.136         | 0.007         | 98 | 362618   | 25.0         | 23.4           |       |
| 83 Chlorodibromomethane        | 129 | 7.289     | 7.288         | 0.001         | 83 | 51112    | 5.00         | 4.77           |       |
| 84 Ethylene Dibromide          | 107 | 7.380     | 7.380         | 0.000         | 92 | 61147    | 5.00         | 4.70           |       |
| 87 Chlorobenzene               | 112 | 7.854     | 7.854         | 0.000         | 92 | 200437   | 5.00         | 4.78           |       |
| 88 Ethylbenzene                | 91  | 7.952     | 7.952         | 0.000         | 97 | 313865   | 5.00         | 4.70           |       |
| 89 1,1,1,2-Tetrachloroethane   | 131 | 7.958     | 7.958         | 0.000         | 40 | 64305    | 5.00         | 4.68           |       |
| 90 m-Xylene & p-Xylene         | 106 | 8.073     | 8.073         | 0.000         | 98 | 126505   | 5.00         | 4.79           |       |
| 91 o-Xylene                    | 106 | 8.493     | 8.493         | 0.000         | 97 | 118407   | 5.00         | 4.64           |       |
| 92 Styrene                     | 104 | 8.530     | 8.529         | 0.001         | 86 | 195585   | 5.00         | 4.57           |       |
| 95 Bromoform                   | 173 | 8.767     | 8.767         | 0.000         | 89 | 30392    | 5.00         | 4.26           |       |
| 94 Isopropylbenzene            | 105 | 8.883     | 8.882         | 0.001         | 96 | 314452   | 5.00         | 4.65           |       |
| 101 Bromobenzene               | 156 | 9.223     | 9.223         | 0.000         | 92 | 86417    | 5.00         | 4.86           |       |
| 97 1,1,2,2-Tetrachloroethane   | 83  | 9.314     | 9.308         | 0.006         | 63 | 86873    | 5.00         | 4.76           |       |
| 99 N-Propylbenzene             | 91  | 9.321     | 9.326         | -0.005        | 99 | 372488   | 5.00         | 4.63           |       |
| 100 1,2,3-Trichloropropane     | 110 | 9.339     | 9.339         | 0.000         | 68 | 28757    | 5.00         | 4.75           |       |
| 98 trans-1,4-Dichloro-2-butene | 53  | 9.363     | 9.357         | 0.006         | 71 | 21437    | 5.00         | 4.51           |       |
| 103 2-Chlorotoluene            | 126 | 9.424     | 9.424         | 0.000         | 93 | 77329    | 5.00         | 4.67           |       |
| 102 1,3,5-Trimethylbenzene     | 105 | 9.515     | 9.515         | 0.000         | 93 | 270006   | 5.00         | 4.61           |       |
| 105 4-Chlorotoluene            | 126 | 9.546     | 9.545         | 0.001         | 97 | 83226    | 5.00         | 4.82           |       |
| 106 tert-Butylbenzene          | 134 | 9.844     | 9.844         | 0.000         | 92 | 60043    | 5.00         | 4.54           |       |
| 107 1,2,4-Trimethylbenzene     | 105 | 9.905     | 9.904         | 0.001         | 52 | 274685   | 5.00         | 4.68           |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 109 sec-Butylbenzene             | 105 | 10.063       | 10.063           | 0.000            | 94 | 346463   | 5.00            | 4.60              |       |
| 111 1,3-Dichlorobenzene          | 146 | 10.197       | 10.190           | 0.007            | 96 | 165595   | 5.00            | 4.61              |       |
| 110 4-Isopropyltoluene           | 119 | 10.215       | 10.215           | 0.000            | 96 | 298111   | 5.00            | 4.72              |       |
| 113 1,4-Dichlorobenzene          | 146 | 10.288       | 10.288           | 0.000            | 89 | 173971   | 5.00            | 4.66              |       |
| 115 n-Butylbenzene               | 91  | 10.610       | 10.610           | 0.000            | 96 | 257341   | 5.00            | 4.54              |       |
| 116 1,2-Dichlorobenzene          | 146 | 10.647       | 10.647           | 0.000            | 96 | 163148   | 5.00            | 4.74              |       |
| 117 1,2-Dibromo-3-Chloropropane  | 75  | 11.401       | 11.395           | 0.006            | 58 | 13513    | 5.00            | 4.42              |       |
| 119 1,2,4-Trichlorobenzene       | 180 | 12.070       | 12.070           | 0.000            | 92 | 118010   | 5.00            | 4.52              |       |
| 120 Hexachlorobutadiene          | 225 | 12.192       | 12.192           | 0.000            | 89 | 52135    | 5.00            | 4.53              |       |
| 121 Naphthalene                  | 128 | 12.283       | 12.283           | 0.000            | 98 | 285532   | 5.00            | 4.68              |       |
| 122 1,2,3-Trichlorobenzene       | 180 | 12.484       | 12.490           | -0.006           | 95 | 117324   | 5.00            | 4.57              |       |
| S 126 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 9.21              |       |
| S 125 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 9.95              |       |
| S 123 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 23.6              |       |
| S 124 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 9.43              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00228

Amount Added: 5.00

Units: uL

GAS CORP mix\_00524

Amount Added: 5.00

Units: uL

S\_8260\_IS\_00357

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00426

Amount Added: 1.00

Units: uL

Run Reagent

## Eurofins Buffalo

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Injection Date: 09-Aug-2022 18:16:30

Instrument ID: HP5973S

Lims ID: IC 3

Operator ID: AG

Client ID:

Worklist Smp#: 16

Purge Vol: 5.000 mL

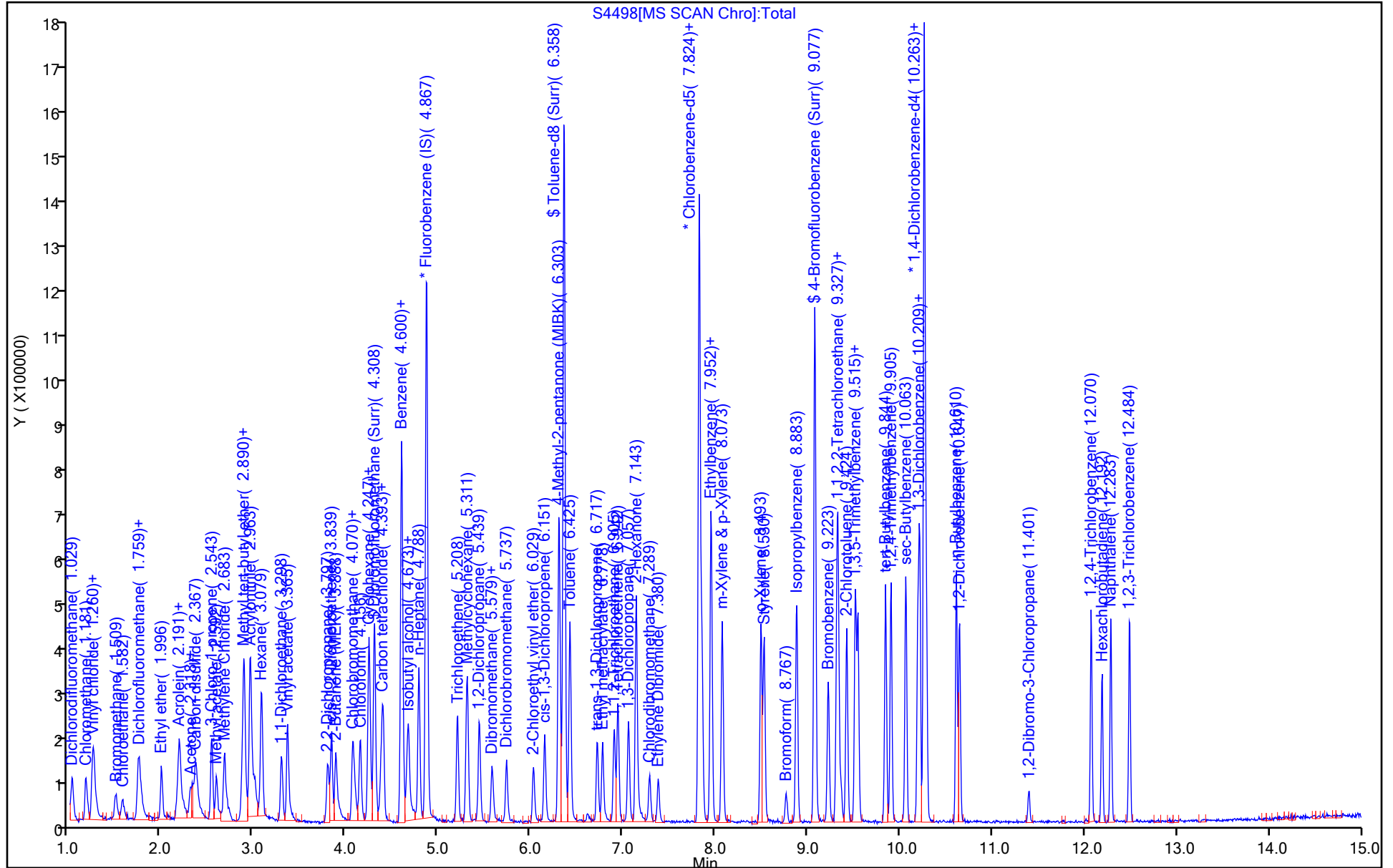
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)



## Eurofins Buffalo

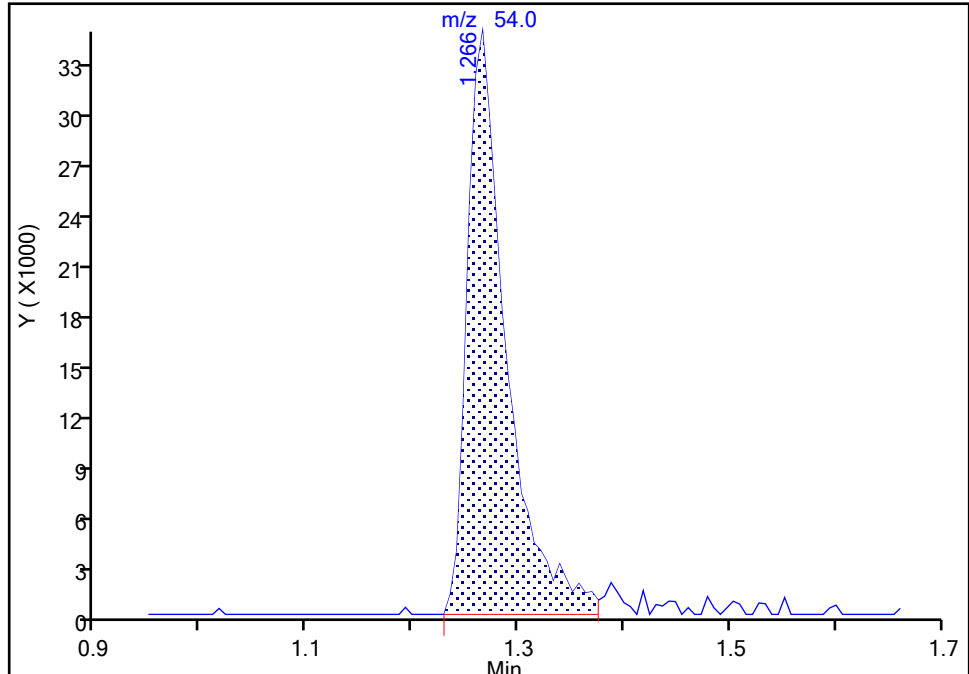
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Injection Date: 09-Aug-2022 18:16:30 Instrument ID: HP5973S  
Lims ID: IC 3  
Client ID:  
Operator ID: AG ALS Bottle#: 16 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**151 Butadiene, CAS: 106-99-0**

Signal: 1

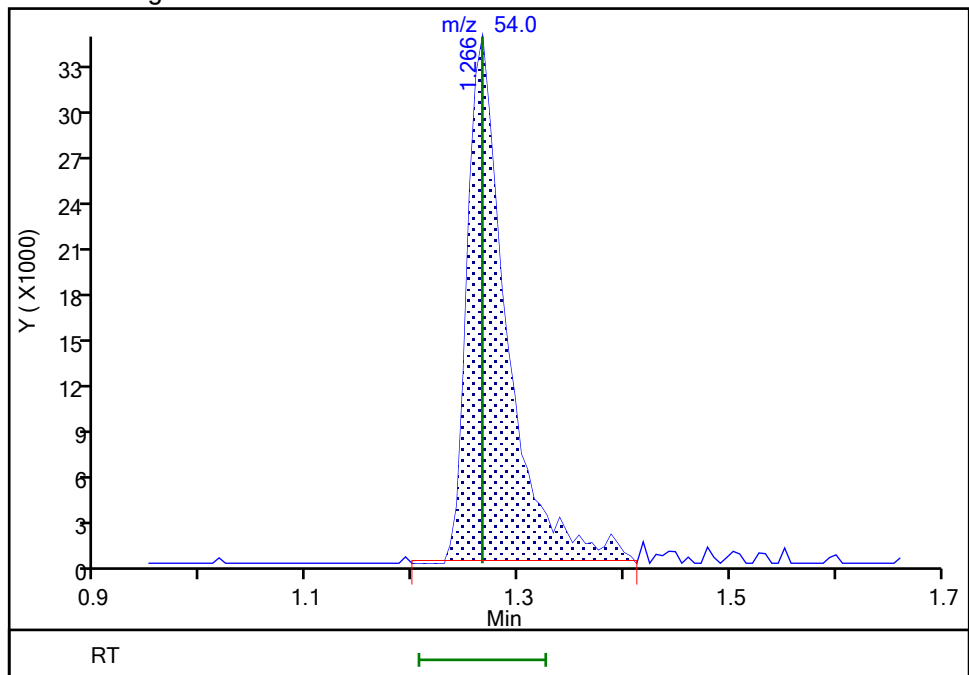
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Area: 88474  
Amount: 4.875213  
Amount Units: ug/L

## Processing Integration Results



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Area: 88081  
Amount: 4.822653  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:43:38  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 266 of 733



## Eurofins Buffalo

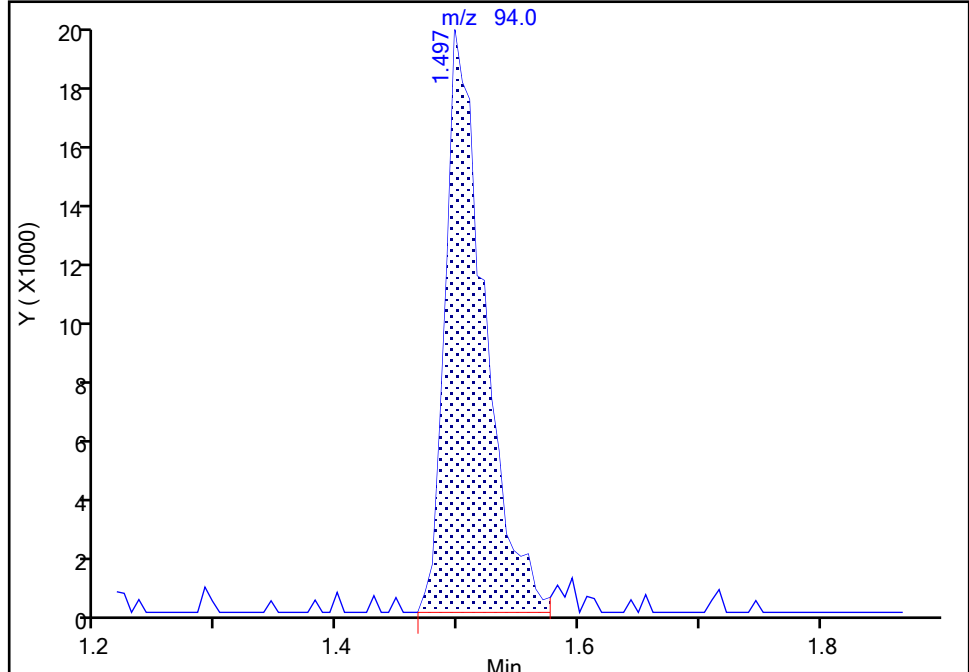
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Injection Date: 09-Aug-2022 18:16:30 Instrument ID: HP5973S  
Lims ID: IC 3  
Client ID:  
Operator ID: AG ALS Bottle#: 16 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**14 Bromomethane, CAS: 74-83-9**

Signal: 1

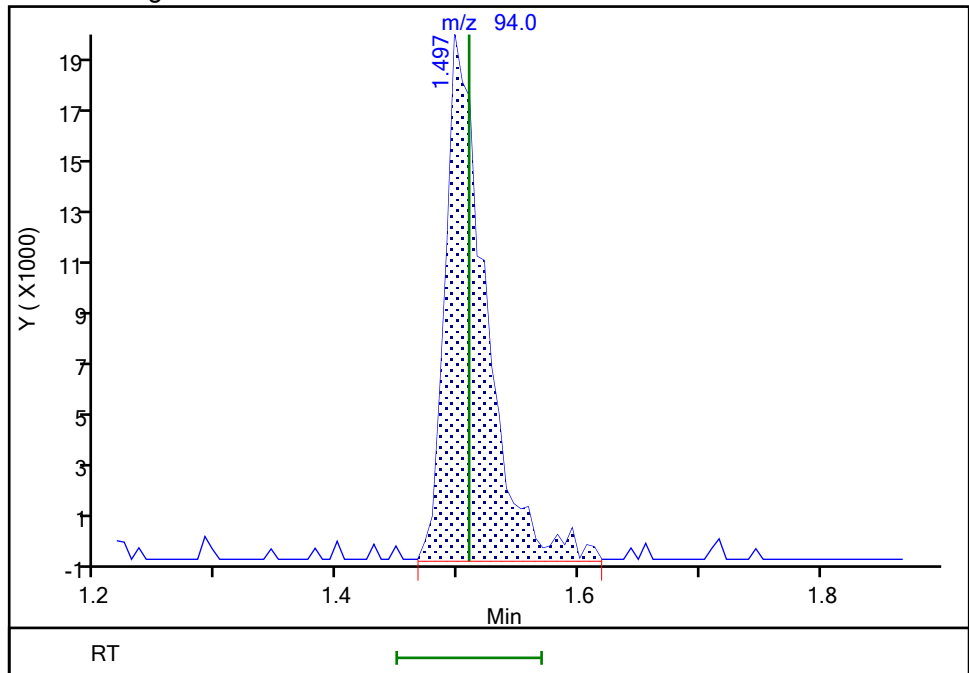
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Area: 44308  
Amount: 4.931647  
Amount Units: ug/L

## Processing Integration Results



RT: 1.50  
Area: 46318  
Amount: 5.127625  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:43:51  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

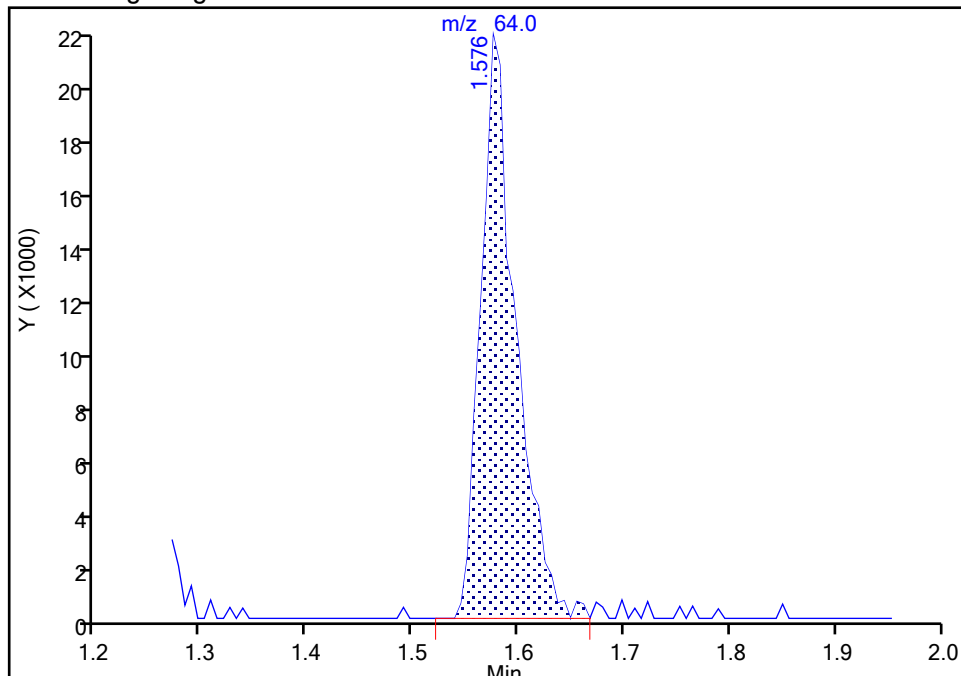
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Injection Date: 09-Aug-2022 18:16:30 Instrument ID: HP5973S  
Lims ID: IC 3  
Client ID:  
Operator ID: AG ALS Bottle#: 16 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**15 Chloroethane, CAS: 75-00-3**

Signal: 1

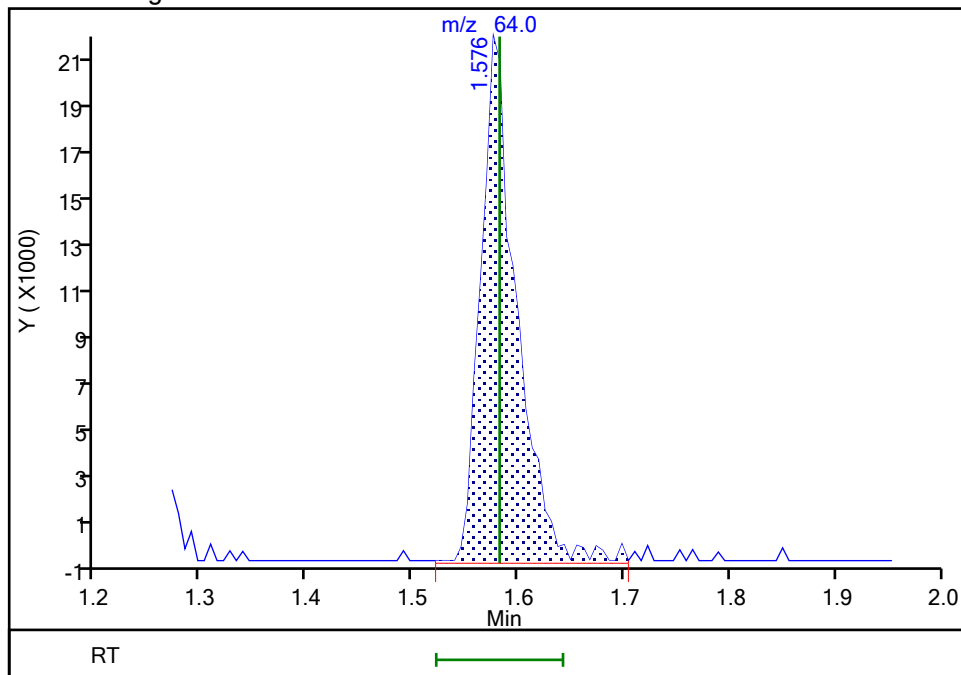
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Amount: 4.797504  
Amount Units: ug/L

## Processing Integration Results



RT: 1.58  
Area: 50890  
Amount: 5.220838  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:44:01  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

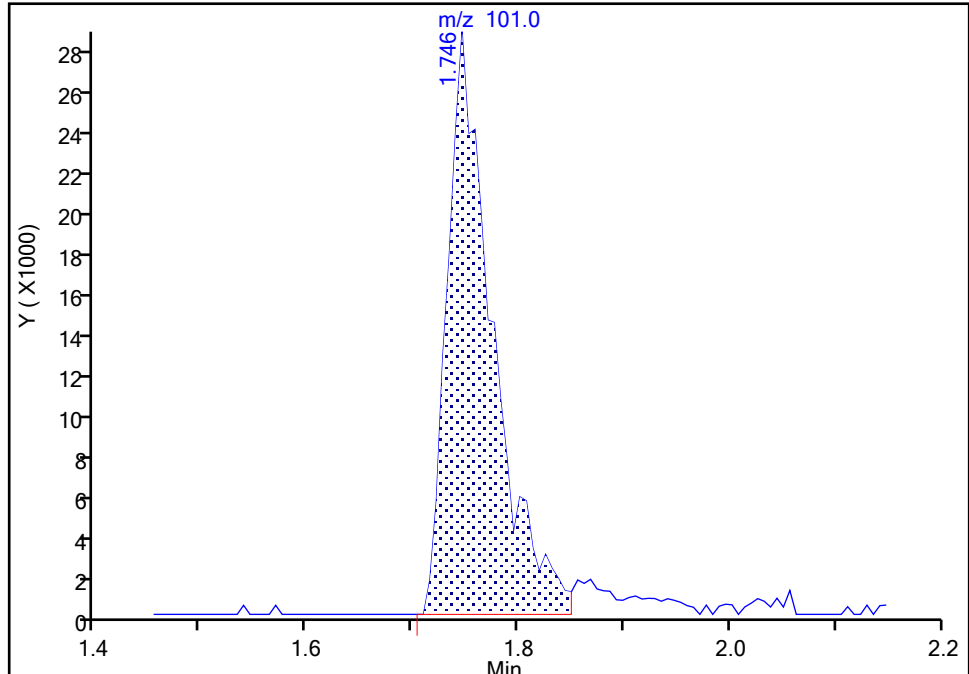
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Injection Date: 09-Aug-2022 18:16:30 Instrument ID: HP5973S  
Lims ID: IC 3  
Client ID:  
Operator ID: AG ALS Bottle#: 16 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**17 Trichlorofluoromethane, CAS: 75-69-4**

Signal: 1

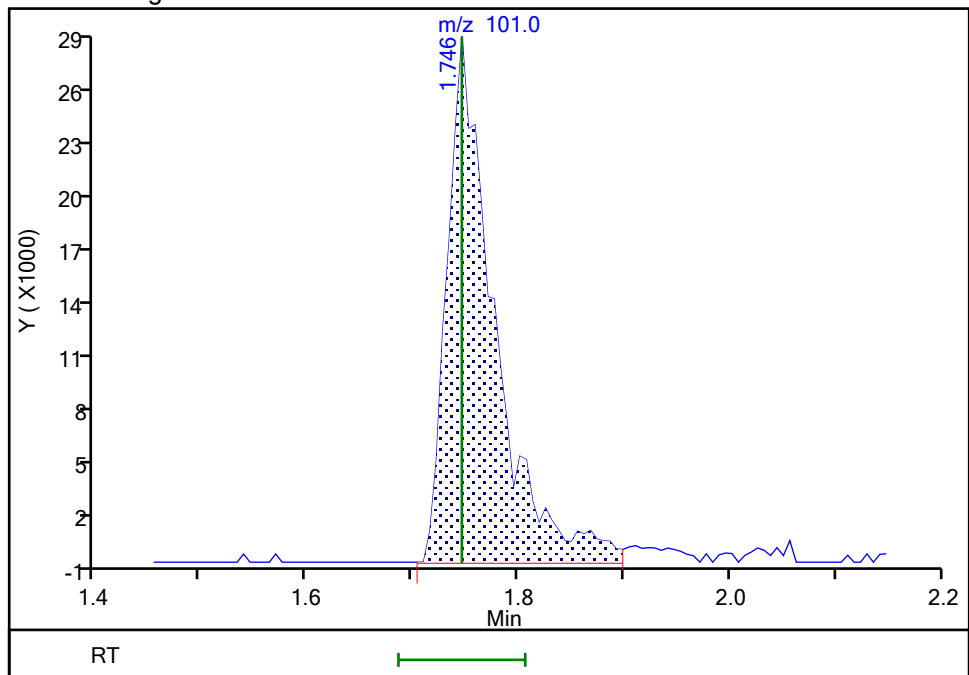
RT: 1.75  
Area: 85805  
Amount: 4.527885  
Amount Units: ug/L

## Processing Integration Results



RT: 1.75  
Area: 90146  
Amount: 4.646190  
Amount Units: ug/L

## Manual Integration Results



## Eurofins Buffalo

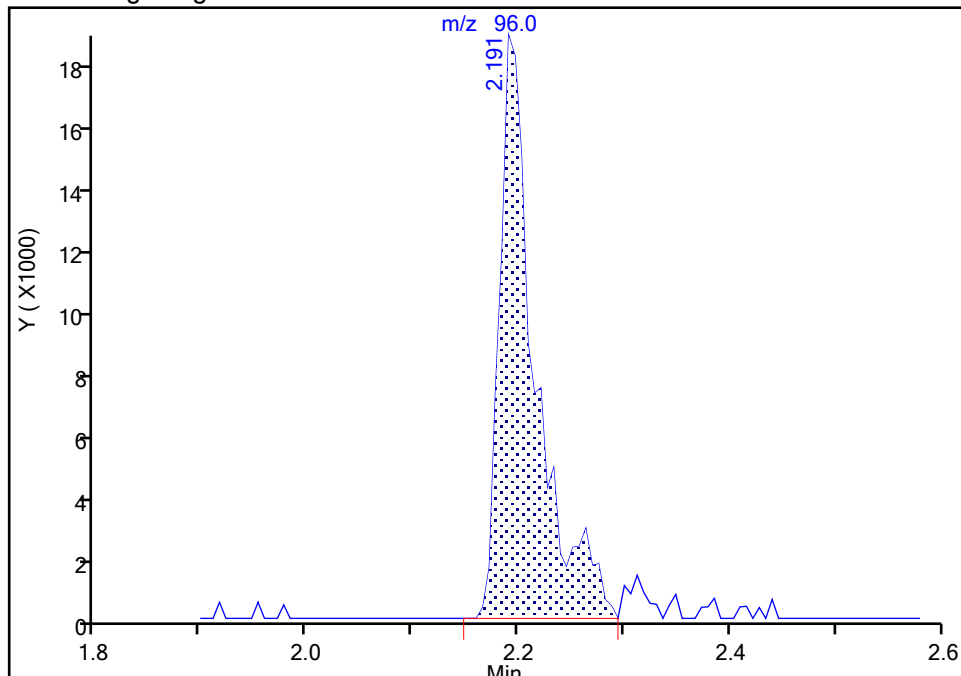
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Lims ID: IC 3  
Client ID:  
Operator ID: AG ALS Bottle#: 16 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**22 1,1-Dichloroethene, CAS: 75-35-4**

Signal: 1

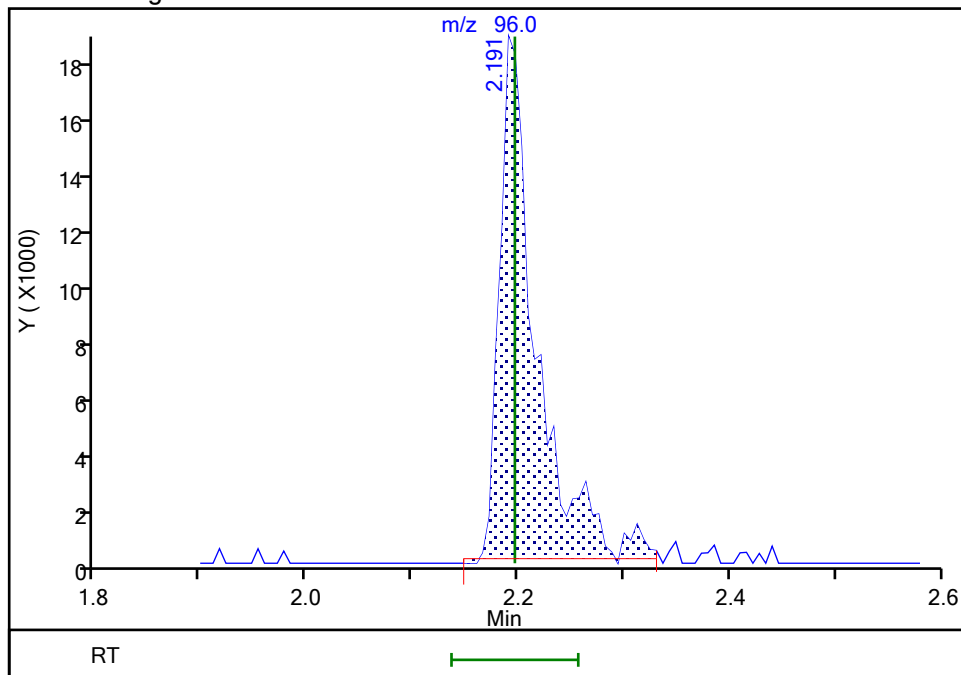
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Amount Units: ug/L

## Processing Integration Results



RT: 2.19  
Area: 44356  
Amount: 4.328794  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:44:40  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

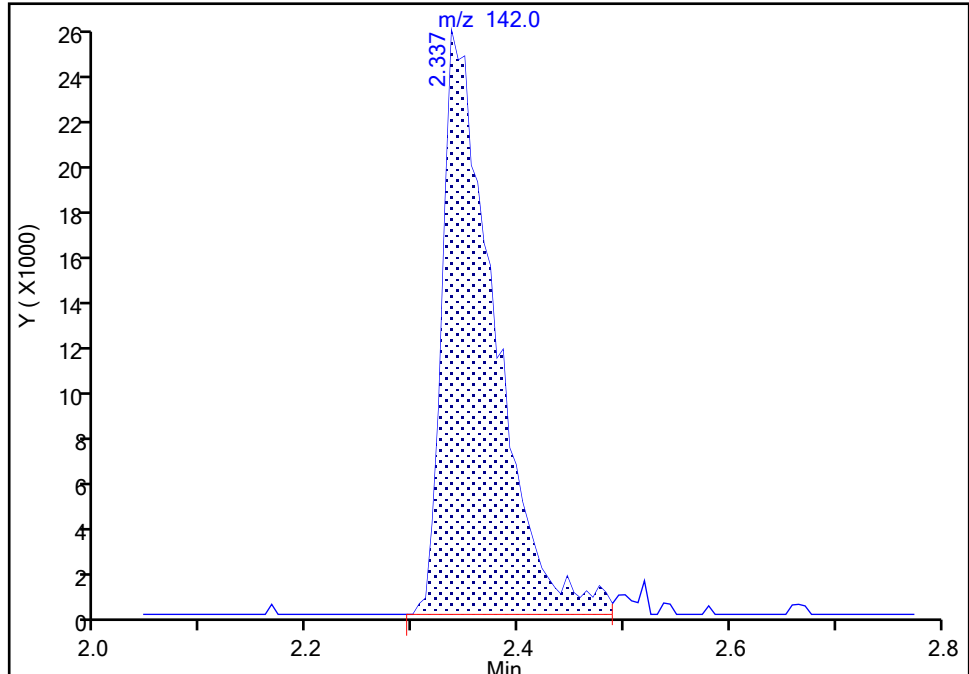
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Lims ID: IC 3  
Client ID:  
Operator ID: AG ALS Bottle#: 16 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**25 Iodomethane, CAS: 74-88-4**

Signal: 1

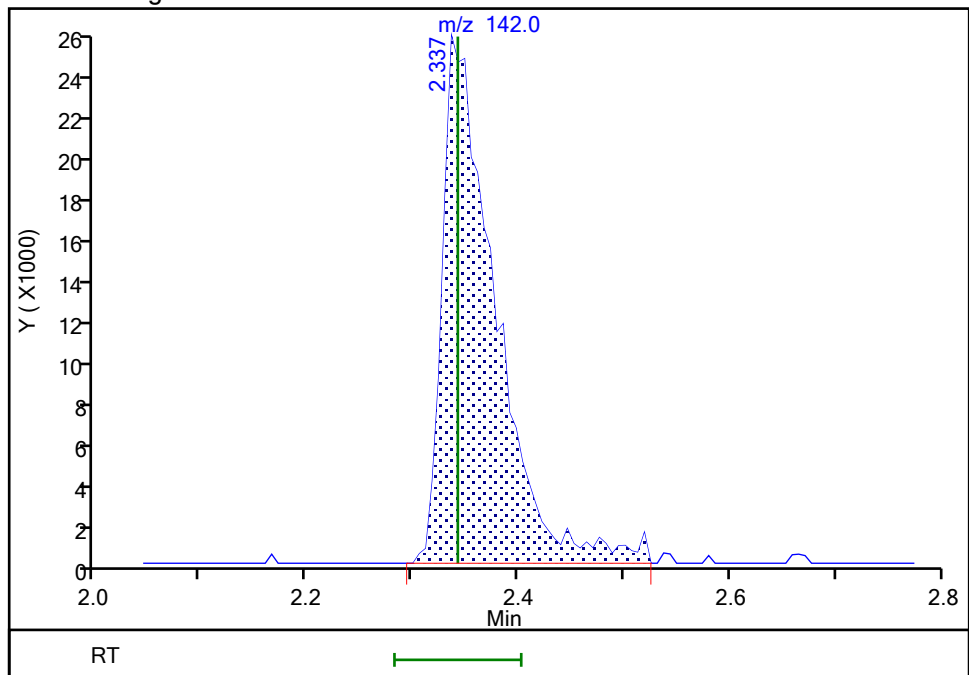
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Amount Units: ug/L

## Processing Integration Results



RT: 2.34  
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Amount Units: ug/L

## Manual Integration Results



## Eurofins Buffalo

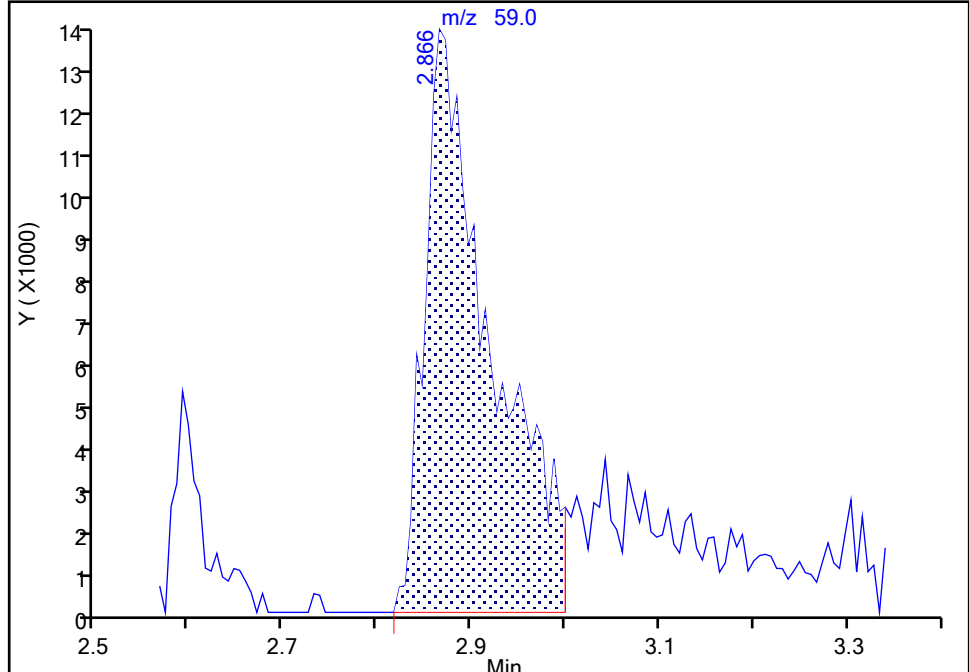
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Lims ID: IC 3  
Client ID:  
Operator ID: AG ALS Bottle#: 16 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**31 2-Methyl-2-propanol, CAS: 75-65-0**

Signal: 1

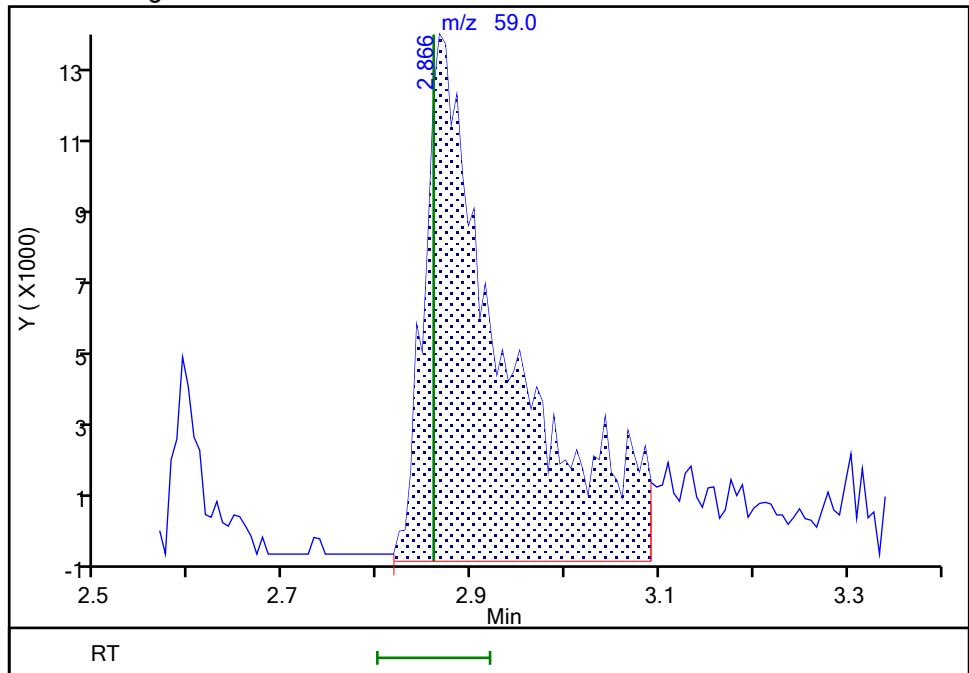
RT: 2.87  
Area: 66957  
Amount: 38.337425  
Amount Units: ug/L

## Processing Integration Results



RT: 2.87  
Area: 83039  
Amount: 46.454349  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:45:16  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

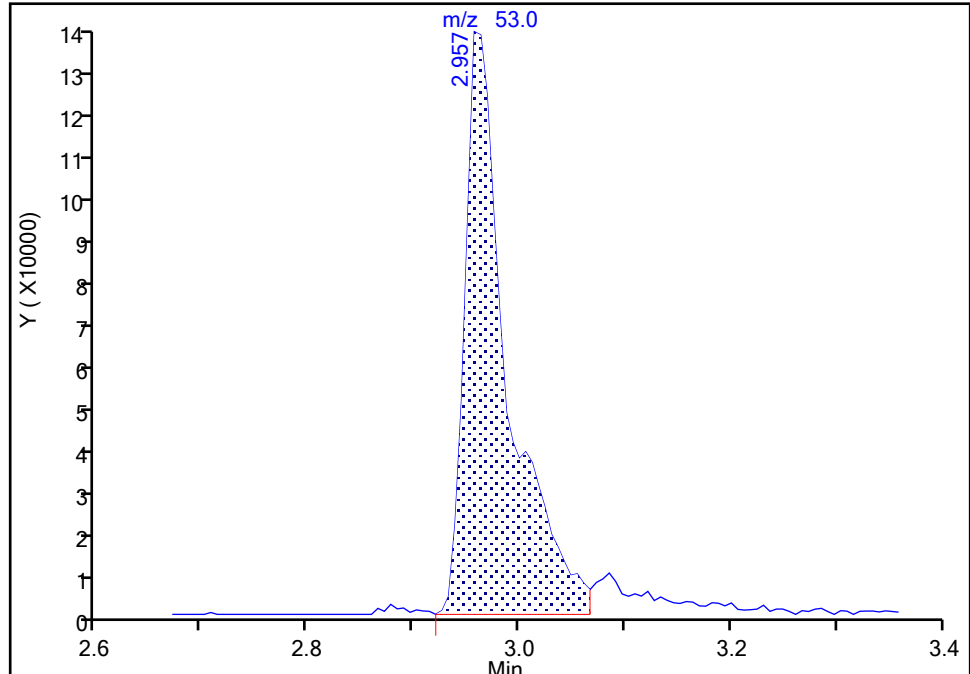
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4498.D  
Injection Date: 09-Aug-2022 18:16:30 Instrument ID: HP5973S  
Lims ID: IC 3  
Client ID:  
Operator ID: AG ALS Bottle#: 16 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**33 Acrylonitrile, CAS: 107-13-1**

Signal: 1

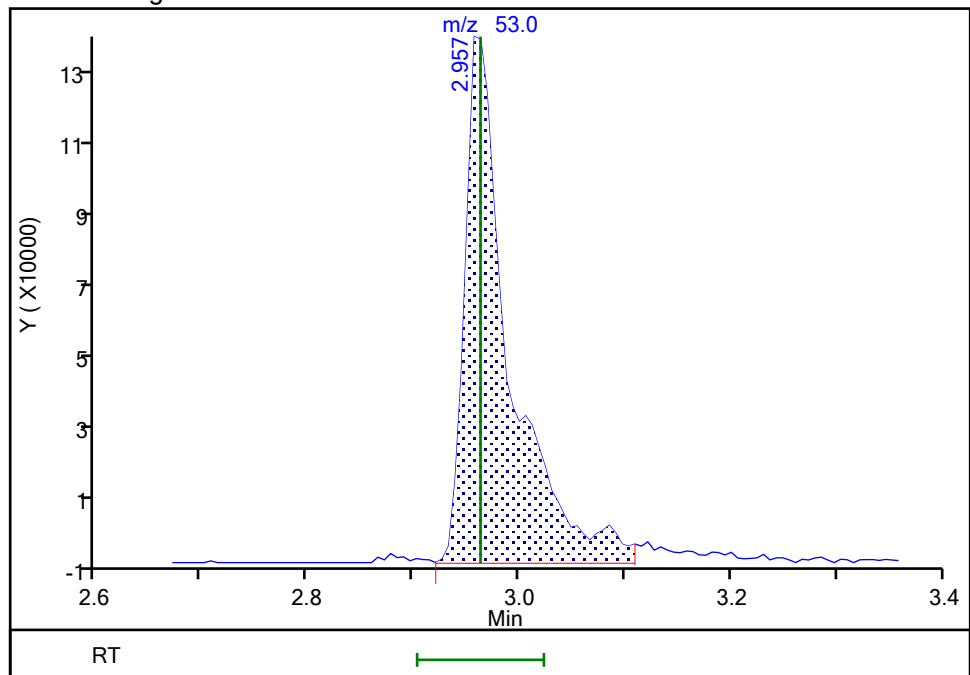
RT: 2.96  
Area: 382887  
Amount: 46.781002  
Amount Units: ug/L

## Processing Integration Results



RT: 2.96  
Area: 401779  
Amount: 48.822423  
Amount Units: ug/L

## Manual Integration Results



## Eurofins Buffalo

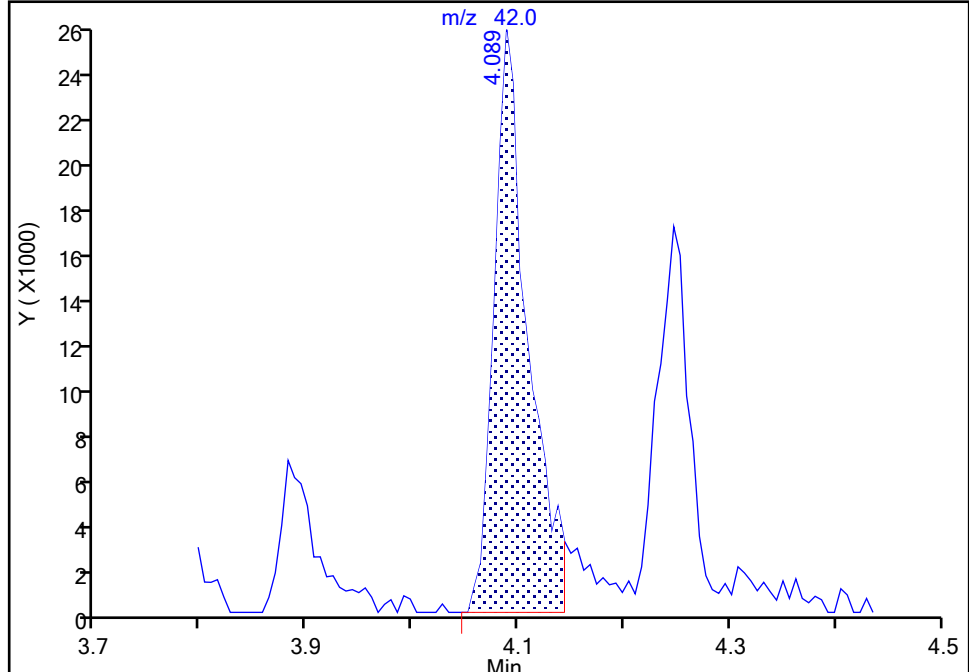
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Injection Date: 09-Aug-2022 18:16:30 Instrument ID: HP5973S  
Lims ID: IC 3  
Client ID:  
Operator ID: AG ALS Bottle#: 16 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**49 Tetrahydrofuran, CAS: 109-99-9**

Signal: 1

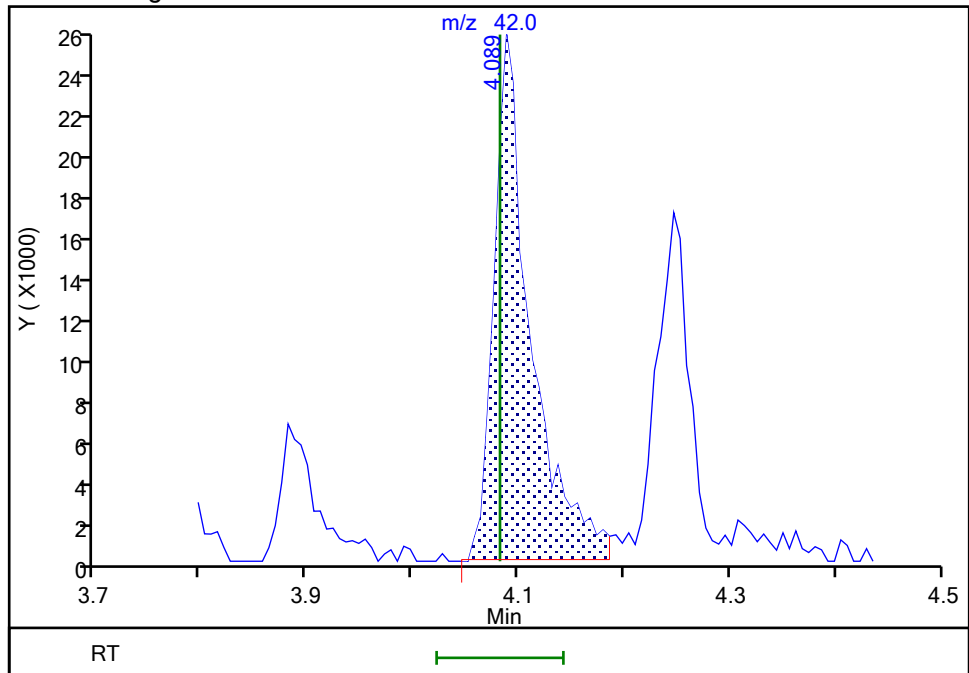
RT: 4.09  
Area: 57108  
Amount: 8.586047  
Amount Units: ug/L

## Processing Integration Results



RT: 4.09  
Area: 61265  
Amount: 9.141321  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:45:52  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

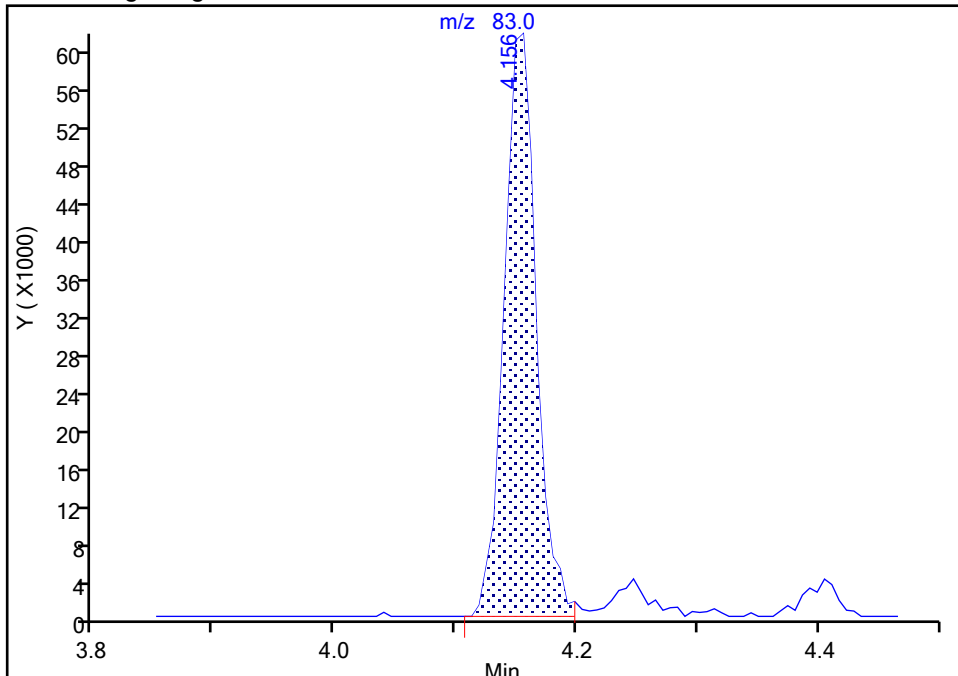
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Injection Date: 09-Aug-2022 18:16:30 Instrument ID: HP5973S  
Lims ID: IC 3  
Client ID:  
Operator ID: AG ALS Bottle#: 16 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**50 Chloroform, CAS: 67-66-3**

Signal: 1

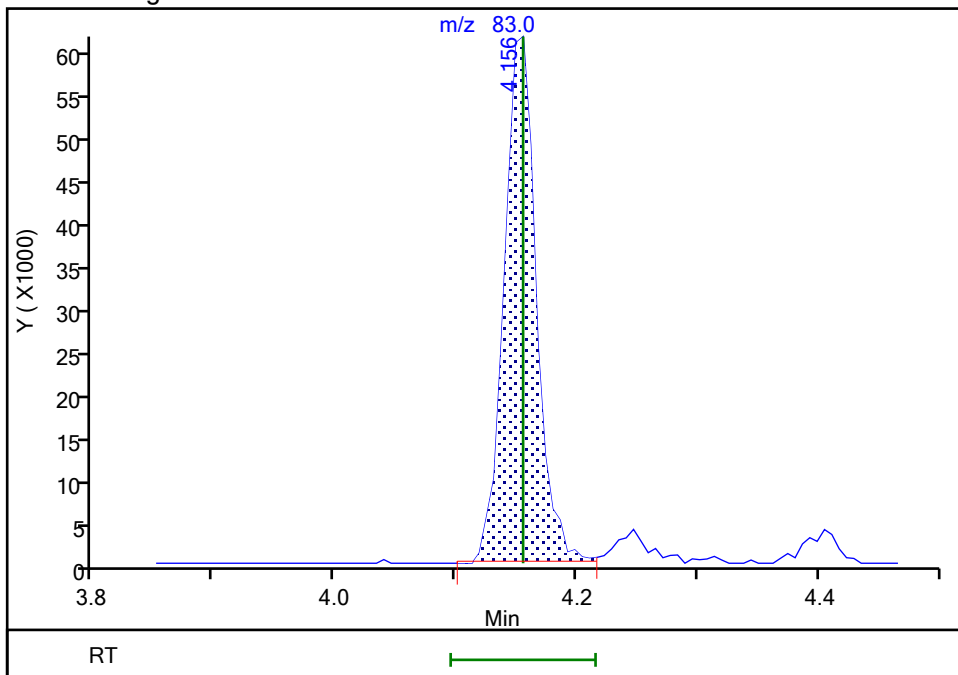
RT: 4.16  
Area: 113294  
Amount: 4.743784  
Amount Units: ug/L

## Processing Integration Results



RT: 4.16  
Area: 112302  
Amount: 4.707971  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:46:02  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

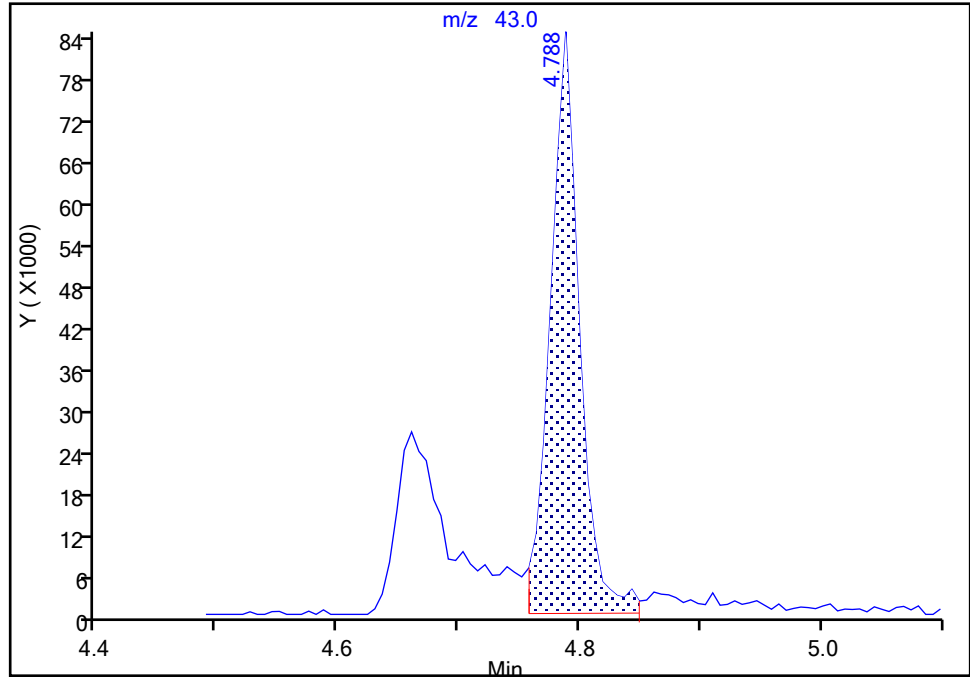
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Injection Date: 09-Aug-2022 18:16:30 Instrument ID: HP5973S  
Lims ID: IC 3  
Client ID:  
Operator ID: AG ALS Bottle#: 16 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**59 n-Heptane, CAS: 142-82-5**

Signal: 1

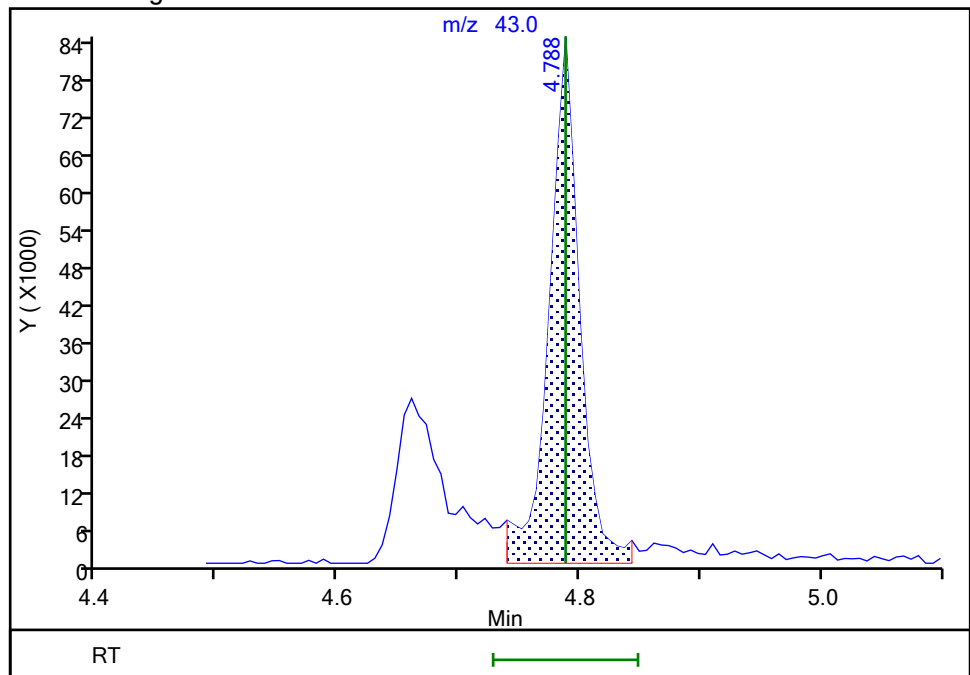
RT: 4.79  
Area: 141741  
Amount: 4.483794  
Amount Units: ug/L

## Processing Integration Results



RT: 4.79  
Area: 148619  
Amount: 4.676838  
Amount Units: ug/L

## Manual Integration Results



## Eurofins Buffalo

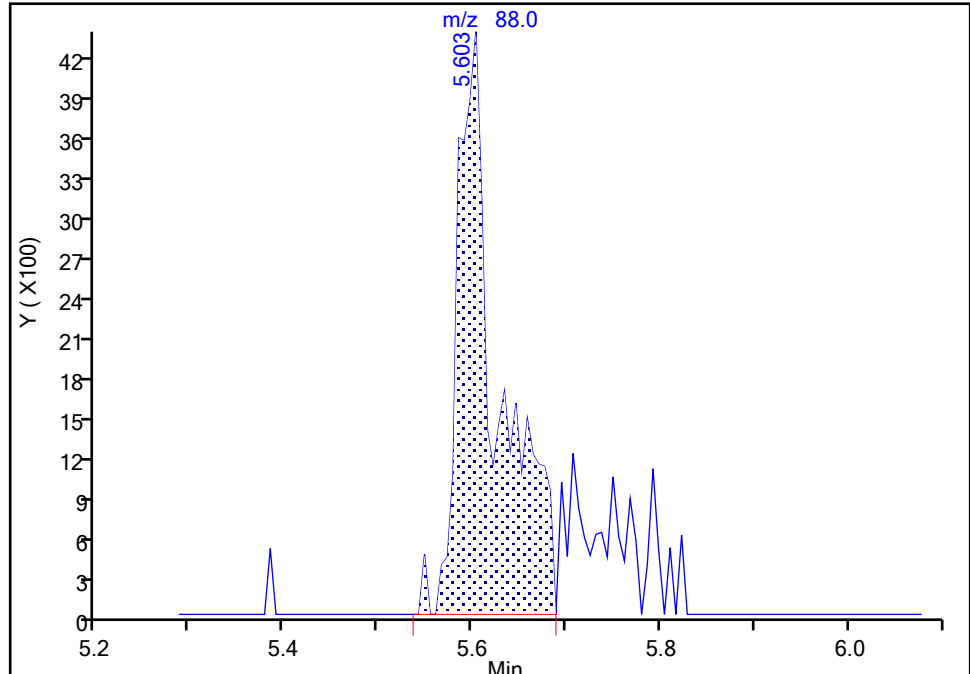
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Injection Date: 09-Aug-2022 18:16:30 Instrument ID: HP5973S  
Lims ID: IC 3  
Client ID:  
Operator ID: AG ALS Bottle#: 16 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**66 1,4-Dioxane, CAS: 123-91-1**

Signal: 1

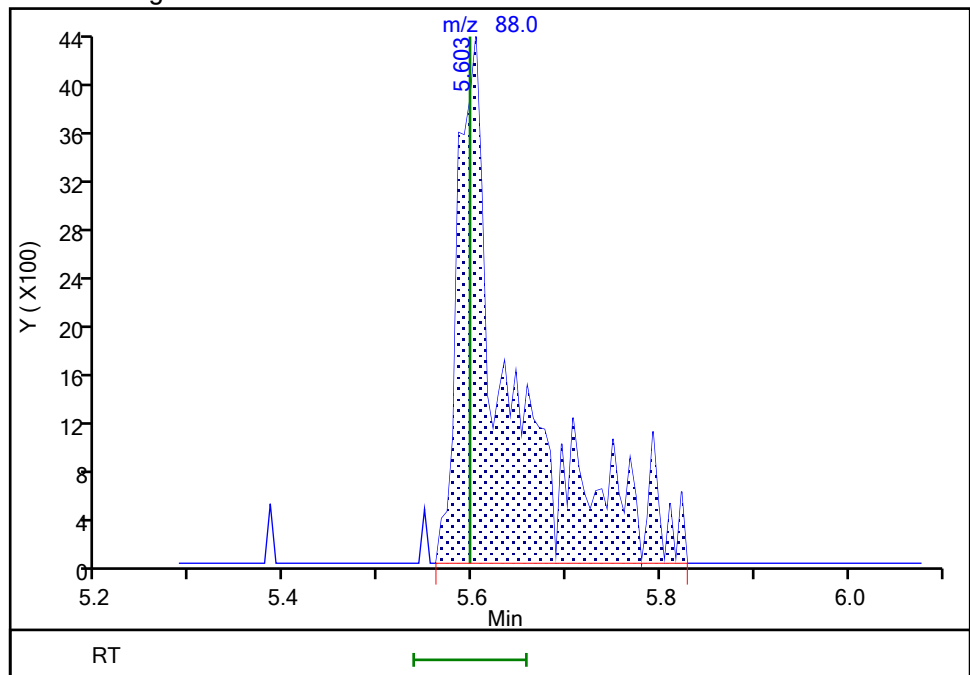
RT: 5.60  
Area: 13203  
Amount: 110.1557  
Amount Units: ug/L

## Processing Integration Results



RT: 5.60  
Area: 17646  
Amount: 120.8113  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:31:38  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4499.D  
 Lims ID: IC 4  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 09-Aug-2022 18:40:30 ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC 4  
 Misc. Info.: 480-0106979-017  
 Operator ID: AG Instrument ID: HP5973S  
 Sublist: chrom-S-8260\*sub26  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 10-Aug-2022 14:57:08 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1608

First Level Reviewer: FGO5

Date: 10-Aug-2022 09:53:17

| Compound                           | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 153 Fluorobenzene (IS)           | 70  | 4.873        | 4.867            | 0.006            | 98 | 192025   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5               | 82  | 7.824        | 7.824            | 0.000            | 88 | 371172   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4         | 152 | 10.263       | 10.263           | 0.000            | 78 | 416766   | 25.0            | 25.0              |       |
| \$ 154 Dibromofluoromethane (Surr) | 113 | 4.308        | 4.307            | 0.001            | 57 | 239872   | 25.0            | 24.6              |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)  | 67  | 4.606        | 4.606            | 0.000            | 78 | 165882   | 25.0            | 24.9              |       |
| \$ 5 Toluene-d8 (Surr)             | 98  | 6.364        | 6.358            | 0.006            | 88 | 954309   | 25.0            | 26.4              |       |
| \$ 6 4-Bromofluorobenzene (Surr)   | 174 | 9.077        | 9.077            | 0.000            | 91 | 314127   | 25.0            | 26.1              |       |
| 10 Dichlorodifluoromethane         | 85  | 1.041        | 1.035            | 0.007            | 97 | 153515   | 10.0            | 9.75              |       |
| 12 Chloromethane                   | 50  | 1.187        | 1.187            | 0.000            | 99 | 231282   | 10.0            | 9.26              |       |
| 13 Vinyl chloride                  | 62  | 1.254        | 1.247            | 0.007            | 85 | 150597   | 10.0            | 9.49              |       |
| 151 Butadiene                      | 54  | 1.266        | 1.266            | 0.000            | 85 | 179994   | 10.0            | 9.61              | M     |
| 14 Bromomethane                    | 94  | 1.509        | 1.509            | 0.000            | 89 | 90158    | 10.0            | 9.74              |       |
| 15 Chloroethane                    | 64  | 1.588        | 1.582            | 0.006            | 88 | 92666    | 10.0            | 9.27              |       |
| 17 Trichlorofluoromethane          | 101 | 1.758        | 1.746            | 0.012            | 78 | 193553   | 10.0            | 9.73              |       |
| 16 Dichlorofluoromethane           | 67  | 1.765        | 1.758            | 0.007            | 96 | 213038   | 10.0            | 9.59              |       |
| 18 Ethyl ether                     | 59  | 2.002        | 2.002            | 0.000            | 95 | 137259   | 10.0            | 9.72              |       |
| 20 Acrolein                        | 56  | 2.172        | 2.166            | 0.006            | 91 | 91682    | 50.0            | 46.5              |       |
| 22 1,1-Dichloroethene              | 96  | 2.203        | 2.196            | 0.007            | 94 | 104497   | 10.0            | 9.95              | M     |
| 21 1,1,2-Trichloro-1,2,2-trifluoro | 101 | 2.190        | 2.196            | -0.006           | 60 | 108164   | 10.0            | 11.3              | M     |
| 23 Acetone                         | 43  | 2.318        | 2.312            | 0.006            | 98 | 286308   | 50.0            | 46.2              |       |
| 25 Iodomethane                     | 142 | 2.349        | 2.342            | 0.007            | 96 | 184011   | 10.0            | 9.87              |       |
| 26 Carbon disulfide                | 76  | 2.385        | 2.379            | 0.006            | 99 | 331323   | 10.0            | 9.78              |       |
| 28 3-Chloro-1-propene              | 41  | 2.549        | 2.543            | 0.006            | 87 | 238552   | 10.0            | 9.45              |       |
| 27 Methyl acetate                  | 43  | 2.598        | 2.592            | 0.006            | 99 | 323298   | 20.0            | 19.2              |       |
| 30 Methylene Chloride              | 84  | 2.683        | 2.683            | 0.000            | 92 | 134703   | 10.0            | 9.96              |       |
| 31 2-Methyl-2-propanol             | 59  | 2.860        | 2.860            | 0.000            | 84 | 185951   | 100.0           | 101.5             | M     |
| 32 Methyl tert-butyl ether         | 73  | 2.884        | 2.884            | 0.000            | 93 | 405660   | 10.0            | 9.62              |       |
| 34 trans-1,2-Dichloroethene        | 96  | 2.896        | 2.896            | 0.000            | 91 | 129516   | 10.0            | 9.84              |       |
| 33 Acrylonitrile                   | 53  | 2.963        | 2.963            | 0.000            | 97 | 827483   | 100.0           | 98.1              | M     |
| 35 Hexane                          | 57  | 3.085        | 3.085            | 0.000            | 88 | 261122   | 10.0            | 9.60              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane          | 63  | 3.304     | 3.304         | 0.000         | 97 | 267921   | 10.0         | 9.69           |       |
| 37 Vinyl acetate               | 43  | 3.365     | 3.365         | 0.001         | 97 | 683301   | 20.0         | 18.3           |       |
| 44 2,2-Dichloropropane         | 77  | 3.803     | 3.803         | 0.000         | 88 | 144453   | 10.0         | 9.44           |       |
| 45 cis-1,2-Dichloroethene      | 96  | 3.839     | 3.839         | 0.000         | 71 | 133085   | 10.0         | 9.00           |       |
| 43 2-Butanone (MEK)            | 43  | 3.888     | 3.888         | 0.000         | 96 | 498230   | 50.0         | 47.6           |       |
| 48 Chlorobromomethane          | 128 | 4.070     | 4.070         | 0.000         | 90 | 76032    | 10.0         | 9.39           |       |
| 49 Tetrahydrofuran             | 42  | 4.088     | 4.082         | 0.006         | 93 | 135666   | 20.0         | 19.7           |       |
| 50 Chloroform                  | 83  | 4.155     | 4.155         | 0.000         | 96 | 232882   | 10.0         | 9.52           |       |
| 52 Cyclohexane                 | 56  | 4.253     | 4.253         | 0.000         | 88 | 272745   | 10.0         | 9.57           |       |
| 51 1,1,1-Trichloroethane       | 97  | 4.247     | 4.253         | -0.006        | 76 | 184630   | 10.0         | 9.63           |       |
| 55 Carbon tetrachloride        | 117 | 4.381     | 4.380         | 0.000         | 94 | 154780   | 10.0         | 9.53           |       |
| 54 1,1-Dichloropropene         | 75  | 4.399     | 4.399         | 0.000         | 88 | 184619   | 10.0         | 9.71           |       |
| 57 Benzene                     | 78  | 4.600     | 4.599         | 0.001         | 92 | 553348   | 10.0         | 9.63           |       |
| 53 Isobutyl alcohol            | 43  | 4.654     | 4.660         | -0.006        | 62 | 162822   | 250.0        | 212.3          |       |
| 58 1,2-Dichloroethane          | 62  | 4.673     | 4.672         | 0.001         | 72 | 216223   | 10.0         | 9.38           |       |
| 59 n-Heptane                   | 43  | 4.788     | 4.788         | 0.000         | 96 | 337015   | 10.0         | 10.3           |       |
| 62 Trichloroethene             | 95  | 5.208     | 5.202         | 0.006         | 94 | 137446   | 10.0         | 9.70           |       |
| 64 Methylcyclohexane           | 83  | 5.311     | 5.311         | 0.000         | 98 | 245250   | 10.0         | 9.98           |       |
| 65 1,2-Dichloropropane         | 63  | 5.445     | 5.445         | 0.000         | 92 | 155040   | 10.0         | 9.76           |       |
| 67 Dibromomethane              | 93  | 5.579     | 5.579         | 0.000         | 90 | 83250    | 10.0         | 9.84           |       |
| 66 1,4-Dioxane                 | 88  | 5.597     | 5.597         | 0.000         | 35 | 30638    | 200.0        | 218.1          | M     |
| 68 Dichlorobromomethane        | 83  | 5.737     | 5.737         | 0.000         | 96 | 157446   | 10.0         | 9.59           |       |
| 69 2-Chloroethyl vinyl ether   | 63  | 6.029     | 6.029         | 0.000         | 92 | 103582   | 10.0         | 9.69           |       |
| 72 cis-1,3-Dichloropropene     | 75  | 6.151     | 6.151         | 0.000         | 86 | 203277   | 10.0         | 9.97           |       |
| 73 4-Methyl-2-pentanone (MIBK) | 43  | 6.303     | 6.303         | 0.000         | 98 | 1104129  | 50.0         | 50.7           |       |
| 74 Toluene                     | 92  | 6.425     | 6.425         | 0.000         | 91 | 355049   | 10.0         | 10.4           |       |
| 77 trans-1,3-Dichloropropene   | 75  | 6.717     | 6.723         | -0.006        | 96 | 174510   | 10.0         | 10.1           |       |
| 75 Ethyl methacrylate          | 69  | 6.777     | 6.777         | 0.000         | 75 | 161671   | 10.0         | 9.83           |       |
| 79 1,1,2-Trichloroethane       | 83  | 6.905     | 6.899         | 0.006         | 92 | 105984   | 10.0         | 10.2           |       |
| 81 Tetrachloroethene           | 166 | 6.942     | 6.948         | -0.006        | 85 | 149137   | 10.0         | 10.0           |       |
| 82 1,3-Dichloropropane         | 76  | 7.057     | 7.057         | 0.000         | 97 | 225745   | 10.0         | 10.3           |       |
| 80 2-Hexanone                  | 43  | 7.142     | 7.136         | 0.006         | 99 | 792558   | 50.0         | 53.1           |       |
| 83 Chlorodibromomethane        | 129 | 7.288     | 7.288         | 0.000         | 91 | 106654   | 10.0         | 10.3           |       |
| 84 Ethylene Dibromide          | 107 | 7.380     | 7.380         | 0.000         | 98 | 126909   | 10.0         | 10.1           |       |
| 87 Chlorobenzene               | 112 | 7.854     | 7.854         | 0.000         | 93 | 410847   | 10.0         | 10.2           |       |
| 88 Ethylbenzene                | 91  | 7.952     | 7.952         | 0.000         | 98 | 653220   | 10.0         | 10.2           |       |
| 89 1,1,1,2-Tetrachloroethane   | 131 | 7.952     | 7.958         | -0.006        | 43 | 128683   | 10.0         | 9.73           |       |
| 90 m-Xylene & p-Xylene         | 106 | 8.073     | 8.073         | 0.000         | 98 | 263458   | 10.0         | 10.4           |       |
| 91 o-Xylene                    | 106 | 8.493     | 8.493         | 0.000         | 98 | 252100   | 10.0         | 10.3           |       |
| 92 Styrene                     | 104 | 8.530     | 8.529         | 0.001         | 91 | 424468   | 10.0         | 10.3           |       |
| 95 Bromoform                   | 173 | 8.767     | 8.767         | 0.000         | 93 | 68424    | 10.0         | 9.97           |       |
| 94 Isopropylbenzene            | 105 | 8.882     | 8.882         | 0.000         | 96 | 682005   | 10.0         | 9.94           |       |
| 101 Bromobenzene               | 156 | 9.223     | 9.223         | 0.000         | 94 | 177451   | 10.0         | 9.83           |       |
| 97 1,1,2,2-Tetrachloroethane   | 83  | 9.308     | 9.308         | 0.000         | 77 | 176755   | 10.0         | 9.55           |       |
| 99 N-Propylbenzene             | 91  | 9.326     | 9.326         | 0.000         | 98 | 783899   | 10.0         | 9.59           |       |
| 100 1,2,3-Trichloropropane     | 110 | 9.339     | 9.339         | 0.000         | 68 | 60506    | 10.0         | 9.85           |       |
| 98 trans-1,4-Dichloro-2-butene | 53  | 9.357     | 9.357         | 0.000         | 80 | 48027    | 10.0         | 9.97           |       |
| 103 2-Chlorotoluene            | 126 | 9.424     | 9.424         | 0.000         | 94 | 163507   | 10.0         | 9.74           |       |
| 102 1,3,5-Trimethylbenzene     | 105 | 9.515     | 9.515         | 0.000         | 94 | 580480   | 10.0         | 9.76           |       |
| 105 4-Chlorotoluene            | 126 | 9.545     | 9.545         | 0.000         | 98 | 171586   | 10.0         | 9.79           |       |
| 106 tert-Butylbenzene          | 134 | 9.844     | 9.844         | 0.000         | 94 | 126378   | 10.0         | 9.41           |       |
| 107 1,2,4-Trimethylbenzene     | 105 | 9.904     | 9.904         | 0.000         | 45 | 589704   | 10.0         | 9.91           |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 109 sec-Butylbenzene             | 105 | 10.063       | 10.063           | 0.000            | 94 | 761267   | 10.0            | 9.95              |       |
| 111 1,3-Dichlorobenzene          | 146 | 10.196       | 10.190           | 0.006            | 97 | 350489   | 10.0            | 9.61              |       |
| 110 4-Isopropyltoluene           | 119 | 10.215       | 10.215           | 0.000            | 93 | 640085   | 10.0            | 9.98              |       |
| 113 1,4-Dichlorobenzene          | 146 | 10.288       | 10.288           | 0.000            | 92 | 355475   | 10.0            | 9.39              |       |
| 115 n-Butylbenzene               | 91  | 10.610       | 10.610           | 0.000            | 95 | 575501   | 10.0            | 10.0              |       |
| 116 1,2-Dichlorobenzene          | 146 | 10.647       | 10.647           | 0.000            | 97 | 340039   | 10.0            | 9.74              |       |
| 117 1,2-Dibromo-3-Chloropropane  | 75  | 11.395       | 11.395           | 0.000            | 66 | 30321    | 10.0            | 9.78              |       |
| 119 1,2,4-Trichlorobenzene       | 180 | 12.070       | 12.070           | 0.000            | 93 | 253024   | 10.0            | 9.56              |       |
| 120 Hexachlorobutadiene          | 225 | 12.192       | 12.192           | 0.000            | 93 | 116653   | 10.0            | 10.0              |       |
| 121 Naphthalene                  | 128 | 12.283       | 12.283           | 0.000            | 98 | 598344   | 10.0            | 9.67              |       |
| 122 1,2,3-Trichlorobenzene       | 180 | 12.490       | 12.490           | 0.000            | 97 | 244949   | 10.0            | 9.40              |       |
| S 126 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 20.1              |       |
| S 125 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 18.8              |       |
| S 123 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 50.8              |       |
| S 124 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 20.6              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00228

Amount Added: 5.00

Units: uL

GAS CORP mix\_00524

Amount Added: 5.00

Units: uL

S\_8260\_IS\_00357

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00426

Amount Added: 1.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4499.D

Injection Date: 09-Aug-2022 18:40:30

Instrument ID: HP5973S

Lims ID: IC 4

Operator ID: AG

Client ID:

Worklist Smp#: 17

Purge Vol: 5.000 mL

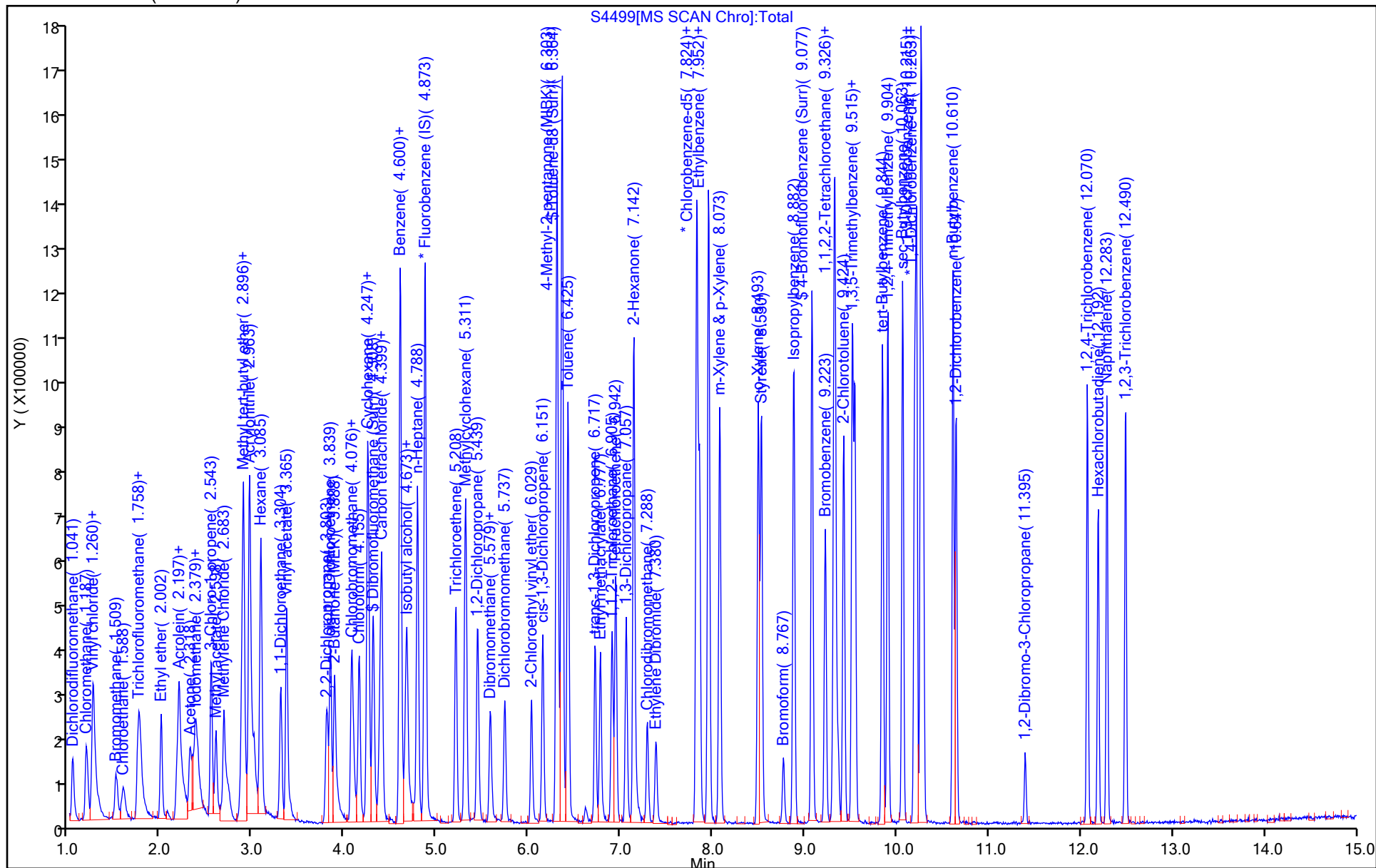
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



## Eurofins Buffalo

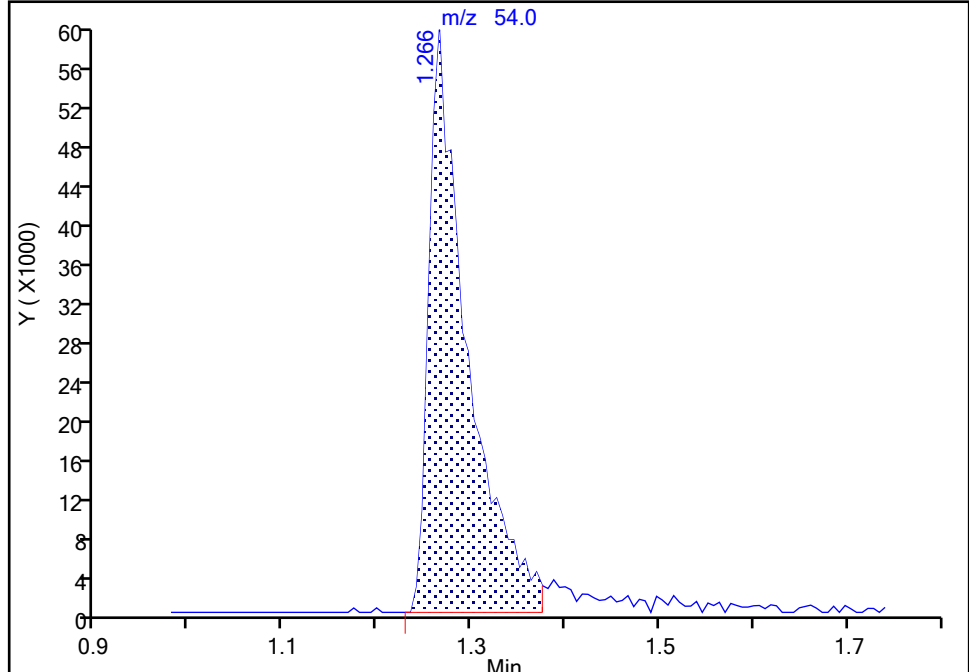
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Injection Date: 09-Aug-2022 18:40:30 Instrument ID: HP5973S  
Lims ID: IC 4  
Client ID:  
Operator ID: AG ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**151 Butadiene, CAS: 106-99-0**

Signal: 1

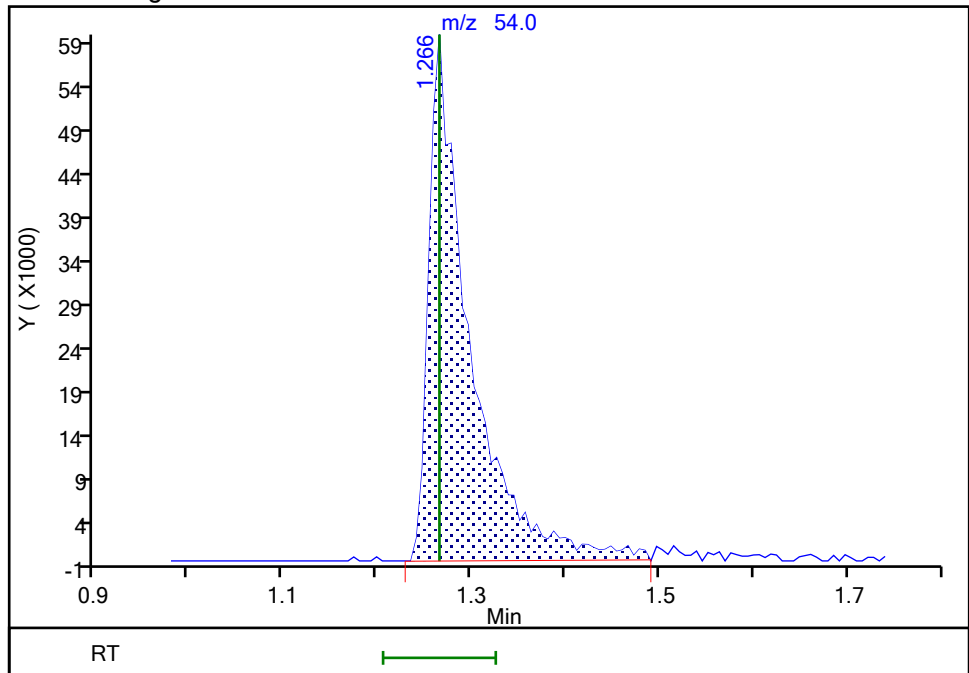
RT: 1.27  
Area: 169397  
Amount: 9.111090  
Amount Units: ug/L

## Processing Integration Results



RT: 1.27  
Area: 179994  
Amount: 9.612569  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:32:29  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

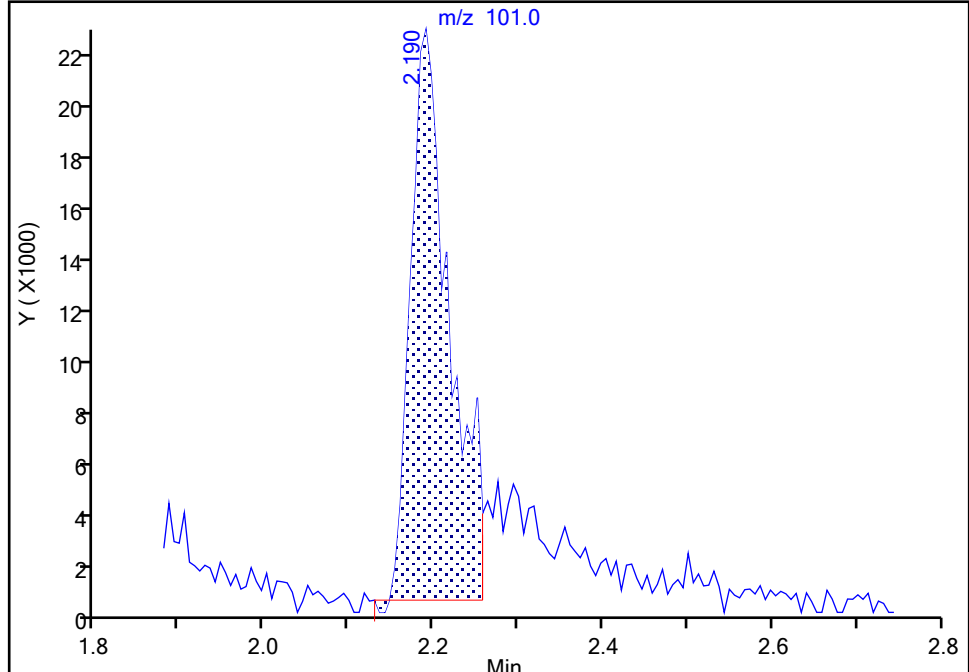
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Injection Date: 09-Aug-2022 18:40:30 Instrument ID: HP5973S  
Lims ID: IC 4  
Client ID:  
Operator ID: AG ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

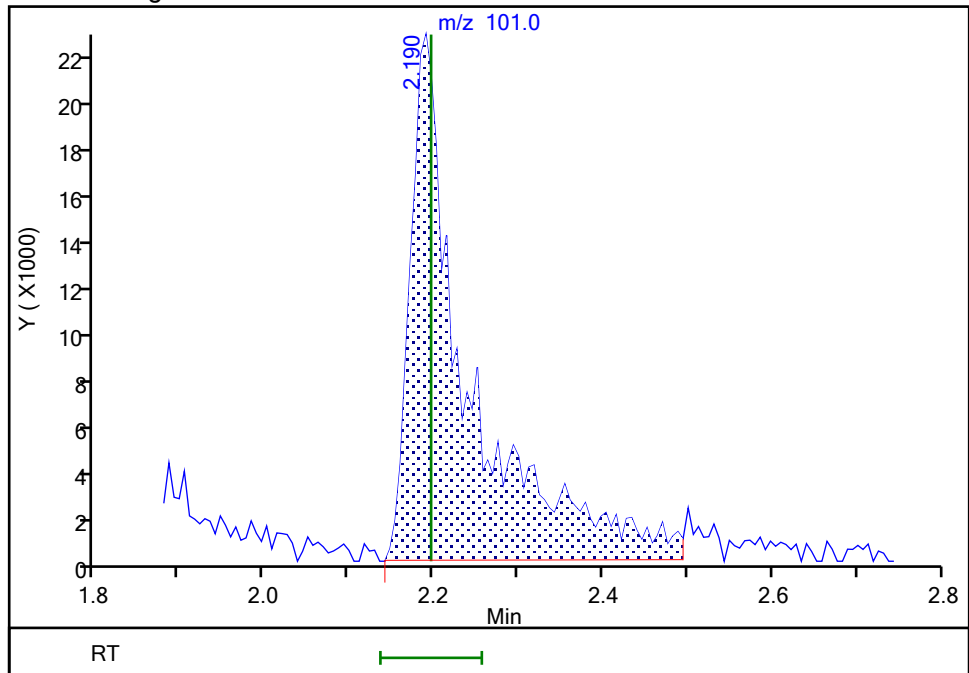
RT: 2.19  
Area: 71344  
Amount: 7.863382  
Amount Units: ug/L

## Processing Integration Results



RT: 2.19  
Area: 108164  
Amount: 11.346044  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:32:54  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

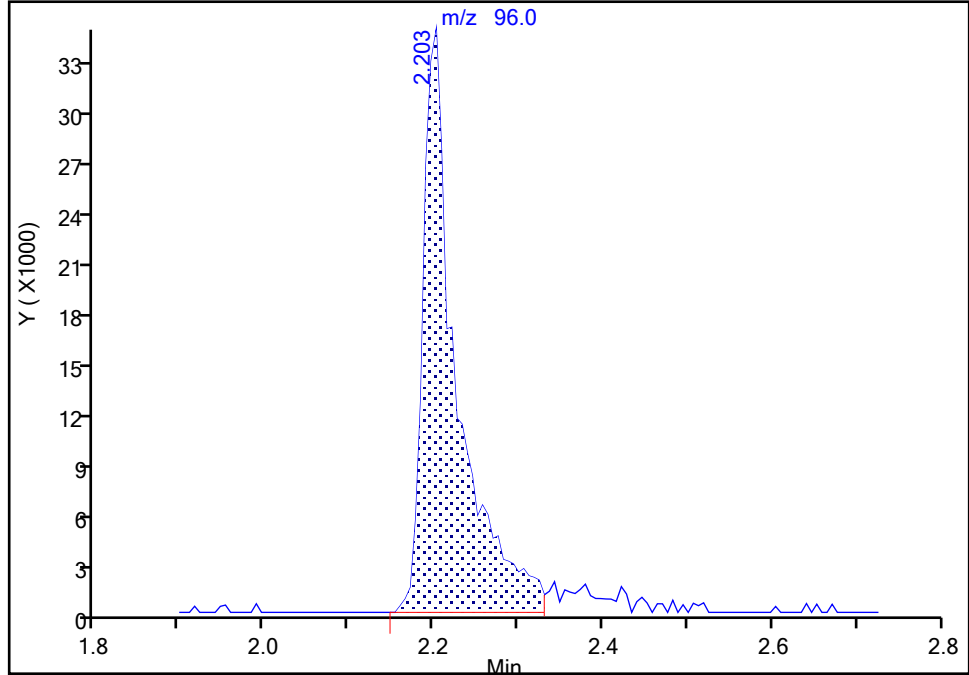
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Injection Date: 09-Aug-2022 18:40:30 Instrument ID: HP5973S  
Lims ID: IC 4  
Client ID:  
Operator ID: AG ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**22 1,1-Dichloroethene, CAS: 75-35-4**

Signal: 1

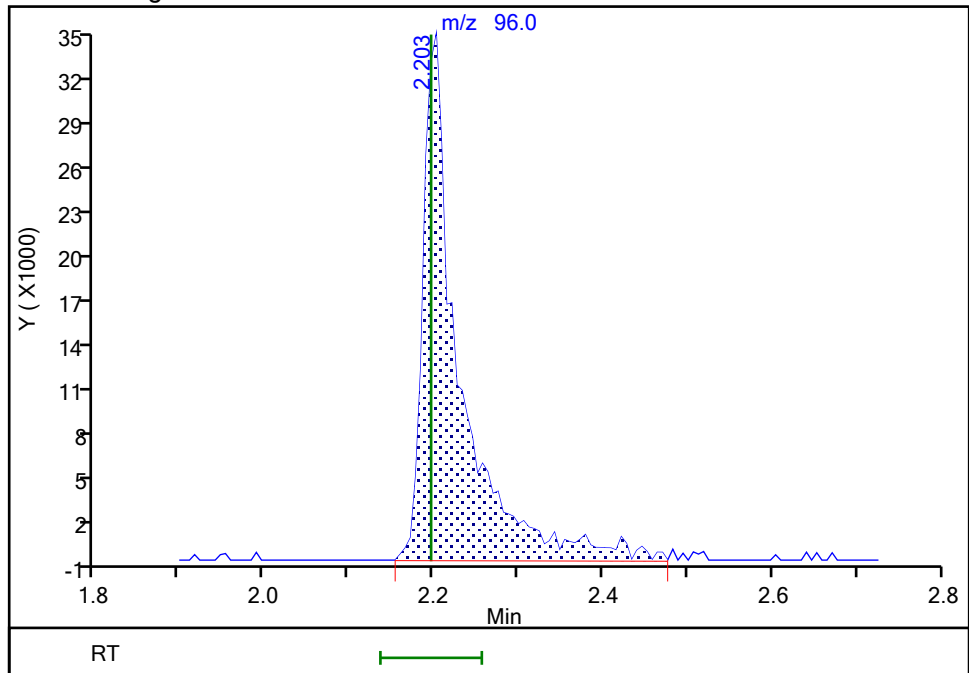
RT: 2.20  
Area: 95830  
Amount: 9.217131  
Amount Units: ug/L

## Processing Integration Results



RT: 2.20  
Area: 104497  
Amount: 9.947091  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:32:45  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

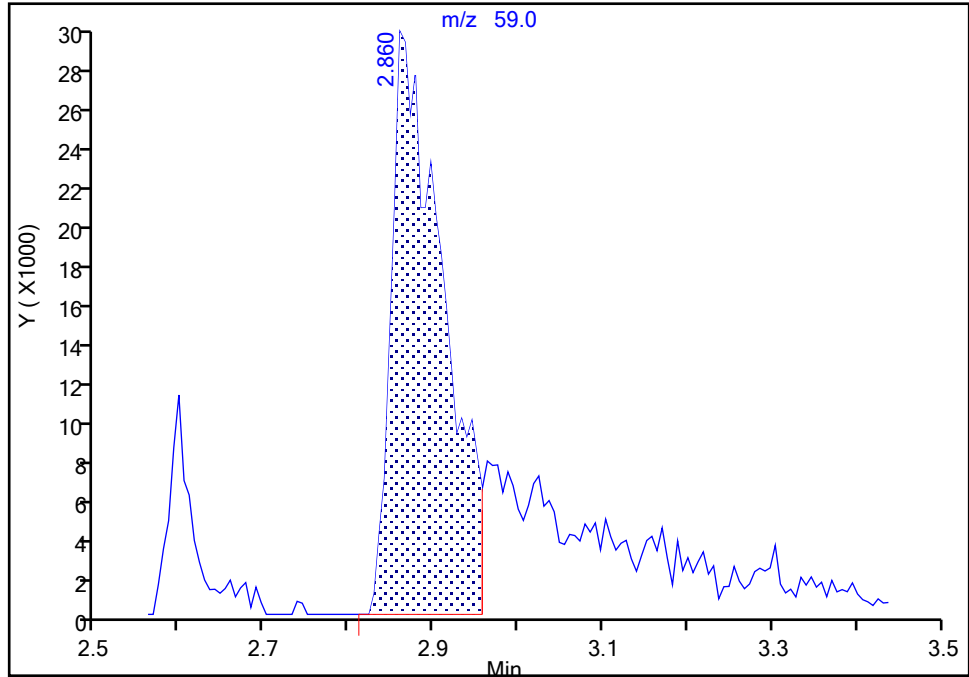
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4499.D  
Injection Date: 09-Aug-2022 18:40:30 Instrument ID: HP5973S  
Lims ID: IC 4  
Client ID:  
Operator ID: AG ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector MS SCAN

**31 2-Methyl-2-propanol, CAS: 75-65-0**

Signal: 1

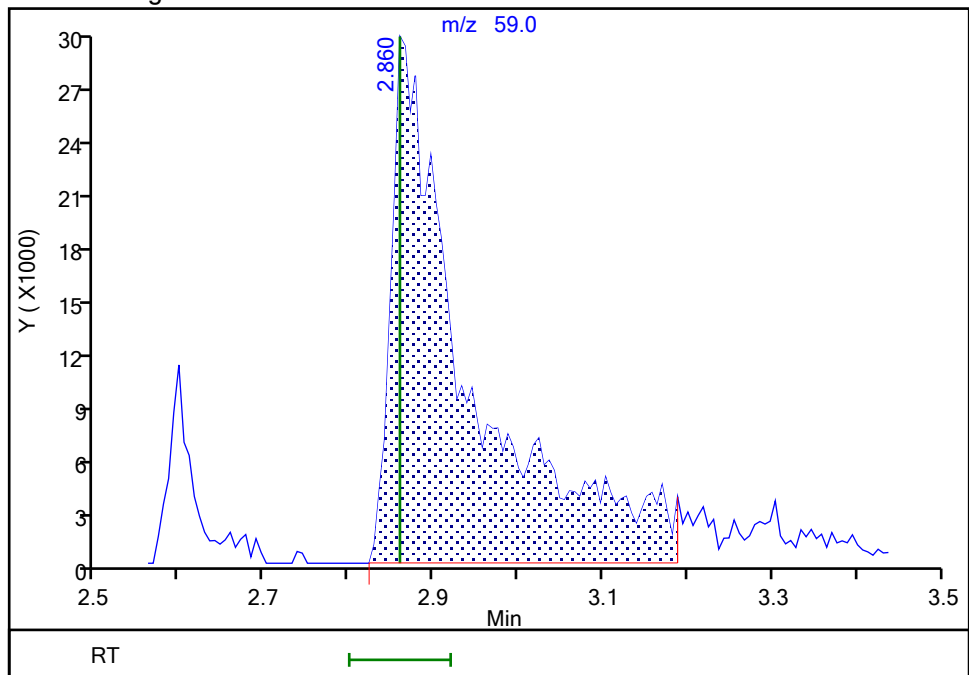
RT: 2.86  
Area: 123121  
Amount: 72.017577  
Amount Units: ug/L

## Processing Integration Results



RT: 2.86  
Area: 185951  
Amount: 101.4660  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:33:15  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

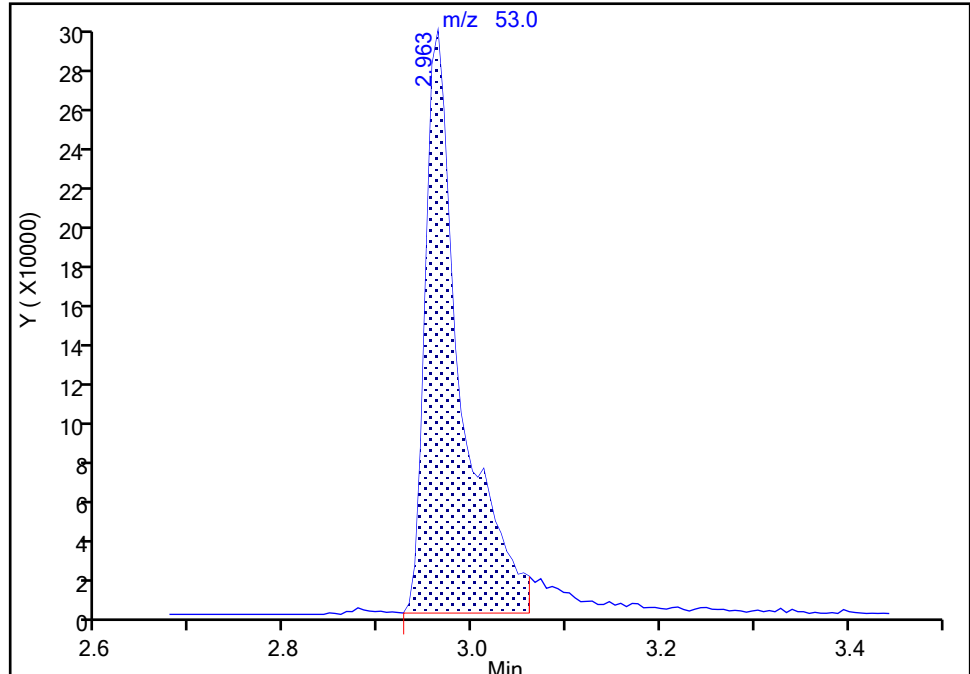
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Injection Date: 09-Aug-2022 18:40:30 Instrument ID: HP5973S  
Lims ID: IC 4  
Client ID:  
Operator ID: AG ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**33 Acrylonitrile, CAS: 107-13-1**

Signal: 1

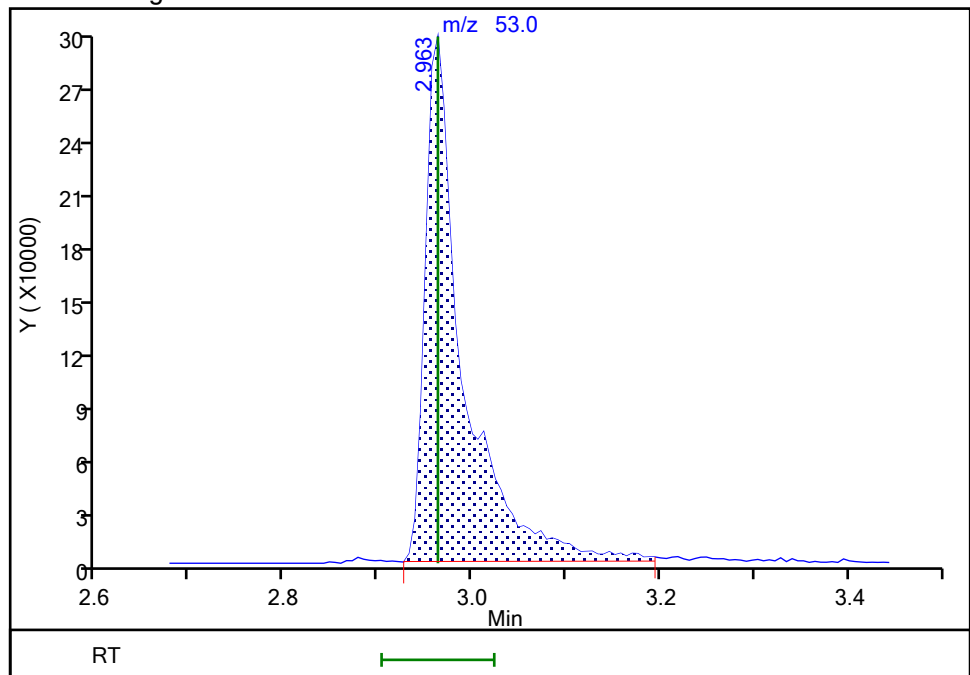
RT: 2.96  
Area: 775128  
Amount: 92.590204  
Amount Units: ug/L

## Processing Integration Results



RT: 2.96  
Area: 827483  
Amount: 98.077382  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:33:25  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

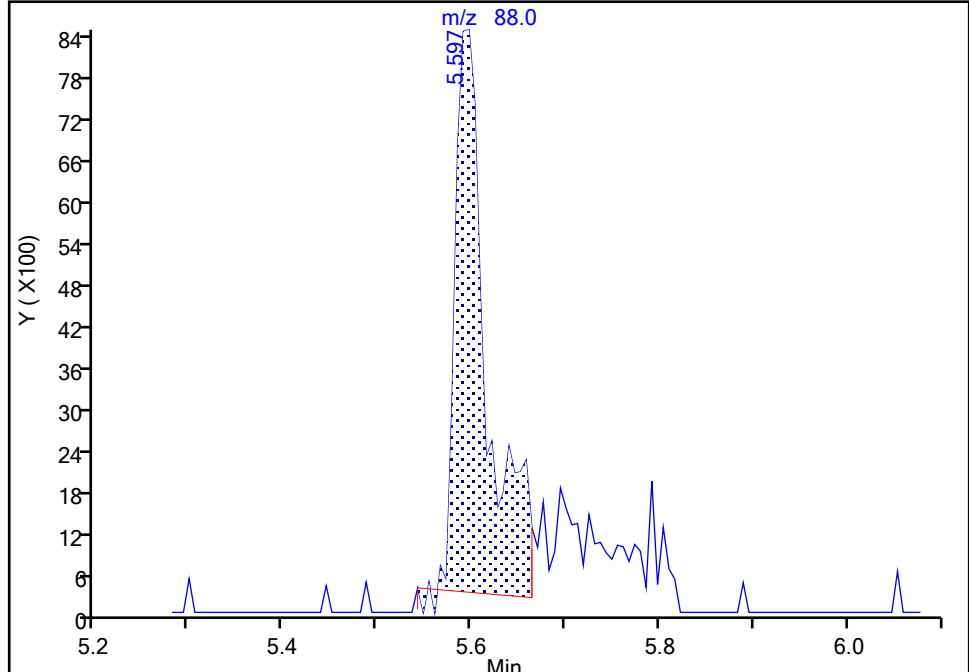
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Injection Date: 09-Aug-2022 18:40:30 Instrument ID: HP5973S  
Lims ID: IC 4  
Client ID:  
Operator ID: AG ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**66 1,4-Dioxane, CAS: 123-91-1**

Signal: 1

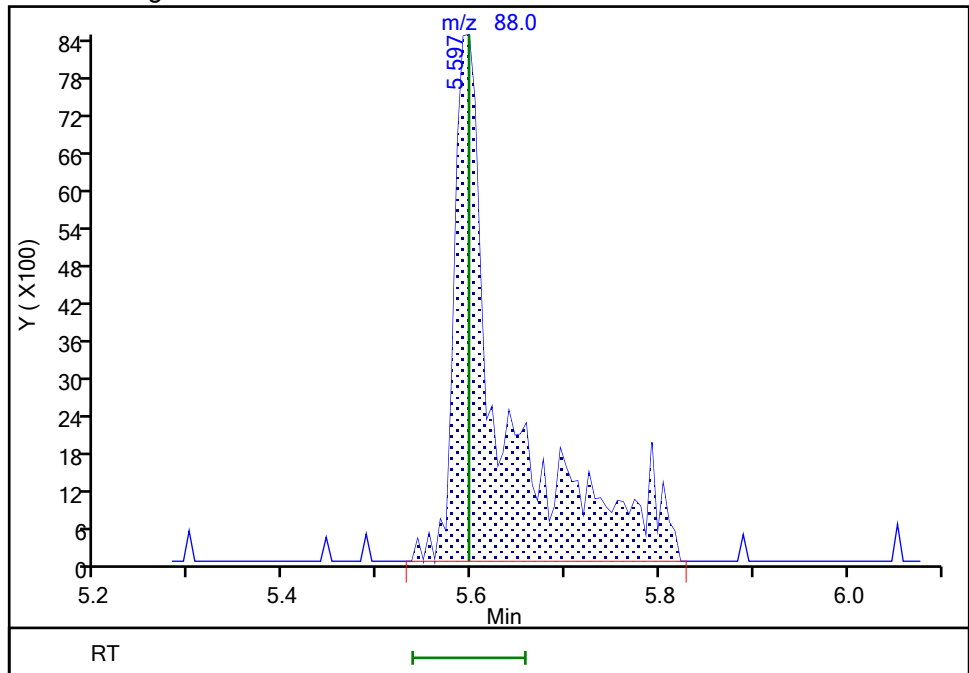
RT: 5.60  
Area: 19209  
Amount: 152.1960  
Amount Units: ug/L

## Processing Integration Results



RT: 5.60  
Area: 30638  
Amount: 218.0562  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:33:47  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4500.D  
 Lims ID: ICIS 5  
 Client ID:  
 Sample Type: ICIS Calib Level: 6  
 Inject. Date: 09-Aug-2022 19:03:30 ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ICIS 5  
 Misc. Info.: 480-0106979-018  
 Operator ID: AG Instrument ID: HP5973S  
 Sublist: chrom-S-8260\*sub26  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 10-Aug-2022 14:57:13 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1608

First Level Reviewer: WLL8

Date: 10-Aug-2022 14:09:07

| Compound                                 | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|------------------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 153 Fluorobenzene (IS)                 | 70  | 4.867     | 4.867         | 0.000         | 98 | 182908   | 25.0         | 25.0           |       |
| * 2 Chlorobenzene-d5                     | 82  | 7.824     | 7.824         | 0.000         | 86 | 387455   | 25.0         | 25.0           |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 10.263    | 10.263        | 0.000         | 51 | 394904   | 25.0         | 25.0           |       |
| \$ 154 Dibromofluoromethane (Surr)       | 113 | 4.307     | 4.307         | 0.000         | 58 | 240142   | 25.0         | 25.9           |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)        | 67  | 4.606     | 4.606         | 0.000         | 55 | 168974   | 25.0         | 26.7           |       |
| \$ 5 Toluene-d8 (Surr)                   | 98  | 6.358     | 6.358         | 0.000         | 57 | 934958   | 25.0         | 24.8           |       |
| \$ 6 4-Bromofluorobenzene (Surr)         | 174 | 9.077     | 9.077         | 0.000         | 90 | 318325   | 25.0         | 25.4           |       |
| 10 Dichlorodifluoromethane               | 85  | 1.035     | 1.035         | 0.000         | 88 | 395131   | 25.0         | 26.4           |       |
| 12 Chloromethane                         | 50  | 1.187     | 1.187         | 0.000         | 99 | 593662   | 25.0         | 25.0           |       |
| 13 Vinyl chloride                        | 62  | 1.247     | 1.247         | 0.000         | 82 | 382171   | 25.0         | 25.3           |       |
| 151 Butadiene                            | 54  | 1.266     | 1.266         | 0.000         | 89 | 485314   | 25.0         | 27.2           |       |
| 14 Bromomethane                          | 94  | 1.509     | 1.509         | 0.000         | 89 | 216586   | 25.0         | 24.6           |       |
| 15 Chloroethane                          | 64  | 1.582     | 1.582         | 0.000         | 98 | 247169   | 25.0         | 26.0           |       |
| 17 Trichlorofluoromethane                | 101 | 1.746     | 1.746         | 0.000         | 94 | 472711   | 25.0         | 24.9           |       |
| 16 Dichlorofluoromethane                 | 67  | 1.758     | 1.758         | 0.000         | 96 | 536953   | 25.0         | 25.4           |       |
| 18 Ethyl ether                           | 59  | 2.002     | 2.002         | 0.000         | 99 | 351015   | 25.0         | 26.1           |       |
| 20 Acrolein                              | 56  | 2.166     | 2.166         | 0.000         | 95 | 245160   | 125.0        | 130.4          |       |
| 22 1,1-Dichloroethene                    | 96  | 2.196     | 2.196         | 0.000         | 92 | 262112   | 25.0         | 26.2           |       |
| 21 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 2.196     | 2.196         | 0.000         | 52 | 248879   | 25.0         | 27.4           |       |
| 23 Acetone                               | 43  | 2.312     | 2.312         | 0.000         | 98 | 780086   | 125.0        | 132.1          |       |
| 25 Iodomethane                           | 142 | 2.342     | 2.342         | 0.000         | 97 | 460148   | 25.0         | 25.9           |       |
| 26 Carbon disulfide                      | 76  | 2.379     | 2.379         | 0.000         | 99 | 846794   | 25.0         | 26.2           |       |
| 28 3-Chloro-1-propene                    | 41  | 2.543     | 2.543         | 0.000         | 88 | 641577   | 25.0         | 26.7           |       |
| 27 Methyl acetate                        | 43  | 2.592     | 2.592         | 0.000         | 96 | 815629   | 50.0         | 50.8           |       |
| 30 Methylene Chloride                    | 84  | 2.683     | 2.683         | 0.000         | 94 | 335721   | 25.0         | 26.6           | M     |
| 31 2-Methyl-2-propanol                   | 59  | 2.860     | 2.860         | 0.000         | 79 | 431364   | 250.0        | 247.1          |       |
| 32 Methyl tert-butyl ether               | 73  | 2.884     | 2.884         | 0.000         | 92 | 1027489  | 25.0         | 25.6           |       |
| 34 trans-1,2-Dichloroethene              | 96  | 2.896     | 2.896         | 0.000         | 92 | 333820   | 25.0         | 26.6           | M     |
| 33 Acrylonitrile                         | 53  | 2.963     | 2.963         | 0.000         | 98 | 2032279  | 250.0        | 252.9          |       |
| 35 Hexane                                | 57  | 3.085     | 3.085         | 0.000         | 90 | 697545   | 25.0         | 26.9           |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane          | 63  | 3.304     | 3.304         | 0.000         | 97 | 682607   | 25.0         | 25.9           |       |
| 37 Vinyl acetate               | 43  | 3.365     | 3.365         | 0.000         | 96 | 1985551  | 50.0         | 55.7           |       |
| 44 2,2-Dichloropropane         | 77  | 3.803     | 3.803         | 0.000         | 91 | 387078   | 25.0         | 26.6           |       |
| 45 cis-1,2-Dichloroethene      | 96  | 3.839     | 3.839         | 0.000         | 83 | 361049   | 25.0         | 25.6           |       |
| 43 2-Butanone (MEK)            | 43  | 3.888     | 3.888         | 0.000         | 97 | 1320356  | 125.0        | 132.4          |       |
| 48 Chlorobromomethane          | 128 | 4.070     | 4.070         | 0.000         | 90 | 184931   | 25.0         | 24.0           |       |
| 49 Tetrahydrofuran             | 42  | 4.082     | 4.082         | 0.000         | 92 | 327935   | 50.0         | 50.1           |       |
| 50 Chloroform                  | 83  | 4.155     | 4.155         | 0.000         | 96 | 591396   | 25.0         | 25.4           |       |
| 52 Cyclohexane                 | 56  | 4.253     | 4.253         | 0.000         | 93 | 737278   | 25.0         | 27.2           |       |
| 51 1,1,1-Trichloroethane       | 97  | 4.253     | 4.253         | 0.000         | 78 | 488654   | 25.0         | 26.8           |       |
| 55 Carbon tetrachloride        | 117 | 4.380     | 4.380         | 0.000         | 90 | 409200   | 25.0         | 26.5           |       |
| 54 1,1-Dichloropropene         | 75  | 4.399     | 4.399         | 0.000         | 87 | 466493   | 25.0         | 25.8           |       |
| 57 Benzene                     | 78  | 4.599     | 4.599         | 0.000         | 96 | 1428812  | 25.0         | 26.1           |       |
| 53 Isobutyl alcohol            | 43  | 4.660     | 4.660         | 0.000         | 61 | 497632   | 625.0        | 681.3          |       |
| 58 1,2-Dichloroethane          | 62  | 4.672     | 4.672         | 0.000         | 78 | 547049   | 25.0         | 24.9           |       |
| 59 n-Heptane                   | 43  | 4.788     | 4.788         | 0.000         | 96 | 823320   | 25.0         | 26.5           |       |
| 62 Trichloroethene             | 95  | 5.202     | 5.202         | 0.000         | 94 | 346121   | 25.0         | 25.6           |       |
| 64 Methylcyclohexane           | 83  | 5.311     | 5.311         | 0.000         | 98 | 630901   | 25.0         | 27.0           |       |
| 65 1,2-Dichloropropane         | 63  | 5.445     | 5.445         | 0.000         | 91 | 395517   | 25.0         | 26.2           |       |
| 67 Dibromomethane              | 93  | 5.579     | 5.579         | 0.000         | 92 | 214787   | 25.0         | 26.7           |       |
| 66 1,4-Dioxane                 | 88  | 5.597     | 5.597         | 0.000         | 58 | 69322    | 500.0        | 472.6          |       |
| 68 Dichlorobromomethane        | 83  | 5.737     | 5.737         | 0.000         | 93 | 413366   | 25.0         | 26.4           |       |
| 69 2-Chloroethyl vinyl ether   | 63  | 6.029     | 6.029         | 0.000         | 92 | 260807   | 25.0         | 25.6           |       |
| 72 cis-1,3-Dichloropropene     | 75  | 6.151     | 6.151         | 0.000         | 87 | 525654   | 25.0         | 27.1           |       |
| 73 4-Methyl-2-pentanone (MIBK) | 43  | 6.303     | 6.303         | 0.000         | 98 | 2860010  | 125.0        | 125.9          |       |
| 74 Toluene                     | 92  | 6.425     | 6.425         | 0.000         | 94 | 887883   | 25.0         | 24.9           |       |
| 77 trans-1,3-Dichloropropene   | 75  | 6.723     | 6.723         | 0.000         | 98 | 482674   | 25.0         | 26.9           |       |
| 75 Ethyl methacrylate          | 69  | 6.777     | 6.777         | 0.000         | 76 | 455953   | 25.0         | 26.6           |       |
| 79 1,1,2-Trichloroethane       | 83  | 6.899     | 6.899         | 0.000         | 95 | 268402   | 25.0         | 24.8           |       |
| 81 Tetrachloroethene           | 166 | 6.948     | 6.948         | 0.000         | 90 | 382922   | 25.0         | 24.7           |       |
| 82 1,3-Dichloropropane         | 76  | 7.057     | 7.057         | 0.000         | 98 | 560064   | 25.0         | 24.4           |       |
| 80 2-Hexanone                  | 43  | 7.136     | 7.136         | 0.000         | 99 | 2039028  | 125.0        | 130.9          |       |
| 83 Chlorodibromomethane        | 129 | 7.288     | 7.288         | 0.000         | 90 | 292878   | 25.0         | 27.2           |       |
| 84 Ethylene Dibromide          | 107 | 7.380     | 7.380         | 0.000         | 99 | 330805   | 25.0         | 25.3           | M     |
| 87 Chlorobenzene               | 112 | 7.854     | 7.854         | 0.000         | 93 | 1006794  | 25.0         | 23.9           |       |
| 88 Ethylbenzene                | 91  | 7.952     | 7.952         | 0.000         | 98 | 1679293  | 25.0         | 25.1           |       |
| 89 1,1,1,2-Tetrachloroethane   | 131 | 7.958     | 7.958         | 0.000         | 46 | 337609   | 25.0         | 24.5           |       |
| 90 m-Xylene & p-Xylene         | 106 | 8.073     | 8.073         | 0.000         | 98 | 683116   | 25.0         | 25.7           |       |
| 91 o-Xylene                    | 106 | 8.493     | 8.493         | 0.000         | 98 | 648793   | 25.0         | 25.3           |       |
| 92 Styrene                     | 104 | 8.529     | 8.529         | 0.000         | 91 | 1136240  | 25.0         | 26.4           |       |
| 95 Bromoform                   | 173 | 8.767     | 8.767         | 0.000         | 95 | 191574   | 25.0         | 26.7           |       |
| 94 Isopropylbenzene            | 105 | 8.882     | 8.882         | 0.000         | 96 | 1766249  | 25.0         | 27.2           |       |
| 101 Bromobenzene               | 156 | 9.223     | 9.223         | 0.000         | 93 | 441933   | 25.0         | 25.8           |       |
| 97 1,1,2,2-Tetrachloroethane   | 83  | 9.308     | 9.308         | 0.000         | 79 | 432983   | 25.0         | 24.7           |       |
| 99 N-Propylbenzene             | 91  | 9.326     | 9.326         | 0.000         | 98 | 2058138  | 25.0         | 26.6           |       |
| 100 1,2,3-Trichloropropane     | 110 | 9.339     | 9.339         | 0.000         | 68 | 149464   | 25.0         | 25.7           |       |
| 98 trans-1,4-Dichloro-2-butene | 53  | 9.357     | 9.357         | 0.000         | 85 | 142541   | 25.0         | 31.2           |       |
| 103 2-Chlorotoluene            | 126 | 9.424     | 9.424         | 0.000         | 94 | 418089   | 25.0         | 26.3           |       |
| 102 1,3,5-Trimethylbenzene     | 105 | 9.515     | 9.515         | 0.000         | 94 | 1510977  | 25.0         | 26.8           |       |
| 105 4-Chlorotoluene            | 126 | 9.545     | 9.545         | 0.000         | 98 | 431850   | 25.0         | 26.0           |       |
| 106 tert-Butylbenzene          | 134 | 9.844     | 9.844         | 0.000         | 94 | 340336   | 25.0         | 26.7           |       |
| 107 1,2,4-Trimethylbenzene     | 105 | 9.904     | 9.904         | 0.000         | 58 | 1535055  | 25.0         | 27.2           |       |

| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 109 sec-Butylbenzene            | 105 | 10.063       | 10.063           | 0.000            | 94 | 1942362  | 25.0            | 26.8              |       |
| 111 1,3-Dichlorobenzene         | 146 | 10.190       | 10.190           | 0.000            | 98 | 883939   | 25.0            | 25.6              |       |
| 110 4-Isopropyltoluene          | 119 | 10.215       | 10.215           | 0.000            | 97 | 1698208  | 25.0            | 27.9              |       |
| 113 1,4-Dichlorobenzene         | 146 | 10.288       | 10.288           | 0.000            | 95 | 892953   | 25.0            | 24.9              |       |
| 115 n-Butylbenzene              | 91  | 10.610       | 10.610           | 0.000            | 95 | 1514367  | 25.0            | 27.8              |       |
| 116 1,2-Dichlorobenzene         | 146 | 10.647       | 10.647           | 0.000            | 97 | 854566   | 25.0            | 25.8              |       |
| 117 1,2-Dibromo-3-Chloropropane | 75  | 11.395       | 11.395           | 0.000            | 76 | 77379    | 25.0            | 26.3              |       |
| 119 1,2,4-Trichlorobenzene      | 180 | 12.070       | 12.070           | 0.000            | 95 | 643107   | 25.0            | 25.6              |       |
| 120 Hexachlorobutadiene         | 225 | 12.192       | 12.192           | 0.000            | 96 | 297914   | 25.0            | 27.0              |       |
| 121 Naphthalene                 | 128 | 12.283       | 12.283           | 0.000            | 97 | 1661410  | 25.0            | 28.3              |       |
| 122 1,2,3-Trichlorobenzene      | 180 | 12.490       | 12.490           | 0.000            | 96 | 653340   | 25.0            | 26.5              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00228

Amount Added: 12.50

Units: uL

GAS CORP mix\_00524

Amount Added: 12.50

Units: uL

S\_8260\_IS\_00357

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00426

Amount Added: 1.00

Units: uL

Run Reagent



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4500.D

Injection Date: 09-Aug-2022 19:03:30

Instrument ID: HP5973S

Operator ID: AG

Lims ID: ICIS 5

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

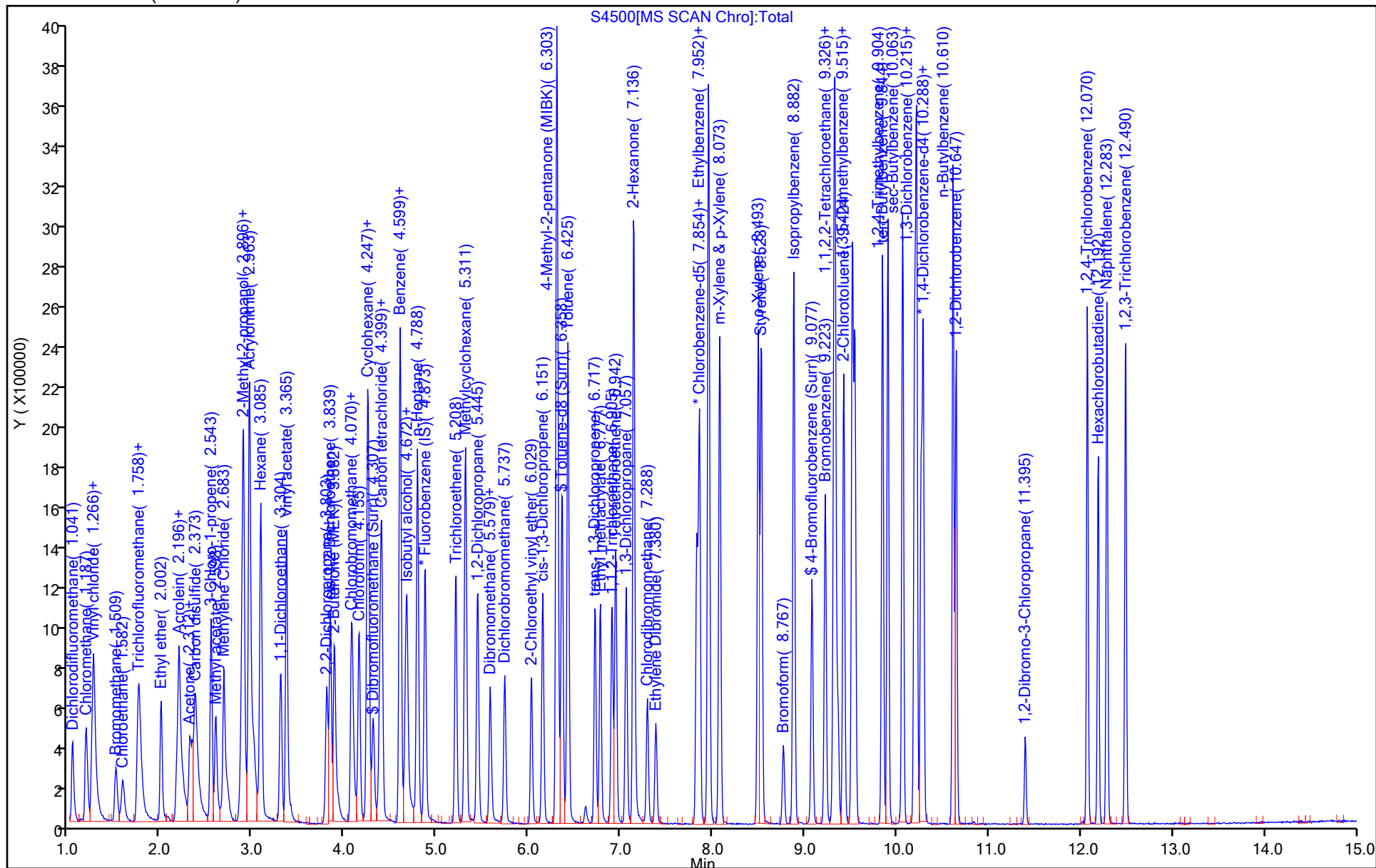
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)



## Eurofins Buffalo

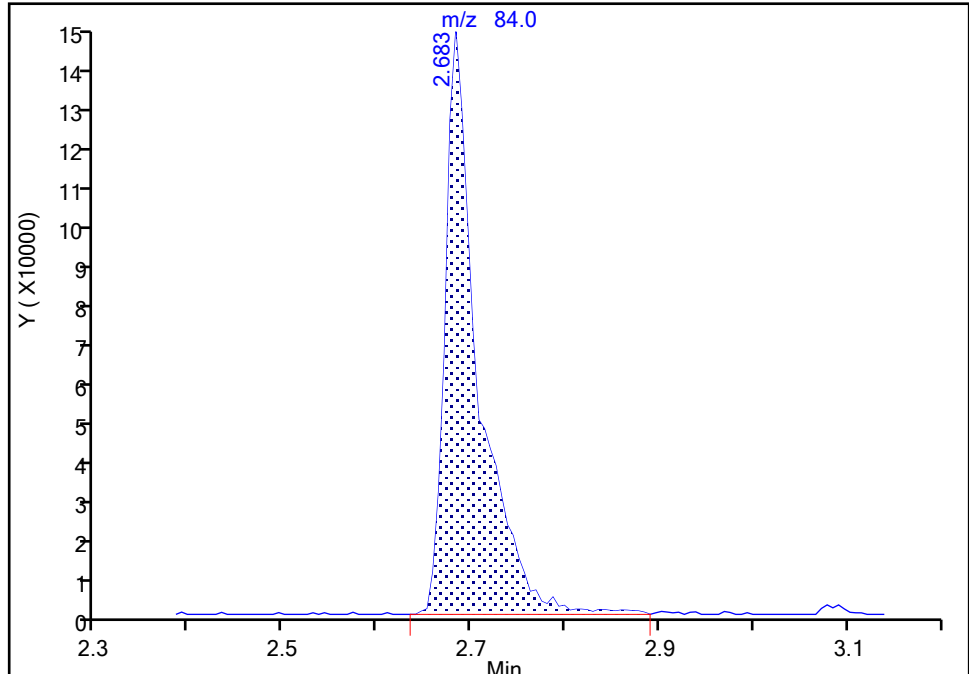
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Injection Date: 09-Aug-2022 19:03:30 Instrument ID: HP5973S  
Lims ID: ICIS 5  
Client ID:  
Operator ID: AG ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**30 Methylene Chloride, CAS: 75-09-2**

Signal: 1

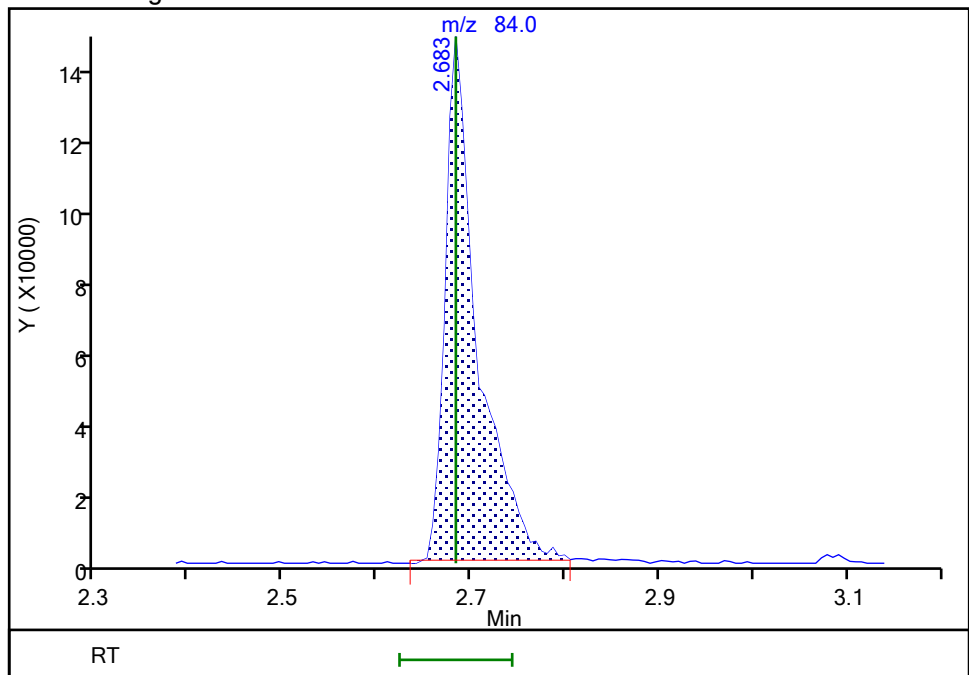
RT: 2.68  
Area: 348899  
Amount: 27.484799  
Amount Units: ug/L

## Processing Integration Results



RT: 2.68  
Area: 335721  
Amount: 26.564274  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:18:49  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

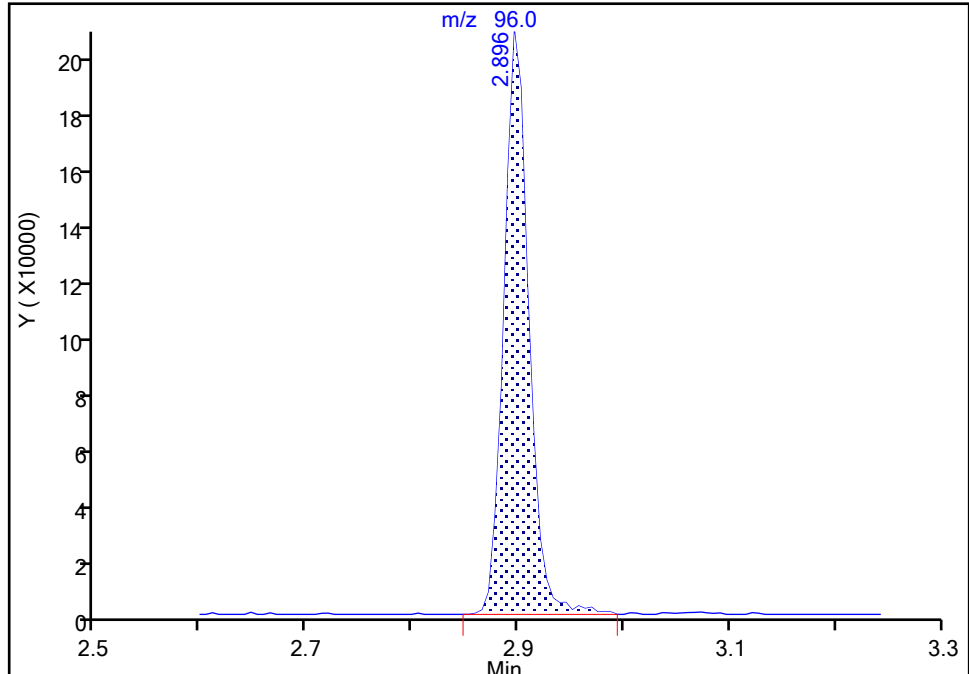
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4500.D  
Injection Date: 09-Aug-2022 19:03:30 Instrument ID: HP5973S  
Lims ID: ICIS 5  
Client ID:  
Operator ID: AG ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**34 trans-1,2-Dichloroethene, CAS: 156-60-5**

Signal: 1

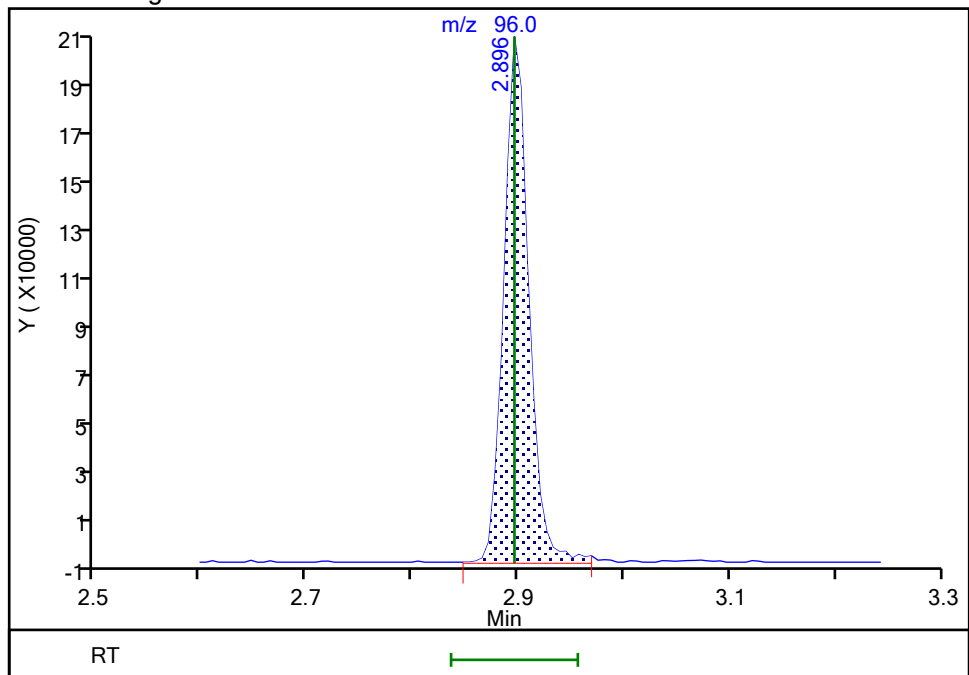
RT: 2.90  
Area: 331618  
Amount: 26.469142  
Amount Units: ug/L

## Processing Integration Results



RT: 2.90  
Area: 333820  
Amount: 26.626391  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:19:09  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 293 of 733

## Eurofins Buffalo

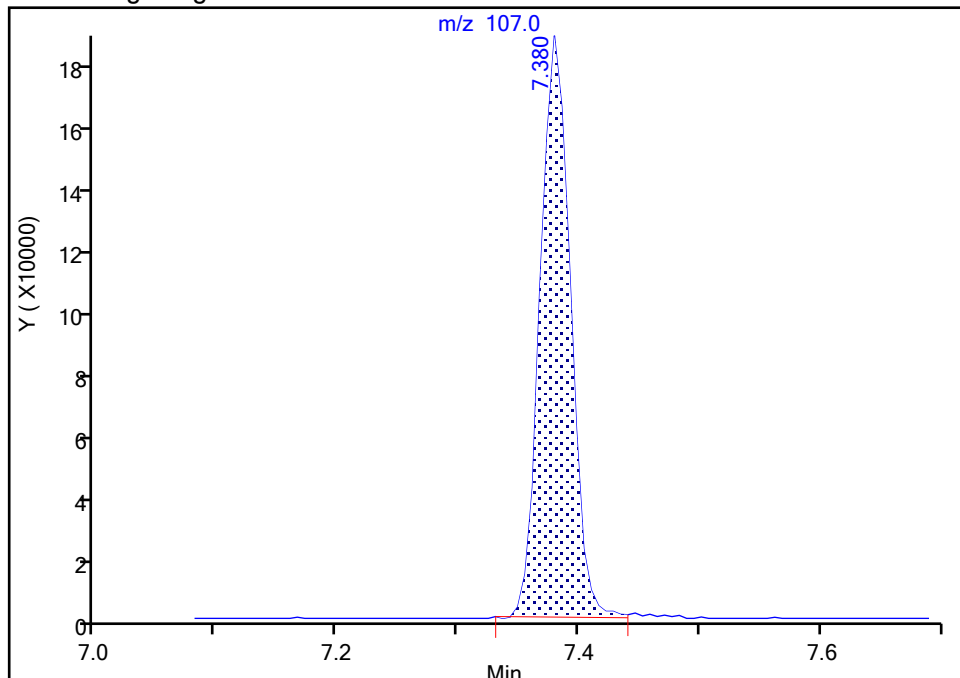
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Injection Date: 09-Aug-2022 19:03:30 Instrument ID: HP5973S  
Lims ID: ICIS 5  
Client ID:  
Operator ID: AG ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**84 Ethylene Dibromide, CAS: 106-93-4**

Signal: 1

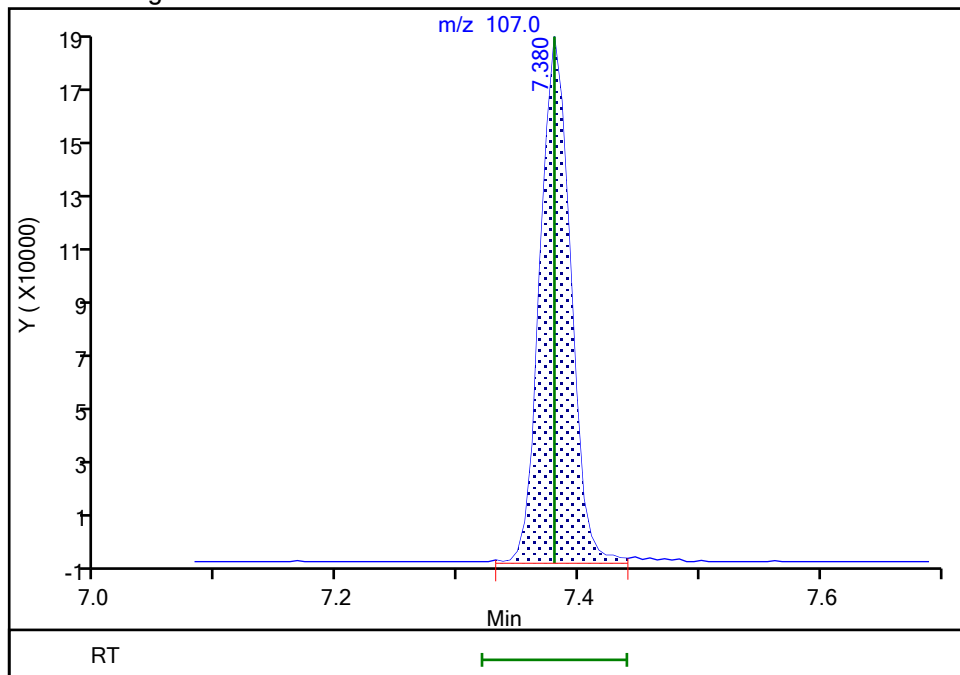
RT: 7.38  
Area: 324078  
Amount: 24.876328  
Amount Units: ug/L

## Processing Integration Results



RT: 7.38  
Area: 330805  
Amount: 25.327303  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 09:20:08  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 294 of 733

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4501.D  
 Lims ID: IC 6  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 09-Aug-2022 19:26:30 ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC 6  
 Misc. Info.: 480-0106979-019  
 Operator ID: AG Instrument ID: HP5973S  
 Sublist: chrom-S-8260\*sub26  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 10-Aug-2022 14:57:19 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1608

First Level Reviewer: FGO5

Date: 10-Aug-2022 09:58:54

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 153 Fluorobenzene (IS)                 | 70  | 4.867        | 4.867            | 0.000            | 98  | 196073   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 82  | 7.824        | 7.824            | 0.000            | 87  | 384378   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 10.263       | 10.263           | 0.000            | 36  | 409493   | 25.0            | 25.0              |       |
| \$ 154 Dibromofluoromethane (Surr)       | 113 | 4.308        | 4.307            | 0.001            | 57  | 246014   | 25.0            | 24.7              |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)        | 67  | 4.600        | 4.606            | -0.006           | 45  | 161459   | 25.0            | 23.8              |       |
| \$ 5 Toluene-d8 (Surr)                   | 98  | 6.364        | 6.358            | 0.006            | 33  | 929739   | 25.0            | 24.8              |       |
| \$ 6 4-Bromofluorobenzene (Surr)         | 174 | 9.077        | 9.077            | 0.000            | 88  | 304216   | 25.0            | 24.5              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.035        | 1.035            | 0.001            | 98  | 785884   | 50.0            | 48.9              |       |
| 12 Chloromethane                         | 50  | 1.181        | 1.187            | -0.006           | 100 | 1187385  | 50.0            | 46.6              |       |
| 13 Vinyl chloride                        | 62  | 1.247        | 1.247            | 0.000            | 81  | 782267   | 50.0            | 48.3              |       |
| 151 Butadiene                            | 54  | 1.266        | 1.266            | 0.000            | 89  | 990649   | 50.0            | 51.8              |       |
| 14 Bromomethane                          | 94  | 1.509        | 1.509            | 0.000            | 92  | 421498   | 50.0            | 44.6              |       |
| 15 Chloroethane                          | 64  | 1.582        | 1.582            | 0.000            | 94  | 490070   | 50.0            | 48.0              |       |
| 17 Trichlorofluoromethane                | 101 | 1.746        | 1.746            | 0.000            | 90  | 981244   | 50.0            | 48.3              |       |
| 16 Dichlorofluoromethane                 | 67  | 1.759        | 1.758            | 0.000            | 96  | 1067803  | 50.0            | 47.1              |       |
| 18 Ethyl ether                           | 59  | 1.996        | 2.002            | -0.006           | 98  | 687596   | 50.0            | 47.7              |       |
| 20 Acrolein                              | 56  | 2.166        | 2.166            | 0.000            | 95  | 476589   | 250.0           | 236.5             |       |
| 22 1,1-Dichloroethene                    | 96  | 2.197        | 2.196            | 0.001            | 93  | 508092   | 50.0            | 47.4              |       |
| 21 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 2.190        | 2.196            | -0.006           | 56  | 481167   | 50.0            | 49.4              |       |
| 23 Acetone                               | 43  | 2.312        | 2.312            | 0.000            | 99  | 1486299  | 250.0           | 234.8             |       |
| 25 Iodomethane                           | 142 | 2.343        | 2.342            | 0.001            | 98  | 927367   | 50.0            | 48.7              |       |
| 26 Carbon disulfide                      | 76  | 2.373        | 2.379            | -0.006           | 99  | 1746515  | 50.0            | 50.5              |       |
| 28 3-Chloro-1-propene                    | 41  | 2.543        | 2.543            | 0.000            | 88  | 1222495  | 50.0            | 47.4              |       |
| 27 Methyl acetate                        | 43  | 2.592        | 2.592            | 0.000            | 97  | 1608930  | 100.0           | 93.4              |       |
| 30 Methylene Chloride                    | 84  | 2.683        | 2.683            | 0.000            | 96  | 688224   | 50.0            | 51.1              |       |
| 31 2-Methyl-2-propanol                   | 59  | 2.860        | 2.860            | 0.000            | 77  | 867893   | 500.0           | 463.8             |       |
| 32 Methyl tert-butyl ether               | 73  | 2.884        | 2.884            | 0.000            | 92  | 2065530  | 50.0            | 48.0              |       |
| 34 trans-1,2-Dichloroethene              | 96  | 2.896        | 2.896            | 0.000            | 92  | 650872   | 50.0            | 48.4              |       |
| 33 Acrylonitrile                         | 53  | 2.957        | 2.963            | -0.006           | 98  | 4099110  | 500.0           | 475.8             |       |
| 35 Hexane                                | 57  | 3.085        | 3.085            | 0.000            | 91  | 1379774  | 50.0            | 49.7              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane          | 63  | 3.298     | 3.304         | -0.006        | 97 | 1354761  | 50.0         | 48.0           |       |
| 37 Vinyl acetate               | 43  | 3.365     | 3.365         | 0.001         | 96 | 4159306  | 100.0        | 108.9          |       |
| 44 2,2-Dichloropropane         | 77  | 3.803     | 3.803         | 0.000         | 92 | 788603   | 50.0         | 50.5           |       |
| 45 cis-1,2-Dichloroethene      | 96  | 3.839     | 3.839         | 0.000         | 82 | 717873   | 50.0         | 47.5           |       |
| 43 2-Butanone (MEK)            | 43  | 3.882     | 3.888         | -0.006        | 96 | 2613030  | 250.0        | 244.4          |       |
| 48 Chlorobromomethane          | 128 | 4.070     | 4.070         | 0.000         | 92 | 370617   | 50.0         | 44.8           |       |
| 49 Tetrahydrofuran             | 42  | 4.082     | 4.082         | 0.000         | 96 | 662805   | 100.0        | 94.5           |       |
| 50 Chloroform                  | 83  | 4.149     | 4.155         | -0.006        | 97 | 1178415  | 50.0         | 47.2           |       |
| 52 Cyclohexane                 | 56  | 4.247     | 4.253         | -0.006        | 93 | 1482566  | 50.0         | 50.9           |       |
| 51 1,1,1-Trichloroethane       | 97  | 4.247     | 4.253         | -0.006        | 80 | 996892   | 50.0         | 50.9           |       |
| 55 Carbon tetrachloride        | 117 | 4.381     | 4.380         | 0.001         | 91 | 851656   | 50.0         | 51.4           |       |
| 54 1,1-Dichloropropene         | 75  | 4.399     | 4.399         | 0.000         | 92 | 964738   | 50.0         | 49.7           |       |
| 57 Benzene                     | 78  | 4.600     | 4.599         | 0.001         | 97 | 2801624  | 50.0         | 47.7           |       |
| 53 Isobutyl alcohol            | 43  | 4.654     | 4.660         | -0.006        | 96 | 1011570  | 1250.0       | 1291.9         |       |
| 58 1,2-Dichloroethane          | 62  | 4.673     | 4.672         | 0.001         | 81 | 1106593  | 50.0         | 47.0           |       |
| 59 n-Heptane                   | 43  | 4.788     | 4.788         | 0.000         | 97 | 1691030  | 50.0         | 50.8           |       |
| 62 Trichloroethene             | 95  | 5.202     | 5.202         | 0.000         | 94 | 682274   | 50.0         | 47.1           |       |
| 64 Methylcyclohexane           | 83  | 5.311     | 5.311         | 0.000         | 98 | 1292449  | 50.0         | 51.5           |       |
| 65 1,2-Dichloropropane         | 63  | 5.439     | 5.445         | -0.006        | 92 | 803434   | 50.0         | 49.6           |       |
| 67 Dibromomethane              | 93  | 5.579     | 5.579         | 0.000         | 90 | 414844   | 50.0         | 48.0           |       |
| 66 1,4-Dioxane                 | 88  | 5.591     | 5.597         | -0.006        | 48 | 147189   | 1000.0       | 1011.6         | M     |
| 68 Dichlorobromomethane        | 83  | 5.737     | 5.737         | 0.000         | 97 | 849949   | 50.0         | 50.7           |       |
| 69 2-Chloroethyl vinyl ether   | 63  | 6.029     | 6.029         | 0.000         | 93 | 554092   | 50.0         | 50.8           |       |
| 72 cis-1,3-Dichloropropene     | 75  | 6.151     | 6.151         | 0.000         | 89 | 1106426  | 50.0         | 53.2           |       |
| 73 4-Methyl-2-pentanone (MIBK) | 43  | 6.303     | 6.303         | 0.000         | 98 | 5840745  | 250.0        | 259.2          |       |
| 74 Toluene                     | 92  | 6.425     | 6.425         | 0.000         | 95 | 1769820  | 50.0         | 50.0           |       |
| 77 trans-1,3-Dichloropropene   | 75  | 6.717     | 6.723         | -0.006        | 98 | 999435   | 50.0         | 56.1           |       |
| 75 Ethyl methacrylate          | 69  | 6.777     | 6.777         | 0.000         | 76 | 951704   | 50.0         | 55.9           |       |
| 79 1,1,2-Trichloroethane       | 83  | 6.905     | 6.899         | 0.006         | 96 | 527523   | 50.0         | 49.1           |       |
| 81 Tetrachloroethene           | 166 | 6.942     | 6.948         | -0.006        | 88 | 772568   | 50.0         | 50.3           |       |
| 82 1,3-Dichloropropane         | 76  | 7.057     | 7.057         | 0.000         | 98 | 1130357  | 50.0         | 49.6           |       |
| 80 2-Hexanone                  | 43  | 7.136     | 7.136         | 0.000         | 98 | 4123558  | 250.0        | 266.8          |       |
| 83 Chlorodibromomethane        | 129 | 7.288     | 7.288         | 0.000         | 91 | 609387   | 50.0         | 57.1           |       |
| 84 Ethylene Dibromide          | 107 | 7.380     | 7.380         | 0.000         | 98 | 652156   | 50.0         | 50.3           |       |
| 87 Chlorobenzene               | 112 | 7.854     | 7.854         | 0.000         | 92 | 2027822  | 50.0         | 48.6           |       |
| 88 Ethylbenzene                | 91  | 7.952     | 7.952         | 0.000         | 99 | 3459527  | 50.0         | 52.1           |       |
| 89 1,1,1,2-Tetrachloroethane   | 131 | 7.958     | 7.958         | 0.000         | 46 | 704483   | 50.0         | 51.4           |       |
| 90 m-Xylene & p-Xylene         | 106 | 8.073     | 8.073         | 0.000         | 99 | 1358414  | 50.0         | 51.6           |       |
| 91 o-Xylene                    | 106 | 8.493     | 8.493         | 0.000         | 98 | 1291723  | 50.0         | 50.8           |       |
| 92 Styrene                     | 104 | 8.523     | 8.529         | -0.006        | 92 | 2285016  | 50.0         | 53.6           |       |
| 95 Bromoform                   | 173 | 8.767     | 8.767         | 0.000         | 96 | 390936   | 50.0         | 55.0           |       |
| 94 Isopropylbenzene            | 105 | 8.882     | 8.882         | 0.000         | 96 | 3585949  | 50.0         | 53.2           |       |
| 101 Bromobenzene               | 156 | 9.223     | 9.223         | 0.000         | 94 | 872828   | 50.0         | 49.2           |       |
| 97 1,1,2,2-Tetrachloroethane   | 83  | 9.314     | 9.308         | 0.006         | 62 | 882977   | 50.0         | 48.5           |       |
| 99 N-Propylbenzene             | 91  | 9.326     | 9.326         | 0.000         | 98 | 4117986  | 50.0         | 51.3           |       |
| 100 1,2,3-Trichloropropane     | 110 | 9.339     | 9.339         | 0.000         | 66 | 284620   | 50.0         | 47.2           |       |
| 98 trans-1,4-Dichloro-2-butene | 53  | 9.357     | 9.357         | 0.000         | 89 | 303644   | 50.0         | 64.1           |       |
| 103 2-Chlorotoluene            | 126 | 9.424     | 9.424         | 0.000         | 96 | 813569   | 50.0         | 49.3           |       |
| 102 1,3,5-Trimethylbenzene     | 105 | 9.515     | 9.515         | 0.000         | 94 | 3062273  | 50.0         | 52.4           |       |
| 105 4-Chlorotoluene            | 126 | 9.545     | 9.545         | 0.000         | 98 | 844707   | 50.0         | 49.0           |       |
| 106 tert-Butylbenzene          | 134 | 9.844     | 9.844         | 0.000         | 92 | 696532   | 50.0         | 52.8           |       |
| 107 1,2,4-Trimethylbenzene     | 105 | 9.904     | 9.904         | 0.000         | 63 | 3099866  | 50.0         | 53.0           |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 109 sec-Butylbenzene             | 105 | 10.063       | 10.063           | 0.000            | 94 | 4015440  | 50.0            | 53.4              |       |
| 111 1,3-Dichlorobenzene          | 146 | 10.196       | 10.190           | 0.006            | 98 | 1722675  | 50.0            | 48.1              |       |
| 110 4-Isopropyltoluene           | 119 | 10.215       | 10.215           | 0.000            | 97 | 3494291  | 50.0            | 55.5              |       |
| 113 1,4-Dichlorobenzene          | 146 | 10.288       | 10.288           | 0.000            | 94 | 1735965  | 50.0            | 46.6              |       |
| 115 n-Butylbenzene               | 91  | 10.610       | 10.610           | 0.000            | 95 | 3093832  | 50.0            | 54.8              |       |
| 116 1,2-Dichlorobenzene          | 146 | 10.647       | 10.647           | 0.000            | 97 | 1657487  | 50.0            | 48.3              |       |
| 117 1,2-Dibromo-3-Chloropropane  | 75  | 11.395       | 11.395           | 0.000            | 77 | 161090   | 50.0            | 52.9              |       |
| 119 1,2,4-Trichlorobenzene       | 180 | 12.070       | 12.070           | 0.000            | 93 | 1369691  | 50.0            | 52.6              |       |
| 120 Hexachlorobutadiene          | 225 | 12.192       | 12.192           | 0.000            | 97 | 598307   | 50.0            | 52.2              |       |
| 121 Naphthalene                  | 128 | 12.283       | 12.283           | 0.000            | 97 | 3512339  | 50.0            | 57.8              |       |
| 122 1,2,3-Trichlorobenzene       | 180 | 12.490       | 12.490           | 0.000            | 95 | 1319709  | 50.0            | 51.6              |       |
| S 126 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 109.3             |       |
| S 125 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 96.0              |       |
| S 123 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 252.2             |       |
| S 124 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 102.4             |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00228

Amount Added: 25.00

Units: uL

GAS CORP mix\_00524

Amount Added: 25.00

Units: uL

S\_8260\_IS\_00357

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00426

Amount Added: 1.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4501.D

Injection Date: 09-Aug-2022 19:26:30

Instrument ID: HP5973S

Lims ID: IC 6

Operator ID: AG

Client ID:

Worklist Smp#: 19

Purge Vol: 5.000 mL

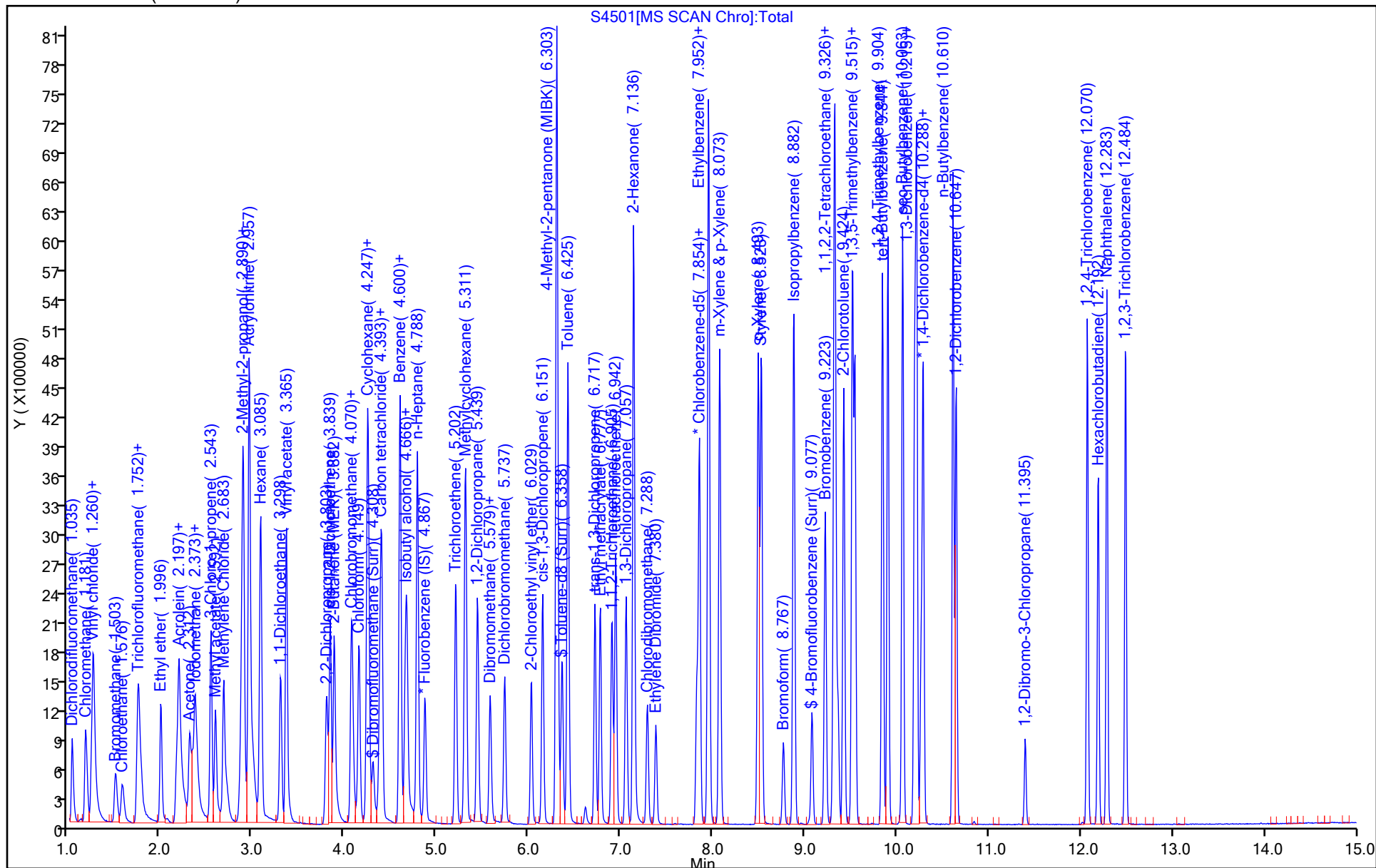
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)





## Eurofins Buffalo

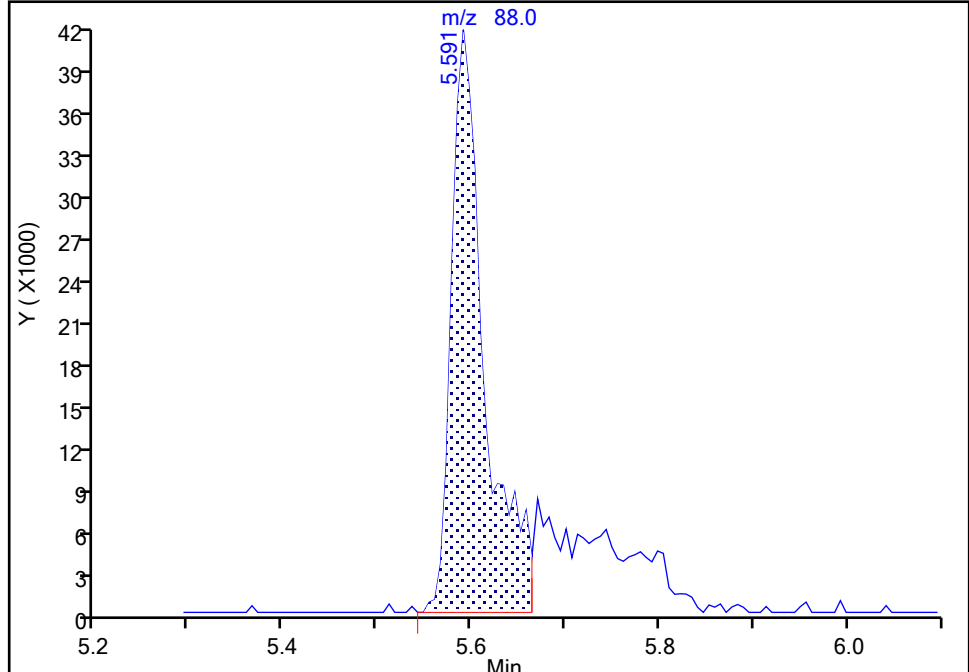
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Injection Date: 09-Aug-2022 19:26:30 Instrument ID: HP5973S  
Lims ID: IC 6  
Client ID:  
Operator ID: AG ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**66 1,4-Dioxane, CAS: 123-91-1**

Signal: 1

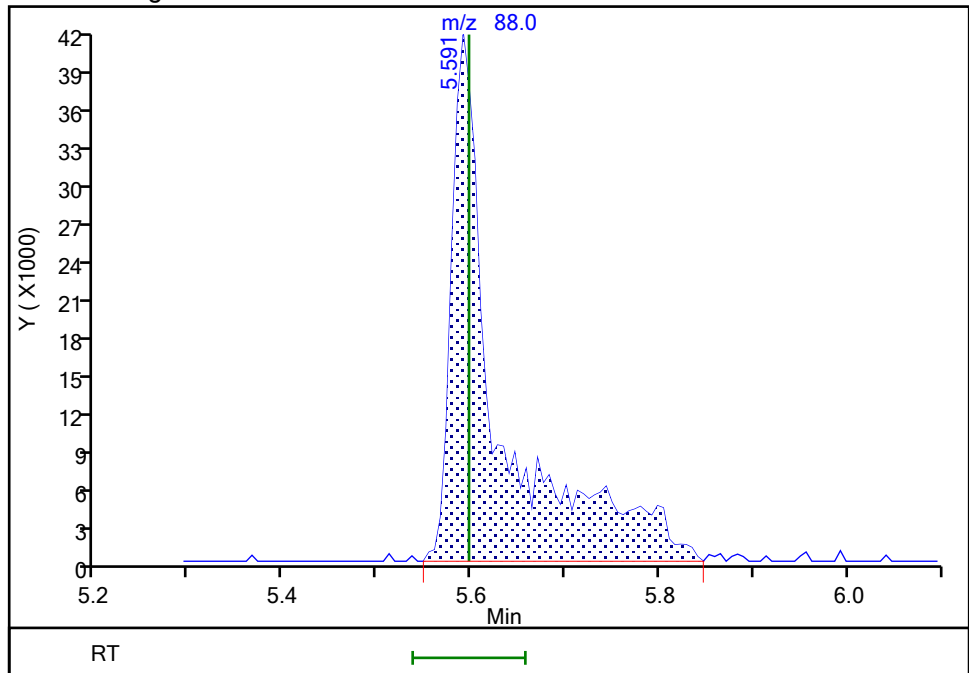
RT: 5.59  
Area: 102758  
Amount: 738.4331  
Amount Units: ug/L

## Processing Integration Results



RT: 5.59  
Area: 147189  
Amount: 1011.5797  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 10-Aug-2022 14:34:59  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 299 of 733

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4502.D  
 Lims ID: IC 7  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 09-Aug-2022 19:49:30 ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC 7  
 Misc. Info.: 480-0106979-020  
 Operator ID: AG Instrument ID: HP5973S  
 Sublist: chrom-S-8260\*sub26  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 10-Aug-2022 14:57:23 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1608

First Level Reviewer: WLL8

Date: 10-Aug-2022 14:35:56

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 153 Fluorobenzene (IS)                 | 70  | 4.873        | 4.867            | 0.006            | 98  | 202695   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 82  | 7.824        | 7.824            | 0.000            | 89  | 383822   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 10.263       | 10.263           | 0.000            | 13  | 395590   | 25.0            | 25.0              |       |
| \$ 154 Dibromofluoromethane (Surr)       | 113 | 4.308        | 4.307            | 0.001            | 58  | 243318   | 25.0            | 23.6              |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)        | 67  | 4.606        | 4.606            | 0.000            | 42  | 165280   | 25.0            | 23.5              |       |
| \$ 5 Toluene-d8 (Surr)                   | 98  | 6.358        | 6.358            | 0.000            | 16  | 964470   | 25.0            | 25.8              |       |
| \$ 6 4-Bromofluorobenzene (Surr)         | 174 | 9.077        | 9.077            | 0.000            | 90  | 314546   | 25.0            | 25.3              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.035        | 1.035            | 0.001            | 98  | 1596548  | 100.0           | 96.1              |       |
| 12 Chloromethane                         | 50  | 1.187        | 1.187            | 0.000            | 100 | 2319392  | 100.0           | 88.0              |       |
| 13 Vinyl chloride                        | 62  | 1.248        | 1.247            | 0.001            | 81  | 1511681  | 100.0           | 90.3              |       |
| 151 Butadiene                            | 54  | 1.272        | 1.266            | 0.006            | 85  | 1896213  | 100.0           | 95.9              |       |
| 14 Bromomethane                          | 94  | 1.509        | 1.509            | 0.000            | 90  | 845971   | 100.0           | 86.5              |       |
| 15 Chloroethane                          | 64  | 1.588        | 1.582            | 0.006            | 98  | 959600   | 100.0           | 91.0              |       |
| 17 Trichlorofluoromethane                | 101 | 1.753        | 1.746            | 0.007            | 80  | 1973504  | 100.0           | 94.0              |       |
| 16 Dichlorofluoromethane                 | 67  | 1.759        | 1.758            | 0.001            | 97  | 2139010  | 100.0           | 91.2              |       |
| 18 Ethyl ether                           | 59  | 2.002        | 2.002            | 0.000            | 97  | 1382287  | 100.0           | 92.7              |       |
| 20 Acrolein                              | 56  | 2.166        | 2.166            | 0.000            | 99  | 975764   | 500.0           | 468.5             |       |
| 22 1,1-Dichloroethene                    | 96  | 2.197        | 2.196            | 0.001            | 92  | 1012682  | 100.0           | 91.3              |       |
| 21 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 2.197        | 2.196            | 0.001            | 53  | 1055805  | 100.0           | 104.9             |       |
| 23 Acetone                               | 43  | 2.312        | 2.312            | 0.000            | 99  | 3182444  | 500.0           | 486.4             |       |
| 25 Iodomethane                           | 142 | 2.343        | 2.342            | 0.001            | 98  | 1983398  | 100.0           | 100.7             |       |
| 26 Carbon disulfide                      | 76  | 2.373        | 2.379            | -0.006           | 99  | 3808315  | 100.0           | 106.5             |       |
| 28 3-Chloro-1-propene                    | 41  | 2.543        | 2.543            | 0.000            | 87  | 2536198  | 100.0           | 95.2              |       |
| 27 Methyl acetate                        | 43  | 2.592        | 2.592            | 0.000            | 97  | 3260537  | 200.0           | 183.2             |       |
| 30 Methylene Chloride                    | 84  | 2.683        | 2.683            | 0.000            | 95  | 1352678  | 100.0           | 97.4              |       |
| 31 2-Methyl-2-propanol                   | 59  | 2.860        | 2.860            | 0.000            | 91  | 2180455  | 1000.0          | 1127.2            |       |
| 32 Methyl tert-butyl ether               | 73  | 2.884        | 2.884            | 0.000            | 93  | 4245084  | 100.0           | 95.4              |       |
| 34 trans-1,2-Dichloroethene              | 96  | 2.896        | 2.896            | 0.000            | 89  | 1315246  | 100.0           | 94.7              |       |
| 33 Acrylonitrile                         | 53  | 2.963        | 2.963            | 0.000            | 98  | 8885232  | 1000.0          | 997.7             |       |
| 35 Hexane                                | 57  | 3.085        | 3.085            | 0.000            | 93  | 2710279  | 100.0           | 94.4              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane          | 63  | 3.304     | 3.304         | 0.000         | 97 | 2721379  | 100.0        | 93.3           |       |
| 37 Vinyl acetate               | 43  | 3.365     | 3.365         | 0.001         | 97 | 8932995  | 200.0        | 226.2          |       |
| 44 2,2-Dichloropropane         | 77  | 3.803     | 3.803         | 0.000         | 93 | 1513700  | 100.0        | 93.8           |       |
| 45 cis-1,2-Dichloroethene      | 96  | 3.839     | 3.839         | 0.000         | 83 | 1417760  | 100.0        | 90.8           |       |
| 43 2-Butanone (MEK)            | 43  | 3.882     | 3.888         | -0.006        | 96 | 5430665  | 500.0        | 491.3          |       |
| 48 Chlorobromomethane          | 128 | 4.070     | 4.070         | 0.000         | 91 | 739966   | 100.0        | 86.6           |       |
| 49 Tetrahydrofuran             | 42  | 4.083     | 4.082         | 0.001         | 92 | 1341957  | 200.0        | 185.0          |       |
| 50 Chloroform                  | 83  | 4.156     | 4.155         | 0.001         | 96 | 2385540  | 100.0        | 92.4           |       |
| 52 Cyclohexane                 | 56  | 4.247     | 4.253         | -0.006        | 94 | 2831548  | 100.0        | 94.1           |       |
| 51 1,1,1-Trichloroethane       | 97  | 4.247     | 4.253         | -0.006        | 79 | 2009240  | 100.0        | 99.3           |       |
| 55 Carbon tetrachloride        | 117 | 4.381     | 4.380         | 0.001         | 92 | 1694778  | 100.0        | 98.9           |       |
| 54 1,1-Dichloropropene         | 75  | 4.399     | 4.399         | 0.000         | 91 | 1926173  | 100.0        | 96.0           |       |
| 57 Benzene                     | 78  | 4.600     | 4.599         | 0.001         | 98 | 5728860  | 100.0        | 94.4           |       |
| 53 Isobutyl alcohol            | 43  | 4.654     | 4.660         | -0.006        | 95 | 2705636  | 2500.0       | 3342.5         |       |
| 58 1,2-Dichloroethane          | 62  | 4.673     | 4.672         | 0.001         | 81 | 2256211  | 100.0        | 92.7           |       |
| 59 n-Heptane                   | 43  | 4.788     | 4.788         | 0.000         | 97 | 3032834  | 100.0        | 88.2           |       |
| 62 Trichloroethene             | 95  | 5.202     | 5.202         | 0.000         | 95 | 1383528  | 100.0        | 92.5           |       |
| 64 Methylcyclohexane           | 83  | 5.311     | 5.311         | 0.000         | 98 | 2560399  | 100.0        | 98.7           |       |
| 65 1,2-Dichloropropane         | 63  | 5.439     | 5.445         | -0.006        | 93 | 1587058  | 100.0        | 94.7           |       |
| 67 Dibromomethane              | 93  | 5.579     | 5.579         | 0.000         | 90 | 847032   | 100.0        | 94.8           |       |
| 66 1,4-Dioxane                 | 88  | 5.591     | 5.597         | -0.006        | 57 | 301983   | 2000.0       | 2078.4         |       |
| 68 Dichlorobromomethane        | 83  | 5.737     | 5.737         | 0.000         | 98 | 1781918  | 100.0        | 102.8          |       |
| 69 2-Chloroethyl vinyl ether   | 63  | 6.023     | 6.029         | -0.006        | 92 | 1158370  | 100.0        | 102.7          |       |
| 72 cis-1,3-Dichloropropene     | 75  | 6.151     | 6.151         | 0.000         | 89 | 2302314  | 100.0        | 107.0          |       |
| 73 4-Methyl-2-pentanone (MIBK) | 43  | 6.303     | 6.303         | 0.000         | 98 | 11752786 | 500.0        | 522.3          |       |
| 74 Toluene                     | 92  | 6.425     | 6.425         | 0.000         | 97 | 3544631  | 100.0        | 100.2          |       |
| 77 trans-1,3-Dichloropropene   | 75  | 6.717     | 6.723         | -0.006        | 98 | 2155548  | 100.0        | 121.2          |       |
| 75 Ethyl methacrylate          | 69  | 6.778     | 6.777         | 0.001         | 75 | 2047139  | 100.0        | 120.4          |       |
| 79 1,1,2-Trichloroethane       | 83  | 6.899     | 6.899         | 0.000         | 95 | 1057594  | 100.0        | 98.7           |       |
| 81 Tetrachloroethene           | 166 | 6.942     | 6.948         | -0.006        | 89 | 1499525  | 100.0        | 97.7           |       |
| 82 1,3-Dichloropropane         | 76  | 7.057     | 7.057         | 0.000         | 98 | 2263120  | 100.0        | 99.5           |       |
| 80 2-Hexanone                  | 43  | 7.137     | 7.136         | 0.001         | 99 | 8461887  | 500.0        | 548.2          |       |
| 83 Chlorodibromomethane        | 129 | 7.289     | 7.288         | 0.001         | 89 | 1303902  | 100.0        | 122.3          |       |
| 84 Ethylene Dibromide          | 107 | 7.380     | 7.380         | 0.000         | 99 | 1338460  | 100.0        | 103.4          |       |
| 87 Chlorobenzene               | 112 | 7.854     | 7.854         | 0.000         | 92 | 4057287  | 100.0        | 97.3           |       |
| 88 Ethylbenzene                | 91  | 7.952     | 7.952         | 0.000         | 98 | 6988878  | 100.0        | 105.3          |       |
| 89 1,1,1,2-Tetrachloroethane   | 131 | 7.958     | 7.958         | 0.000         | 46 | 1475697  | 100.0        | 107.9          |       |
| 90 m-Xylene & p-Xylene         | 106 | 8.073     | 8.073         | 0.000         | 98 | 2718893  | 100.0        | 103.4          |       |
| 91 o-Xylene                    | 106 | 8.493     | 8.493         | 0.000         | 98 | 2628097  | 100.0        | 103.6          |       |
| 92 Styrene                     | 104 | 8.530     | 8.529         | 0.001         | 91 | 4671960  | 100.0        | 109.7          |       |
| 95 Bromoform                   | 173 | 8.767     | 8.767         | 0.000         | 96 | 871370   | 100.0        | 122.8          |       |
| 94 Isopropylbenzene            | 105 | 8.883     | 8.882         | 0.001         | 95 | 7290373  | 100.0        | 111.9          |       |
| 101 Bromobenzene               | 156 | 9.223     | 9.223         | 0.000         | 95 | 1726650  | 100.0        | 100.8          |       |
| 97 1,1,2,2-Tetrachloroethane   | 83  | 9.314     | 9.308         | 0.006         | 63 | 1757555  | 100.0        | 100.0          |       |
| 99 N-Propylbenzene             | 91  | 9.327     | 9.326         | 0.001         | 98 | 8447339  | 100.0        | 108.9          |       |
| 100 1,2,3-Trichloropropane     | 110 | 9.339     | 9.339         | 0.000         | 65 | 580622   | 100.0        | 99.6           |       |
| 98 trans-1,4-Dichloro-2-butene | 53  | 9.363     | 9.357         | 0.006         | 92 | 673029   | 100.0        | 147.2          |       |
| 103 2-Chlorotoluene            | 126 | 9.424     | 9.424         | 0.000         | 96 | 1607005  | 100.0        | 100.8          |       |
| 102 1,3,5-Trimethylbenzene     | 105 | 9.521     | 9.515         | 0.006         | 93 | 6248371  | 100.0        | 110.7          |       |
| 105 4-Chlorotoluene            | 126 | 9.546     | 9.545         | 0.001         | 98 | 1712909  | 100.0        | 102.9          |       |
| 106 tert-Butylbenzene          | 134 | 9.844     | 9.844         | 0.000         | 92 | 1375025  | 100.0        | 107.9          |       |
| 107 1,2,4-Trimethylbenzene     | 105 | 9.905     | 9.904         | 0.001         | 64 | 6392838  | 100.0        | 113.2          |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 109 sec-Butylbenzene             | 105 | 10.063       | 10.063           | 0.000            | 93 | 8247290  | 100.0           | 113.6             |       |
| 111 1,3-Dichlorobenzene          | 146 | 10.197       | 10.190           | 0.007            | 98 | 3482923  | 100.0           | 100.6             |       |
| 110 4-Isopropyltoluene           | 119 | 10.215       | 10.215           | 0.000            | 96 | 7177219  | 100.0           | 117.9             |       |
| 113 1,4-Dichlorobenzene          | 146 | 10.288       | 10.288           | 0.000            | 95 | 3534767  | 100.0           | 98.3              |       |
| 115 n-Butylbenzene               | 91  | 10.610       | 10.610           | 0.000            | 95 | 6377315  | 100.0           | 116.8             |       |
| 116 1,2-Dichlorobenzene          | 146 | 10.647       | 10.647           | 0.000            | 97 | 3376611  | 100.0           | 101.9             |       |
| 117 1,2-Dibromo-3-Chloropropane  | 75  | 11.395       | 11.395           | 0.000            | 82 | 357096   | 100.0           | 121.3             |       |
| 119 1,2,4-Trichlorobenzene       | 180 | 12.070       | 12.070           | 0.000            | 91 | 2790731  | 100.0           | 111.0             |       |
| 120 Hexachlorobutadiene          | 225 | 12.192       | 12.192           | 0.000            | 97 | 1184839  | 100.0           | 107.0             |       |
| 121 Naphthalene                  | 128 | 12.283       | 12.283           | 0.000            | 97 | 7407434  | 100.0           | 126.1             |       |
| 122 1,2,3-Trichlorobenzene       | 180 | 12.490       | 12.490           | 0.000            | 96 | 2685027  | 100.0           | 108.6             |       |
| S 126 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 228.2             |       |
| S 125 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 185.5             |       |
| S 123 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 506.9             |       |
| S 124 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 207.0             |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

8260 CORP mix\_00228

Amount Added: 50.00

Units: uL

GAS CORP mix\_00524

Amount Added: 50.00

Units: uL

S\_8260\_IS\_00357

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00426

Amount Added: 1.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4502.D

Injection Date: 09-Aug-2022 19:49:30

Instrument ID: HP5973S

Lims ID: IC 7

Operator ID: AG

Client ID:

Worklist Smp#: 20

Purge Vol: 5.000 mL

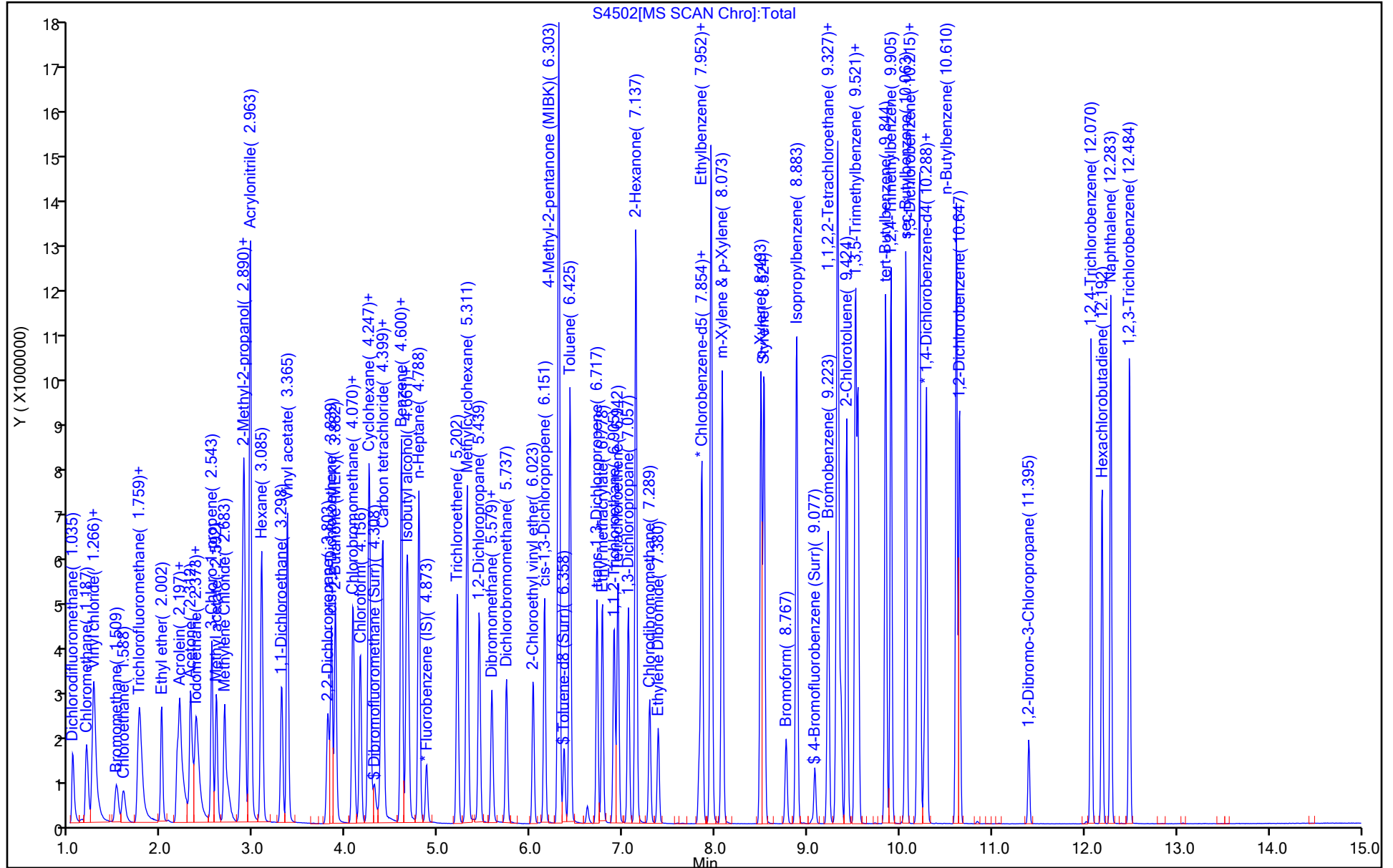
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)



# Calibration

/ Dichlorodifluoromethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

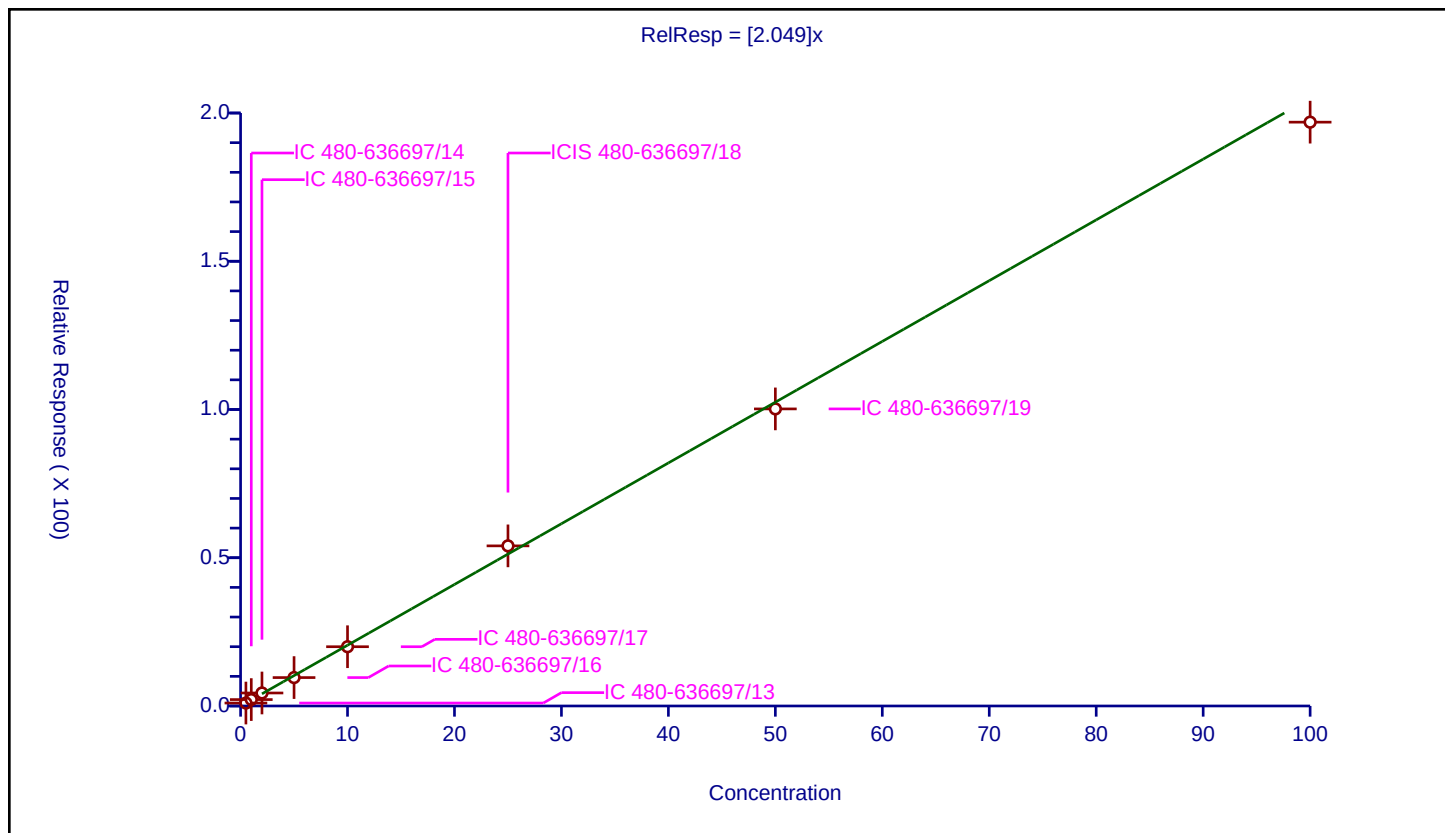
## Curve Coefficients

Intercept: 0  
 Slope: 2.049

## Error Coefficients

Standard Error: 692000  
 Relative Standard Error: 5.1  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.997705   | 25.0      | 182544.0    | 1.995409 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.160801   | 25.0      | 180801.0    | 2.160801 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 4.380822   | 25.0      | 180885.0    | 2.190411 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 9.580937   | 25.0      | 187299.0    | 1.916187 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 19.98633   | 25.0      | 192025.0    | 1.998633 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 54.006796  | 25.0      | 182908.0    | 2.160272 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 100.202986 | 25.0      | 196073.0    | 2.00406  | Y    |
| 8  | IC 480-636697/20   | 100.0         | 196.915069 | 25.0      | 202695.0    | 1.969151 | Y    |



# Calibration

/ Chloromethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

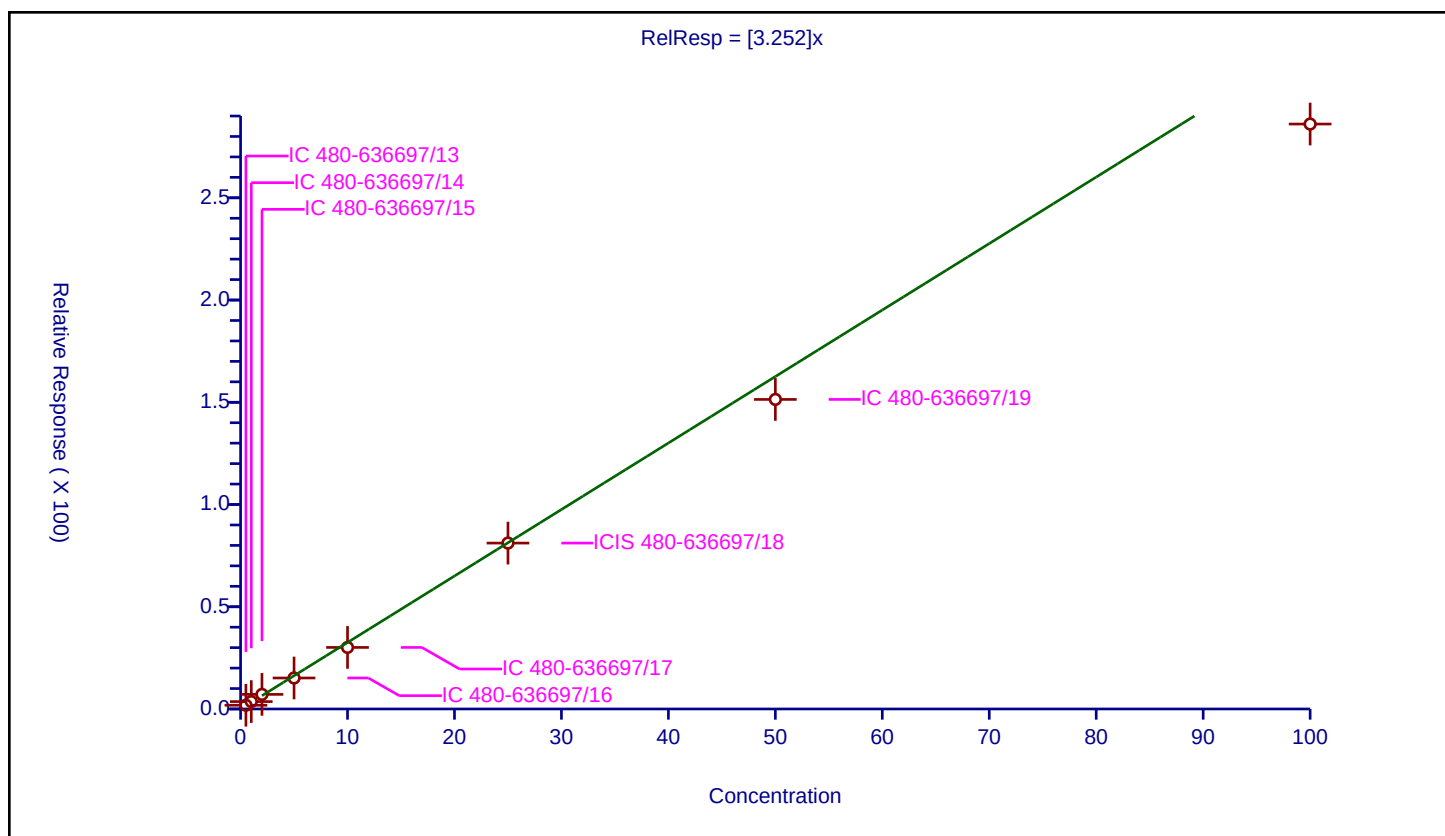
## Curve Coefficients

Intercept: 0  
 Slope: 3.252

## Error Coefficients

Standard Error: 1010000  
 Relative Standard Error: 9.8  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.986

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.827779   | 25.0      | 182544.0    | 3.655557 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 3.615024   | 25.0      | 180801.0    | 3.615024 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 7.133814   | 25.0      | 180885.0    | 3.566907 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 15.15518   | 25.0      | 187299.0    | 3.031036 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 30.110923  | 25.0      | 192025.0    | 3.011092 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 81.142159  | 25.0      | 182908.0    | 3.245686 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 151.395781 | 25.0      | 196073.0    | 3.027916 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 286.069217 | 25.0      | 202695.0    | 2.860692 | Y    |



# Calibration

/ Vinyl chloride

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

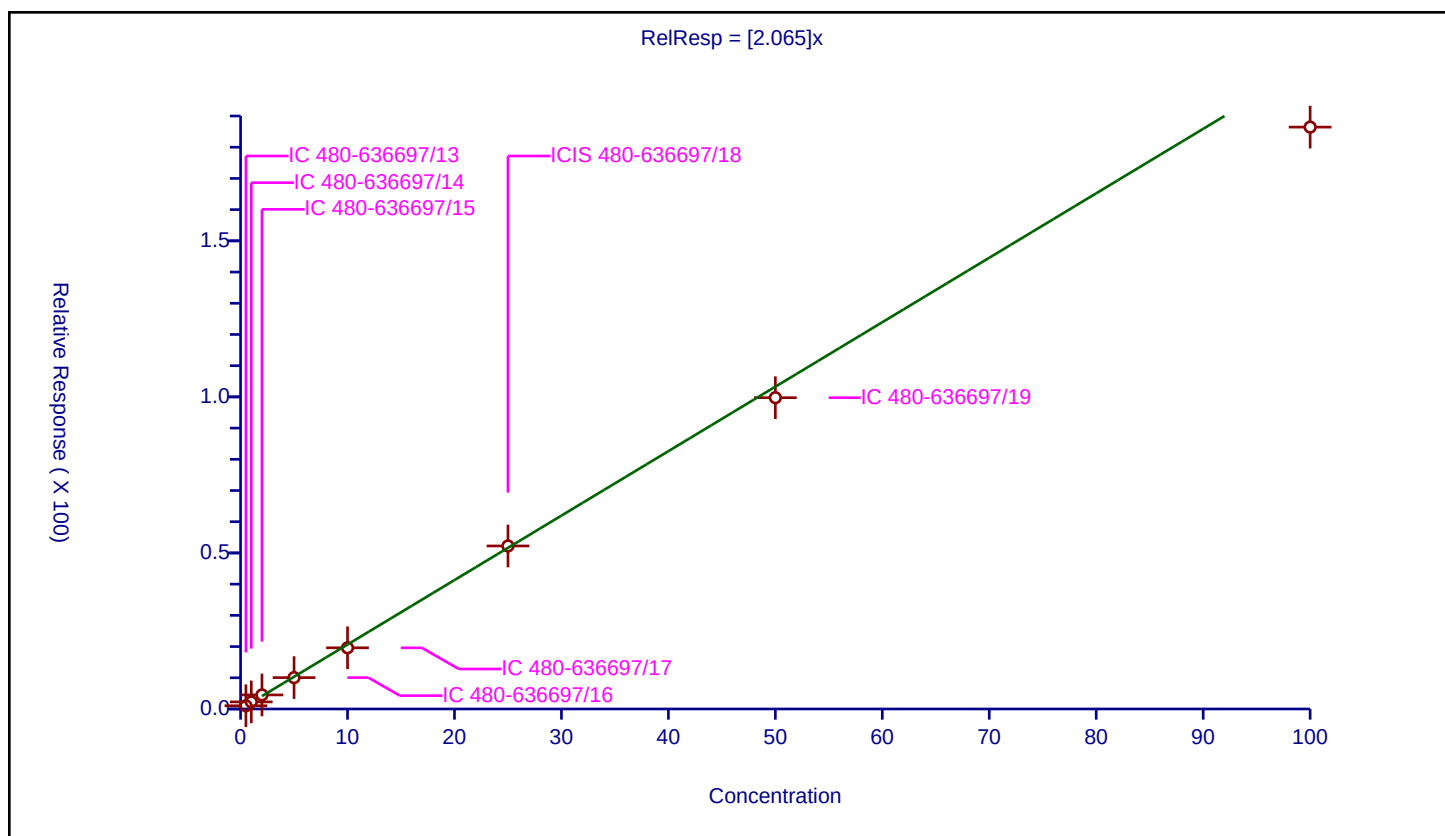
## Curve Coefficients

Intercept: 0  
 Slope: 2.065

## Error Coefficients

Standard Error: 662000  
 Relative Standard Error: 6.7  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.04153    | 25.0      | 182544.0    | 2.083059 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.265889   | 25.0      | 180801.0    | 2.265889 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 4.508251   | 25.0      | 180885.0    | 2.254126 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 10.053577  | 25.0      | 187299.0    | 2.010715 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 19.606431  | 25.0      | 192025.0    | 1.960643 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 52.235413  | 25.0      | 182908.0    | 2.089417 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 99.741805  | 25.0      | 196073.0    | 1.994836 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 186.447742 | 25.0      | 202695.0    | 1.864477 | Y    |





## Calibration

/ Butadiene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

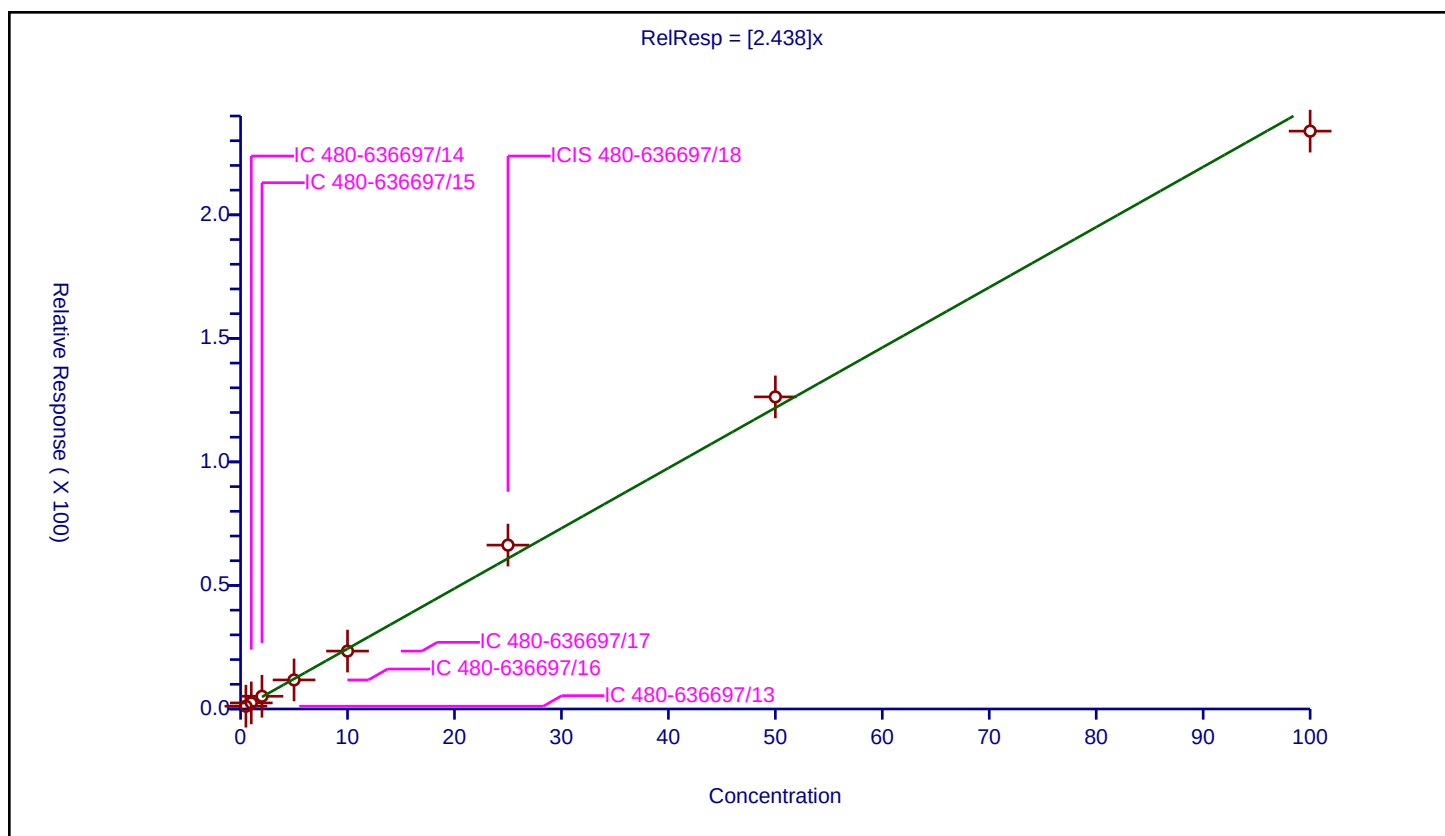
## Curve Coefficients

Intercept: 0  
Slope: 2.438

## Error Coefficients

Standard Error: 833000  
Relative Standard Error: 5.7  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.128221   | 25.0      | 182544.0    | 2.256442 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.456845   | 25.0      | 180801.0    | 2.456845 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 5.152445   | 25.0      | 180885.0    | 2.576222 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 11.756737  | 25.0      | 187299.0    | 2.351347 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 23.433667  | 25.0      | 192025.0    | 2.343367 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 66.333075  | 25.0      | 182908.0    | 2.653323 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 126.311246 | 25.0      | 196073.0    | 2.526225 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 233.875157 | 25.0      | 202695.0    | 2.338752 | Y    |



# Calibration

/ Bromomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

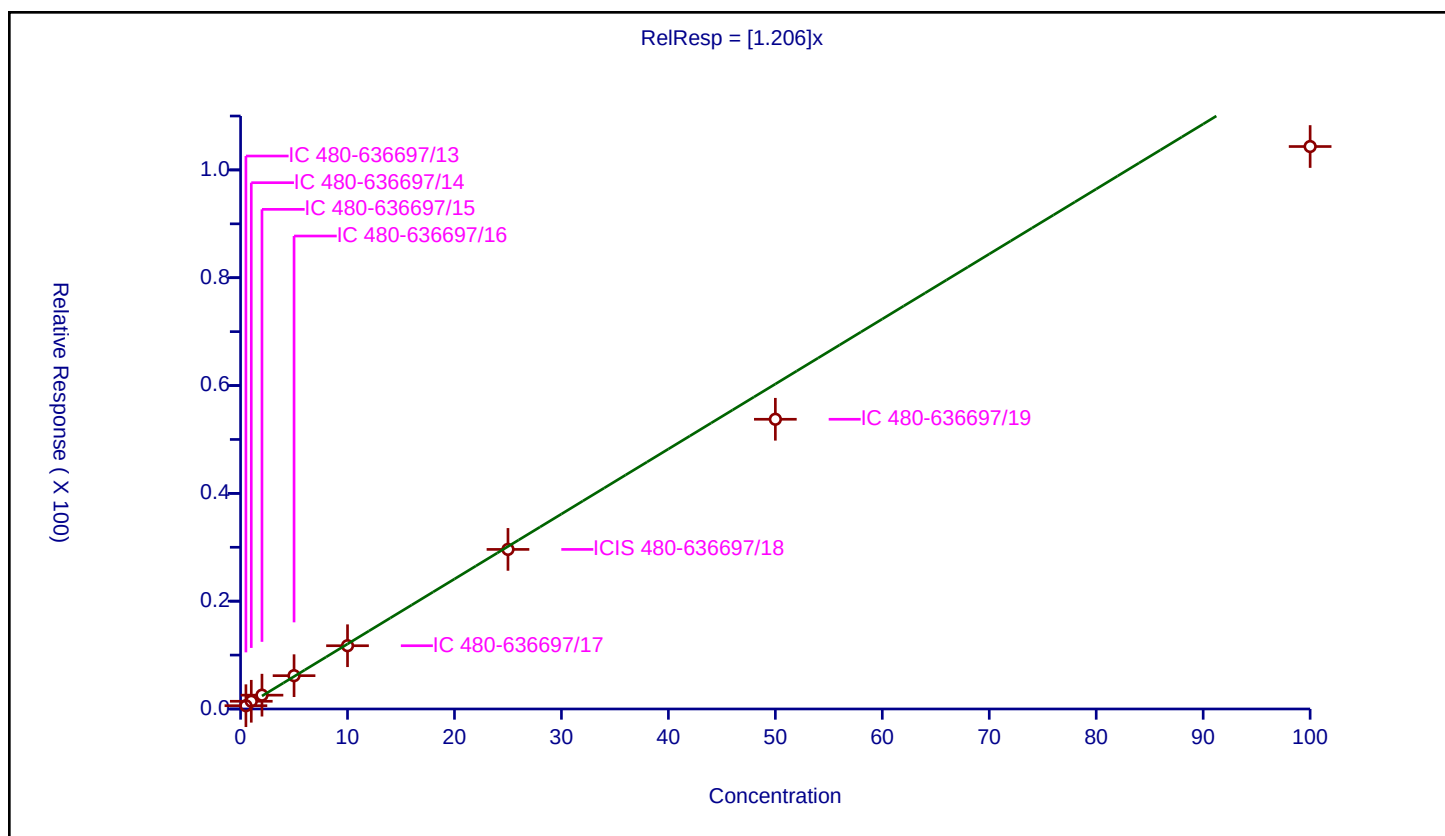
## Curve Coefficients

Intercept: 0  
 Slope: 1.206

## Error Coefficients

Standard Error: 369000  
 Relative Standard Error: 10.1  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.986

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.609442   | 25.0      | 182544.0    | 1.218884 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.431131   | 25.0      | 180801.0    | 1.431131 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.565857   | 25.0      | 180885.0    | 1.282928 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 6.182361   | 25.0      | 187299.0    | 1.236472 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 11.737795  | 25.0      | 192025.0    | 1.173779 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 29.603134  | 25.0      | 182908.0    | 1.184125 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 53.742484  | 25.0      | 196073.0    | 1.07485  | Y    |
| 8  | IC 480-636697/20   | 100.0         | 104.340388 | 25.0      | 202695.0    | 1.043404 | Y    |



# Calibration

/ Chloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

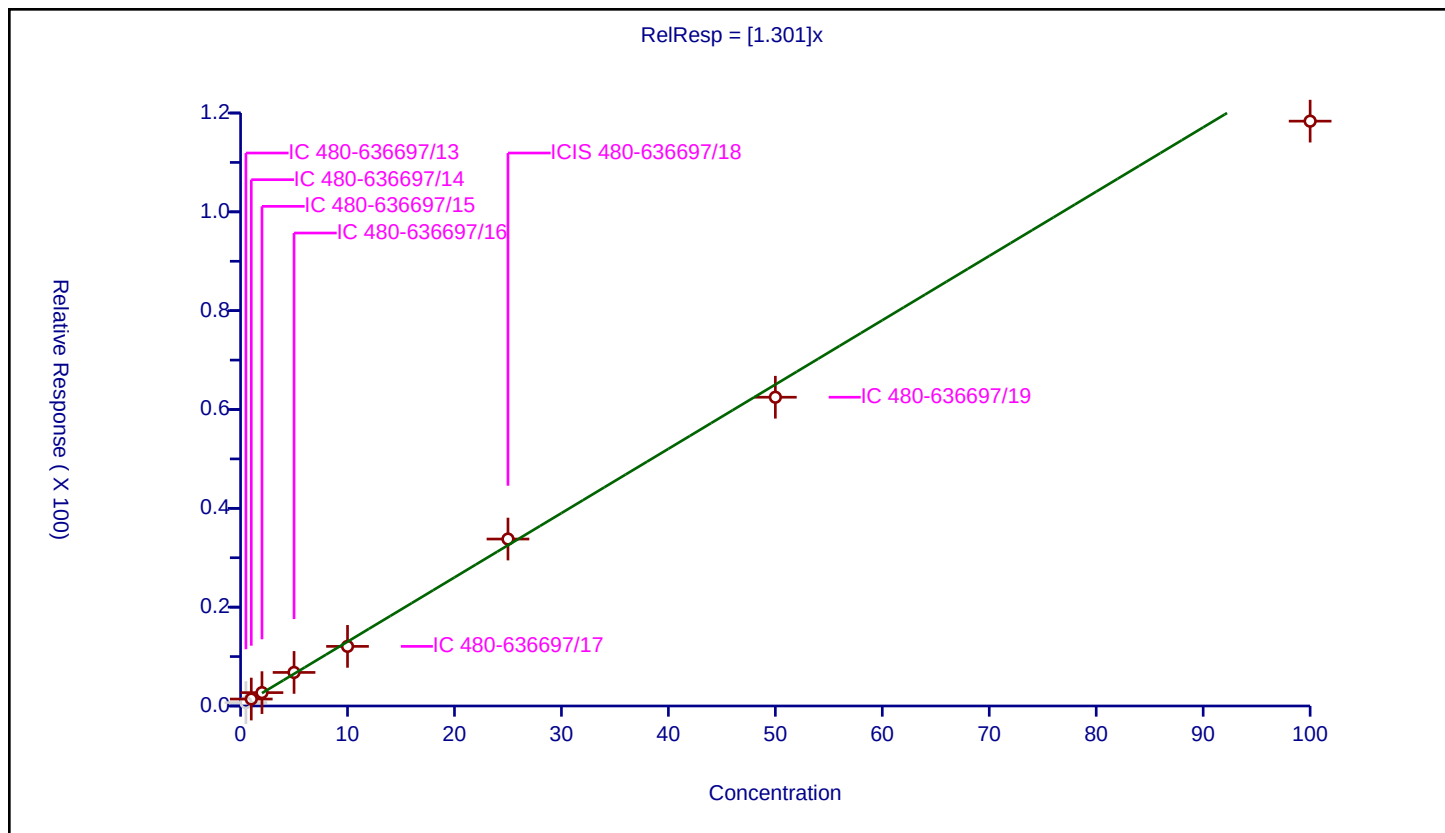
## Curve Coefficients

Intercept: 0  
 Slope: 1.301

## Error Coefficients

Standard Error: 453000  
 Relative Standard Error: 6.6  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.689149   | 25.0      | 182544.0    | 1.378298 | N    |
| 2  | IC 480-636697/14   | 1.0           | 1.404445   | 25.0      | 180801.0    | 1.404445 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.70683    | 25.0      | 180885.0    | 1.353415 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 6.792615   | 25.0      | 187299.0    | 1.358523 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 12.064315  | 25.0      | 192025.0    | 1.206431 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 33.783241  | 25.0      | 182908.0    | 1.35133  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 62.485656  | 25.0      | 196073.0    | 1.249713 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 118.355164 | 25.0      | 202695.0    | 1.183552 | Y    |



## Calibration

/ Trichlorofluoromethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

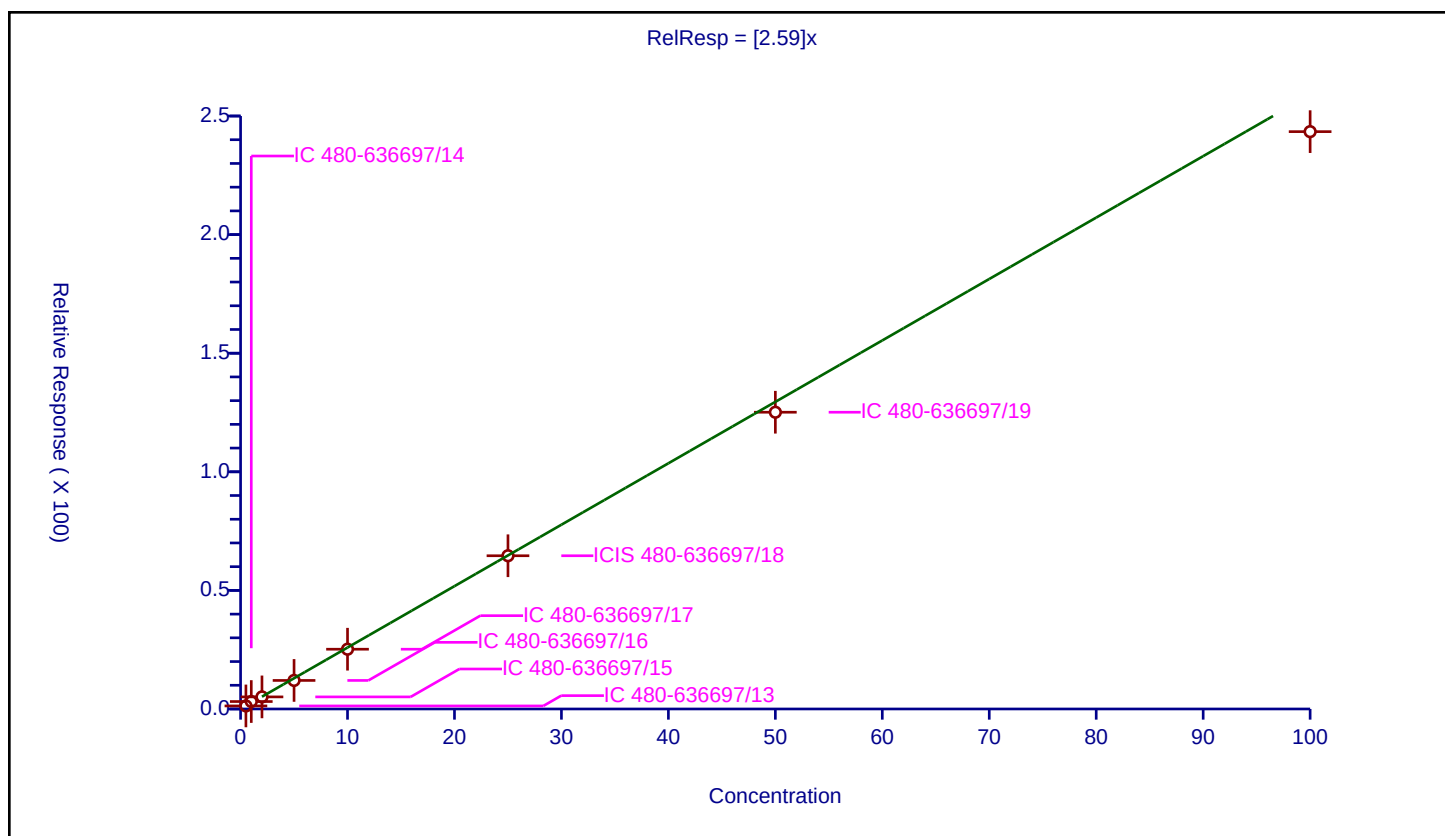
## Curve Coefficients

Intercept: 0  
Slope: 2.59

## Error Coefficients

Standard Error: 856000  
Relative Standard Error: 9.0  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.989

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.289689   | 25.0      | 182544.0    | 2.579378 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 3.144064   | 25.0      | 180801.0    | 3.144064 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 5.094535   | 25.0      | 180885.0    | 2.547268 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 12.032365  | 25.0      | 187299.0    | 2.406473 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 25.198932  | 25.0      | 192025.0    | 2.519893 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 64.610487  | 25.0      | 182908.0    | 2.584419 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 125.112076 | 25.0      | 196073.0    | 2.502242 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 243.408076 | 25.0      | 202695.0    | 2.434081 | Y    |



# Calibration

/ Dichlorofluoromethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

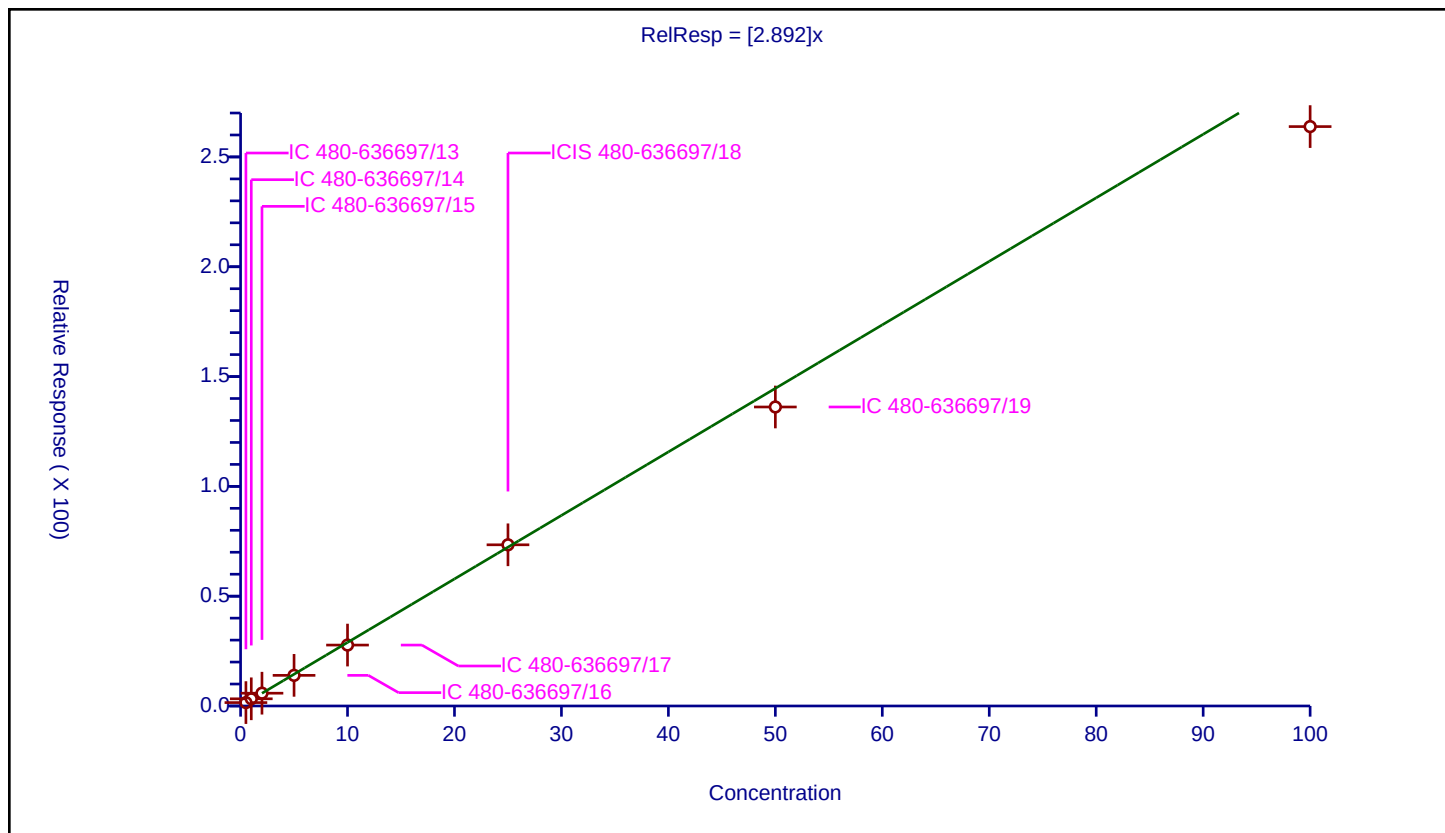
## Curve Coefficients

Intercept: 0  
 Slope: 2.892

## Error Coefficients

Standard Error: 931000  
 Relative Standard Error: 7.2  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.992

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.550722   | 25.0      | 182544.0    | 3.101444 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 3.266298   | 25.0      | 180801.0    | 3.266298 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 5.824972   | 25.0      | 180885.0    | 2.912486 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 13.940277  | 25.0      | 187299.0    | 2.788055 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 27.735711  | 25.0      | 192025.0    | 2.773571 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 73.391131  | 25.0      | 182908.0    | 2.935645 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 136.148654 | 25.0      | 196073.0    | 2.722973 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 263.821259 | 25.0      | 202695.0    | 2.638213 | Y    |



# Calibration

/ Ethyl ether

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

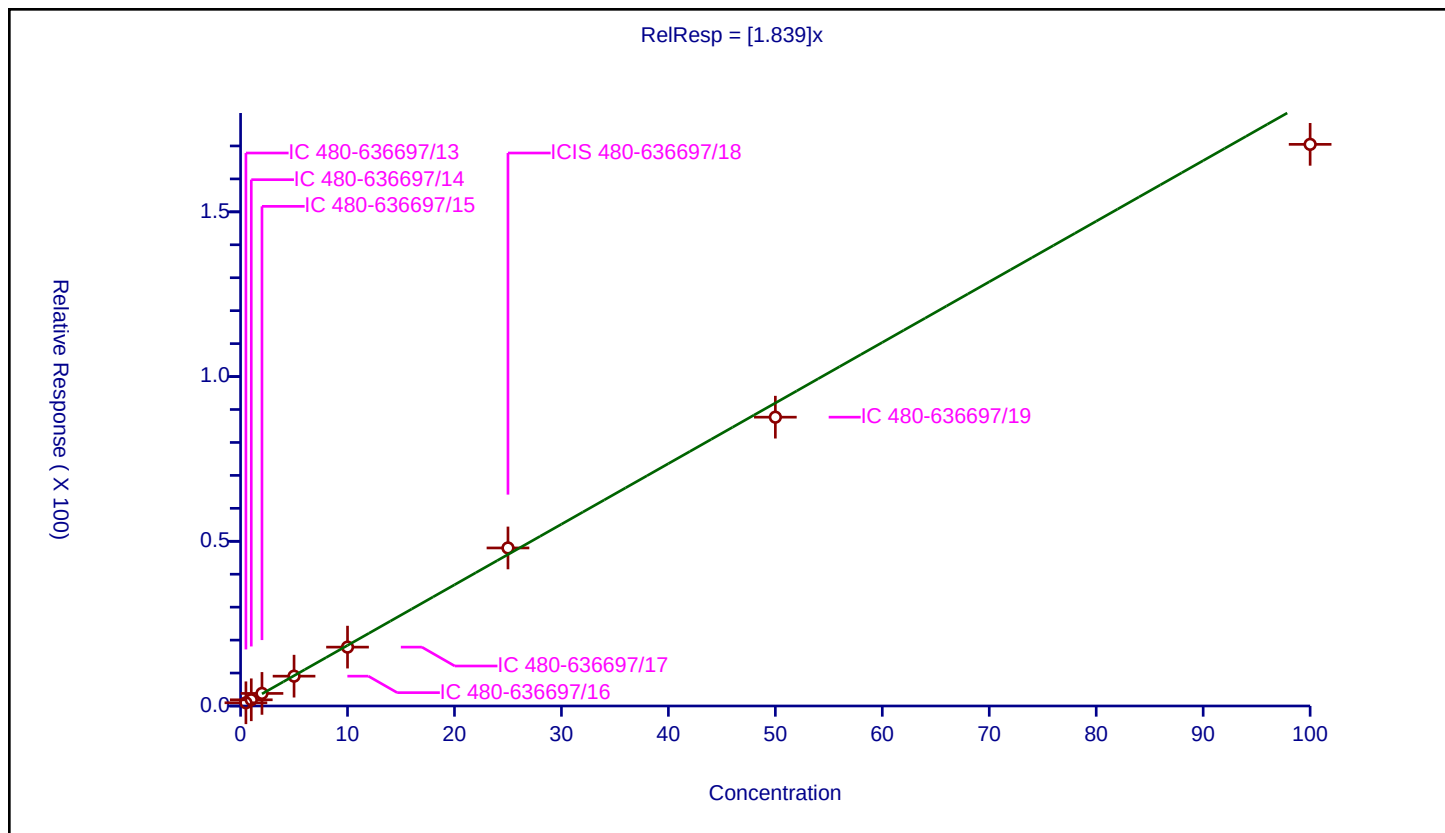
## Curve Coefficients

Intercept: 0  
Slope: 1.839

## Error Coefficients

Standard Error: 601000  
Relative Standard Error: 4.8  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.974833   | 25.0      | 182544.0    | 1.949667 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.879553   | 25.0      | 180801.0    | 1.879553 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 3.820245   | 25.0      | 180885.0    | 1.910122 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 9.056509   | 25.0      | 187299.0    | 1.811302 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 17.869939  | 25.0      | 192025.0    | 1.786994 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 47.976988  | 25.0      | 182908.0    | 1.91908  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 87.670918  | 25.0      | 196073.0    | 1.753418 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 170.488542 | 25.0      | 202695.0    | 1.704885 | Y    |



## Calibration

/ Acrolein

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

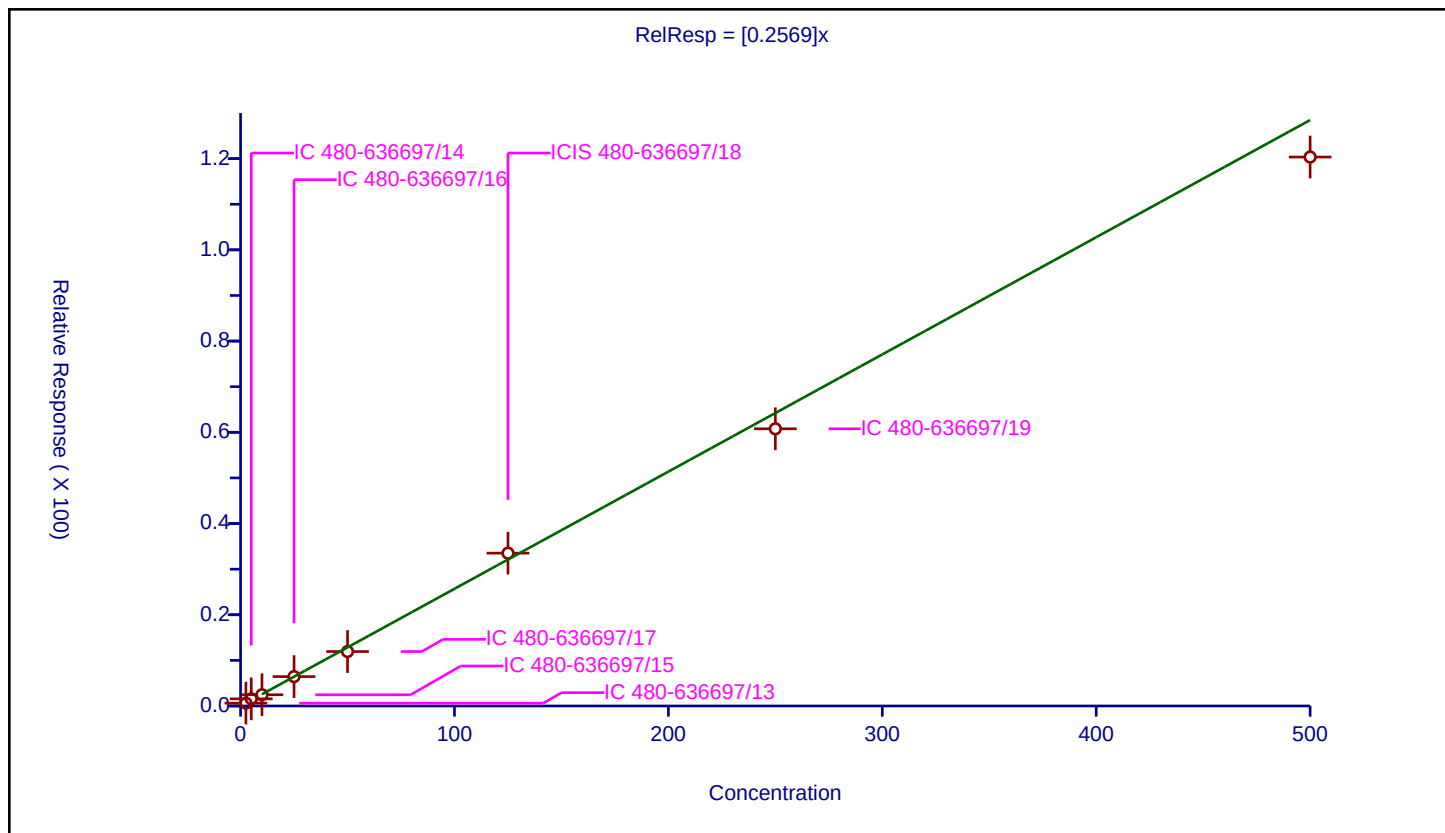
### Curve Coefficients

Intercept: 0  
 Slope: 0.2569

### Error Coefficients

Standard Error: 423000  
 Relative Standard Error: 9.5  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.988

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 2.5           | 0.620398   | 25.0      | 182544.0    | 0.248159 | Y    |
| 2  | IC 480-636697/14   | 5.0           | 1.561523   | 25.0      | 180801.0    | 0.312305 | Y    |
| 3  | IC 480-636697/15   | 10.0          | 2.466761   | 25.0      | 180885.0    | 0.246676 | Y    |
| 4  | IC 480-636697/16   | 25.0          | 6.438235   | 25.0      | 187299.0    | 0.257529 | Y    |
| 5  | IC 480-636697/17   | 50.0          | 11.936206  | 25.0      | 192025.0    | 0.238724 | Y    |
| 6  | ICIS 480-636697/18 | 125.0         | 33.508649  | 25.0      | 182908.0    | 0.268069 | Y    |
| 7  | IC 480-636697/19   | 250.0         | 60.766781  | 25.0      | 196073.0    | 0.243067 | Y    |
| 8  | IC 480-636697/20   | 500.0         | 120.3488   | 25.0      | 202695.0    | 0.240698 | Y    |



# Calibration

/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

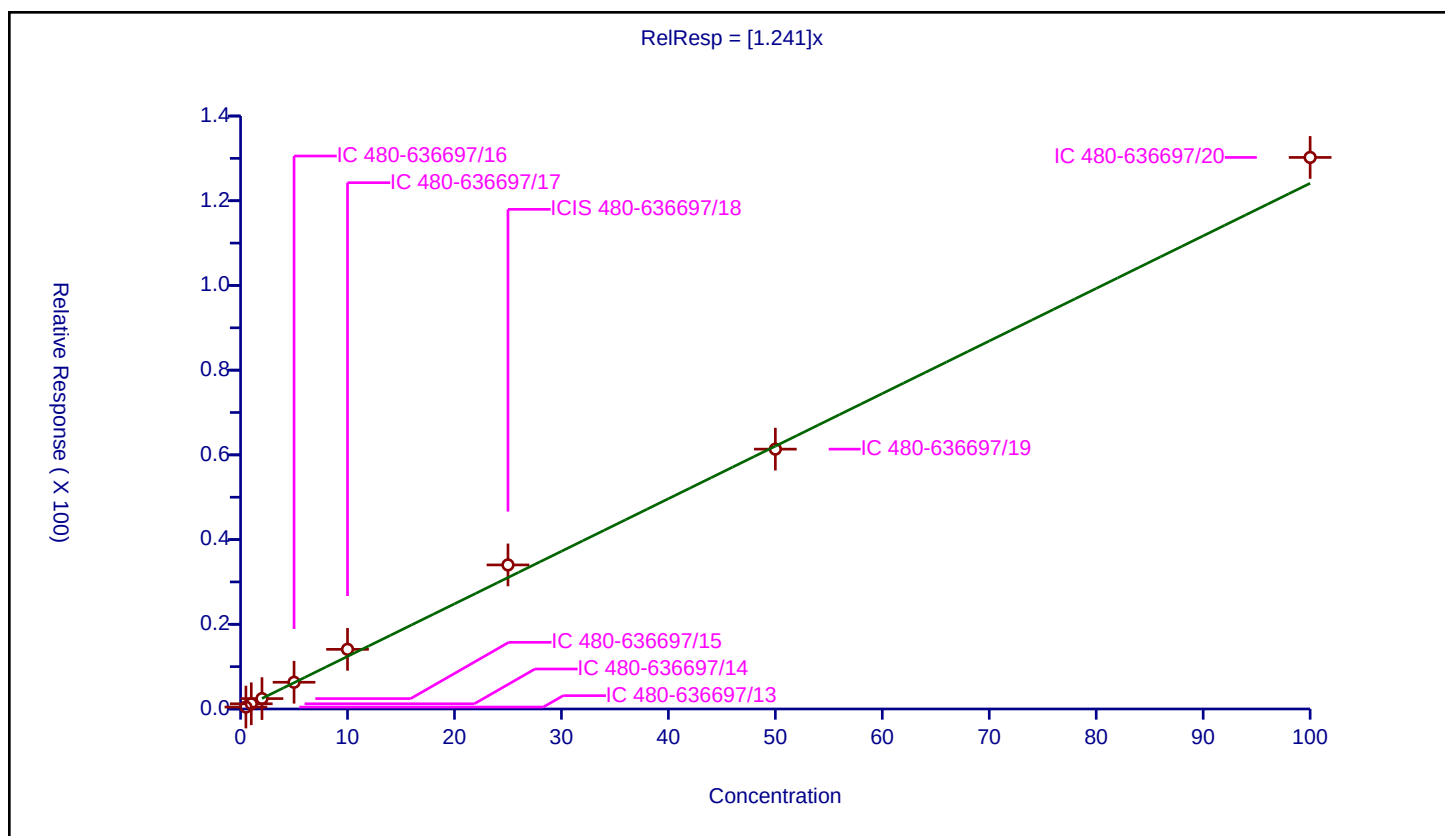
## Curve Coefficients

Intercept: 0  
Slope: 1.241

## Error Coefficients

Standard Error: 451000  
Relative Standard Error: 12.0  
Correlation Coefficient: 0.998  
Coefficient of Determination (Adjusted): 0.983

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.455507   | 25.0      | 182544.0    | 0.911013 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.231741   | 25.0      | 180801.0    | 1.231741 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.452802   | 25.0      | 180885.0    | 1.226401 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 6.309297   | 25.0      | 187299.0    | 1.261859 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 14.082021  | 25.0      | 192025.0    | 1.408202 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 34.016965  | 25.0      | 182908.0    | 1.360679 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 61.350492  | 25.0      | 196073.0    | 1.22701  | Y    |
| 8  | IC 480-636697/20   | 100.0         | 130.220898 | 25.0      | 202695.0    | 1.302209 | Y    |





# Calibration

/ 1,1-Dichloroethene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

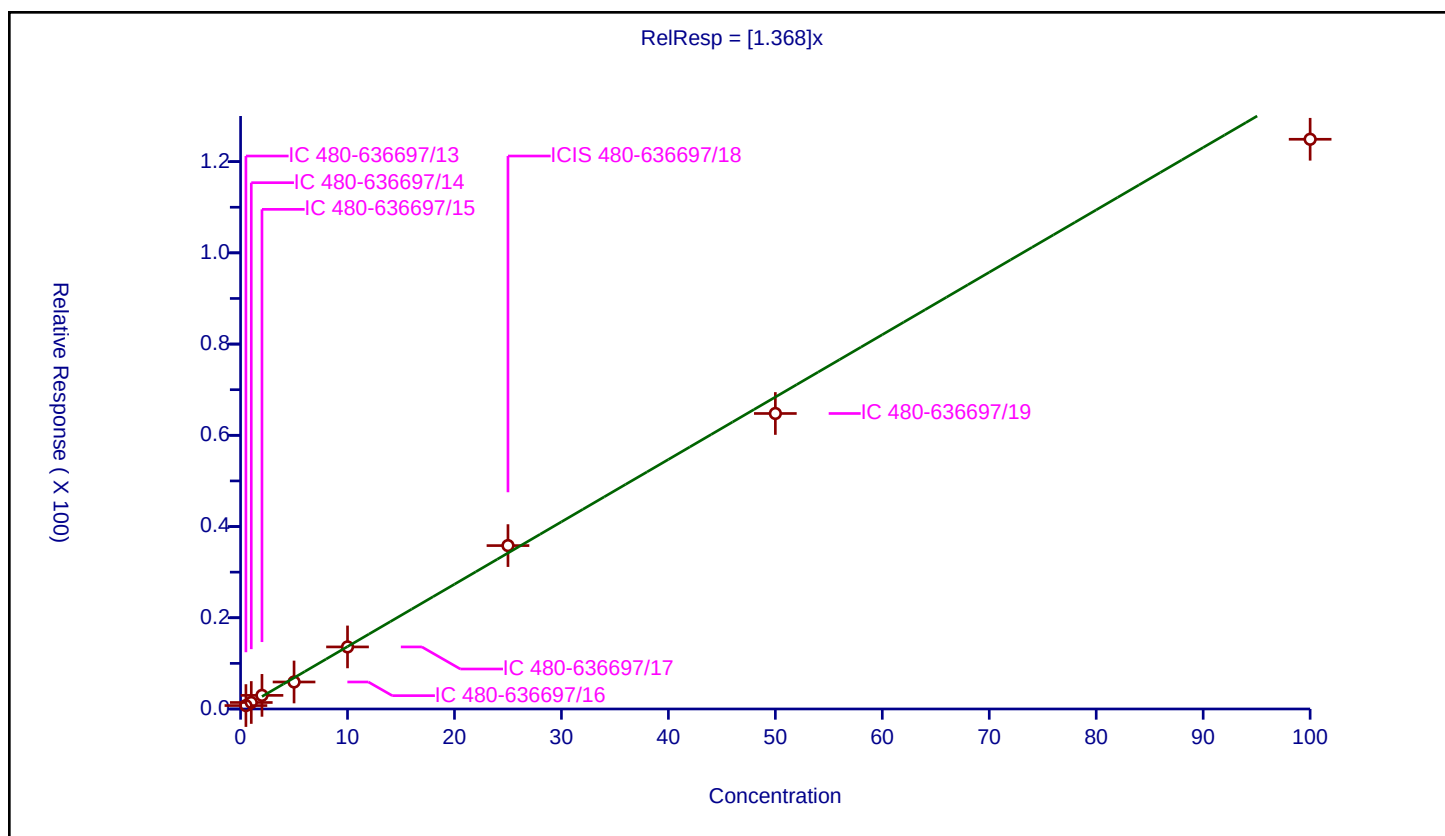
## Curve Coefficients

Intercept: 0  
 Slope: 1.368

## Error Coefficients

Standard Error: 442000  
 Relative Standard Error: 8.5  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.990

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.752421   | 25.0      | 182544.0    | 1.504843 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.422005   | 25.0      | 180801.0    | 1.422005 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.984908   | 25.0      | 180885.0    | 1.492454 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 5.92048    | 25.0      | 187299.0    | 1.184096 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 13.604609  | 25.0      | 192025.0    | 1.360461 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 35.825661  | 25.0      | 182908.0    | 1.433026 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 64.783525  | 25.0      | 196073.0    | 1.29567  | Y    |
| 8  | IC 480-636697/20   | 100.0         | 124.902193 | 25.0      | 202695.0    | 1.249022 | Y    |



# Calibration

/ Acetone

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

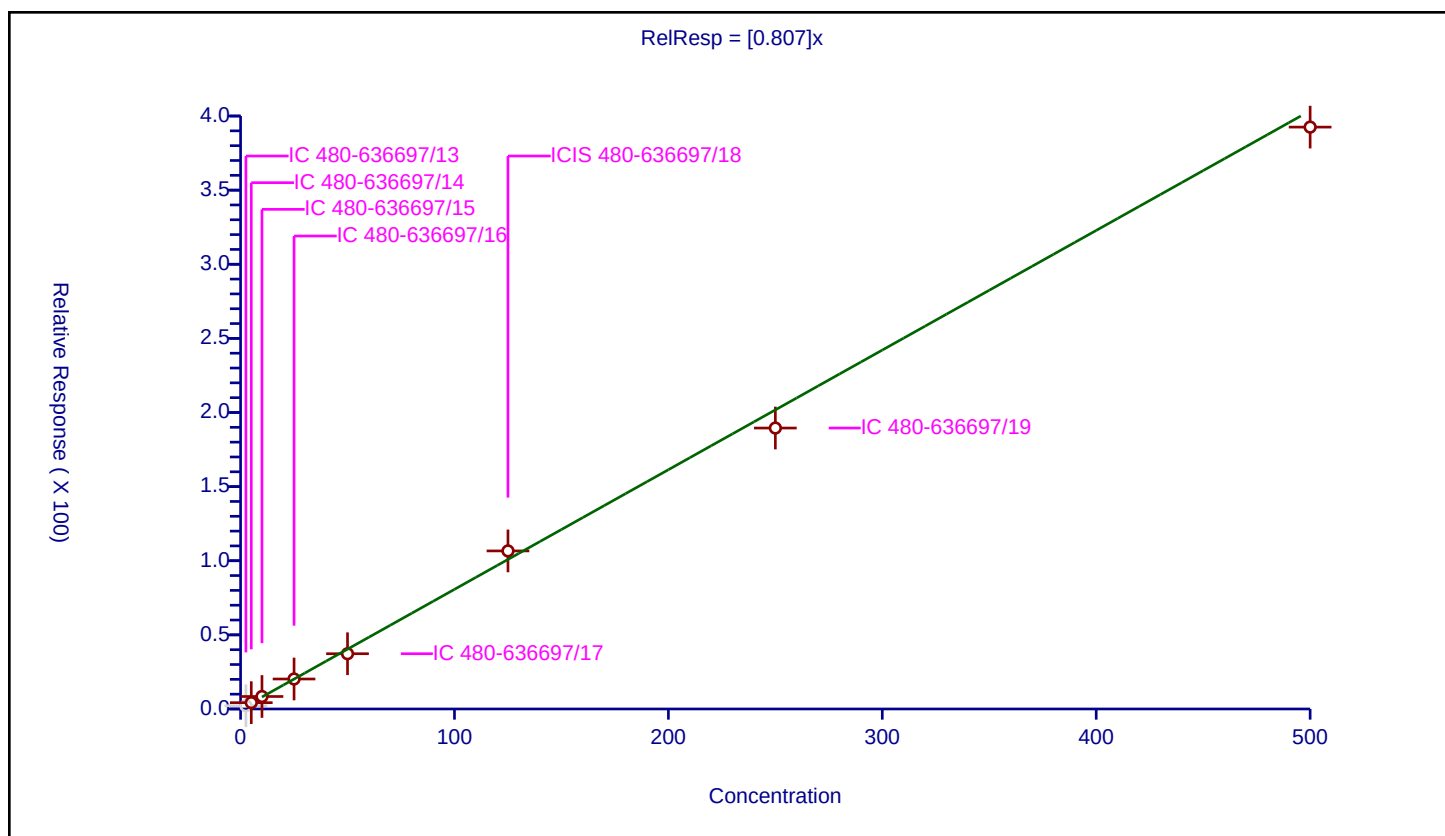
## Curve Coefficients

Intercept: 0  
Slope: 0.807

## Error Coefficients

Standard Error: 1470000  
Relative Standard Error: 5.6  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 2.5           | 2.200291   | 25.0      | 182544.0    | 0.880117 | N    |
| 2  | IC 480-636697/14   | 5.0           | 4.279014   | 25.0      | 180801.0    | 0.855803 | Y    |
| 3  | IC 480-636697/15   | 10.0          | 8.427177   | 25.0      | 180885.0    | 0.842718 | Y    |
| 4  | IC 480-636697/16   | 25.0          | 20.230754  | 25.0      | 187299.0    | 0.80923  | Y    |
| 5  | IC 480-636697/17   | 50.0          | 37.274834  | 25.0      | 192025.0    | 0.745497 | Y    |
| 6  | ICIS 480-636697/18 | 125.0         | 106.622728 | 25.0      | 182908.0    | 0.852982 | Y    |
| 7  | IC 480-636697/19   | 250.0         | 189.508372 | 25.0      | 196073.0    | 0.758033 | Y    |
| 8  | IC 480-636697/20   | 500.0         | 392.516342 | 25.0      | 202695.0    | 0.785033 | Y    |



# Calibration

/ Iodomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

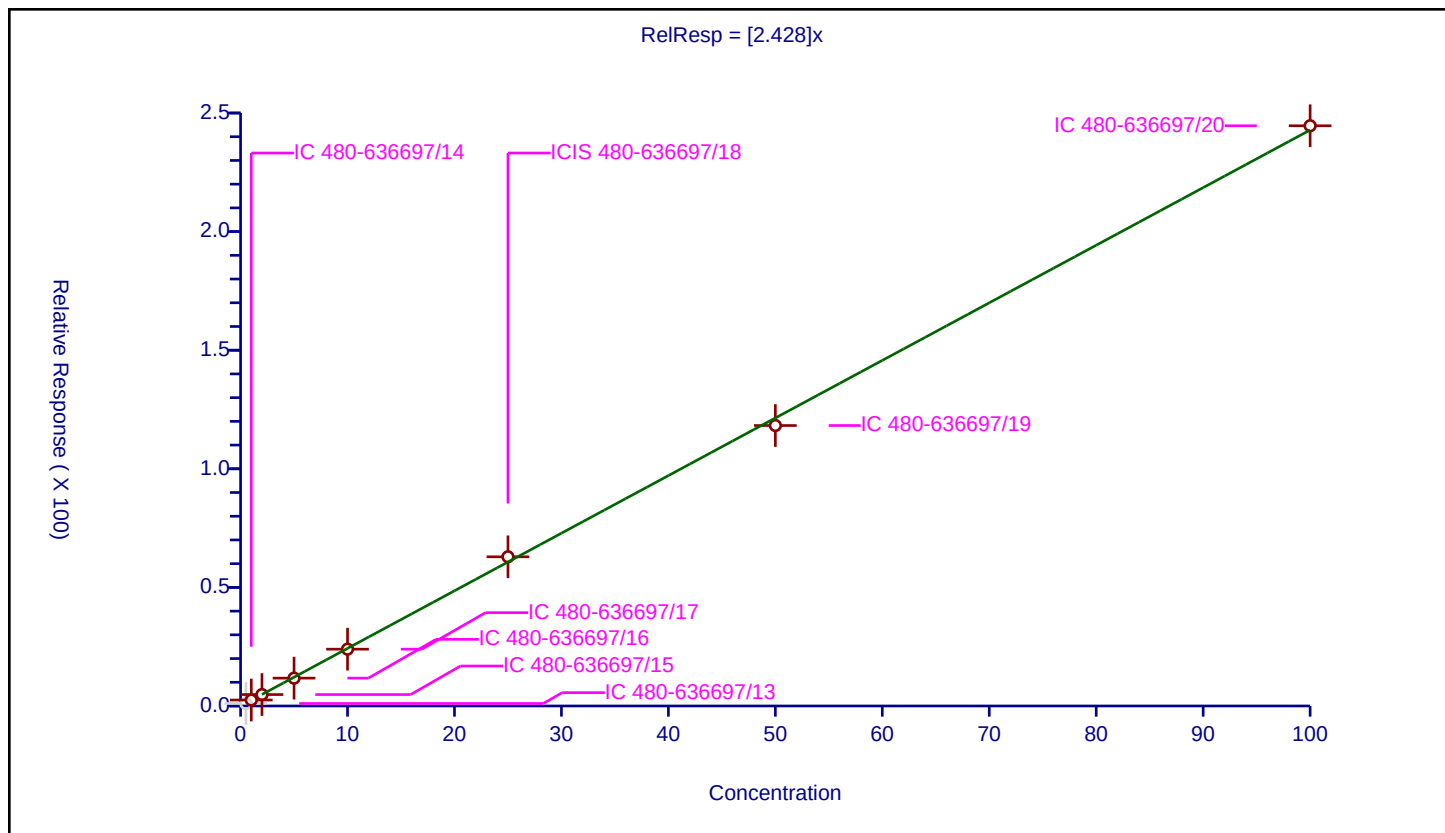
## Curve Coefficients

Intercept: 0  
 Slope: 2.428

## Error Coefficients

Standard Error: 917000  
 Relative Standard Error: 2.8  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.999

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.059197   | 25.0      | 182544.0    | 2.118393 | N    |
| 2  | IC 480-636697/14   | 1.0           | 2.51727    | 25.0      | 180801.0    | 2.51727  | Y    |
| 3  | IC 480-636697/15   | 2.0           | 4.820742   | 25.0      | 180885.0    | 2.410371 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 11.737916  | 25.0      | 187299.0    | 2.347583 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 23.956646  | 25.0      | 192025.0    | 2.395665 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 62.893367  | 25.0      | 182908.0    | 2.515735 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 118.242568 | 25.0      | 196073.0    | 2.364851 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 244.628383 | 25.0      | 202695.0    | 2.446284 | Y    |



## Calibration

/ Carbon disulfide

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

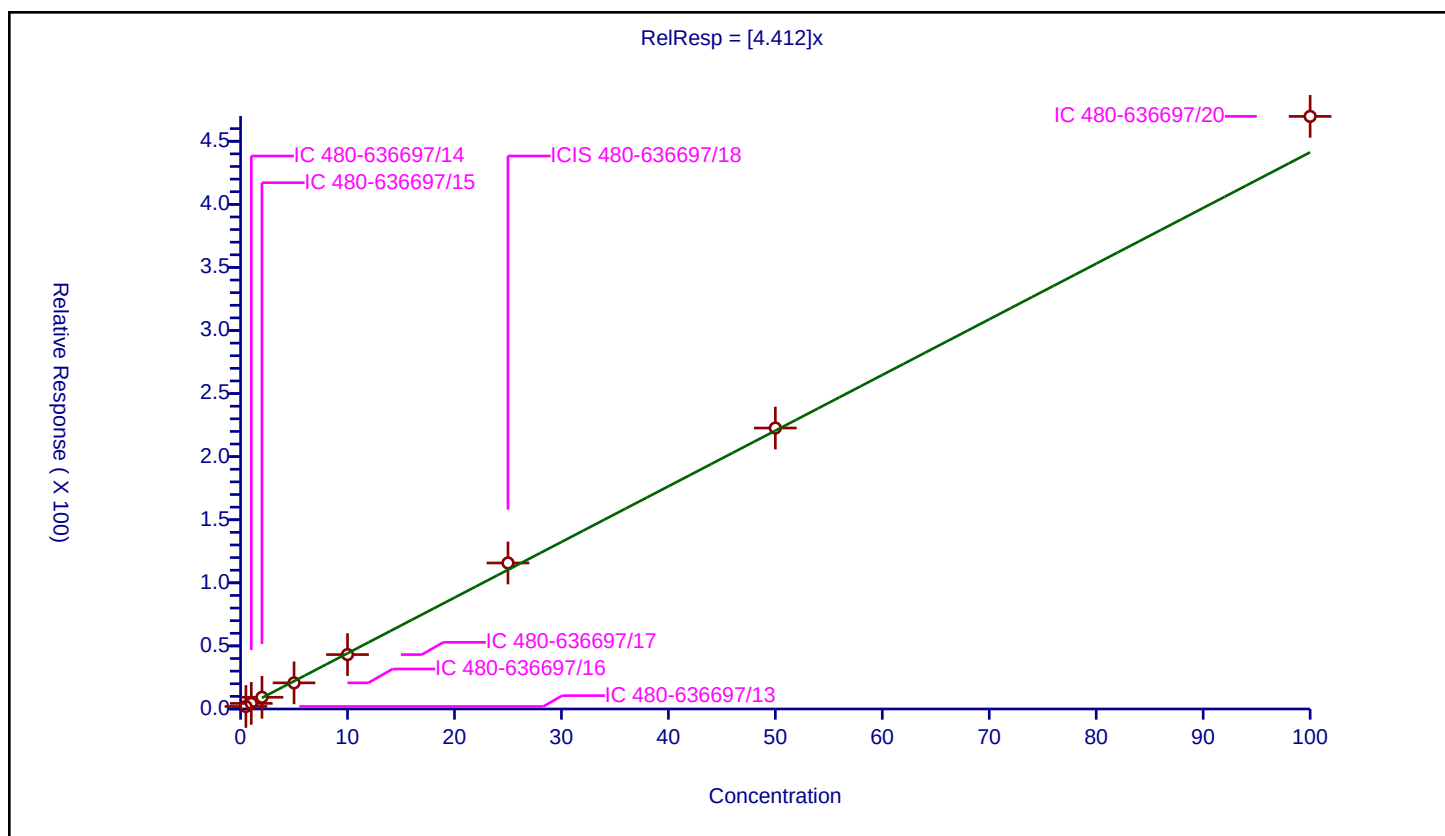
### Curve Coefficients

Intercept: 0  
 Slope: 4.412

### Error Coefficients

Standard Error: 1620000  
 Relative Standard Error: 5.7  
 Correlation Coefficient: 0.998  
 Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.999381   | 25.0      | 182544.0    | 3.998762 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 4.421297   | 25.0      | 180801.0    | 4.421297 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 9.286563   | 25.0      | 180885.0    | 4.643282 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 20.707665  | 25.0      | 187299.0    | 4.141533 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 43.135399  | 25.0      | 192025.0    | 4.31354  | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 115.740427 | 25.0      | 182908.0    | 4.629617 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 222.686831 | 25.0      | 196073.0    | 4.453737 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 469.710032 | 25.0      | 202695.0    | 4.6971   | Y    |



# Calibration

/ 3-Chloro-1-propene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

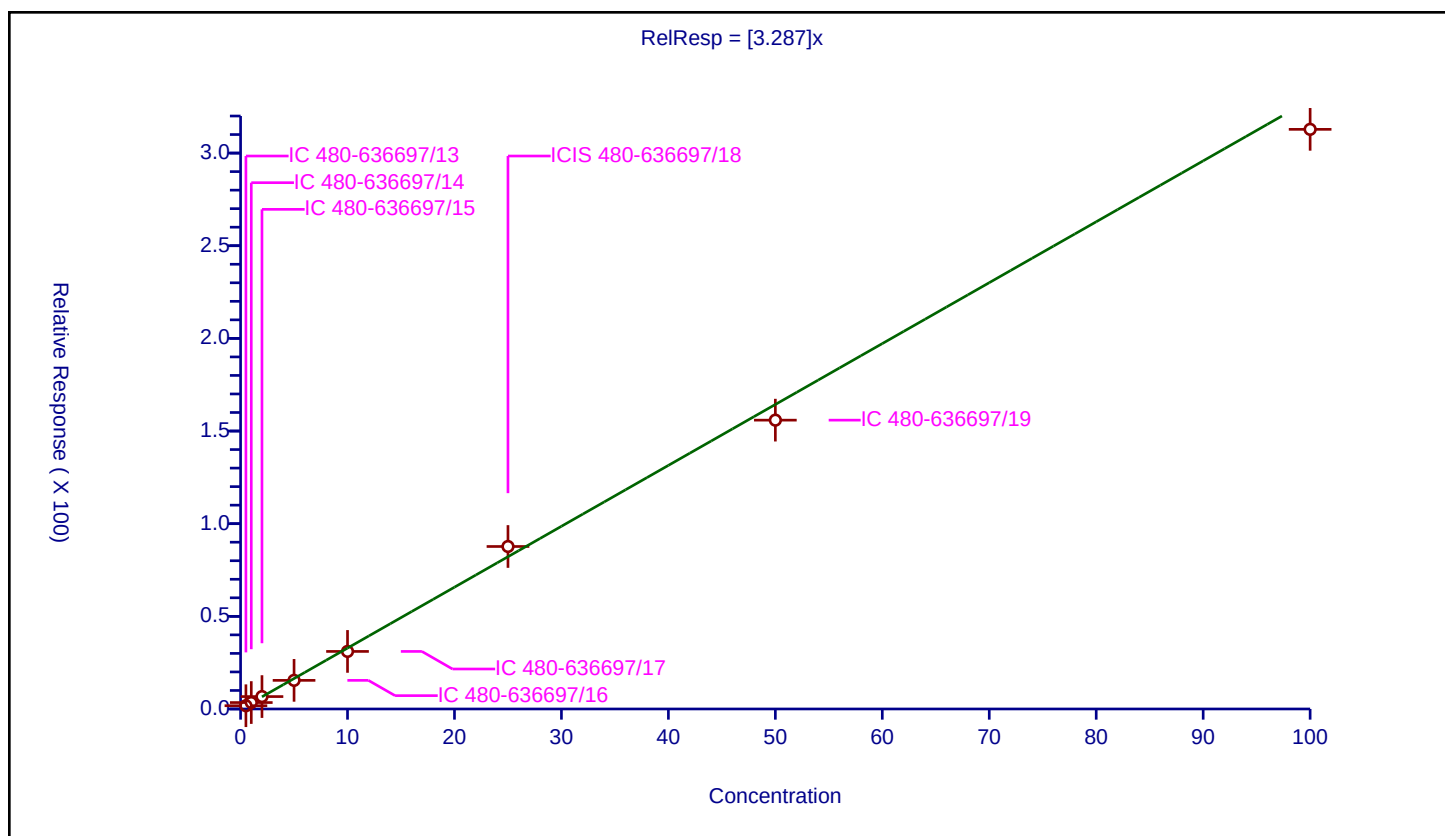
## Curve Coefficients

Intercept: 0  
 Slope: 3.287

## Error Coefficients

Standard Error: 1100000  
 Relative Standard Error: 5.9  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.757111   | 25.0      | 182544.0    | 3.514221 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 3.476474   | 25.0      | 180801.0    | 3.476474 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 6.704951   | 25.0      | 180885.0    | 3.352475 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 15.452966  | 25.0      | 187299.0    | 3.090593 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 31.057414  | 25.0      | 192025.0    | 3.105741 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 87.691216  | 25.0      | 182908.0    | 3.507649 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 155.87243  | 25.0      | 196073.0    | 3.117449 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 312.80964  | 25.0      | 202695.0    | 3.128096 | Y    |



# Calibration

/ Methyl acetate

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

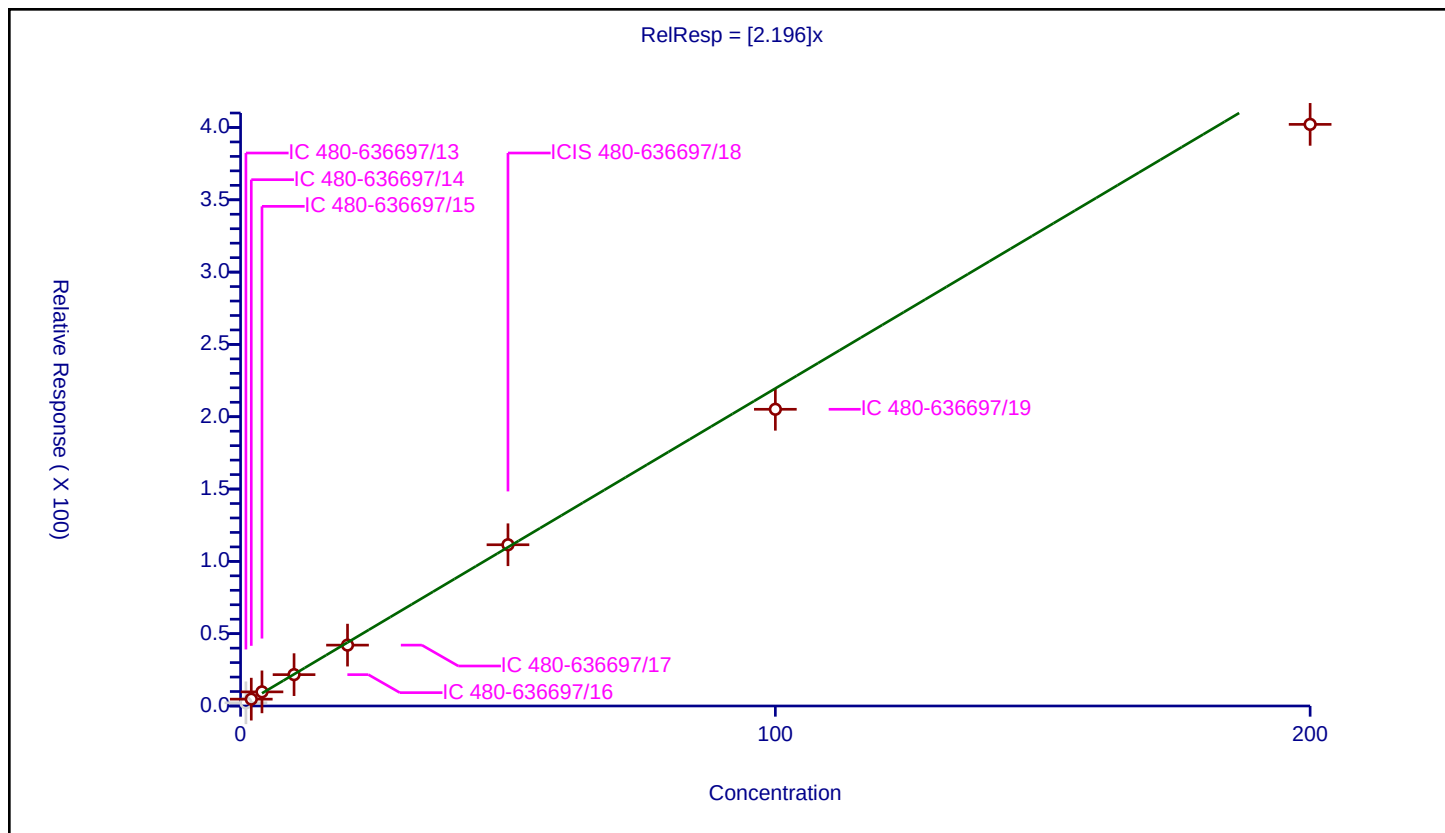
## Curve Coefficients

Intercept: 0  
Slope: 2.196

## Error Coefficients

Standard Error: 1530000  
Relative Standard Error: 7.3  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.992

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 1.0           | 2.205359   | 25.0      | 182544.0    | 2.205359 | N    |
| 2  | IC 480-636697/14   | 2.0           | 4.729509   | 25.0      | 180801.0    | 2.364755 | Y    |
| 3  | IC 480-636697/15   | 4.0           | 9.765597   | 25.0      | 180885.0    | 2.441399 | Y    |
| 4  | IC 480-636697/16   | 10.0          | 21.668429  | 25.0      | 187299.0    | 2.166843 | Y    |
| 5  | IC 480-636697/17   | 20.0          | 42.090613  | 25.0      | 192025.0    | 2.104531 | Y    |
| 6  | ICIS 480-636697/18 | 50.0          | 111.480772 | 25.0      | 182908.0    | 2.229615 | Y    |
| 7  | IC 480-636697/19   | 100.0         | 205.144257 | 25.0      | 196073.0    | 2.051443 | Y    |
| 8  | IC 480-636697/20   | 200.0         | 402.148178 | 25.0      | 202695.0    | 2.010741 | Y    |



# Calibration

/ Methylene Chloride

Curve Type: Linear  
 Weighting: Conc  
 Origin: None  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

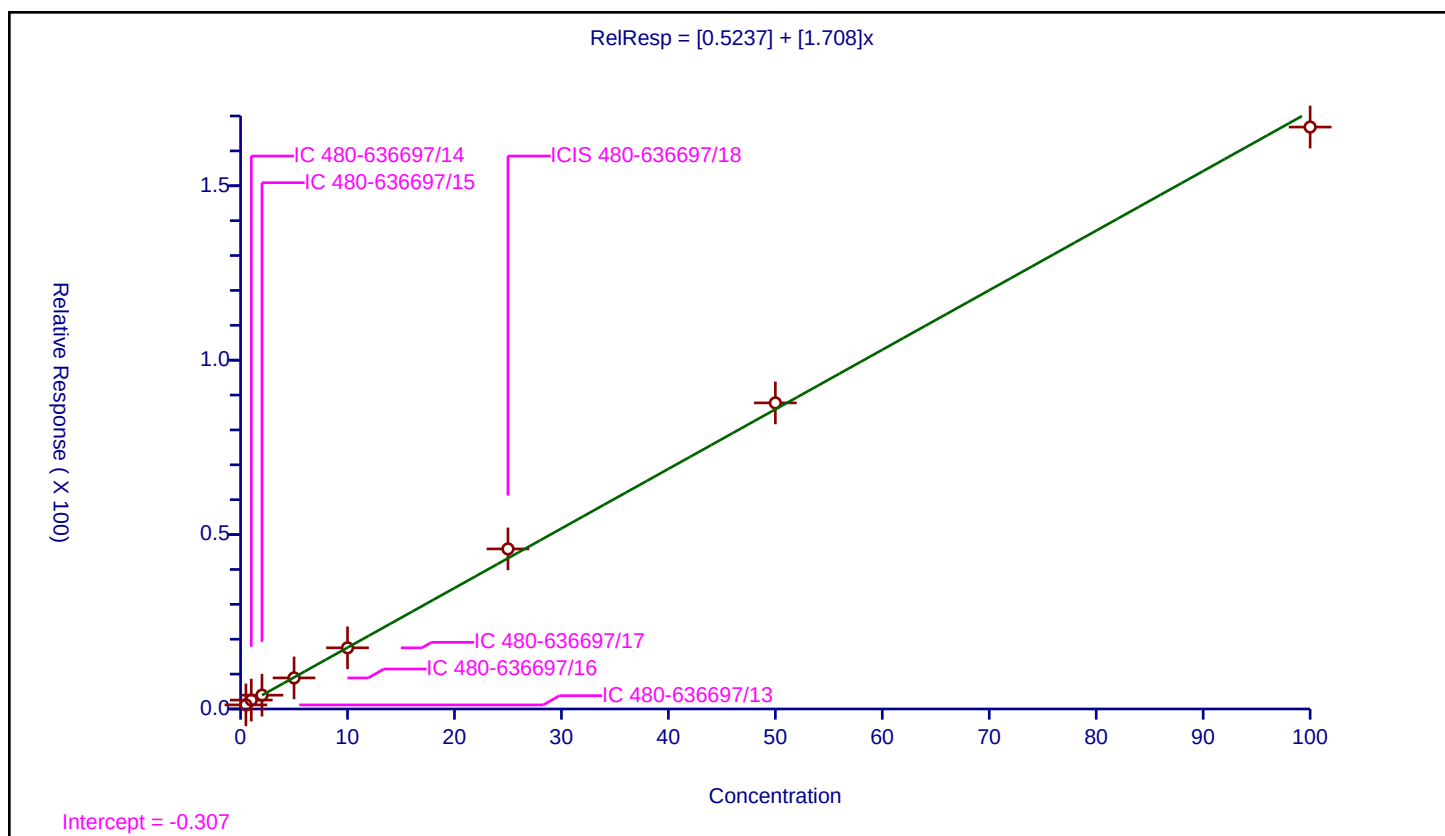
## Curve Coefficients

Intercept: 0.5237  
 Slope: 1.708

## Error Coefficients

Standard Error: 638000  
 Relative Standard Error: 12.7  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.999

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.176566   | 25.0      | 182544.0    | 2.353131 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.557923   | 25.0      | 180801.0    | 2.557923 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 3.962877   | 25.0      | 180885.0    | 1.981438 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 8.914089   | 25.0      | 187299.0    | 1.782818 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 17.53717   | 25.0      | 192025.0    | 1.753717 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 45.886593  | 25.0      | 182908.0    | 1.835464 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 87.750991  | 25.0      | 196073.0    | 1.75502  | Y    |
| 8  | IC 480-636697/20   | 100.0         | 166.836626 | 25.0      | 202695.0    | 1.668366 | Y    |



# Calibration

/ 2-Methyl-2-propanol

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

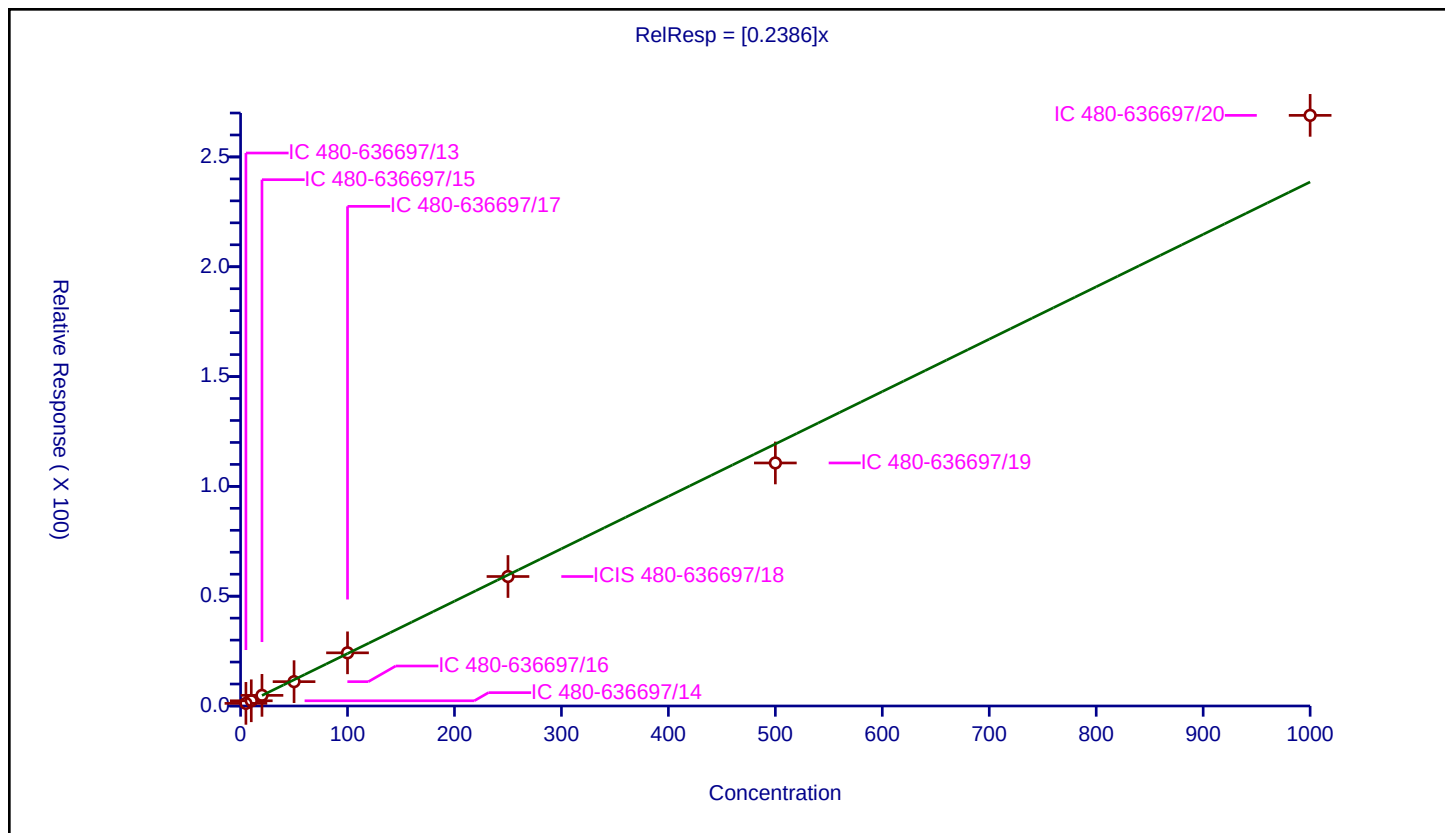
## Curve Coefficients

Intercept: 0  
 Slope: 0.2386

## Error Coefficients

Standard Error: 905000  
 Relative Standard Error: 6.2  
 Correlation Coefficient: 0.990  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 5.0           | 1.195876   | 25.0      | 182544.0    | 0.239175 | Y    |
| 2  | IC 480-636697/14   | 10.0          | 2.378582   | 25.0      | 180801.0    | 0.237858 | Y    |
| 3  | IC 480-636697/15   | 20.0          | 4.837328   | 25.0      | 180885.0    | 0.241866 | Y    |
| 4  | IC 480-636697/16   | 50.0          | 11.083748  | 25.0      | 187299.0    | 0.221675 | Y    |
| 5  | IC 480-636697/17   | 100.0         | 24.209218  | 25.0      | 192025.0    | 0.242092 | Y    |
| 6  | ICIS 480-636697/18 | 250.0         | 58.959149  | 25.0      | 182908.0    | 0.235837 | Y    |
| 7  | IC 480-636697/19   | 500.0         | 110.659423 | 25.0      | 196073.0    | 0.221319 | Y    |
| 8  | IC 480-636697/20   | 1000.0        | 268.933003 | 25.0      | 202695.0    | 0.268933 | Y    |





# Calibration

/ Methyl tert-butyl ether

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

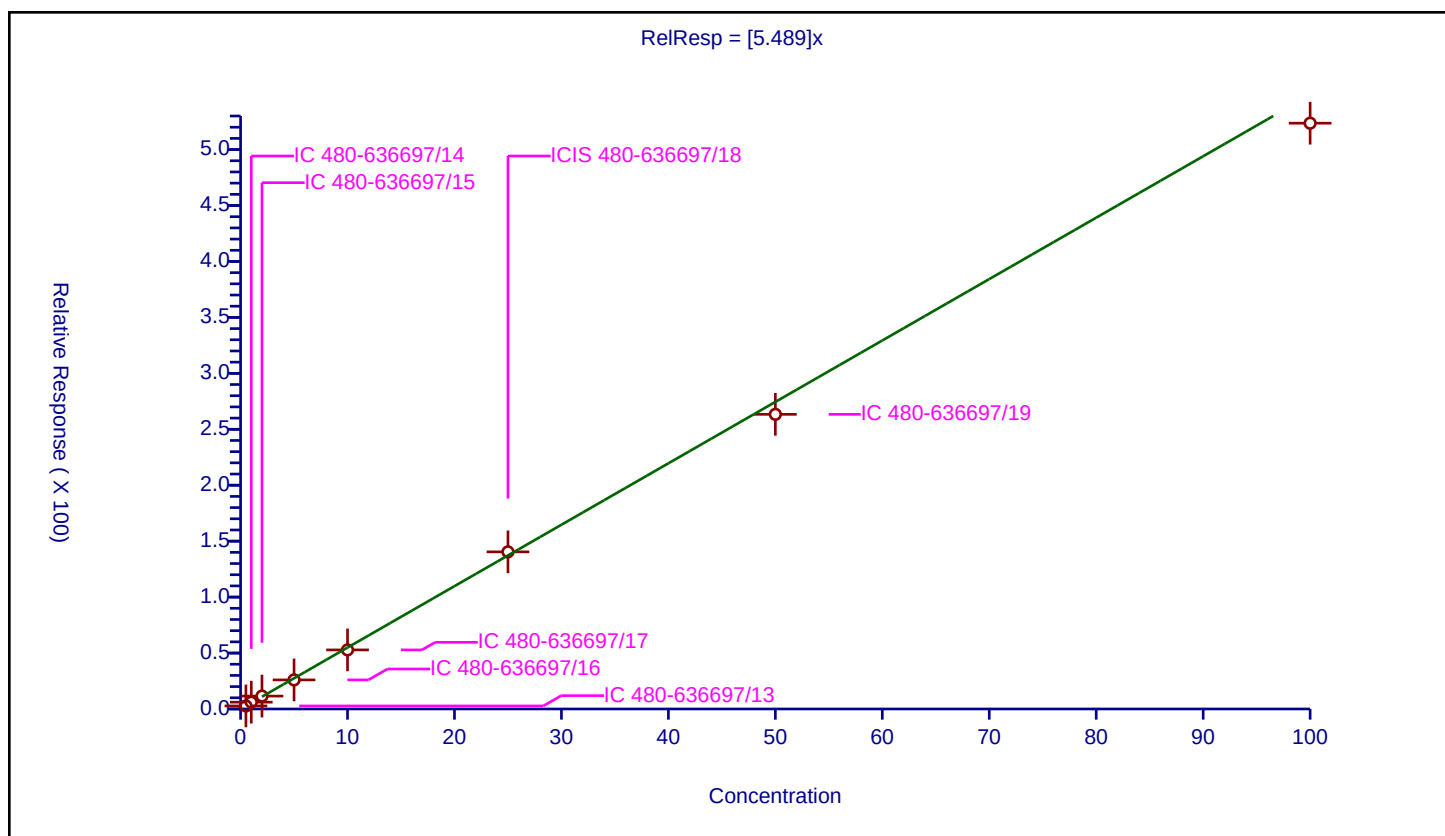
## Curve Coefficients

Intercept: 0  
 Slope: 5.489

## Error Coefficients

Standard Error: 1830000  
 Relative Standard Error: 5.8  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 2.727425   | 25.0      | 182544.0    | 5.454849 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 6.093993   | 25.0      | 180801.0    | 6.093993 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 11.525555  | 25.0      | 180885.0    | 5.762777 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 26.001073  | 25.0      | 187299.0    | 5.200215 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 52.813436  | 25.0      | 192025.0    | 5.281344 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 140.437952 | 25.0      | 182908.0    | 5.617518 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 263.36237  | 25.0      | 196073.0    | 5.267247 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 523.580256 | 25.0      | 202695.0    | 5.235803 | Y    |



## Calibration

/ trans-1,2-Dichloroethene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

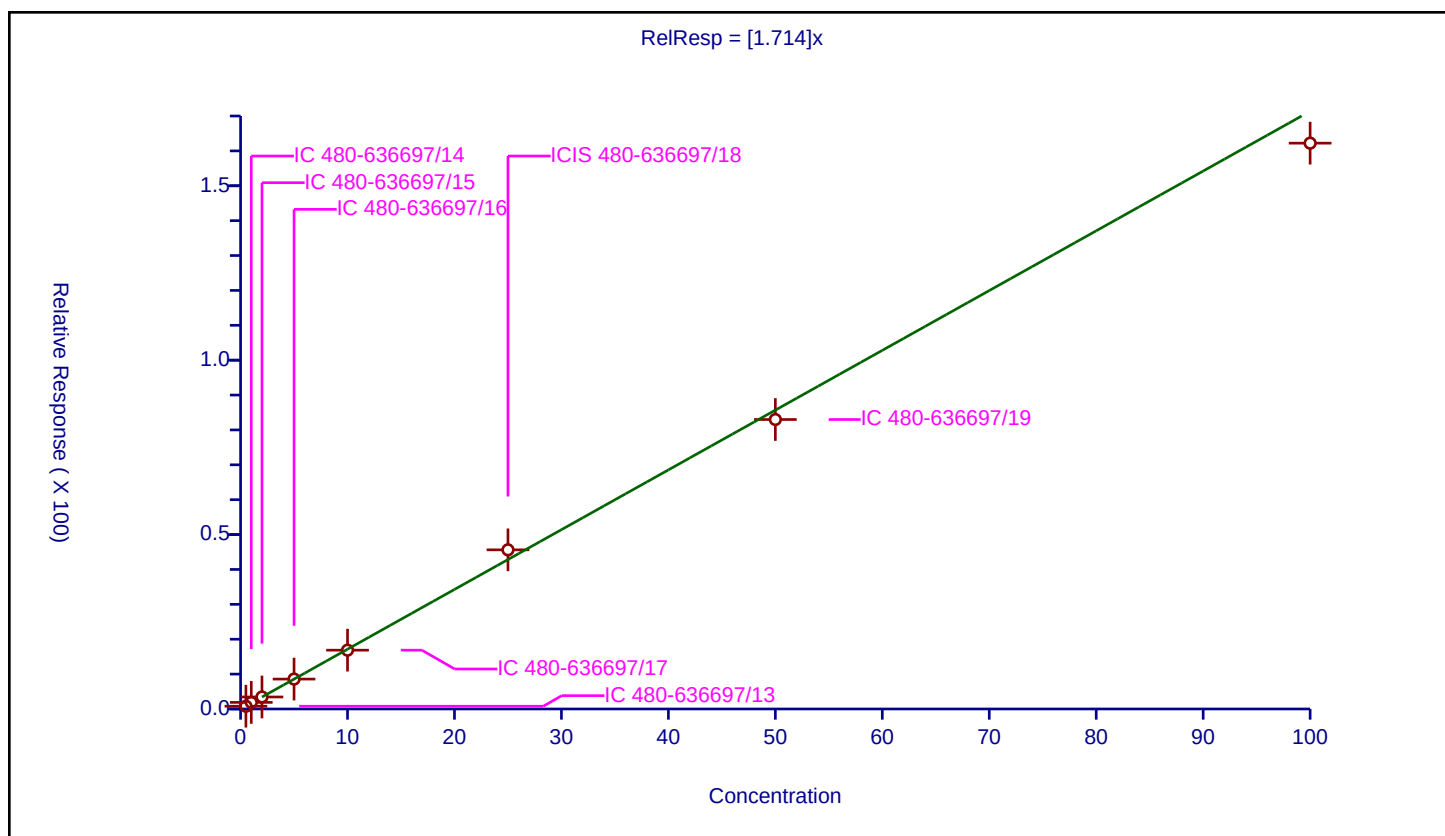
## Curve Coefficients

Intercept: 0  
Slope: 1.714

## Error Coefficients

Standard Error: 571000  
Relative Standard Error: 6.0  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.792412   | 25.0      | 182544.0    | 1.584823 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.894901   | 25.0      | 180801.0    | 1.894901 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 3.440584   | 25.0      | 180885.0    | 1.720292 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 8.577462   | 25.0      | 187299.0    | 1.715492 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 16.861867  | 25.0      | 192025.0    | 1.686187 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 45.626763  | 25.0      | 182908.0    | 1.825071 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 82.988479  | 25.0      | 196073.0    | 1.65977  | Y    |
| 8  | IC 480-636697/20   | 100.0         | 162.219838 | 25.0      | 202695.0    | 1.622198 | Y    |



## Calibration

/ Acrylonitrile

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

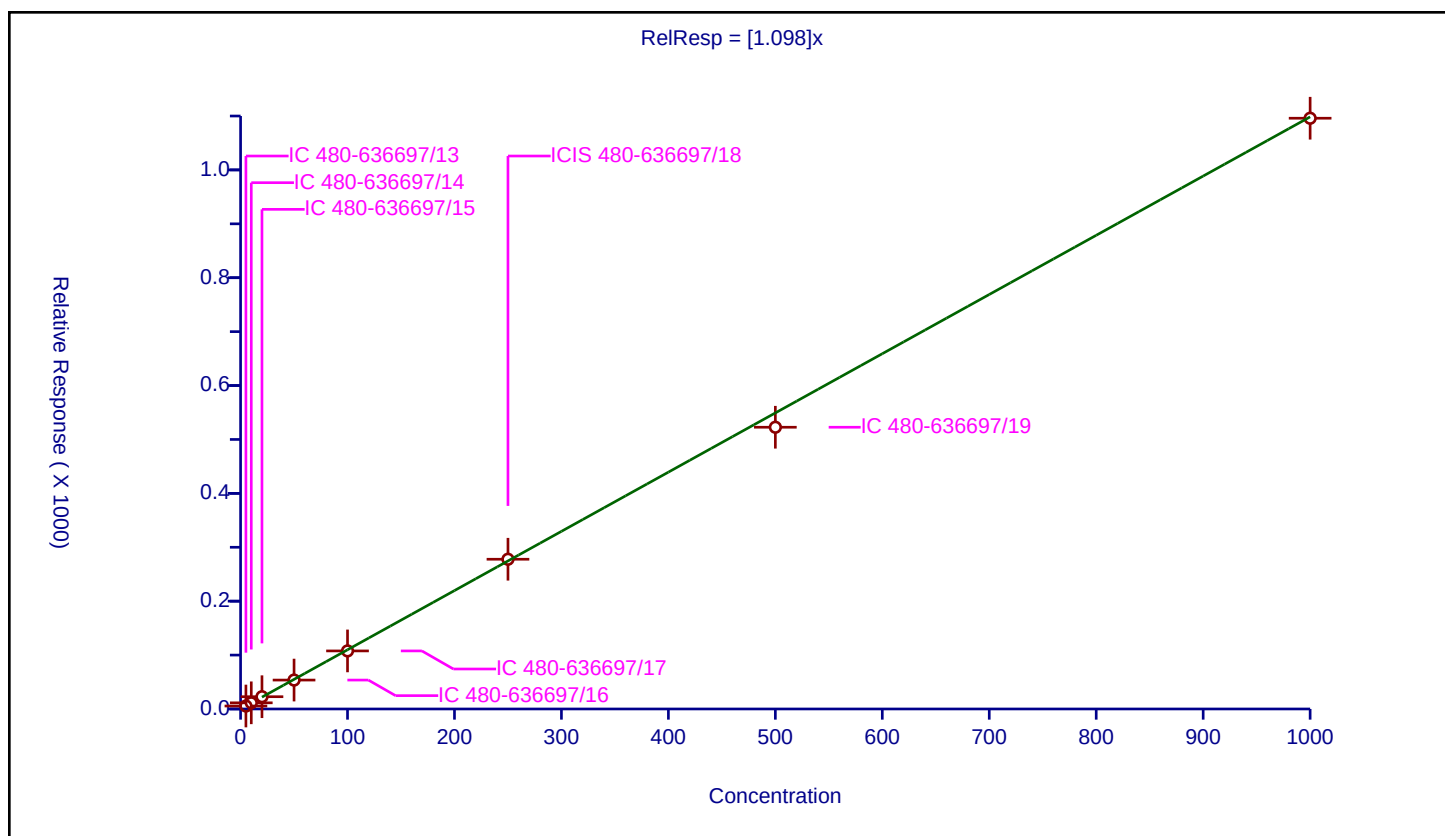
## Curve Coefficients

Intercept: 0  
Slope: 1.098

## Error Coefficients

Standard Error: 3790000  
Relative Standard Error: 3.1  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.999

| ID | Level              | Concentration | Rel. Resp.  | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|-------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 5.0           | 5.507439    | 25.0      | 182544.0    | 1.101488 | Y    |
| 2  | IC 480-636697/14   | 10.0          | 11.455689   | 25.0      | 180801.0    | 1.145569 | Y    |
| 3  | IC 480-636697/15   | 20.0          | 22.764602   | 25.0      | 180885.0    | 1.13823  | Y    |
| 4  | IC 480-636697/16   | 50.0          | 53.628023   | 25.0      | 187299.0    | 1.07256  | Y    |
| 5  | IC 480-636697/17   | 100.0         | 107.731155  | 25.0      | 192025.0    | 1.077312 | Y    |
| 6  | ICIS 480-636697/18 | 250.0         | 277.773389  | 25.0      | 182908.0    | 1.111094 | Y    |
| 7  | IC 480-636697/19   | 500.0         | 522.651002  | 25.0      | 196073.0    | 1.045302 | Y    |
| 8  | IC 480-636697/20   | 1000.0        | 1095.886924 | 25.0      | 202695.0    | 1.095887 | Y    |



# Calibration

/ Hexane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

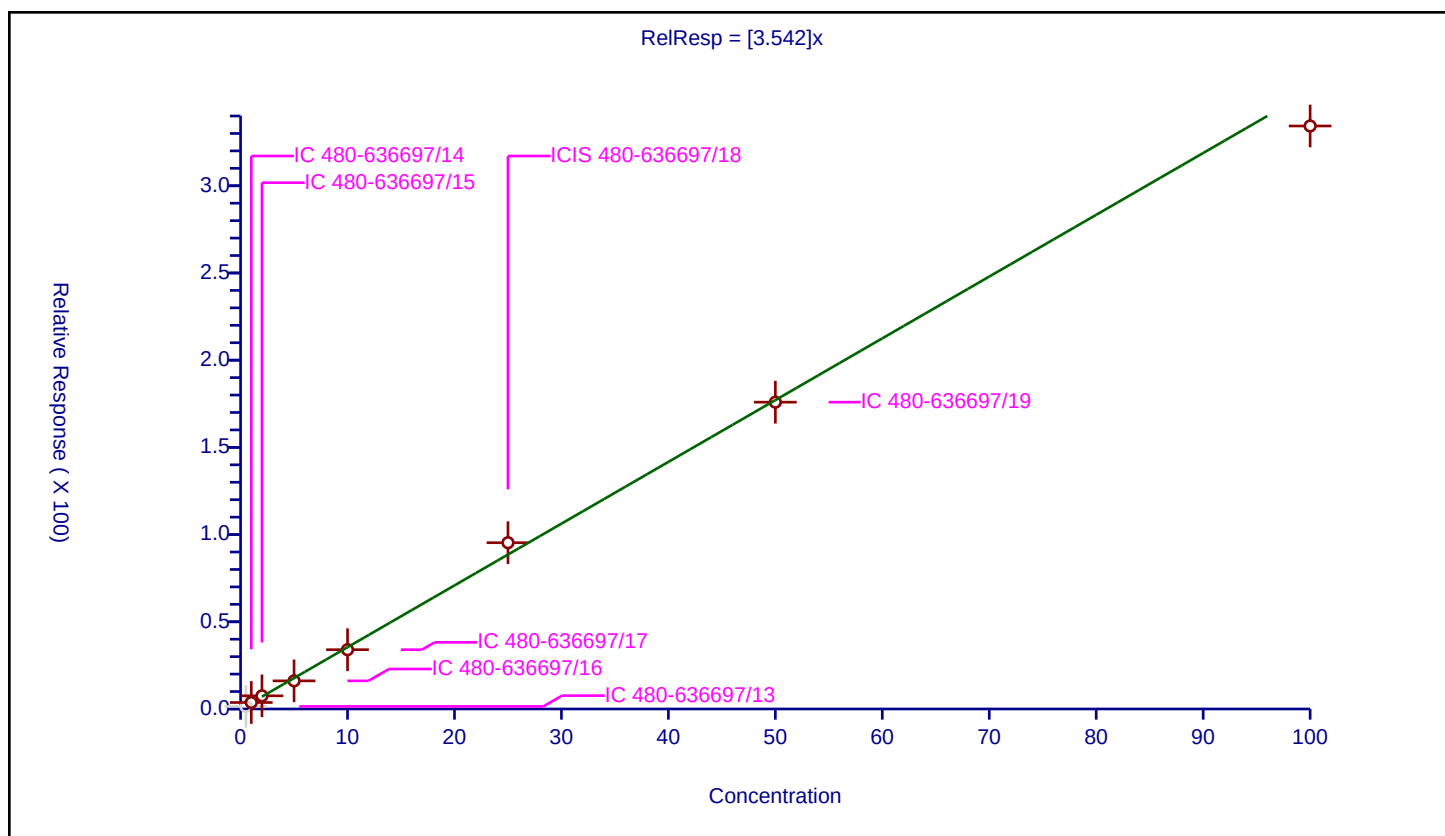
## Curve Coefficients

Intercept: 0  
 Slope: 3.542

## Error Coefficients

Standard Error: 1280000  
 Relative Standard Error: 6.5  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.482656   | 25.0      | 182544.0    | 2.965312 | N    |
| 2  | IC 480-636697/14   | 1.0           | 3.720389   | 25.0      | 180801.0    | 3.720389 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 7.549963   | 25.0      | 180885.0    | 3.774981 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 16.11661   | 25.0      | 187299.0    | 3.223322 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 33.995834  | 25.0      | 192025.0    | 3.399583 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 95.340964  | 25.0      | 182908.0    | 3.813639 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 175.926058 | 25.0      | 196073.0    | 3.518521 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 334.280446 | 25.0      | 202695.0    | 3.342804 | Y    |



# Calibration

/ 1,1-Dichloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

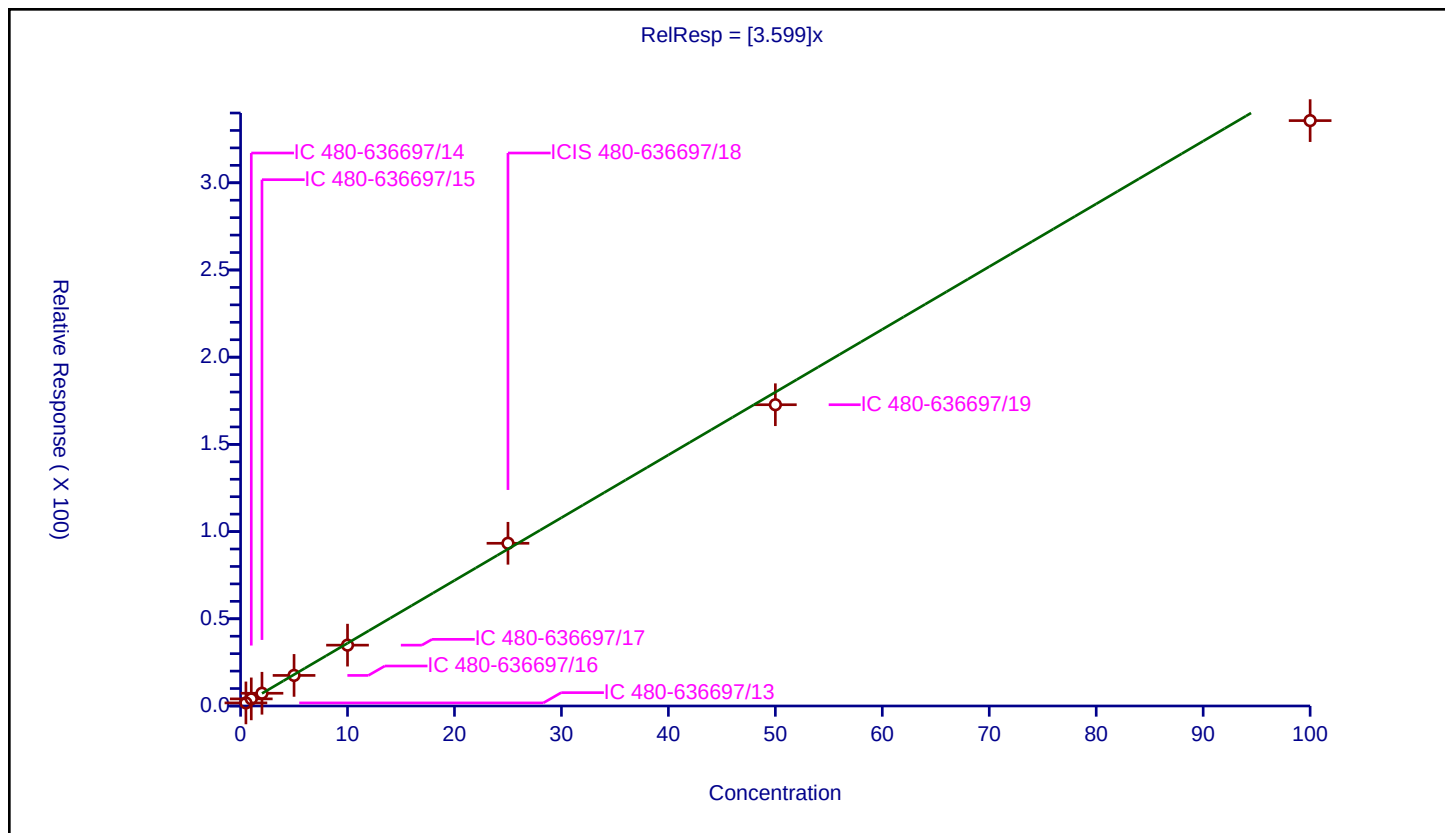
## Curve Coefficients

Intercept: 0  
 Slope: 3.599

## Error Coefficients

Standard Error: 1180000  
 Relative Standard Error: 6.2  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.762041   | 25.0      | 182544.0    | 3.524082 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 4.073816   | 25.0      | 180801.0    | 4.073816 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 7.307958   | 25.0      | 180885.0    | 3.653979 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 17.532528  | 25.0      | 187299.0    | 3.506506 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 34.881005  | 25.0      | 192025.0    | 3.488101 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 93.299227  | 25.0      | 182908.0    | 3.731969 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 172.736812 | 25.0      | 196073.0    | 3.454736 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 335.649498 | 25.0      | 202695.0    | 3.356495 | Y    |



## Calibration

/ Vinyl acetate

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

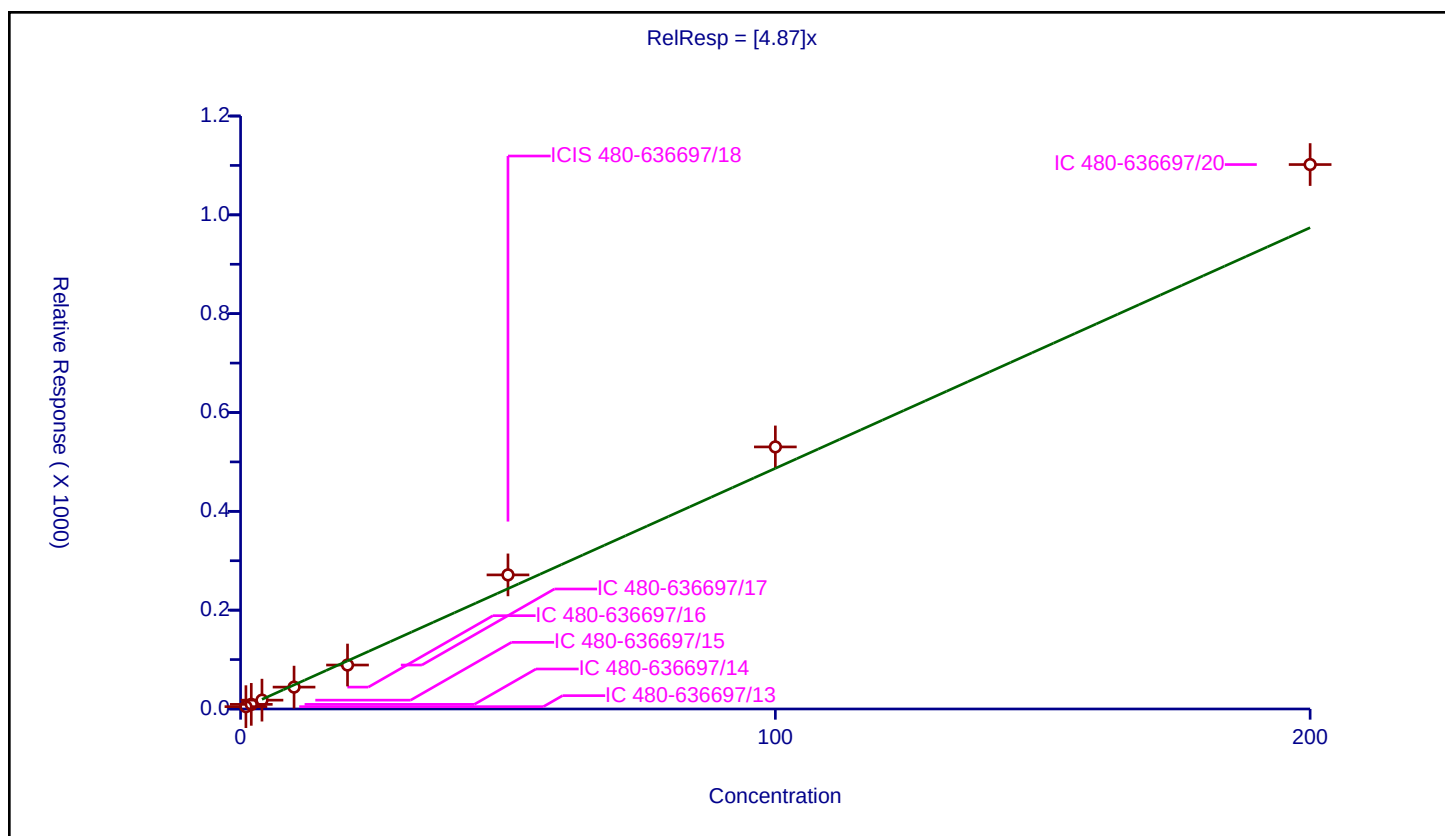
## Curve Coefficients

Intercept: 0  
Slope: 4.87

## Error Coefficients

Standard Error: 3810000  
Relative Standard Error: 9.5  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.988

| ID | Level              | Concentration | Rel. Resp.  | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|-------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 1.0           | 4.695169    | 25.0      | 182544.0    | 4.695169 | Y    |
| 2  | IC 480-636697/14   | 2.0           | 9.354345    | 25.0      | 180801.0    | 4.677173 | Y    |
| 3  | IC 480-636697/15   | 4.0           | 17.898941   | 25.0      | 180885.0    | 4.474735 | Y    |
| 4  | IC 480-636697/16   | 10.0          | 44.268122   | 25.0      | 187299.0    | 4.426812 | Y    |
| 5  | IC 480-636697/17   | 20.0          | 88.959901   | 25.0      | 192025.0    | 4.447995 | Y    |
| 6  | ICIS 480-636697/18 | 50.0          | 271.386571  | 25.0      | 182908.0    | 5.427731 | Y    |
| 7  | IC 480-636697/19   | 100.0         | 530.326205  | 25.0      | 196073.0    | 5.303262 | Y    |
| 8  | IC 480-636697/20   | 200.0         | 1101.777918 | 25.0      | 202695.0    | 5.50889  | Y    |



# Calibration

/ 2,2-Dichloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

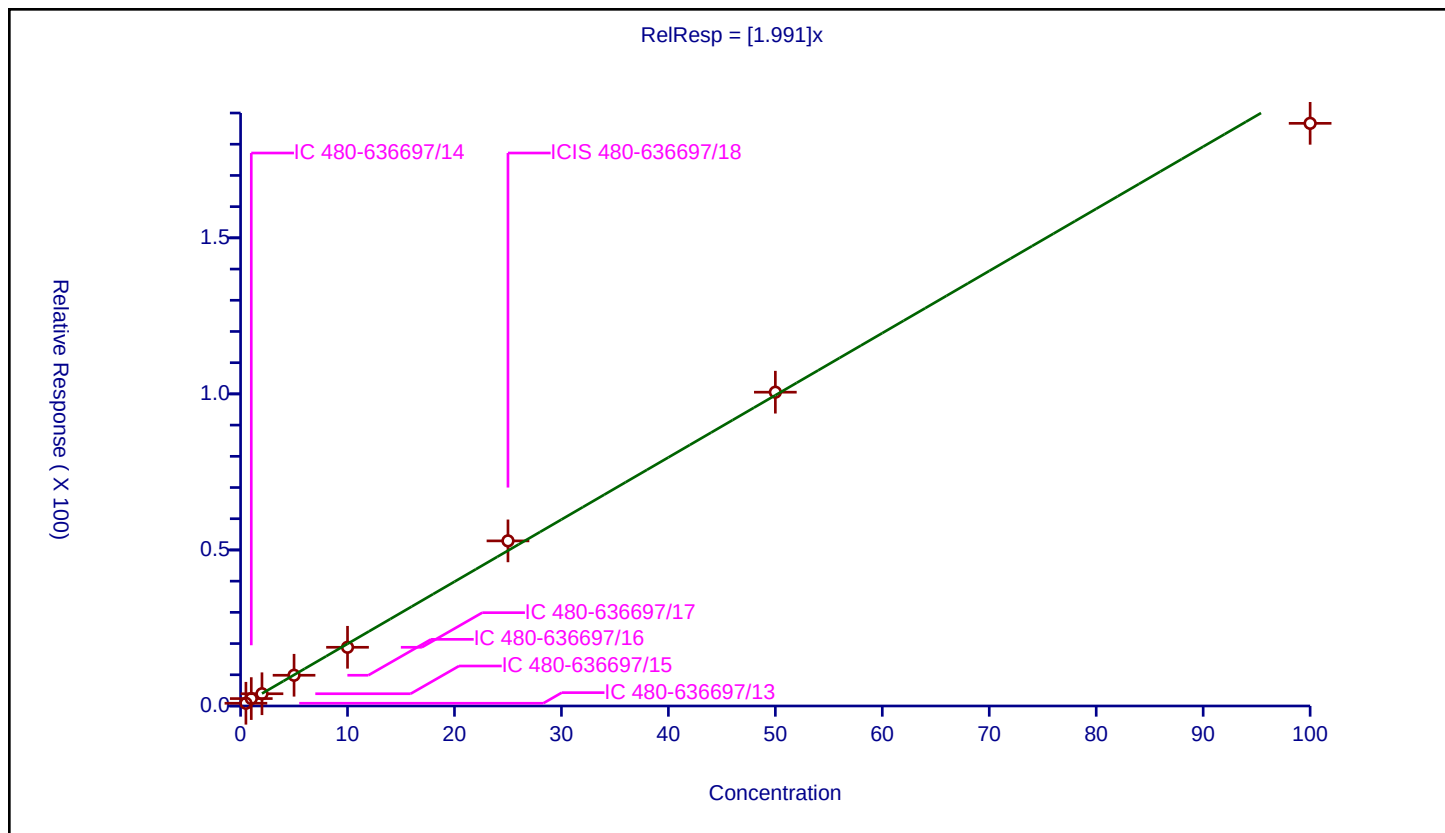
## Curve Coefficients

Intercept: 0  
 Slope: 1.991

## Error Coefficients

Standard Error: 664000  
 Relative Standard Error: 9.4  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.988

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.877734   | 25.0      | 182544.0    | 1.755467 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.369318   | 25.0      | 180801.0    | 2.369318 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 3.923764   | 25.0      | 180885.0    | 1.961882 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 9.847223   | 25.0      | 187299.0    | 1.969445 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 18.806536  | 25.0      | 192025.0    | 1.880654 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 52.906106  | 25.0      | 182908.0    | 2.116244 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 100.549668 | 25.0      | 196073.0    | 2.010993 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 186.696761 | 25.0      | 202695.0    | 1.866968 | Y    |



## Calibration

/ cis-1,2-Dichloroethene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

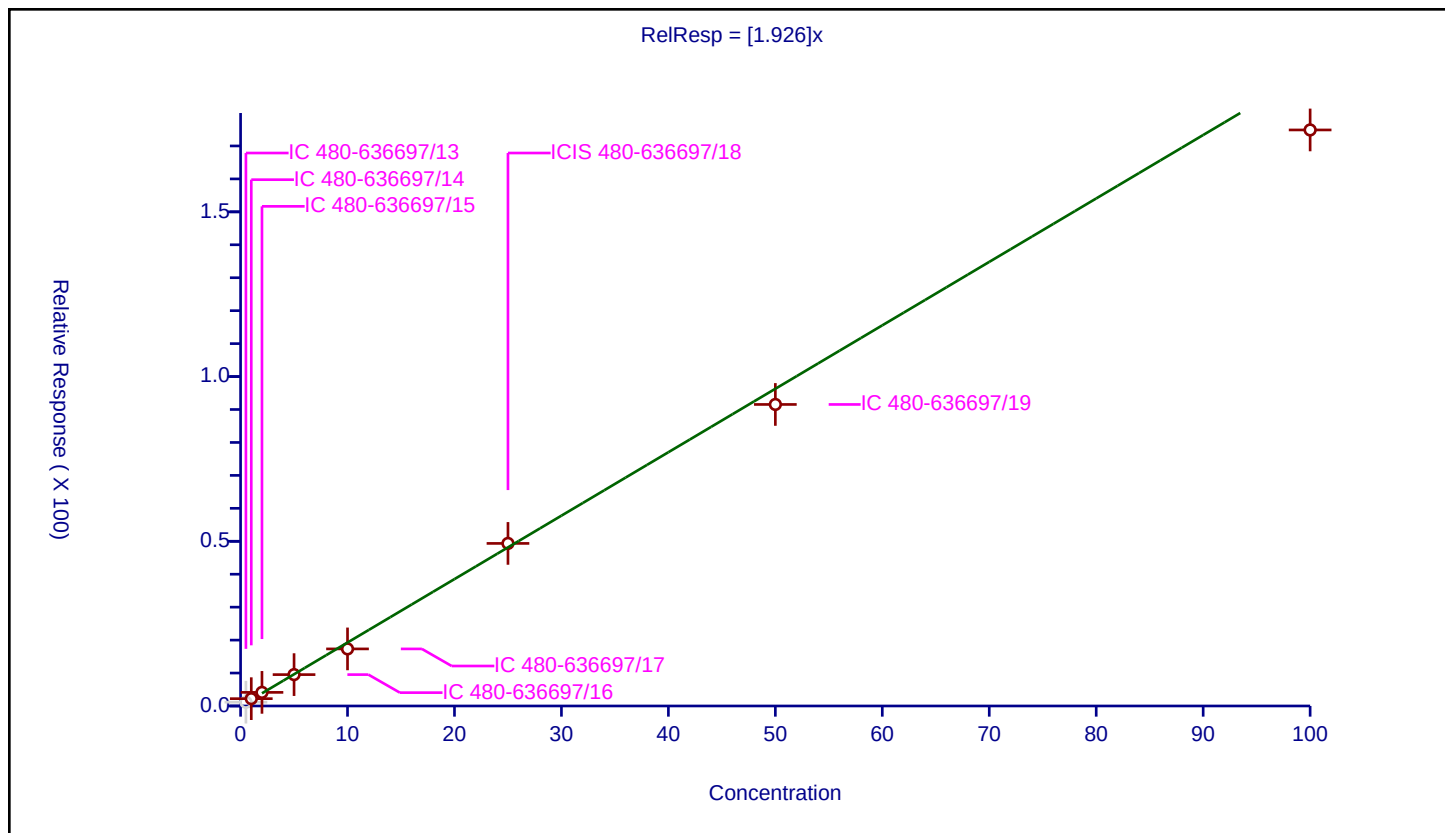
## Curve Coefficients

Intercept: 0  
Slope: 1.926

## Error Coefficients

Standard Error: 668000  
Relative Standard Error: 9.2  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.987

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.151503   | 25.0      | 182544.0    | 2.303006 | N    |
| 2  | IC 480-636697/14   | 1.0           | 2.223854   | 25.0      | 180801.0    | 2.223854 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 4.131492   | 25.0      | 180885.0    | 2.065746 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 9.524076   | 25.0      | 187299.0    | 1.904815 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 17.32652   | 25.0      | 192025.0    | 1.732652 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 49.348443  | 25.0      | 182908.0    | 1.973938 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 91.531343  | 25.0      | 196073.0    | 1.830627 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 174.863711 | 25.0      | 202695.0    | 1.748637 | Y    |





## Calibration

/ 2-Butanone (MEK)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

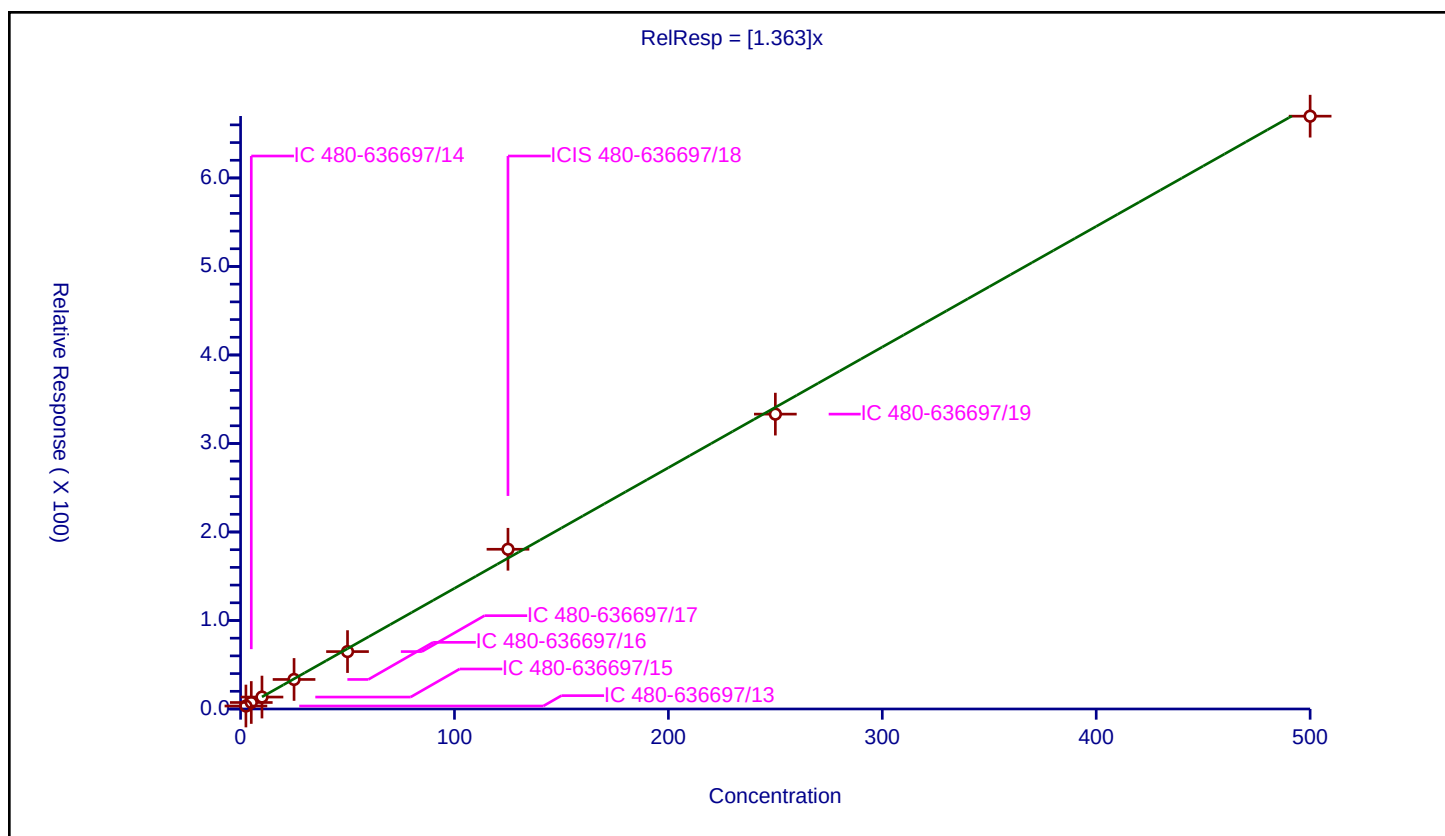
### Curve Coefficients

Intercept: 0  
 Slope: 1.363

### Error Coefficients

Standard Error: 2340000  
 Relative Standard Error: 4.4  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 2.5           | 3.354534   | 25.0      | 182544.0    | 1.341813 | Y    |
| 2  | IC 480-636697/14   | 5.0           | 7.340944   | 25.0      | 180801.0    | 1.468189 | Y    |
| 3  | IC 480-636697/15   | 10.0          | 13.483152  | 25.0      | 180885.0    | 1.348315 | Y    |
| 4  | IC 480-636697/16   | 25.0          | 33.359895  | 25.0      | 187299.0    | 1.334396 | Y    |
| 5  | IC 480-636697/17   | 50.0          | 64.865252  | 25.0      | 192025.0    | 1.297305 | Y    |
| 6  | ICIS 480-636697/18 | 125.0         | 180.467229 | 25.0      | 182908.0    | 1.443738 | Y    |
| 7  | IC 480-636697/19   | 250.0         | 333.170554 | 25.0      | 196073.0    | 1.332682 | Y    |
| 8  | IC 480-636697/20   | 500.0         | 669.807469 | 25.0      | 202695.0    | 1.339615 | Y    |



# Calibration

/ Chlorobromomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

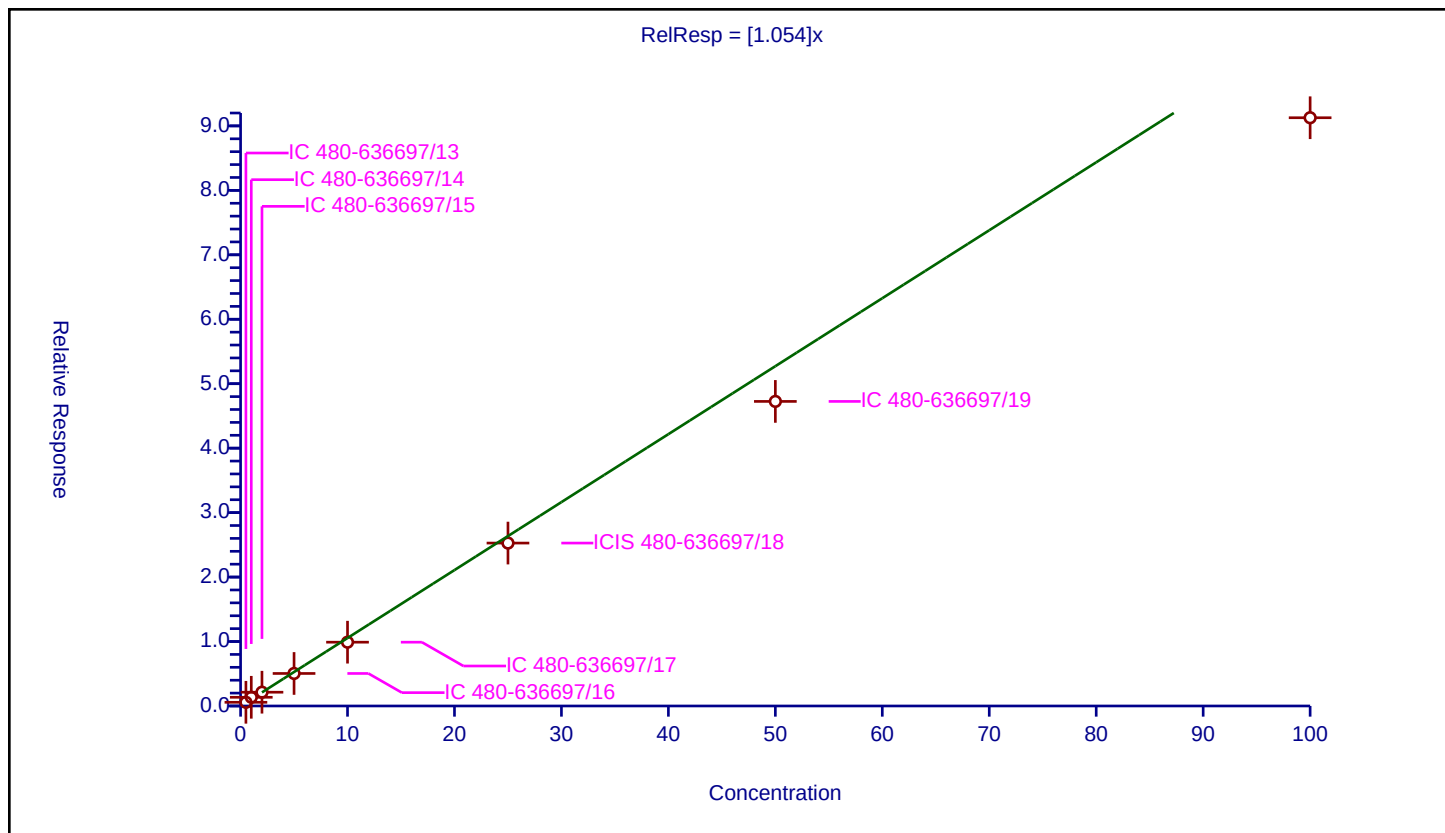
## Curve Coefficients

Intercept: 0  
 Slope: 1.054

## Error Coefficients

Standard Error: 322000  
 Relative Standard Error: 13.2  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.973

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.574656   | 25.0      | 182544.0    | 1.149312 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.349688   | 25.0      | 180801.0    | 1.349688 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.13644    | 25.0      | 180885.0    | 1.06822  | Y    |
| 4  | IC 480-636697/16   | 5.0           | 5.046343   | 25.0      | 187299.0    | 1.009269 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 9.898711   | 25.0      | 192025.0    | 0.989871 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 25.276505  | 25.0      | 182908.0    | 1.01106  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 47.254976  | 25.0      | 196073.0    | 0.9451   | Y    |
| 8  | IC 480-636697/20   | 100.0         | 91.265941  | 25.0      | 202695.0    | 0.912659 | Y    |



# Calibration

/ Tetrahydrofuran

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

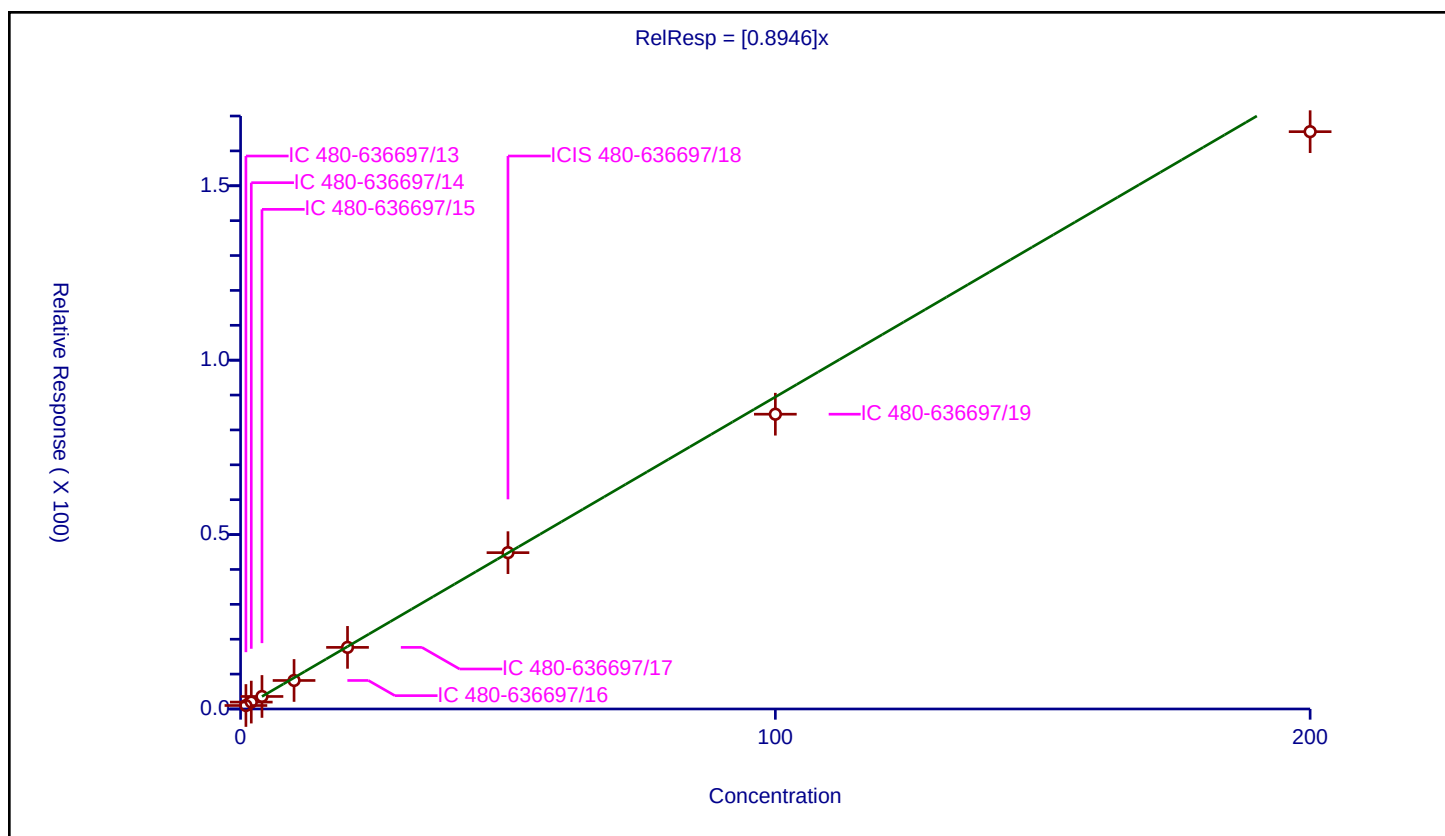
## Curve Coefficients

Intercept: 0  
 Slope: 0.8946

## Error Coefficients

Standard Error: 582000  
 Relative Standard Error: 7.7  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.991

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 1.0           | 0.999622   | 25.0      | 182544.0    | 0.999622 | Y    |
| 2  | IC 480-636697/14   | 2.0           | 1.978833   | 25.0      | 180801.0    | 0.989417 | Y    |
| 3  | IC 480-636697/15   | 4.0           | 3.589712   | 25.0      | 180885.0    | 0.897428 | Y    |
| 4  | IC 480-636697/16   | 10.0          | 8.177433   | 25.0      | 187299.0    | 0.817743 | Y    |
| 5  | IC 480-636697/17   | 20.0          | 17.662544  | 25.0      | 192025.0    | 0.883127 | Y    |
| 6  | ICIS 480-636697/18 | 50.0          | 44.822397  | 25.0      | 182908.0    | 0.896448 | Y    |
| 7  | IC 480-636697/19   | 100.0         | 84.509978  | 25.0      | 196073.0    | 0.8451   | Y    |
| 8  | IC 480-636697/20   | 200.0         | 165.51432  | 25.0      | 202695.0    | 0.827572 | Y    |



# Calibration

/ Chloroform

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

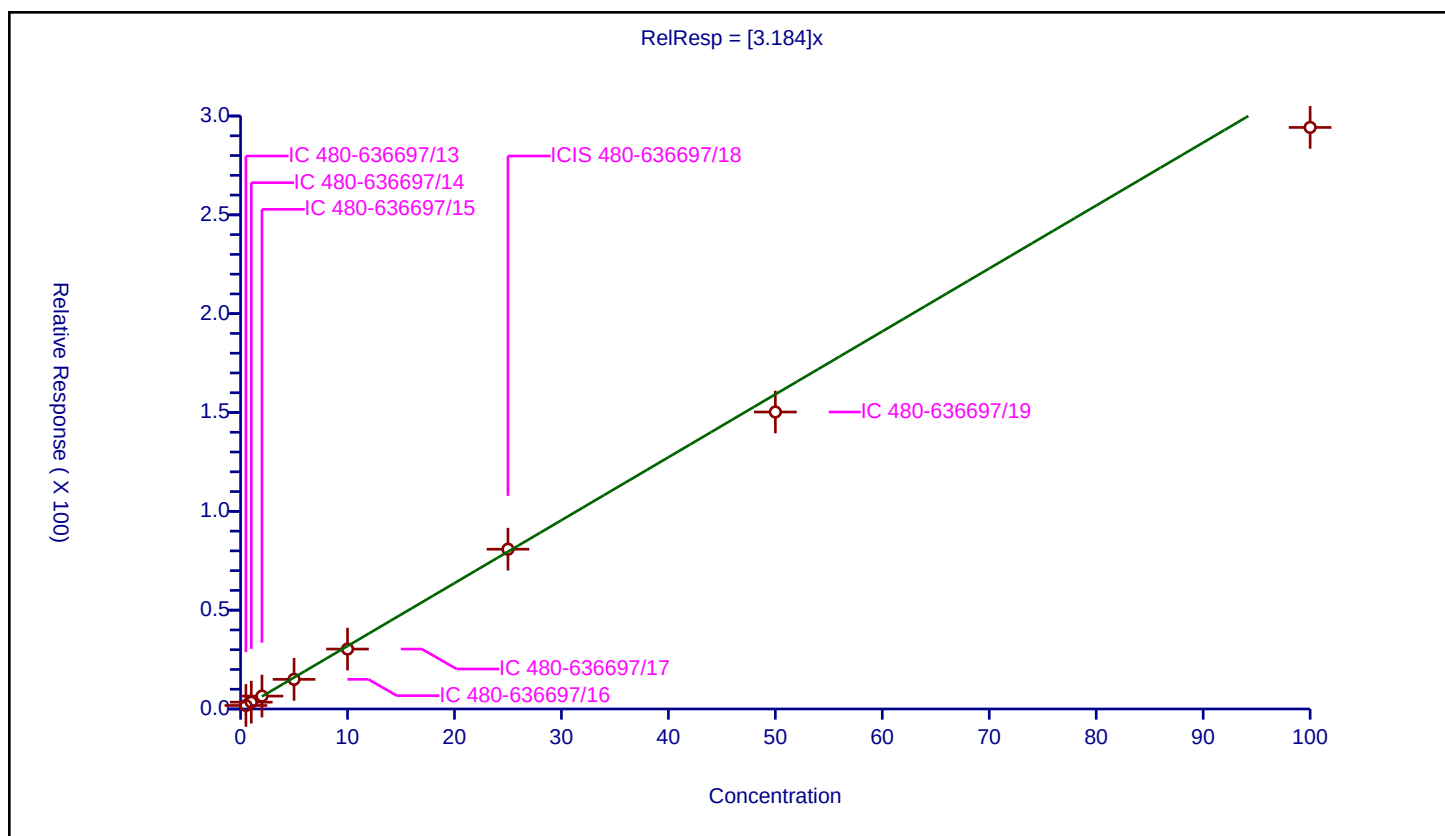
## Curve Coefficients

Intercept: 0  
 Slope: 3.184

## Error Coefficients

Standard Error: 1030000  
 Relative Standard Error: 7.1  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.775325   | 25.0      | 182544.0    | 3.550651 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 3.446469   | 25.0      | 180801.0    | 3.446469 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 6.527075   | 25.0      | 180885.0    | 3.263538 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 14.989669  | 25.0      | 187299.0    | 2.997934 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 30.319229  | 25.0      | 192025.0    | 3.031923 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 80.83244   | 25.0      | 182908.0    | 3.233298 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 150.252074 | 25.0      | 196073.0    | 3.005041 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 294.227781 | 25.0      | 202695.0    | 2.942278 | Y    |



## Calibration

/ Cyclohexane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

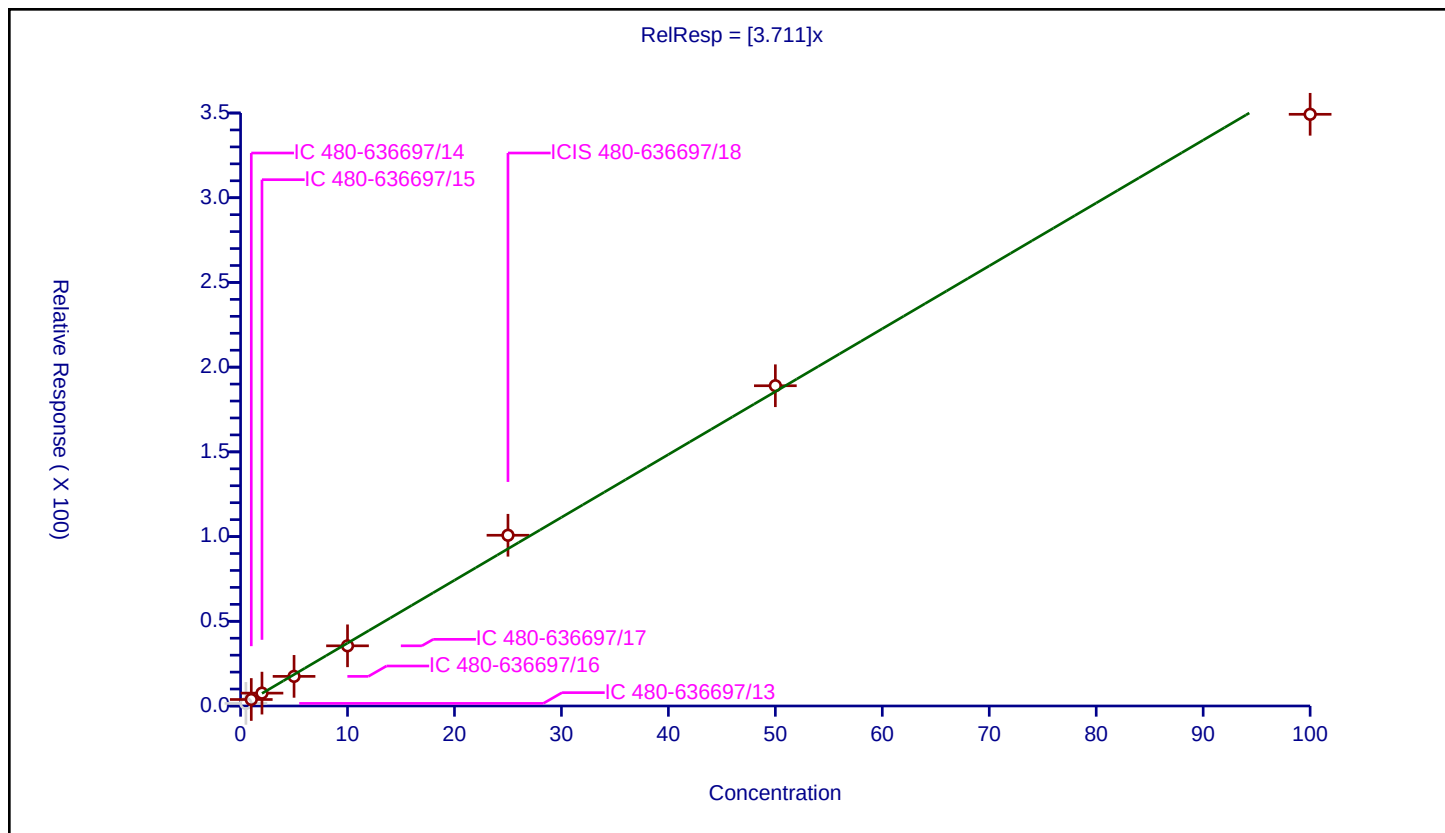
## Curve Coefficients

Intercept: 0  
Slope: 3.711

## Error Coefficients

Standard Error: 1340000  
Relative Standard Error: 5.5  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.54004    | 25.0      | 182544.0    | 3.080079 | N    |
| 2  | IC 480-636697/14   | 1.0           | 3.831008   | 25.0      | 180801.0    | 3.831008 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 7.59184    | 25.0      | 180885.0    | 3.79592  | Y    |
| 4  | IC 480-636697/16   | 5.0           | 17.476735  | 25.0      | 187299.0    | 3.495347 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 35.509048  | 25.0      | 192025.0    | 3.550905 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 100.771699 | 25.0      | 182908.0    | 4.030868 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 189.032401 | 25.0      | 196073.0    | 3.780648 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 349.237524 | 25.0      | 202695.0    | 3.492375 | Y    |



# Calibration

/ 1,1,1-Trichloroethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

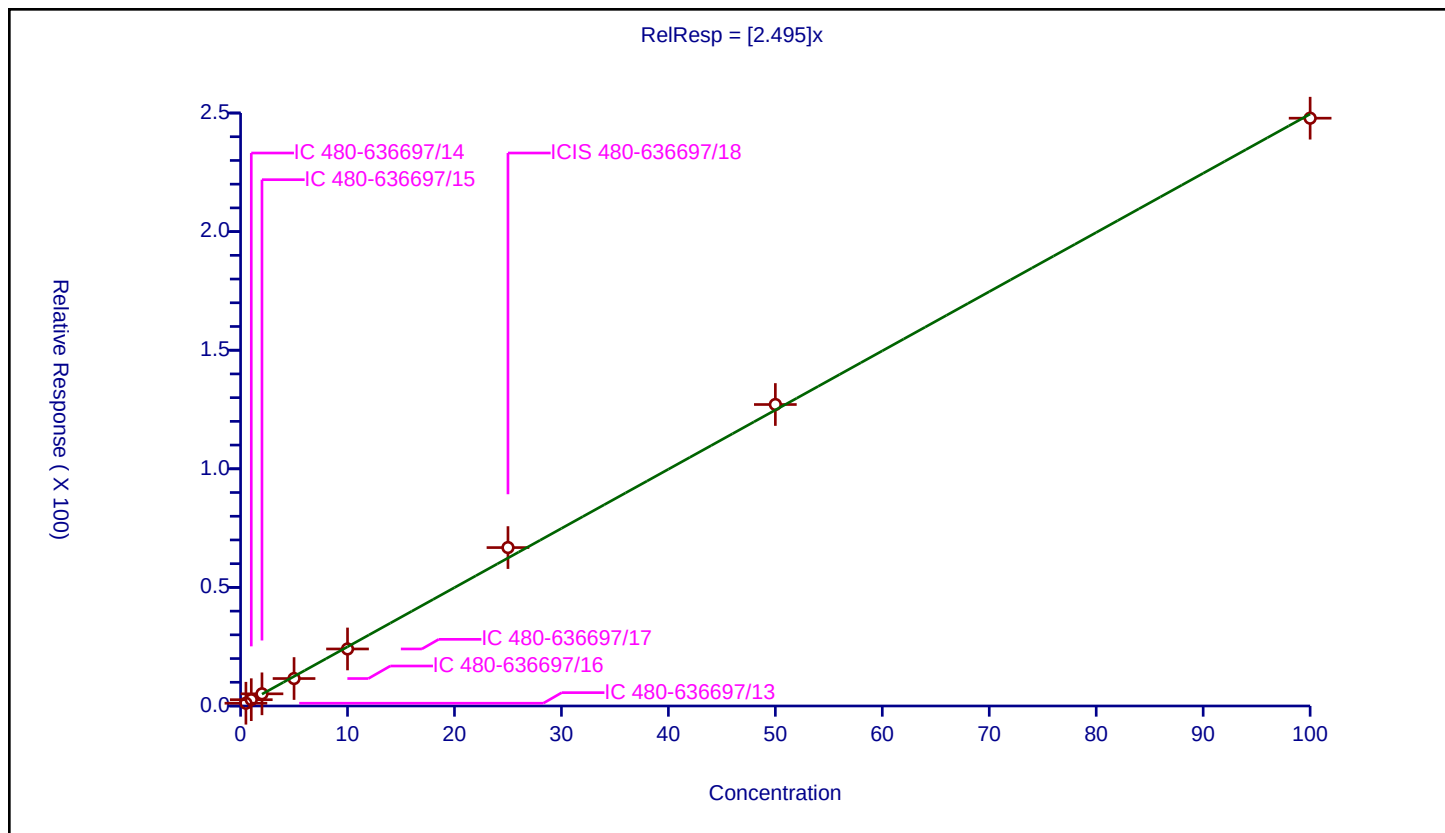
## Curve Coefficients

Intercept: 0  
Slope: 2.495

## Error Coefficients

Standard Error: 871000  
Relative Standard Error: 5.5  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.166705   | 25.0      | 182544.0    | 2.33341  | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.654991   | 25.0      | 180801.0    | 2.654991 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 5.131299   | 25.0      | 180885.0    | 2.565649 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 11.570003  | 25.0      | 187299.0    | 2.314001 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 24.037235  | 25.0      | 192025.0    | 2.403723 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 66.789588  | 25.0      | 182908.0    | 2.671584 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 127.107251 | 25.0      | 196073.0    | 2.542145 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 247.815684 | 25.0      | 202695.0    | 2.478157 | Y    |



# Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

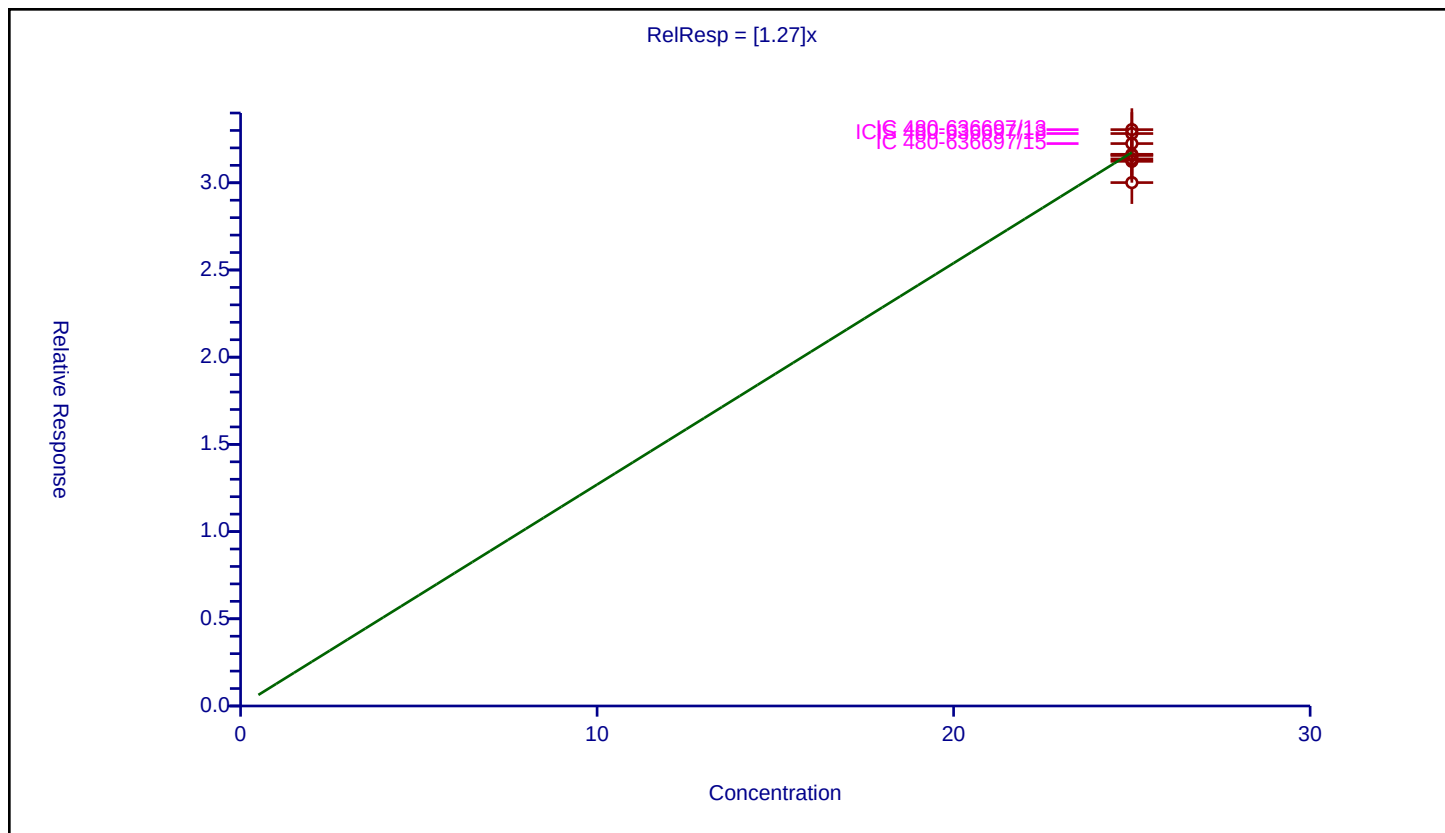
## Curve Coefficients

Intercept: 0  
 Slope: 1.27

## Error Coefficients

Standard Error: 255000  
 Relative Standard Error: 3.1  
 Correlation Coefficient: 0  
 Coefficient of Determination (Adjusted): 0

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 25.0          | 33.047649  | 25.0      | 182544.0    | 1.321906 | Y    |
| 2  | IC 480-636697/14   | 25.0          | 31.565367  | 25.0      | 180801.0    | 1.262615 | Y    |
| 3  | IC 480-636697/15   | 25.0          | 32.247146  | 25.0      | 180885.0    | 1.289886 | Y    |
| 4  | IC 480-636697/16   | 25.0          | 31.632977  | 25.0      | 187299.0    | 1.265319 | Y    |
| 5  | IC 480-636697/17   | 25.0          | 31.229267  | 25.0      | 192025.0    | 1.249171 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 32.822785  | 25.0      | 182908.0    | 1.312911 | Y    |
| 7  | IC 480-636697/19   | 25.0          | 31.367654  | 25.0      | 196073.0    | 1.254706 | Y    |
| 8  | IC 480-636697/20   | 25.0          | 30.01036   | 25.0      | 202695.0    | 1.200414 | Y    |



# Calibration

/ Carbon tetrachloride

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

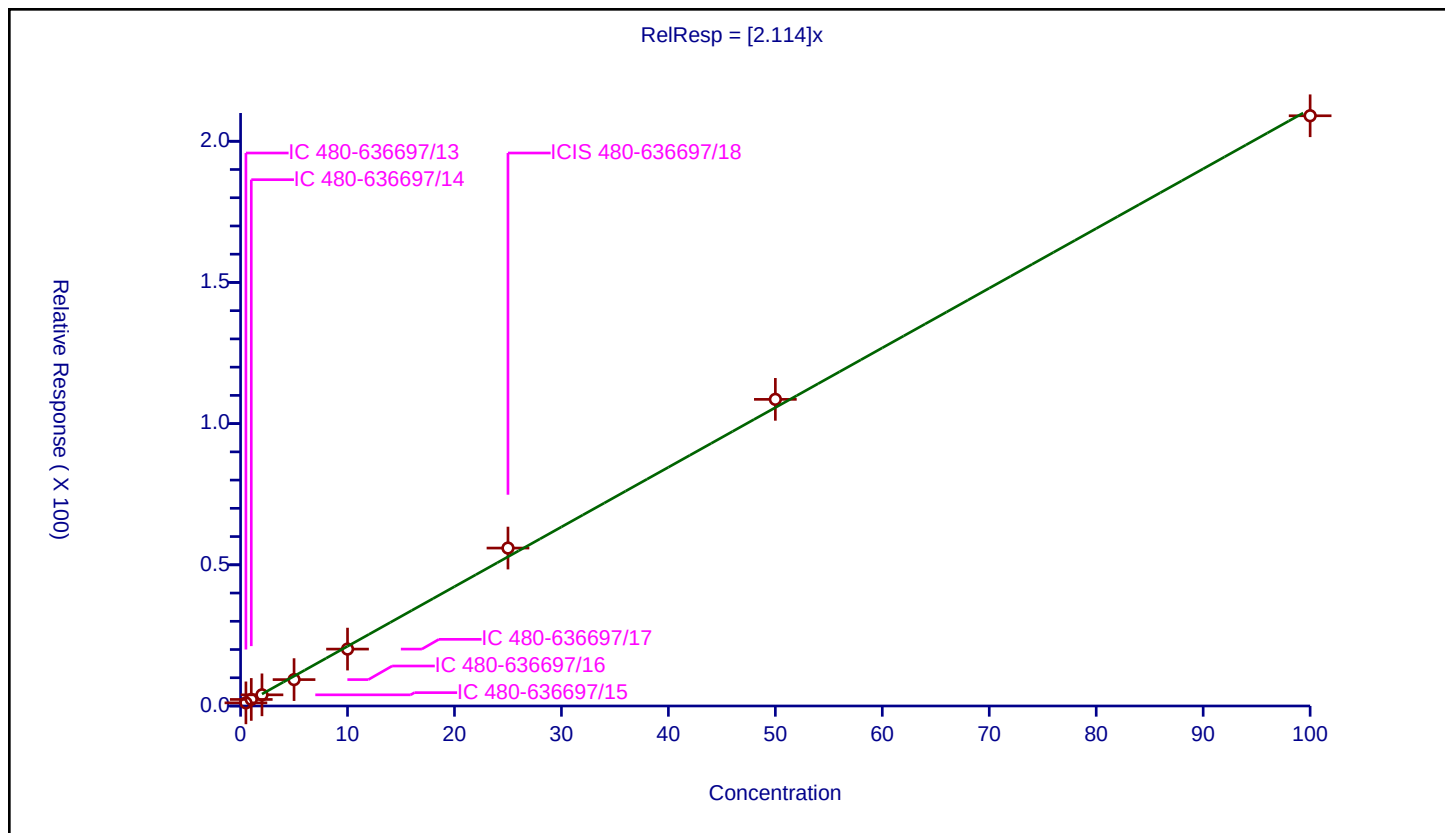
## Curve Coefficients

Intercept: 0  
Slope: 2.114

## Error Coefficients

Standard Error: 736000  
Relative Standard Error: 7.2  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.113293   | 25.0      | 182544.0    | 2.226586 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.322858   | 25.0      | 180801.0    | 2.322858 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 3.954308   | 25.0      | 180885.0    | 1.977154 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 9.343616   | 25.0      | 187299.0    | 1.868723 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 20.151022  | 25.0      | 192025.0    | 2.015102 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 55.929757  | 25.0      | 182908.0    | 2.23719  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 108.589148 | 25.0      | 196073.0    | 2.171783 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 209.030563 | 25.0      | 202695.0    | 2.090306 | Y    |





# Calibration

/ 1,1-Dichloropropene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

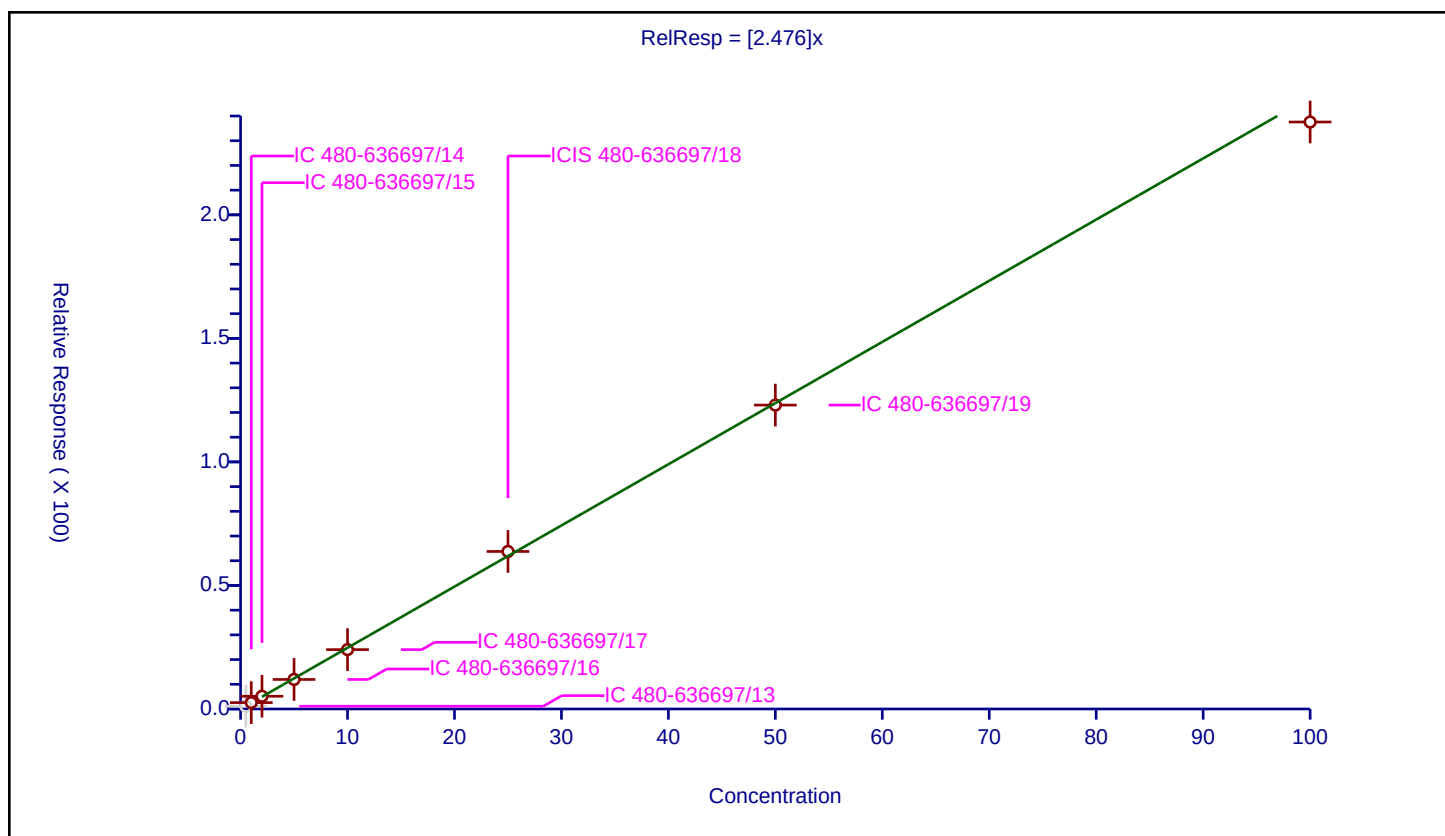
## Curve Coefficients

Intercept: 0  
 Slope: 2.476

## Error Coefficients

Standard Error: 904000  
 Relative Standard Error: 3.6  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.119867   | 25.0      | 182544.0    | 2.239734 | N    |
| 2  | IC 480-636697/14   | 1.0           | 2.574516   | 25.0      | 180801.0    | 2.574516 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 5.155071   | 25.0      | 180885.0    | 2.577535 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 11.94961   | 25.0      | 187299.0    | 2.389922 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 24.035803  | 25.0      | 192025.0    | 2.40358  | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 63.760606  | 25.0      | 182908.0    | 2.550424 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 123.007502 | 25.0      | 196073.0    | 2.46015  | Y    |
| 8  | IC 480-636697/20   | 100.0         | 237.570364 | 25.0      | 202695.0    | 2.375704 | Y    |



## Calibration

/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

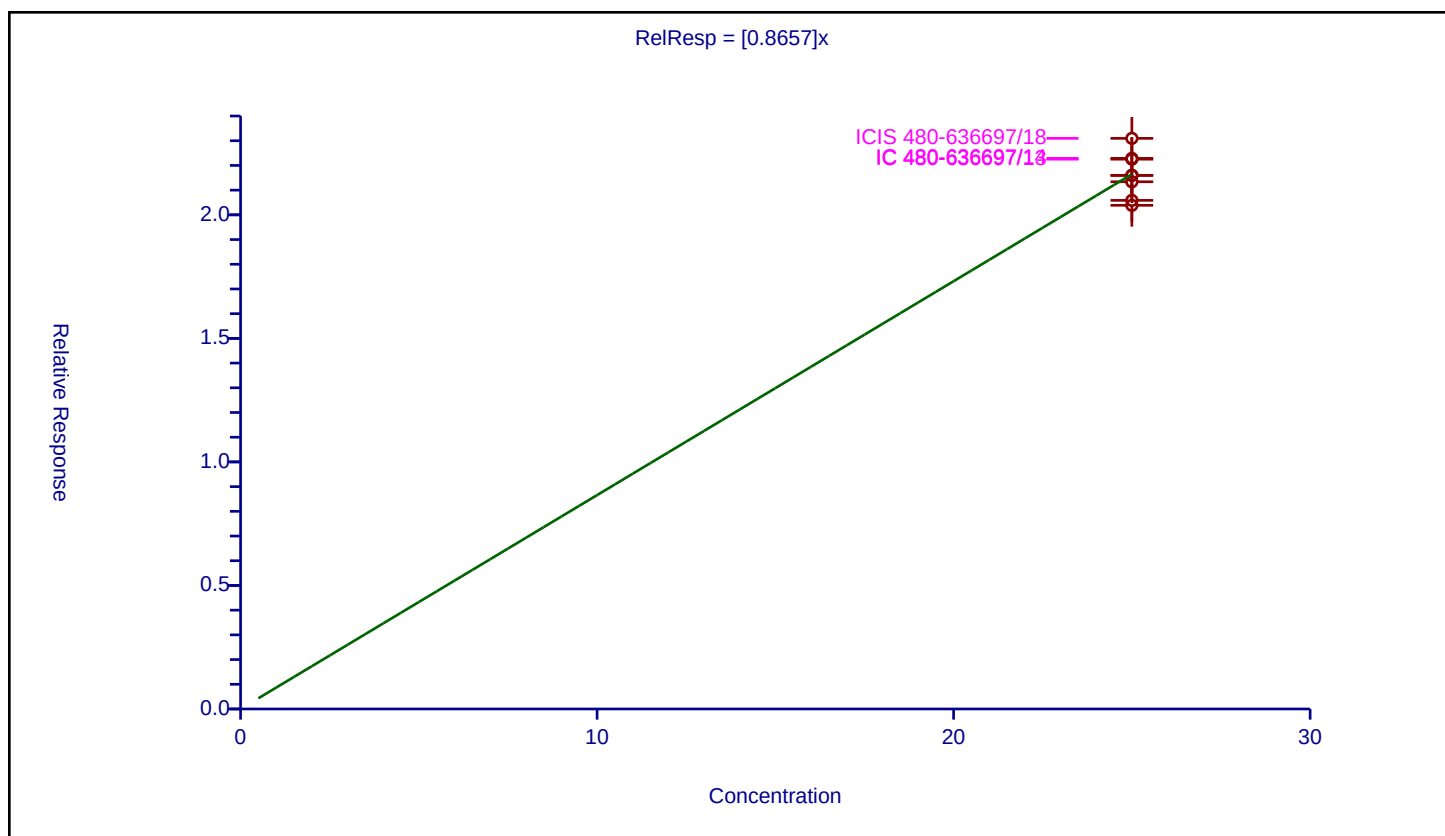
### Curve Coefficients

Intercept: 0  
 Slope: 0.8657

### Error Coefficients

Standard Error: 174000  
 Relative Standard Error: 4.2  
 Correlation Coefficient: 0  
 Coefficient of Determination (Adjusted): 0

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 25.0          | 22.252991  | 25.0      | 182544.0    | 0.89012  | Y    |
| 2  | IC 480-636697/14   | 25.0          | 22.286381  | 25.0      | 180801.0    | 0.891455 | Y    |
| 3  | IC 480-636697/15   | 25.0          | 21.338281  | 25.0      | 180885.0    | 0.853531 | Y    |
| 4  | IC 480-636697/16   | 25.0          | 21.599288  | 25.0      | 187299.0    | 0.863972 | Y    |
| 5  | IC 480-636697/17   | 25.0          | 21.596407  | 25.0      | 192025.0    | 0.863856 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 23.095491  | 25.0      | 182908.0    | 0.92382  | Y    |
| 7  | IC 480-636697/19   | 25.0          | 20.586593  | 25.0      | 196073.0    | 0.823464 | Y    |
| 8  | IC 480-636697/20   | 25.0          | 20.385308  | 25.0      | 202695.0    | 0.815412 | Y    |



# Calibration

/ Benzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

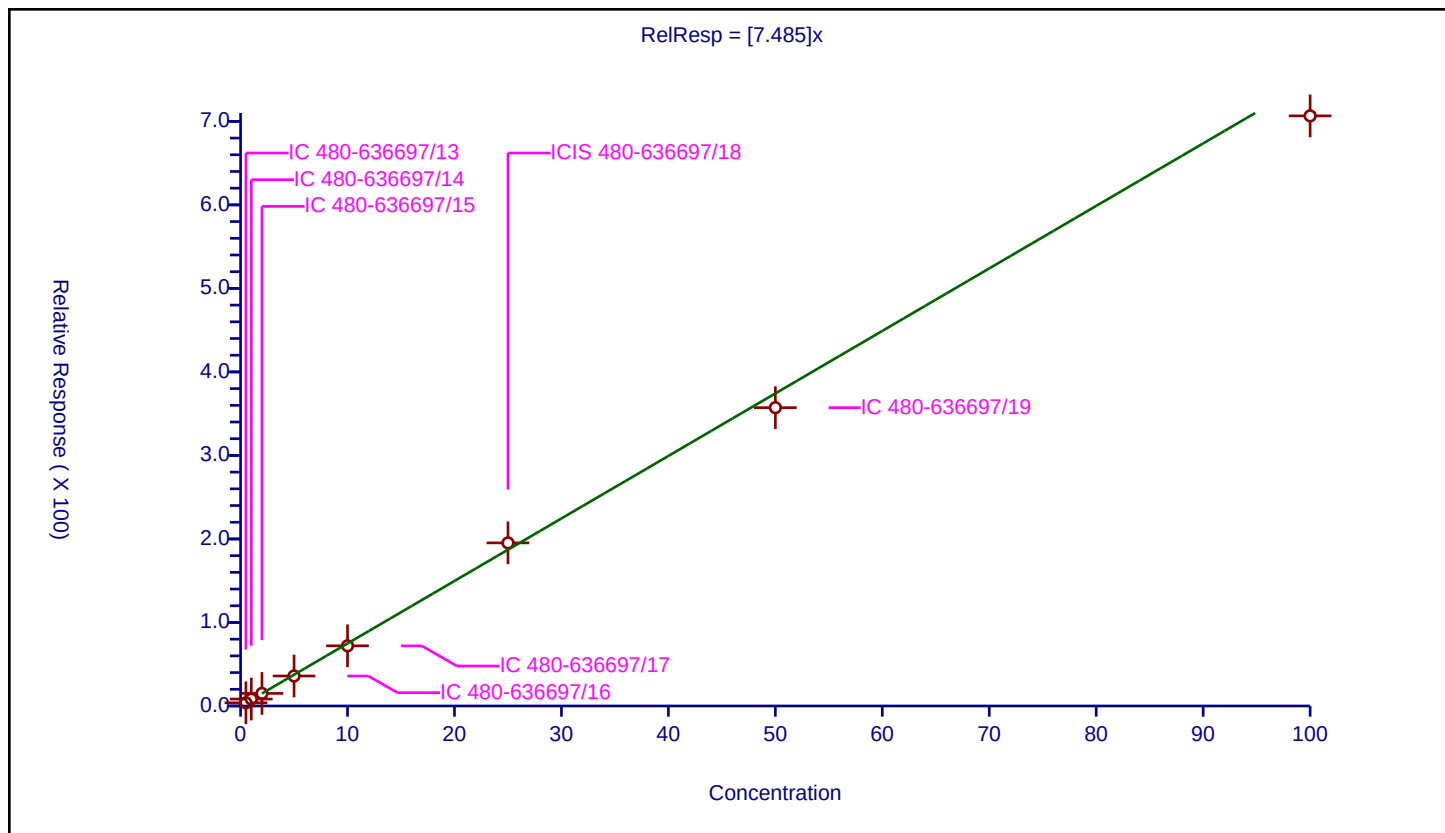
## Curve Coefficients

Intercept: 0  
 Slope: 7.485

## Error Coefficients

Standard Error: 2480000  
 Relative Standard Error: 5.7  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 3.809082   | 25.0      | 182544.0    | 7.618163 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 8.311486   | 25.0      | 180801.0    | 8.311486 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 15.064406  | 25.0      | 180885.0    | 7.532203 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 35.948804  | 25.0      | 187299.0    | 7.189761 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 72.04114   | 25.0      | 192025.0    | 7.204114 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 195.291075 | 25.0      | 182908.0    | 7.811643 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 357.216955 | 25.0      | 196073.0    | 7.144339 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 706.58625  | 25.0      | 202695.0    | 7.065863 | Y    |



# Calibration

/ Isobutyl alcohol

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

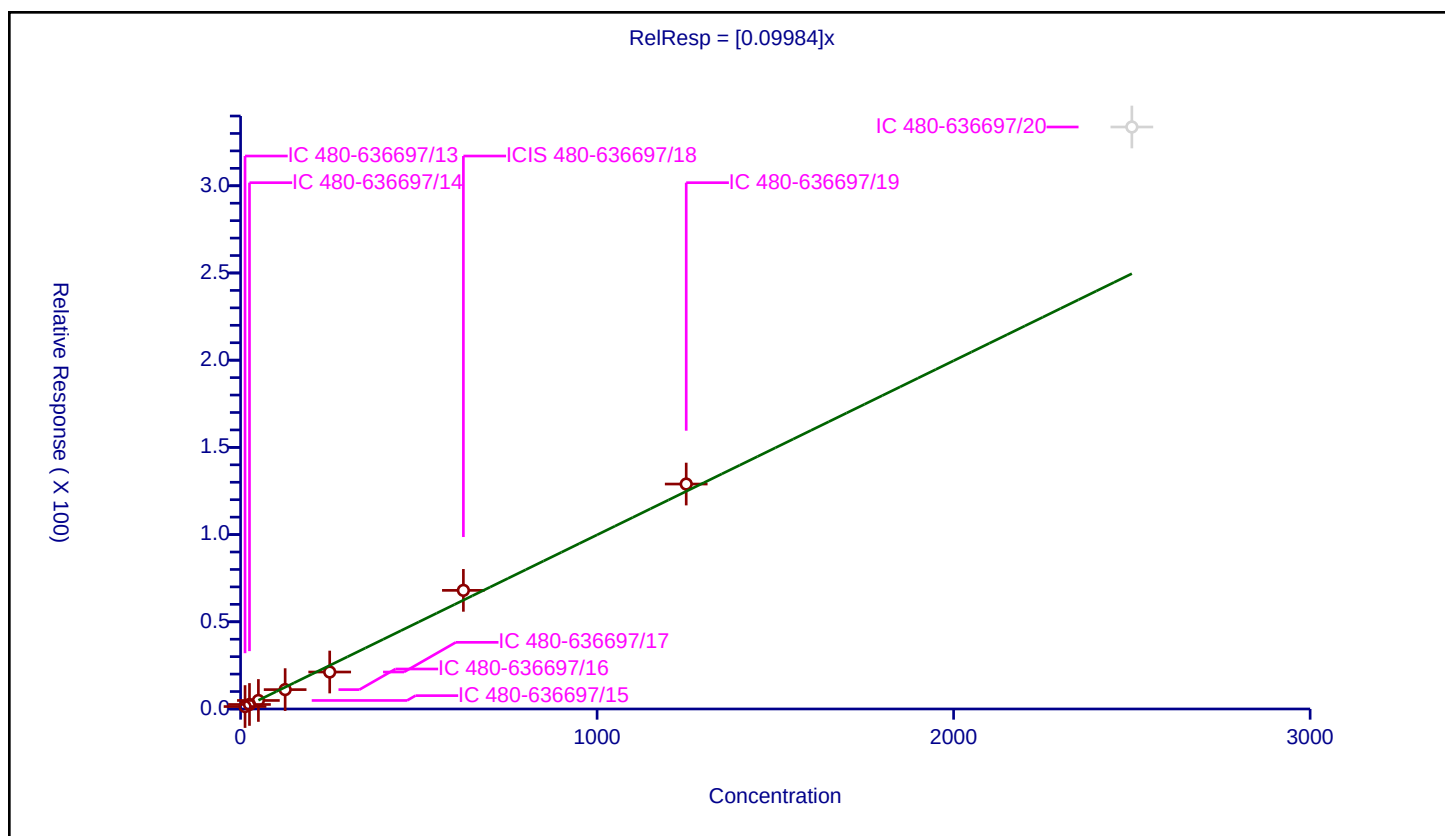
## Curve Coefficients

Intercept: 0  
 Slope: 0.09984

## Error Coefficients

Standard Error: 466000  
 Relative Standard Error: 10.1  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.984

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 12.5          | 1.401717   | 25.0      | 182544.0    | 0.112137 | Y    |
| 2  | IC 480-636697/14   | 25.0          | 2.588205   | 25.0      | 180801.0    | 0.103528 | Y    |
| 3  | IC 480-636697/15   | 50.0          | 4.878929   | 25.0      | 180885.0    | 0.097579 | Y    |
| 4  | IC 480-636697/16   | 125.0         | 11.103503  | 25.0      | 187299.0    | 0.088828 | Y    |
| 5  | IC 480-636697/17   | 250.0         | 21.198021  | 25.0      | 192025.0    | 0.084792 | Y    |
| 6  | ICIS 480-636697/18 | 625.0         | 68.016708  | 25.0      | 182908.0    | 0.108827 | Y    |
| 7  | IC 480-636697/19   | 1250.0        | 128.978748 | 25.0      | 196073.0    | 0.103183 | Y    |
| 8  | IC 480-636697/20   | 2500.0        | 333.707788 | 25.0      | 202695.0    | 0.133483 | N    |



# Calibration

/ 1,2-Dichloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

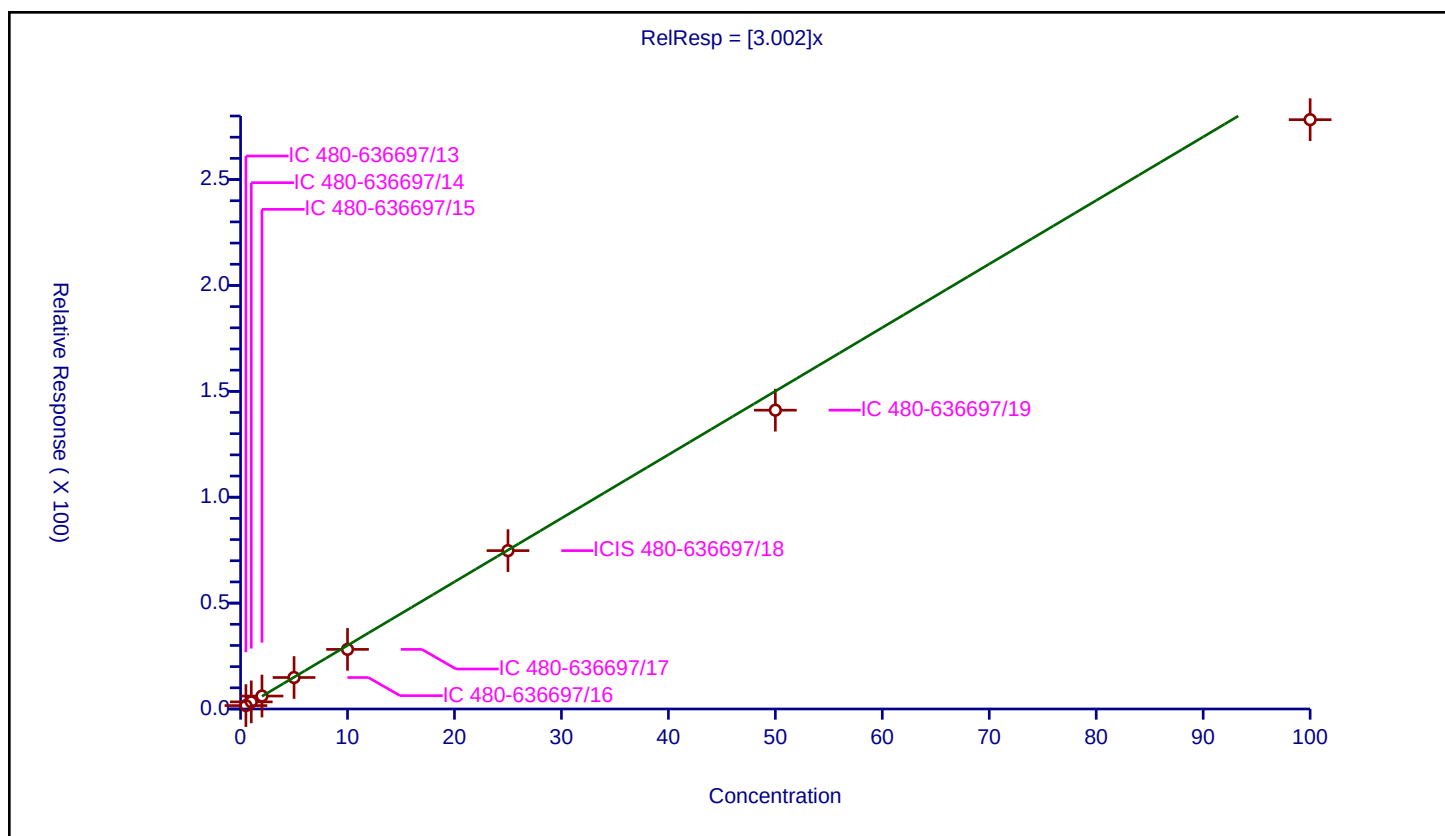
## Curve Coefficients

Intercept: 0  
 Slope: 3.002

## Error Coefficients

Standard Error: 976000  
 Relative Standard Error: 6.8  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.605914   | 25.0      | 182544.0    | 3.211828 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 3.359218   | 25.0      | 180801.0    | 3.359218 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 6.115626   | 25.0      | 180885.0    | 3.057813 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 14.865536  | 25.0      | 187299.0    | 2.973107 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 28.150371  | 25.0      | 192025.0    | 2.815037 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 74.77106   | 25.0      | 182908.0    | 2.990842 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 141.094516 | 25.0      | 196073.0    | 2.82189  | Y    |
| 8  | IC 480-636697/20   | 100.0         | 278.276598 | 25.0      | 202695.0    | 2.782766 | Y    |



# Calibration

/ n-Heptane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

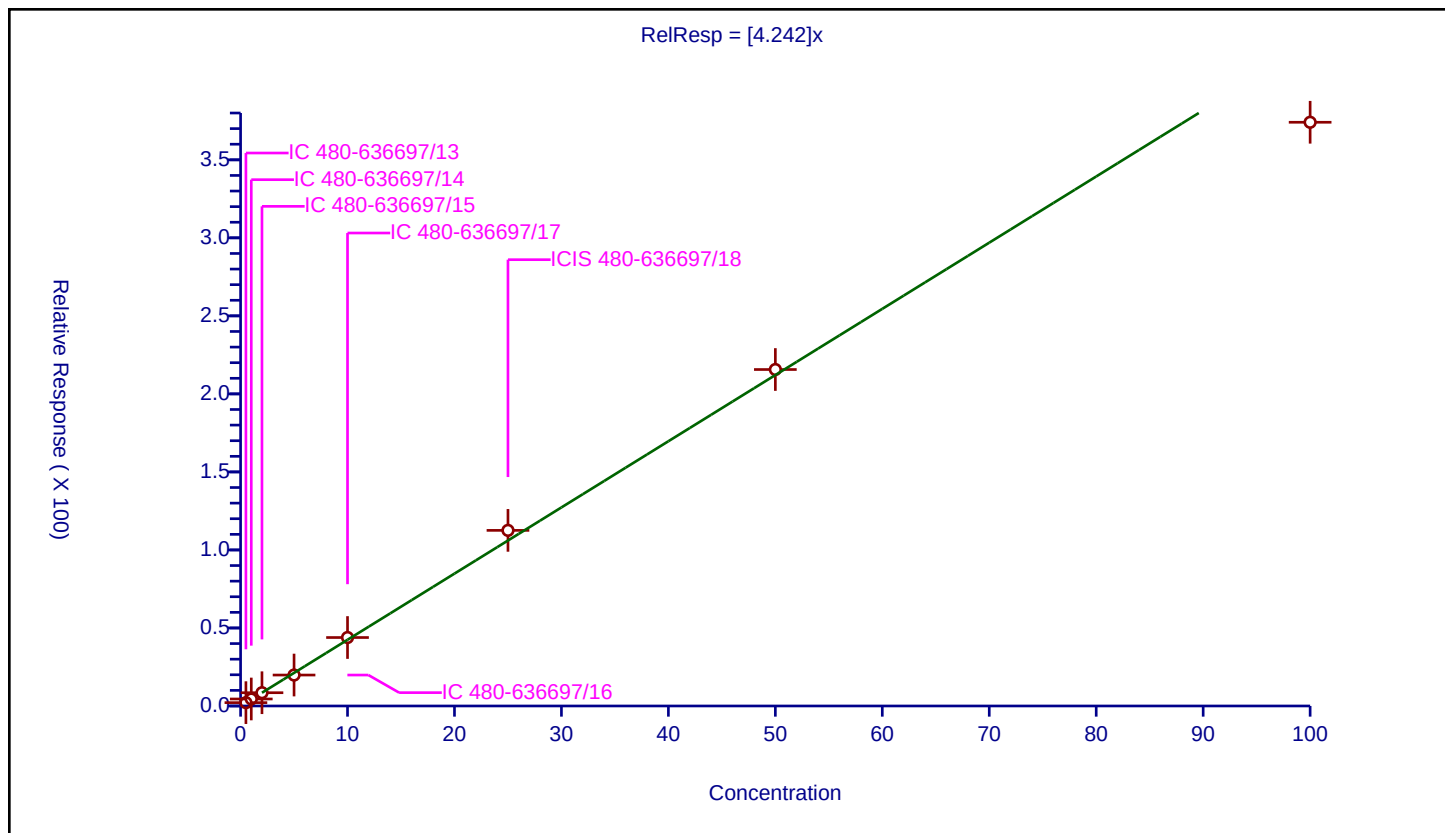
## Curve Coefficients

Intercept: 0  
 Slope: 4.242

## Error Coefficients

Standard Error: 1360000  
 Relative Standard Error: 6.2  
 Correlation Coefficient: 0.997  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 2.141128   | 25.0      | 182544.0    | 4.282255 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 4.486839   | 25.0      | 180801.0    | 4.486839 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 8.508445   | 25.0      | 180885.0    | 4.254222 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 19.837132  | 25.0      | 187299.0    | 3.967426 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 43.876448  | 25.0      | 192025.0    | 4.387645 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 112.531983 | 25.0      | 182908.0    | 4.501279 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 215.612297 | 25.0      | 196073.0    | 4.312246 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 374.063741 | 25.0      | 202695.0    | 3.740637 | Y    |



# Calibration

/ Trichloroethene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

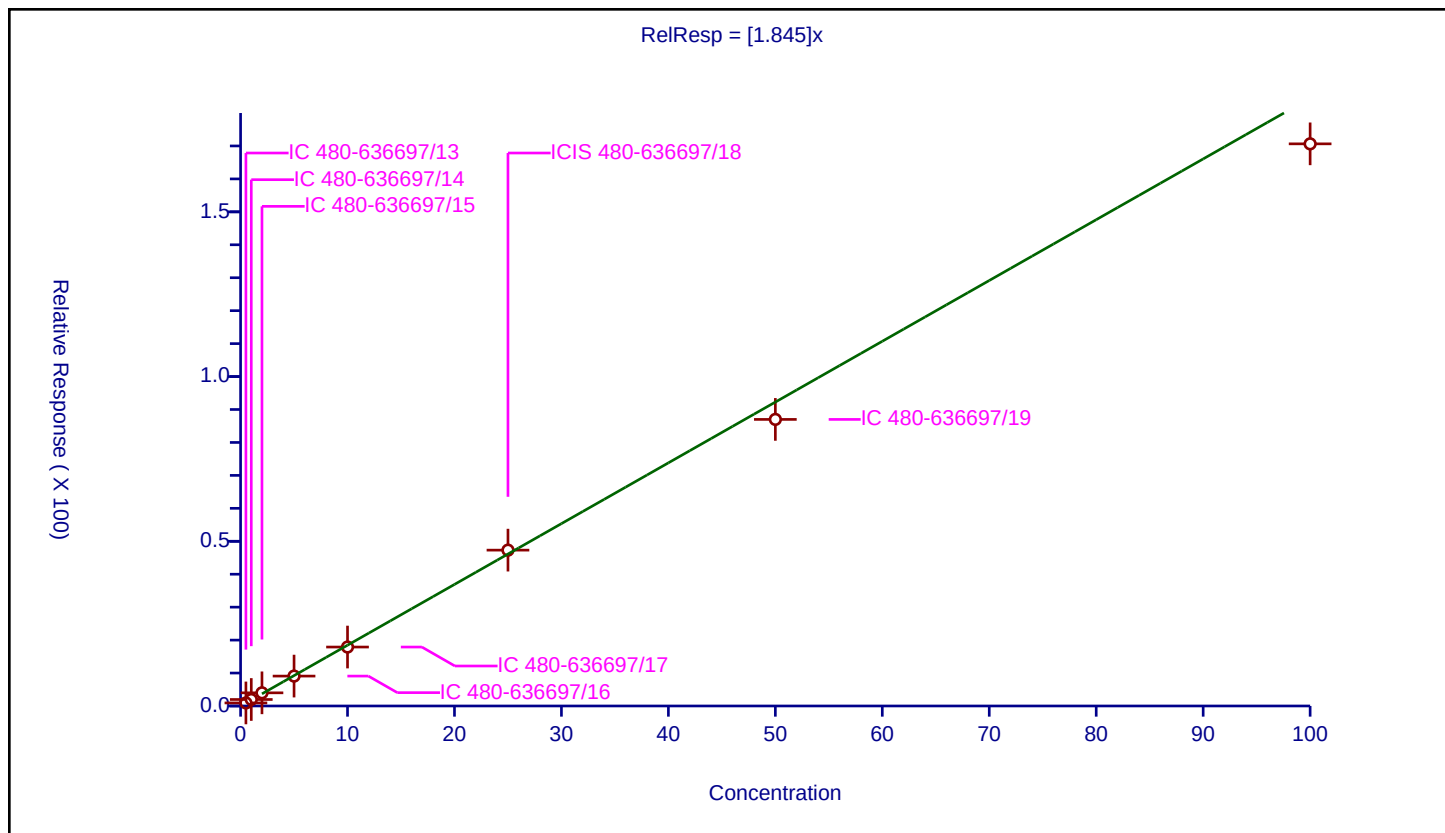
## Curve Coefficients

Intercept: 0  
 Slope: 1.845

## Error Coefficients

Standard Error: 600000  
 Relative Standard Error: 5.6  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.925119   | 25.0      | 182544.0    | 1.850239 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.971366   | 25.0      | 180801.0    | 1.971366 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 3.990933   | 25.0      | 180885.0    | 1.995467 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 9.0796     | 25.0      | 187299.0    | 1.81592  | Y    |
| 5  | IC 480-636697/17   | 10.0          | 17.894285  | 25.0      | 192025.0    | 1.789428 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 47.308073  | 25.0      | 182908.0    | 1.892323 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 86.992345  | 25.0      | 196073.0    | 1.739847 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 170.641604 | 25.0      | 202695.0    | 1.706416 | Y    |



# Calibration

/ Methylcyclohexane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

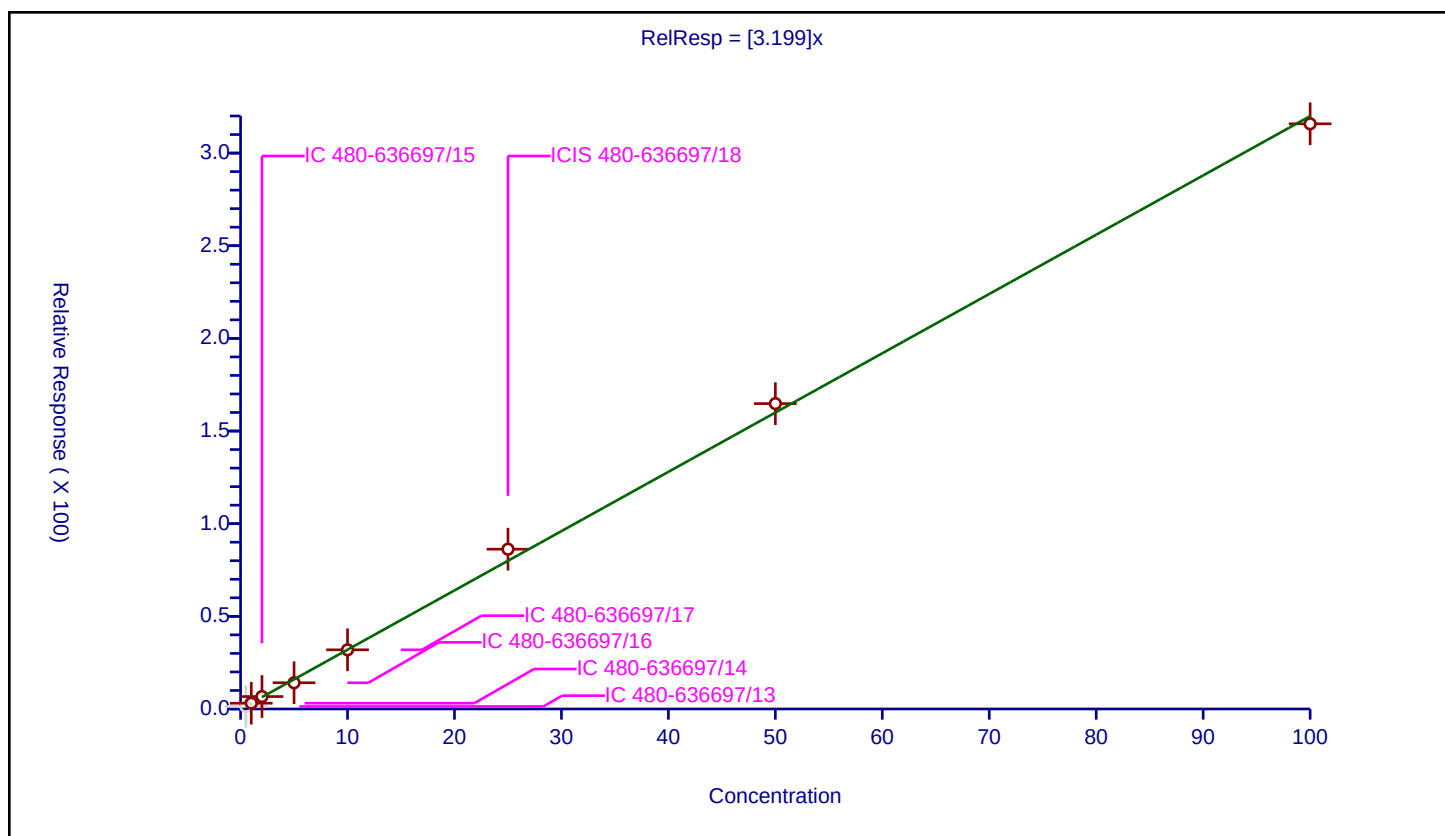
## Curve Coefficients

Intercept: 0  
 Slope: 3.199

## Error Coefficients

Standard Error: 1200000  
 Relative Standard Error: 6.3  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.363507   | 25.0      | 182544.0    | 2.727014 | N    |
| 2  | IC 480-636697/14   | 1.0           | 3.1124     | 25.0      | 180801.0    | 3.1124   | Y    |
| 3  | IC 480-636697/15   | 2.0           | 6.712967   | 25.0      | 180885.0    | 3.356483 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 14.153039  | 25.0      | 187299.0    | 2.830608 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 31.929436  | 25.0      | 192025.0    | 3.192944 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 86.232013  | 25.0      | 182908.0    | 3.449281 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 164.791812 | 25.0      | 196073.0    | 3.295836 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 315.794544 | 25.0      | 202695.0    | 3.157945 | Y    |





# Calibration

/ 1,2-Dichloropropane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

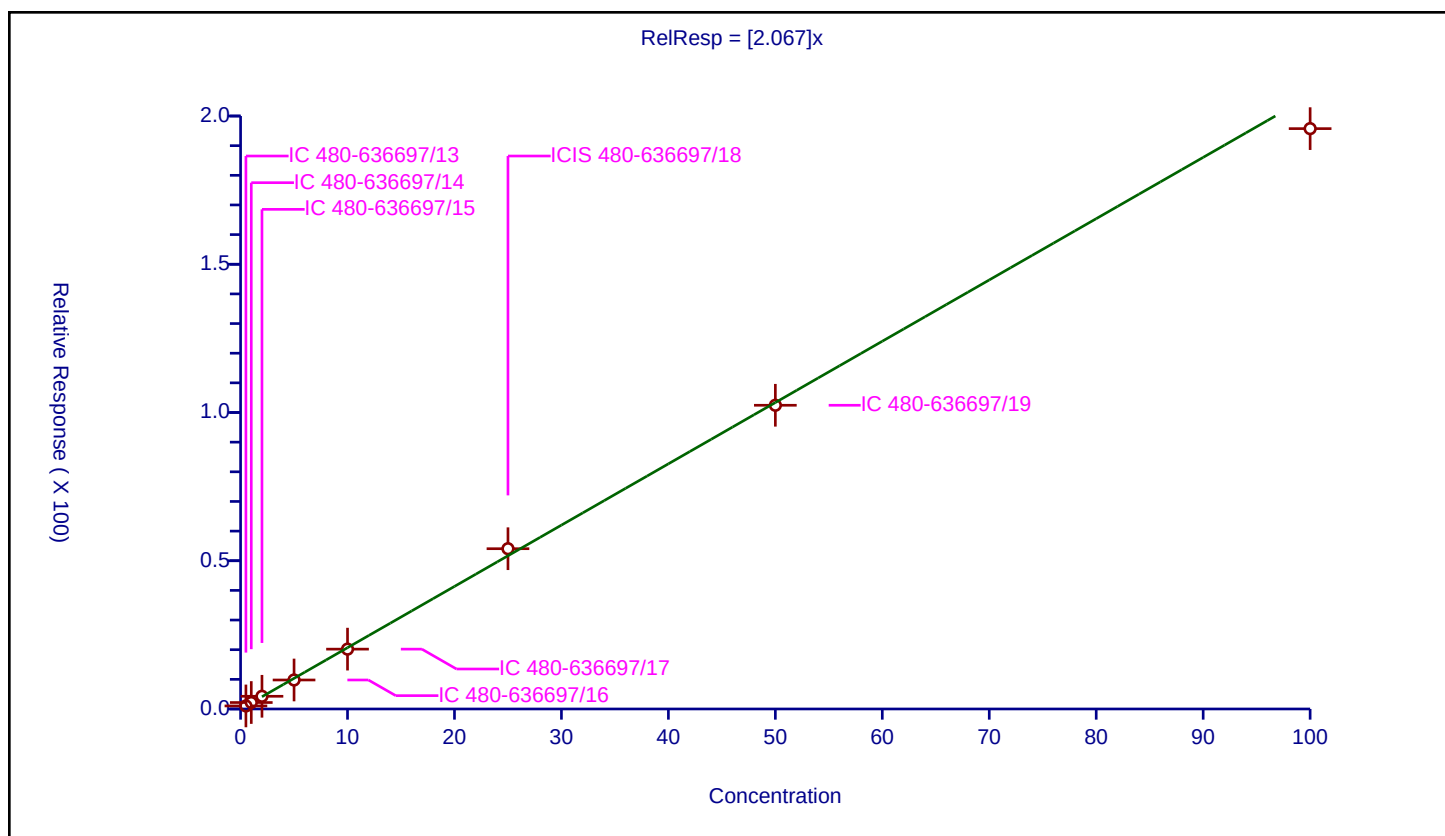
## Curve Coefficients

Intercept: 0  
Slope: 2.067

## Error Coefficients

Standard Error: 692000  
Relative Standard Error: 4.3  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.033997   | 25.0      | 182544.0    | 2.067995 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.18251    | 25.0      | 180801.0    | 2.18251  | Y    |
| 3  | IC 480-636697/15   | 2.0           | 4.286287   | 25.0      | 180885.0    | 2.143143 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 9.783822   | 25.0      | 187299.0    | 1.956764 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 20.184872  | 25.0      | 192025.0    | 2.018487 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 54.059555  | 25.0      | 182908.0    | 2.162382 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 102.440673 | 25.0      | 196073.0    | 2.048813 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 195.744592 | 25.0      | 202695.0    | 1.957446 | Y    |



# Calibration

/ Dibromomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

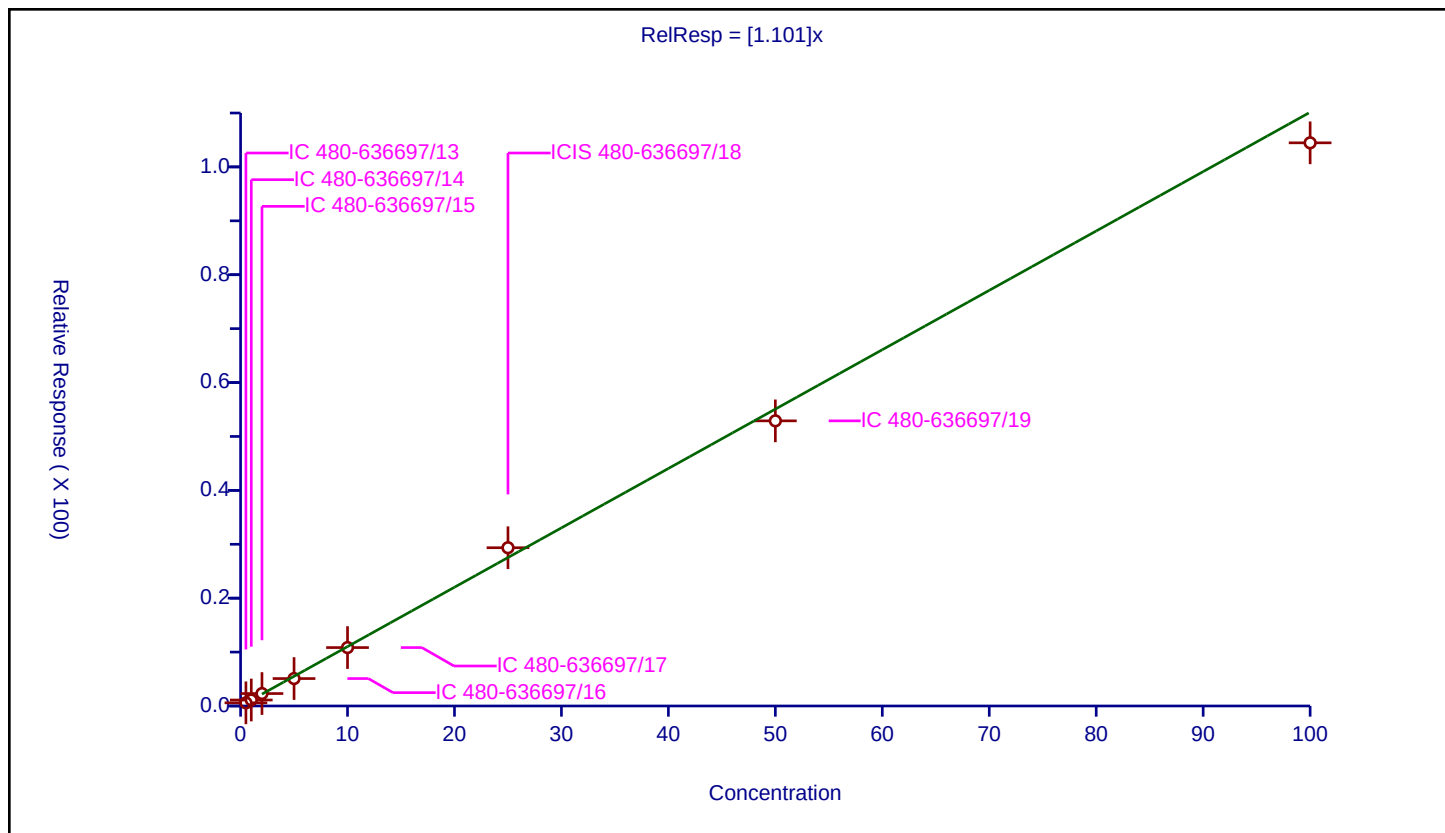
## Curve Coefficients

Intercept: 0  
 Slope: 1.101

## Error Coefficients

Standard Error: 367000  
 Relative Standard Error: 5.4  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.585064   | 25.0      | 182544.0    | 1.170129 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.109369   | 25.0      | 180801.0    | 1.109369 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.306991   | 25.0      | 180885.0    | 1.153495 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 5.089456   | 25.0      | 187299.0    | 1.017891 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 10.838432  | 25.0      | 192025.0    | 1.083843 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 29.357245  | 25.0      | 182908.0    | 1.17429  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 52.894075  | 25.0      | 196073.0    | 1.057882 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 104.47125  | 25.0      | 202695.0    | 1.044712 | Y    |



## Calibration

/ 1,4-Dioxane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

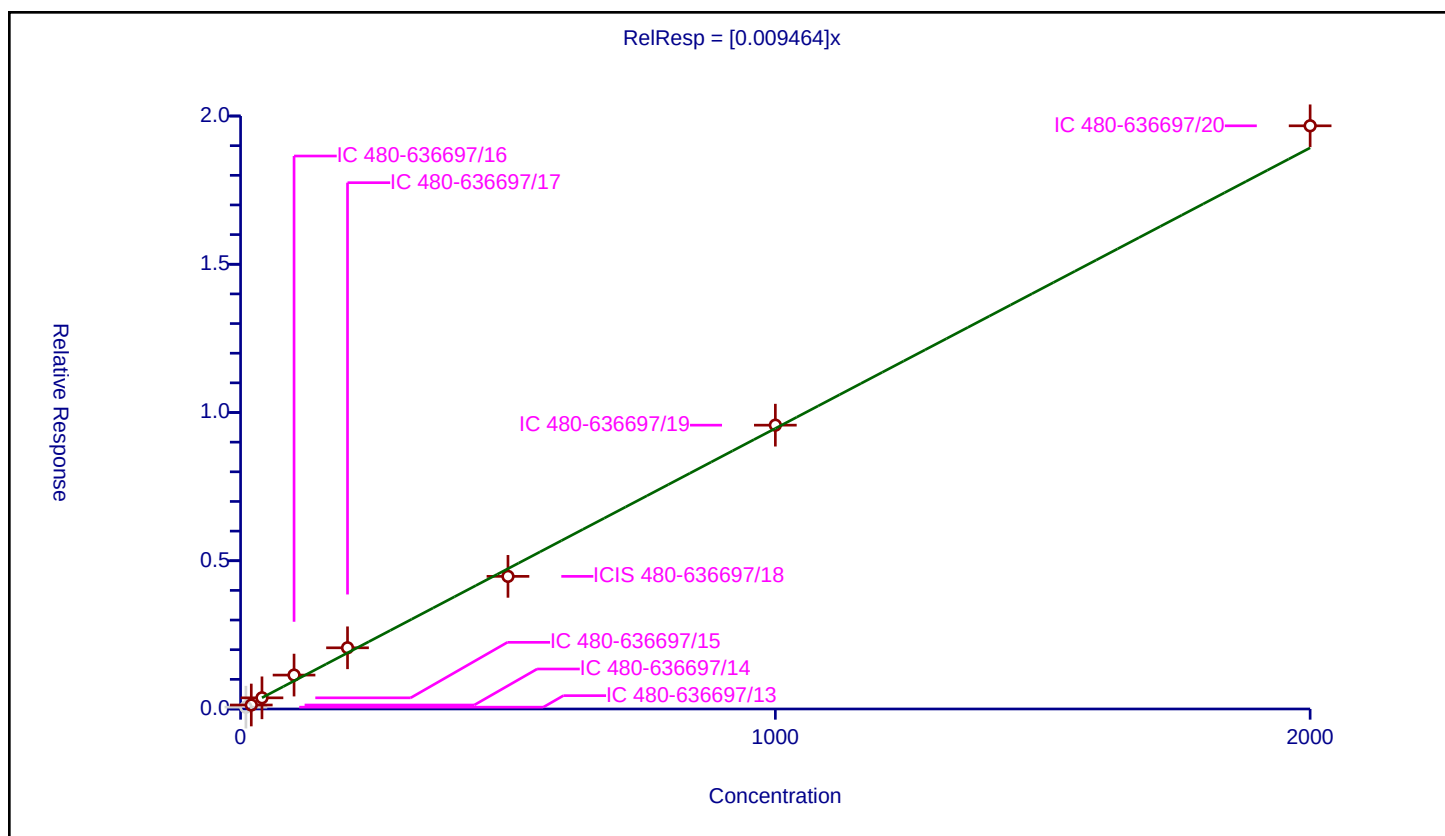
## Curve Coefficients

Intercept: 0  
Slope: 0.009464

## Error Coefficients

Standard Error: 141000  
Relative Standard Error: 15.3  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.973

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 10.0          | 0.061974   | 25.0      | 383225.0    | 0.006197 | N    |
| 2  | IC 480-636697/14   | 20.0          | 0.134393   | 25.0      | 375205.0    | 0.00672  | Y    |
| 3  | IC 480-636697/15   | 40.0          | 0.37683    | 25.0      | 379216.0    | 0.009421 | Y    |
| 4  | IC 480-636697/16   | 100.0         | 1.143311   | 25.0      | 385853.0    | 0.011433 | Y    |
| 5  | IC 480-636697/17   | 200.0         | 2.063599   | 25.0      | 371172.0    | 0.010318 | Y    |
| 6  | ICIS 480-636697/18 | 500.0         | 4.472907   | 25.0      | 387455.0    | 0.008946 | Y    |
| 7  | IC 480-636697/19   | 1000.0        | 9.573194   | 25.0      | 384378.0    | 0.009573 | Y    |
| 8  | IC 480-636697/20   | 2000.0        | 19.669469  | 25.0      | 383822.0    | 0.009835 | Y    |



# Calibration

/ Dichlorobromomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

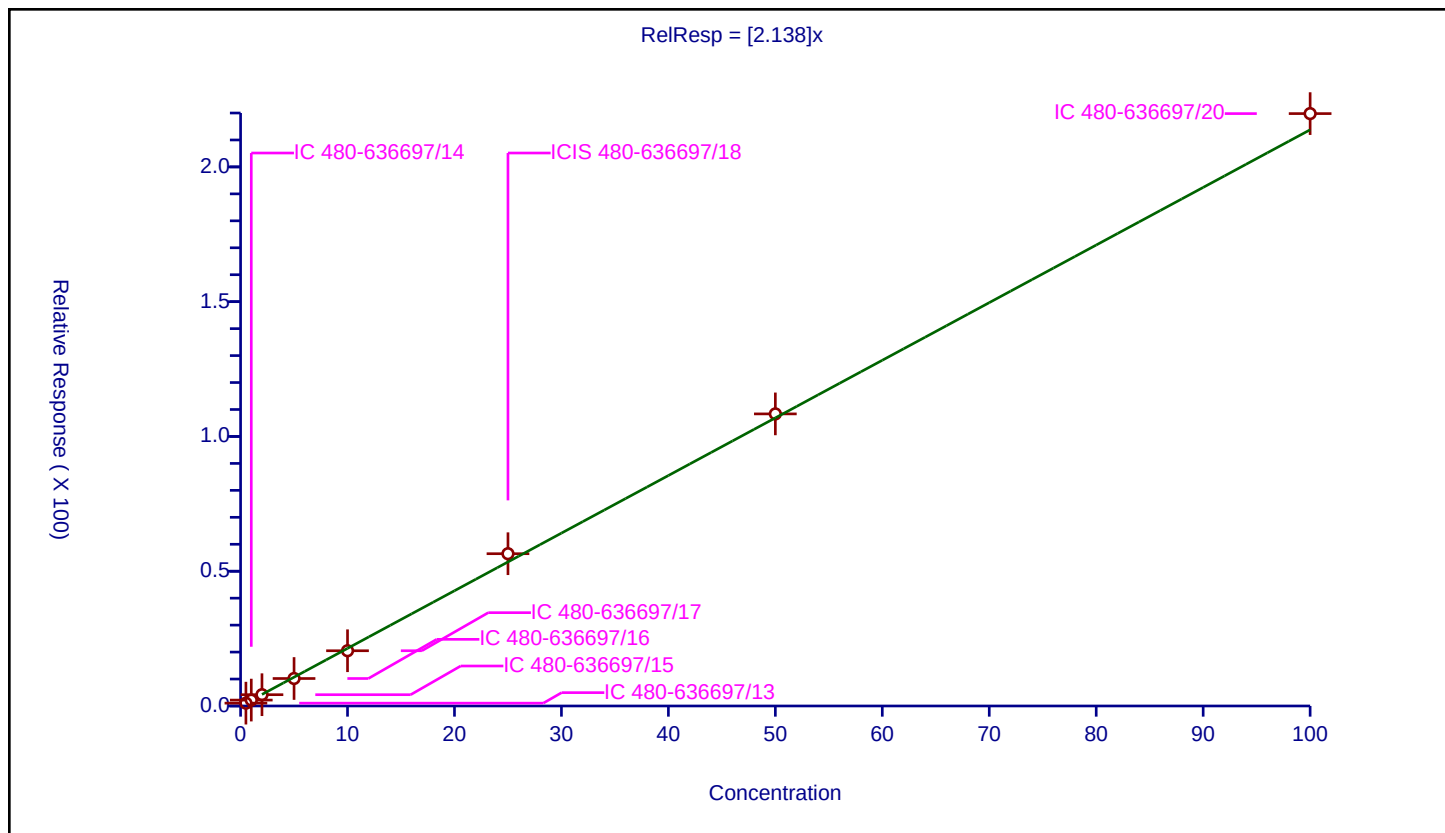
## Curve Coefficients

Intercept: 0  
 Slope: 2.138

## Error Coefficients

Standard Error: 765000  
 Relative Standard Error: 3.7  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.050295   | 25.0      | 182544.0    | 2.100589 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.19053    | 25.0      | 180801.0    | 2.19053  | Y    |
| 3  | IC 480-636697/15   | 2.0           | 4.194239   | 25.0      | 180885.0    | 2.09712  | Y    |
| 4  | IC 480-636697/16   | 5.0           | 10.194395  | 25.0      | 187299.0    | 2.038879 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 20.498112  | 25.0      | 192025.0    | 2.049811 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 56.499169  | 25.0      | 182908.0    | 2.259967 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 108.371499 | 25.0      | 196073.0    | 2.16743  | Y    |
| 8  | IC 480-636697/20   | 100.0         | 219.778238 | 25.0      | 202695.0    | 2.197782 | Y    |



## Calibration

/ 2-Chloroethyl vinyl ether

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

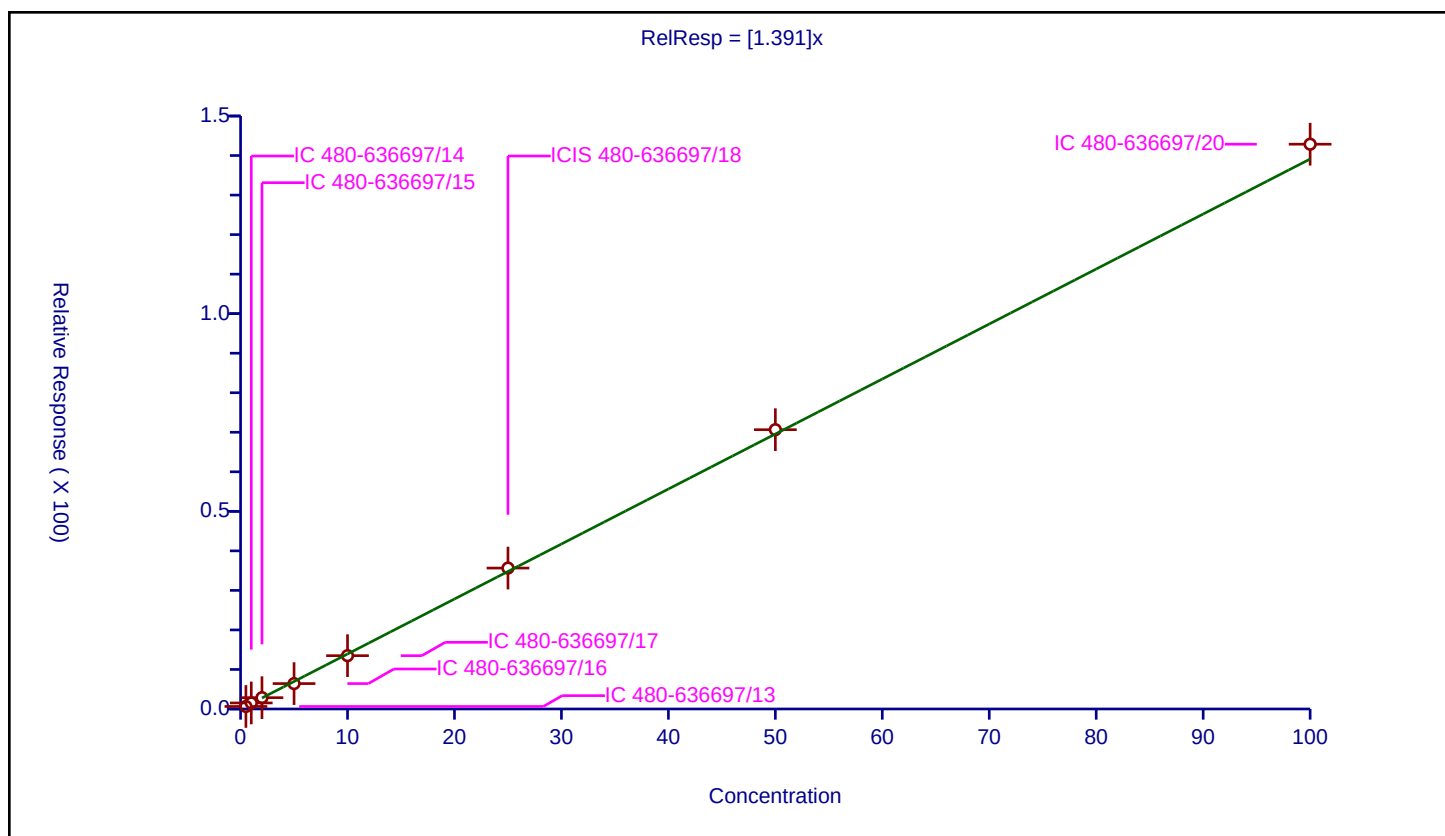
## Curve Coefficients

Intercept: 0  
Slope: 1.391

## Error Coefficients

Standard Error: 497000  
Relative Standard Error: 6.1  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.634915   | 25.0      | 182544.0    | 1.269831 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.526817   | 25.0      | 180801.0    | 1.526817 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.86356    | 25.0      | 180885.0    | 1.43178  | Y    |
| 4  | IC 480-636697/16   | 5.0           | 6.424354   | 25.0      | 187299.0    | 1.284871 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 13.485484  | 25.0      | 192025.0    | 1.348548 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 35.647293  | 25.0      | 182908.0    | 1.425892 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 70.648687  | 25.0      | 196073.0    | 1.412974 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 142.871062 | 25.0      | 202695.0    | 1.428711 | Y    |



# Calibration

/ cis-1,3-Dichloropropene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

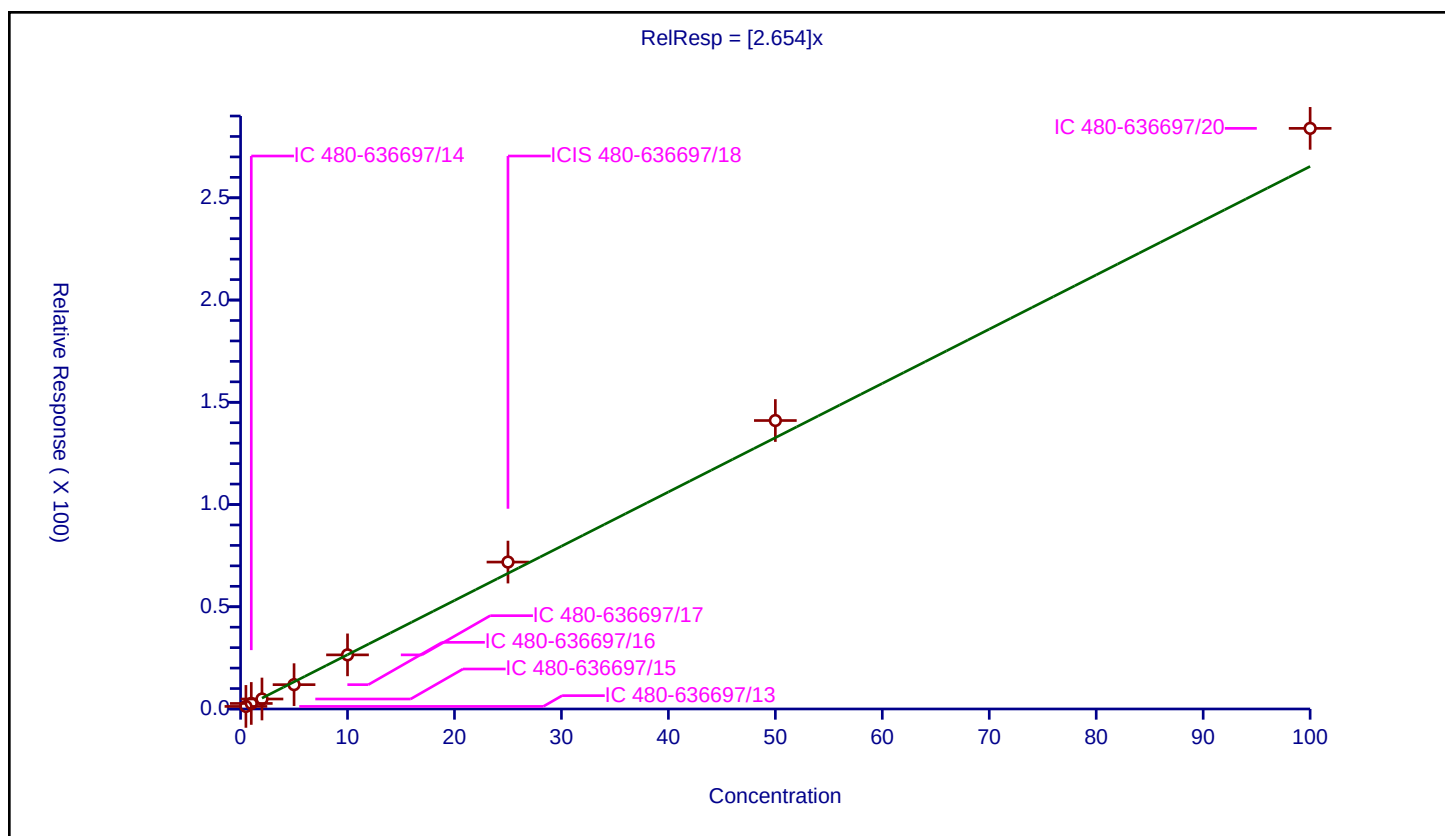
## Curve Coefficients

Intercept: 0  
 Slope: 2.654

## Error Coefficients

Standard Error: 989000  
 Relative Standard Error: 7.1  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.260518   | 25.0      | 182544.0    | 2.521036 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.702695   | 25.0      | 180801.0    | 2.702695 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 4.884733   | 25.0      | 180885.0    | 2.442367 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 11.903027  | 25.0      | 187299.0    | 2.380605 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 26.464913  | 25.0      | 192025.0    | 2.646491 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 71.846775  | 25.0      | 182908.0    | 2.873871 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 141.073223 | 25.0      | 196073.0    | 2.821464 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 283.962851 | 25.0      | 202695.0    | 2.839629 | Y    |



## Calibration

/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

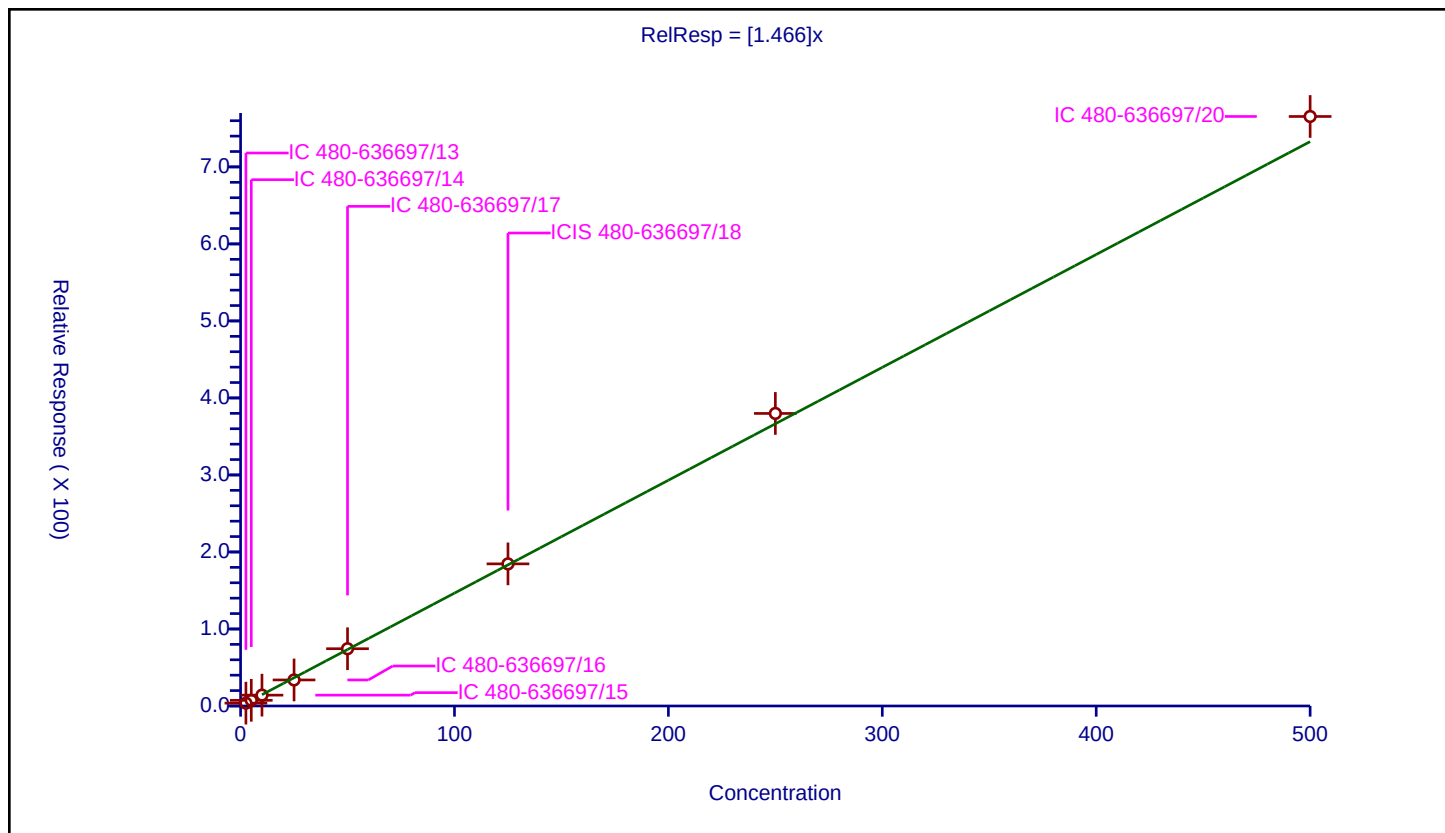
### Curve Coefficients

Intercept: 0  
 Slope: 1.466

### Error Coefficients

Standard Error: 5100000  
 Relative Standard Error: 4.0  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 2.5           | 3.700698   | 25.0      | 383225.0    | 1.480279 | Y    |
| 2  | IC 480-636697/14   | 5.0           | 7.350249   | 25.0      | 375205.0    | 1.47005  | Y    |
| 3  | IC 480-636697/15   | 10.0          | 14.080564  | 25.0      | 379216.0    | 1.408056 | Y    |
| 4  | IC 480-636697/16   | 25.0          | 33.825835  | 25.0      | 385853.0    | 1.353033 | Y    |
| 5  | IC 480-636697/17   | 50.0          | 74.367746  | 25.0      | 371172.0    | 1.487355 | Y    |
| 6  | ICIS 480-636697/18 | 125.0         | 184.538204 | 25.0      | 387455.0    | 1.476306 | Y    |
| 7  | IC 480-636697/19   | 250.0         | 379.882889 | 25.0      | 384378.0    | 1.519532 | Y    |
| 8  | IC 480-636697/20   | 500.0         | 765.510184 | 25.0      | 383822.0    | 1.53102  | Y    |



# Calibration

/ Toluene-d8 (Surr)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

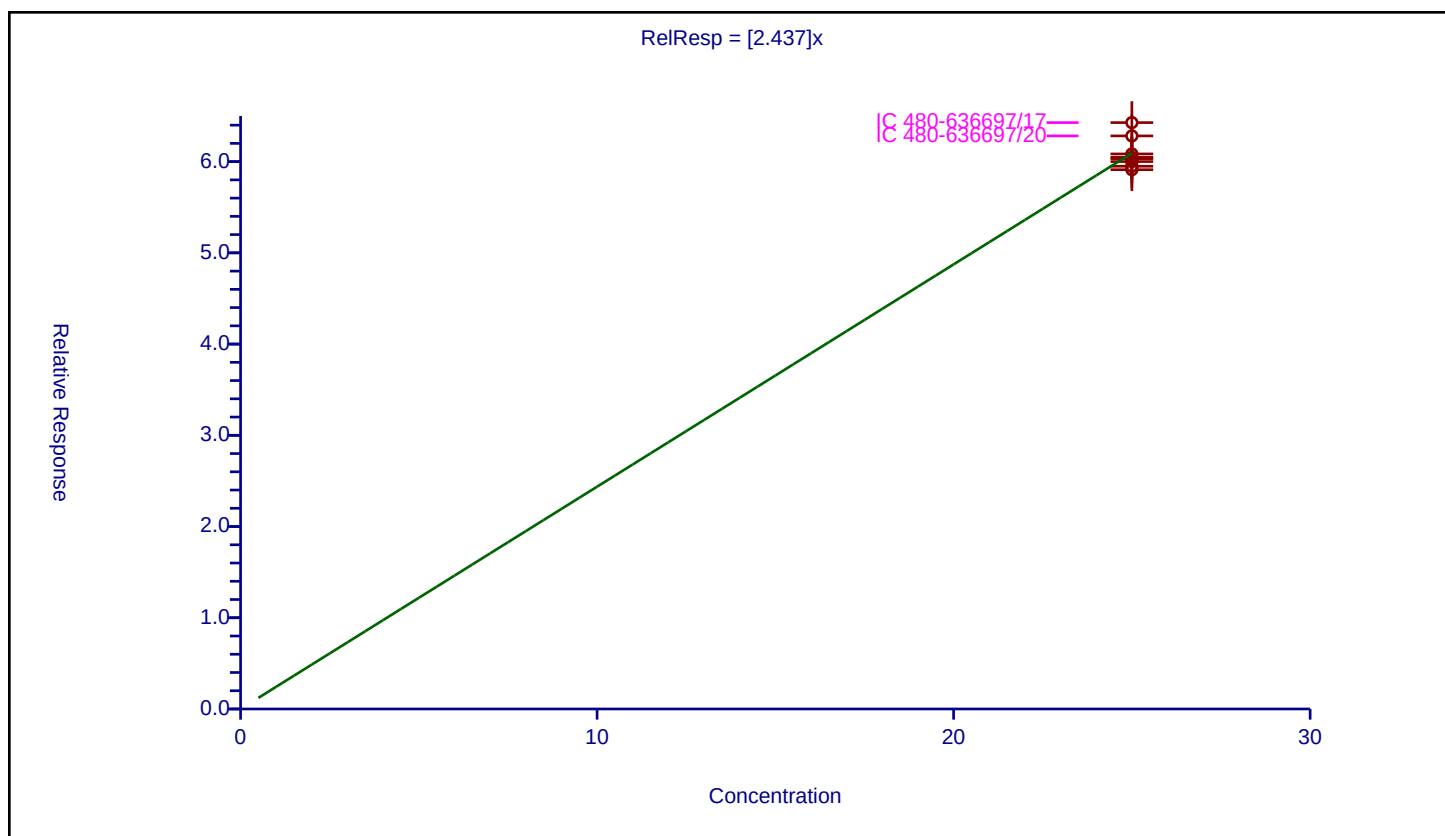
## Curve Coefficients

Intercept: 0  
 Slope: 2.437

## Error Coefficients

Standard Error: 993000  
 Relative Standard Error: 2.9  
 Correlation Coefficient: 0  
 Coefficient of Determination (Adjusted): 0

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 25.0          | 59.115337  | 25.0      | 383225.0    | 2.364613 | Y    |
| 2  | IC 480-636697/14   | 25.0          | 60.844338  | 25.0      | 375205.0    | 2.433774 | Y    |
| 3  | IC 480-636697/15   | 25.0          | 59.492018  | 25.0      | 379216.0    | 2.379681 | Y    |
| 4  | IC 480-636697/16   | 25.0          | 60.00543   | 25.0      | 385853.0    | 2.400217 | Y    |
| 5  | IC 480-636697/17   | 25.0          | 64.276737  | 25.0      | 371172.0    | 2.571069 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 60.326877  | 25.0      | 387455.0    | 2.413075 | Y    |
| 7  | IC 480-636697/19   | 25.0          | 60.470357  | 25.0      | 384378.0    | 2.418814 | Y    |
| 8  | IC 480-636697/20   | 25.0          | 62.820135  | 25.0      | 383822.0    | 2.512805 | Y    |





# Calibration

/ Toluene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

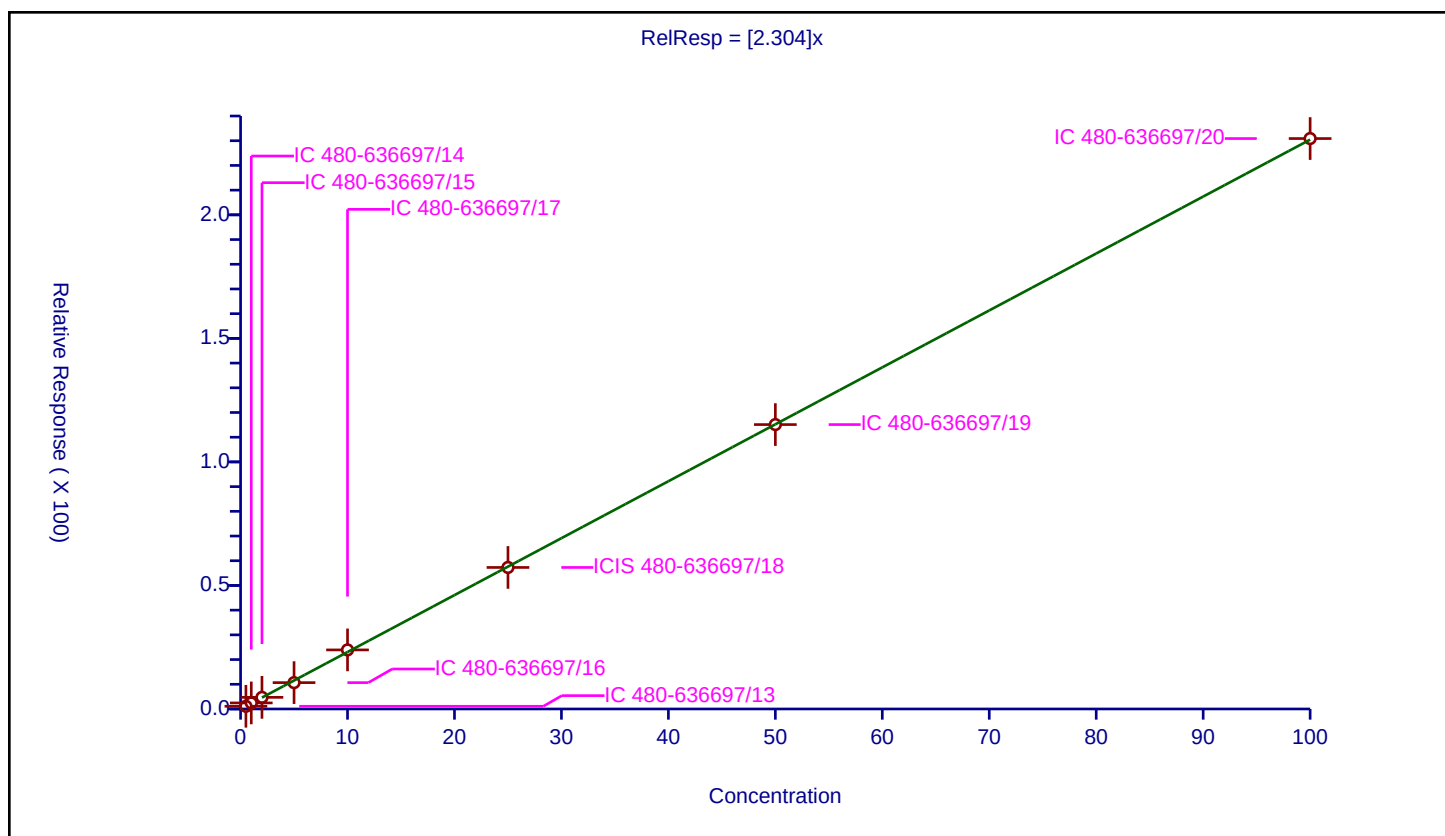
## Curve Coefficients

Intercept: 0  
 Slope: 2.304

## Error Coefficients

Standard Error: 1540000  
 Relative Standard Error: 4.5  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.097984   | 25.0      | 383225.0    | 2.195968 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.456857   | 25.0      | 375205.0    | 2.456857 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 4.709981   | 25.0      | 379216.0    | 2.35499  | Y    |
| 4  | IC 480-636697/16   | 5.0           | 10.668052  | 25.0      | 385853.0    | 2.13361  | Y    |
| 5  | IC 480-636697/17   | 10.0          | 23.914048  | 25.0      | 371172.0    | 2.391405 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 57.289427  | 25.0      | 387455.0    | 2.291577 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 115.109345 | 25.0      | 384378.0    | 2.302187 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 230.877269 | 25.0      | 383822.0    | 2.308773 | Y    |



## Calibration

/ trans-1,3-Dichloropropene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

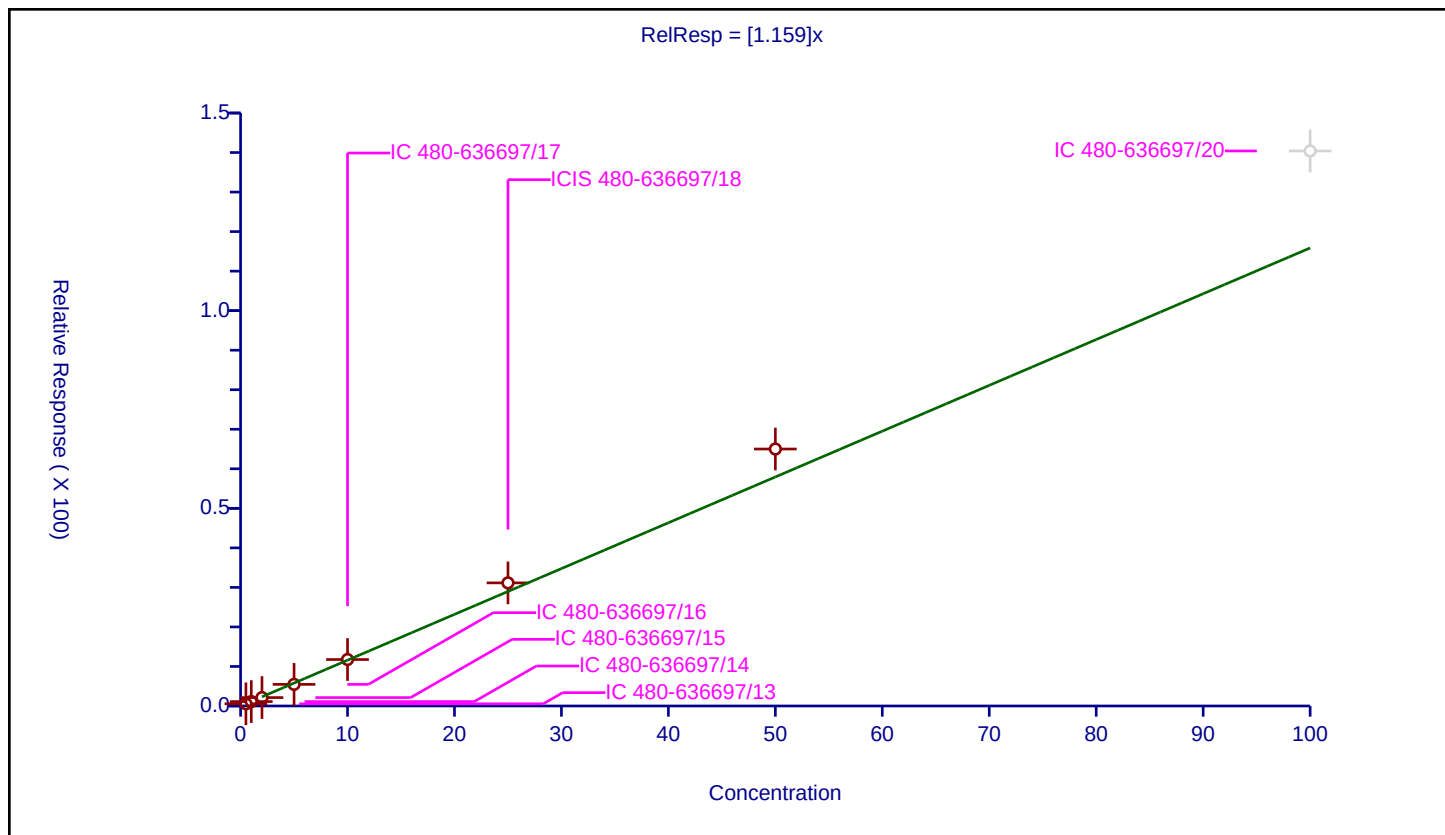
## Curve Coefficients

Intercept: 0  
Slope: 1.159

## Error Coefficients

Standard Error: 460000  
Relative Standard Error: 7.4  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.556592   | 25.0      | 383225.0    | 1.113184 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.117722   | 25.0      | 375205.0    | 1.117722 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.129591   | 25.0      | 379216.0    | 1.064796 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 5.468663   | 25.0      | 385853.0    | 1.093733 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 11.753985  | 25.0      | 371172.0    | 1.175398 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 31.143875  | 25.0      | 387455.0    | 1.245755 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 65.003395  | 25.0      | 384378.0    | 1.300068 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 140.400238 | 25.0      | 383822.0    | 1.404002 | N    |



# Calibration

/ Ethyl methacrylate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

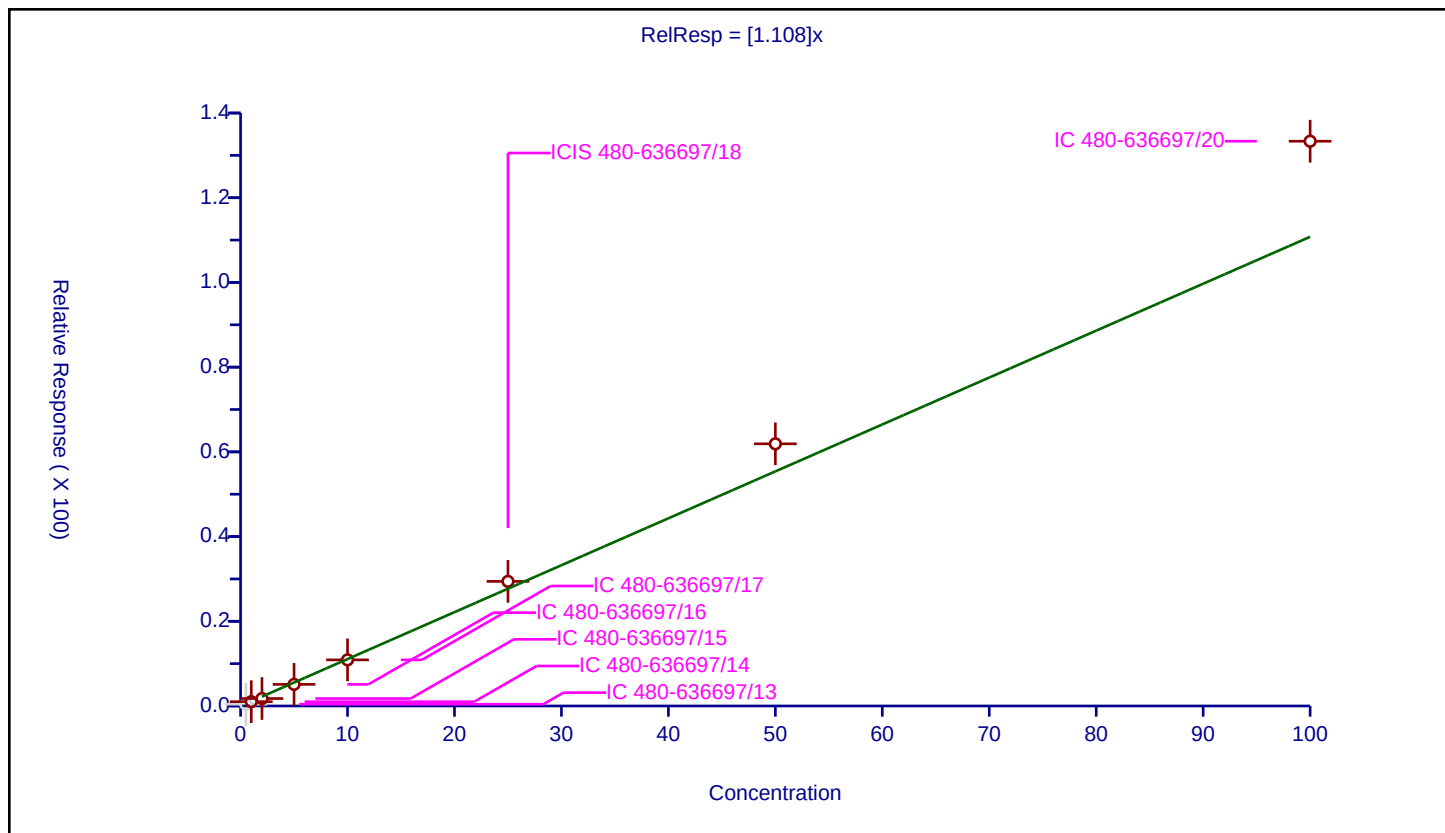
## Curve Coefficients

Intercept: 0  
 Slope: 1.108

## Error Coefficients

Standard Error: 943000  
 Relative Standard Error: 13.8  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.977

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.420641   | 25.0      | 383225.0    | 0.841281 | N    |
| 2  | IC 480-636697/14   | 1.0           | 1.015178   | 25.0      | 375205.0    | 1.015178 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 1.76232    | 25.0      | 379216.0    | 0.88116  | Y    |
| 4  | IC 480-636697/16   | 5.0           | 5.103109   | 25.0      | 385853.0    | 1.020622 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 10.889224  | 25.0      | 371172.0    | 1.088922 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 29.419739  | 25.0      | 387455.0    | 1.17679  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 61.898964  | 25.0      | 384378.0    | 1.237979 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 133.339087 | 25.0      | 383822.0    | 1.333391 | Y    |



# Calibration

/ 1,1,2-Trichloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

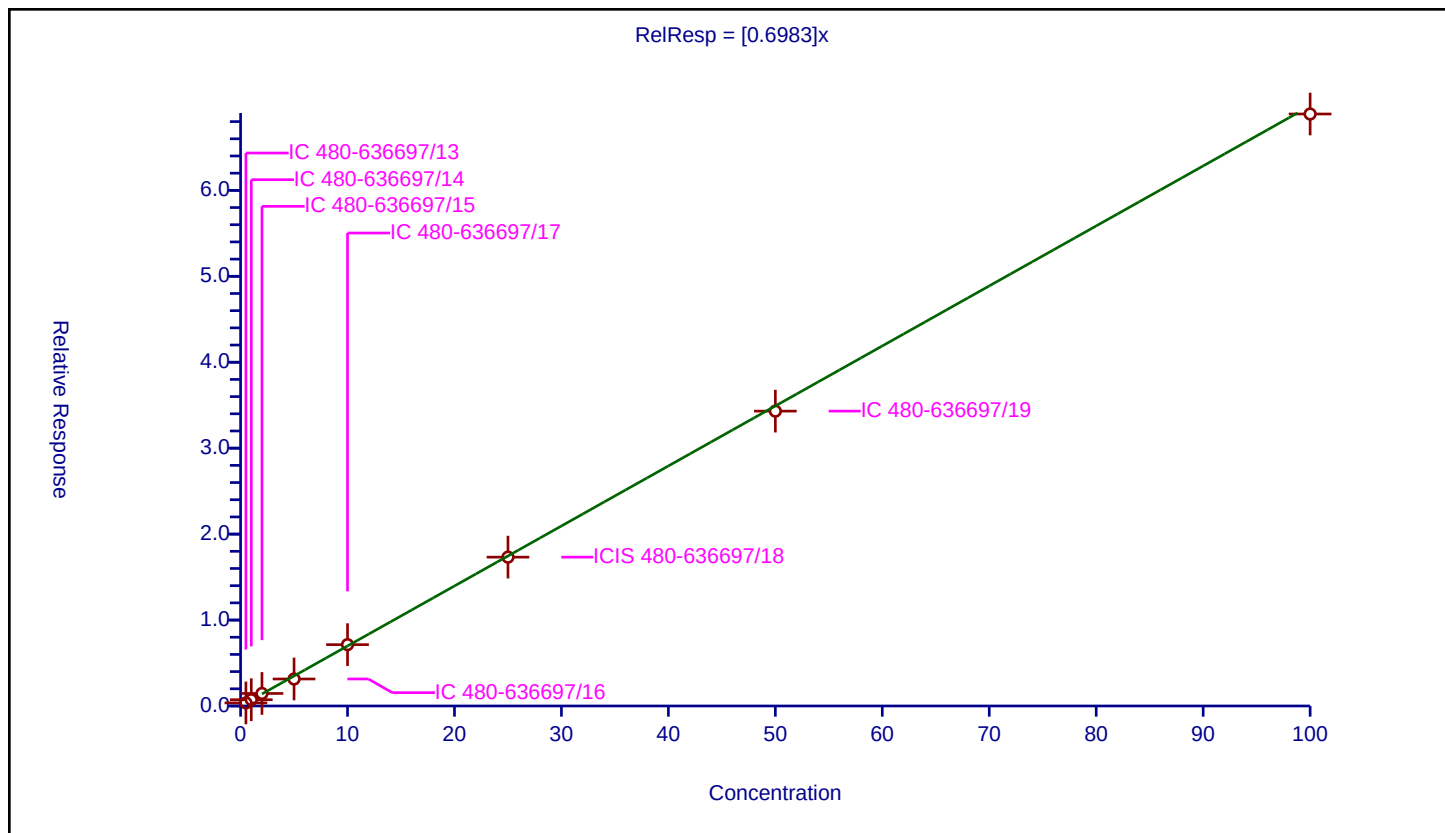
## Curve Coefficients

Intercept: 0  
 Slope: 0.6983

## Error Coefficients

Standard Error: 460000  
 Relative Standard Error: 4.8  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.358471   | 25.0      | 383225.0    | 0.716942 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 0.731134   | 25.0      | 375205.0    | 0.731134 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 1.456294   | 25.0      | 379216.0    | 0.728147 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 3.141546   | 25.0      | 385853.0    | 0.628309 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 7.138469   | 25.0      | 371172.0    | 0.713847 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 17.318269  | 25.0      | 387455.0    | 0.692731 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 34.310171  | 25.0      | 384378.0    | 0.686203 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 68.885707  | 25.0      | 383822.0    | 0.688857 | Y    |



## Calibration

## / Tetrachloroethene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

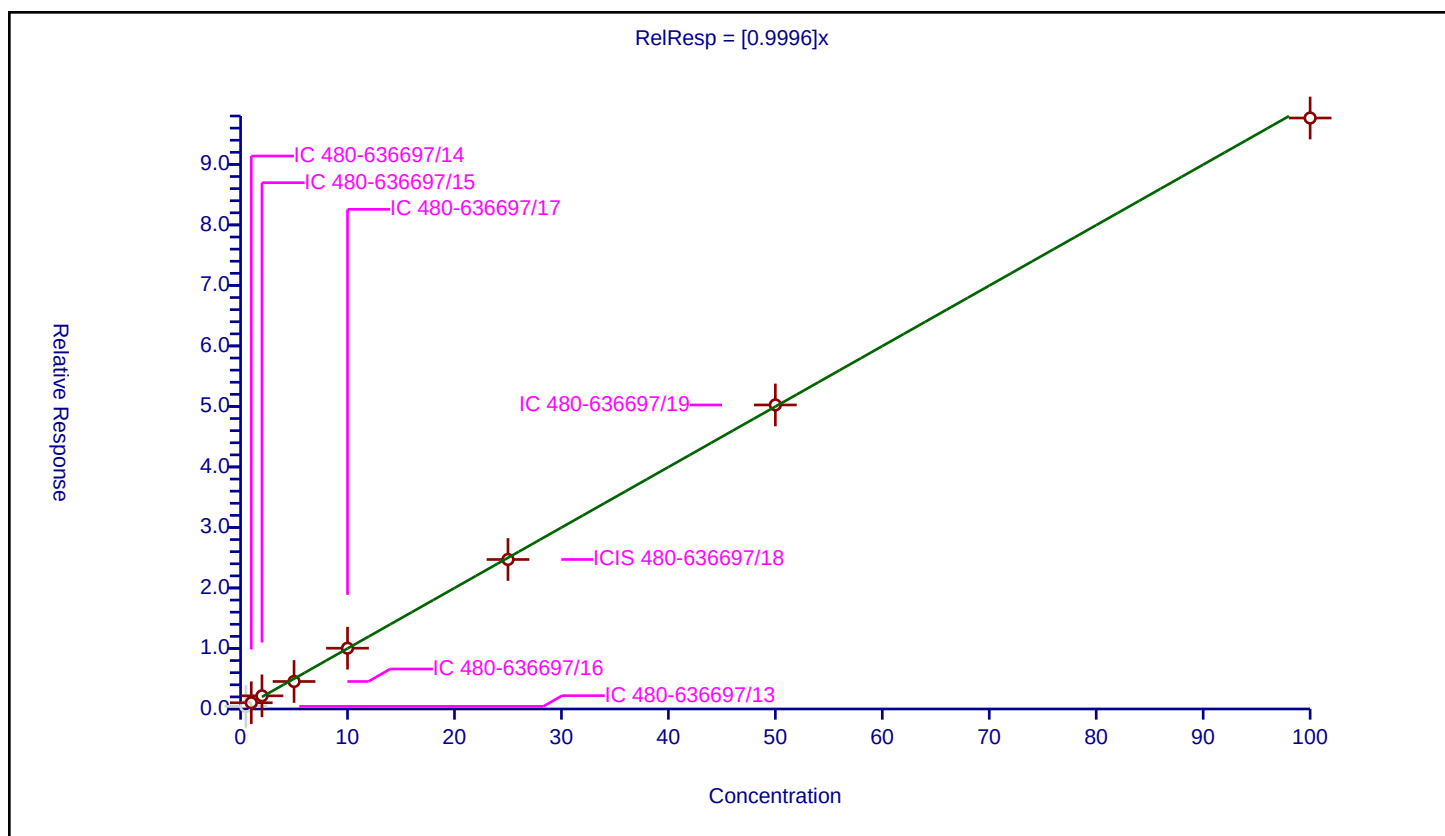
## Curve Coefficients

Intercept: 0  
Slope: 0.9996

## Error Coefficients

Standard Error: 709000  
Relative Standard Error: 5.4  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.428599   | 25.0      | 383225.0    | 0.857199 | N    |
| 2  | IC 480-636697/14   | 1.0           | 1.027039   | 25.0      | 375205.0    | 1.027039 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.173036   | 25.0      | 379216.0    | 1.086518 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 4.544671   | 25.0      | 385853.0    | 0.908934 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 10.045006  | 25.0      | 371172.0    | 1.004501 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 24.707514  | 25.0      | 387455.0    | 0.988301 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 50.247933  | 25.0      | 384378.0    | 1.004959 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 97.6706    | 25.0      | 383822.0    | 0.976706 | Y    |



# Calibration

/ 1,3-Dichloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

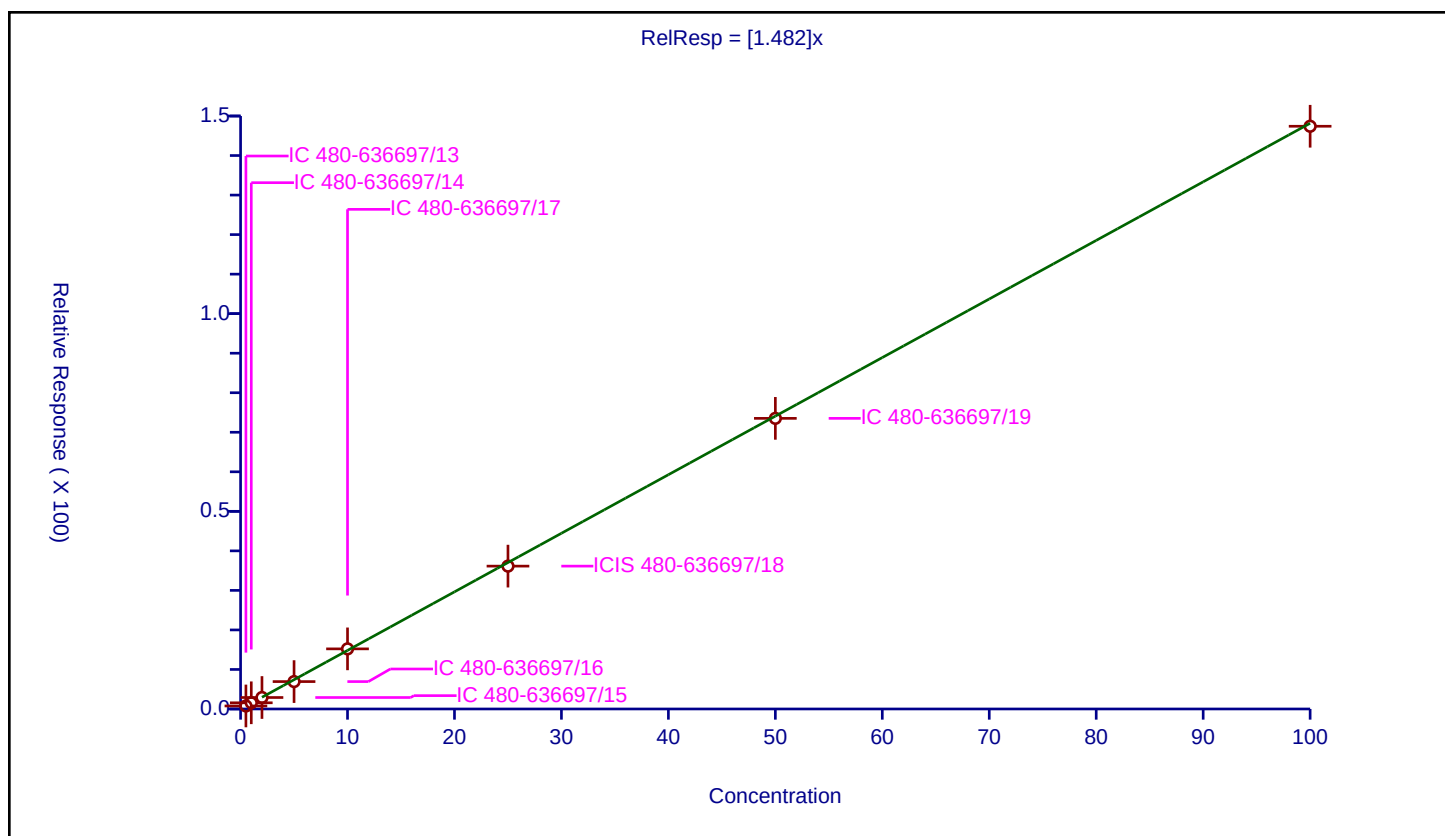
## Curve Coefficients

Intercept: 0  
 Slope: 1.482

## Error Coefficients

Standard Error: 984000  
 Relative Standard Error: 3.9  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.768217   | 25.0      | 383225.0    | 1.536434 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.56661    | 25.0      | 375205.0    | 1.56661  | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.905864   | 25.0      | 379216.0    | 1.452932 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 6.933146   | 25.0      | 385853.0    | 1.386629 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 15.204878  | 25.0      | 371172.0    | 1.520488 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 36.137358  | 25.0      | 387455.0    | 1.445494 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 73.518581  | 25.0      | 384378.0    | 1.470372 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 147.406871 | 25.0      | 383822.0    | 1.474069 | Y    |



## Calibration

/ 2-Hexanone

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

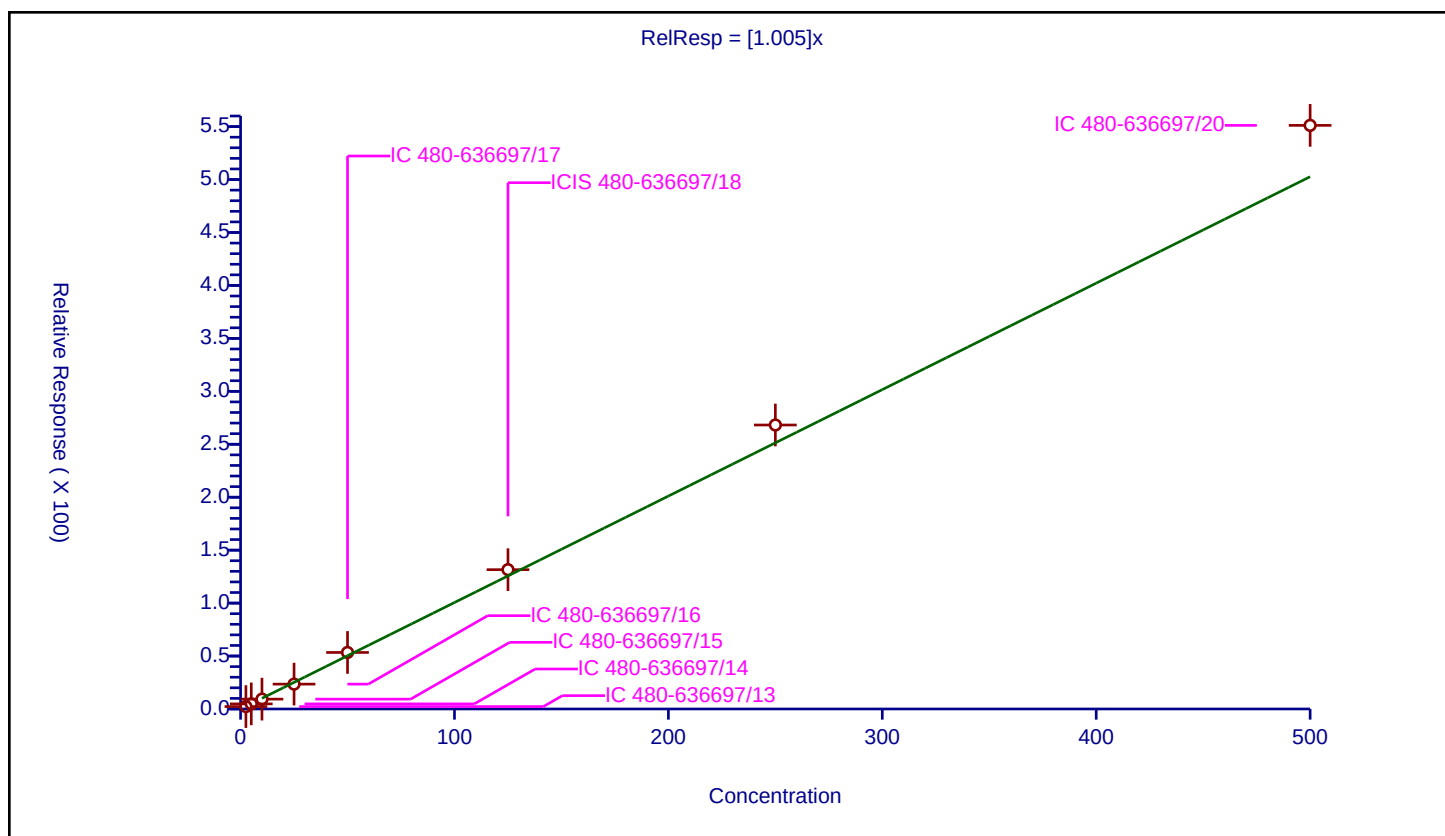
## Curve Coefficients

Intercept: 0  
Slope: 1.005

## Error Coefficients

Standard Error: 3660000  
Relative Standard Error: 7.5  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 2.5           | 2.285015   | 25.0      | 383225.0    | 0.914006 | Y    |
| 2  | IC 480-636697/14   | 5.0           | 4.812236   | 25.0      | 375205.0    | 0.962447 | Y    |
| 3  | IC 480-636697/15   | 10.0          | 9.312173   | 25.0      | 379216.0    | 0.931217 | Y    |
| 4  | IC 480-636697/16   | 25.0          | 23.494569  | 25.0      | 385853.0    | 0.939783 | Y    |
| 5  | IC 480-636697/17   | 50.0          | 53.382125  | 25.0      | 371172.0    | 1.067642 | Y    |
| 6  | ICIS 480-636697/18 | 125.0         | 131.565472 | 25.0      | 387455.0    | 1.052524 | Y    |
| 7  | IC 480-636697/19   | 250.0         | 268.196801 | 25.0      | 384378.0    | 1.072787 | Y    |
| 8  | IC 480-636697/20   | 500.0         | 551.159587 | 25.0      | 383822.0    | 1.102319 | Y    |



# Calibration

/ Chlorodibromomethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

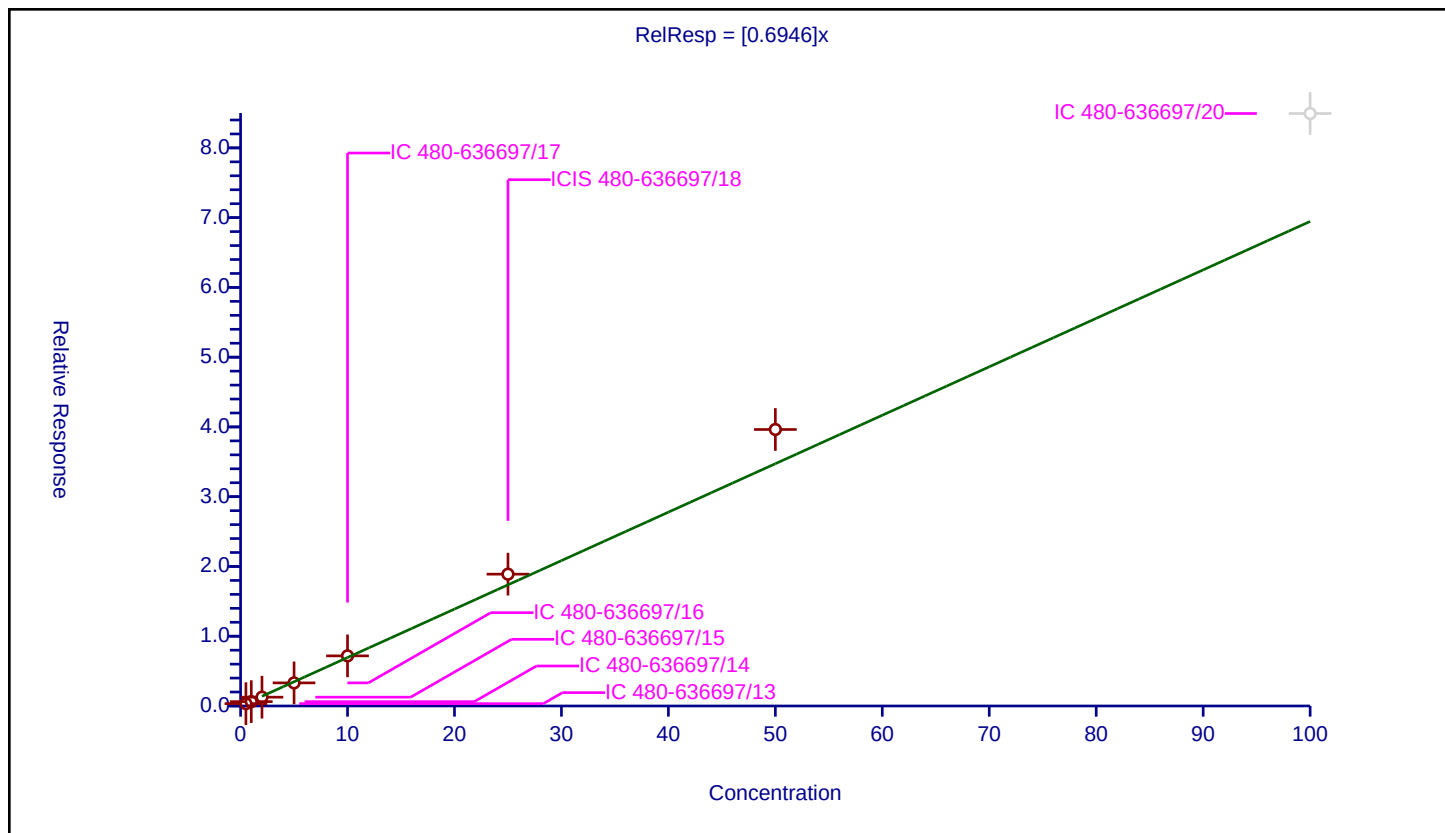
## Curve Coefficients

Intercept: 0  
Slope: 0.6946

## Error Coefficients

Standard Error: 280000  
Relative Standard Error: 9.1  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.989

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.338183   | 25.0      | 383225.0    | 0.676365 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 0.625058   | 25.0      | 375205.0    | 0.625058 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 1.262869   | 25.0      | 379216.0    | 0.631434 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 3.311624   | 25.0      | 385853.0    | 0.662325 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 7.183597   | 25.0      | 371172.0    | 0.71836  | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 18.897549  | 25.0      | 387455.0    | 0.755902 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 39.634617  | 25.0      | 384378.0    | 0.792692 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 84.928821  | 25.0      | 383822.0    | 0.849288 | N    |





# Calibration

/ Ethylene Dibromide

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

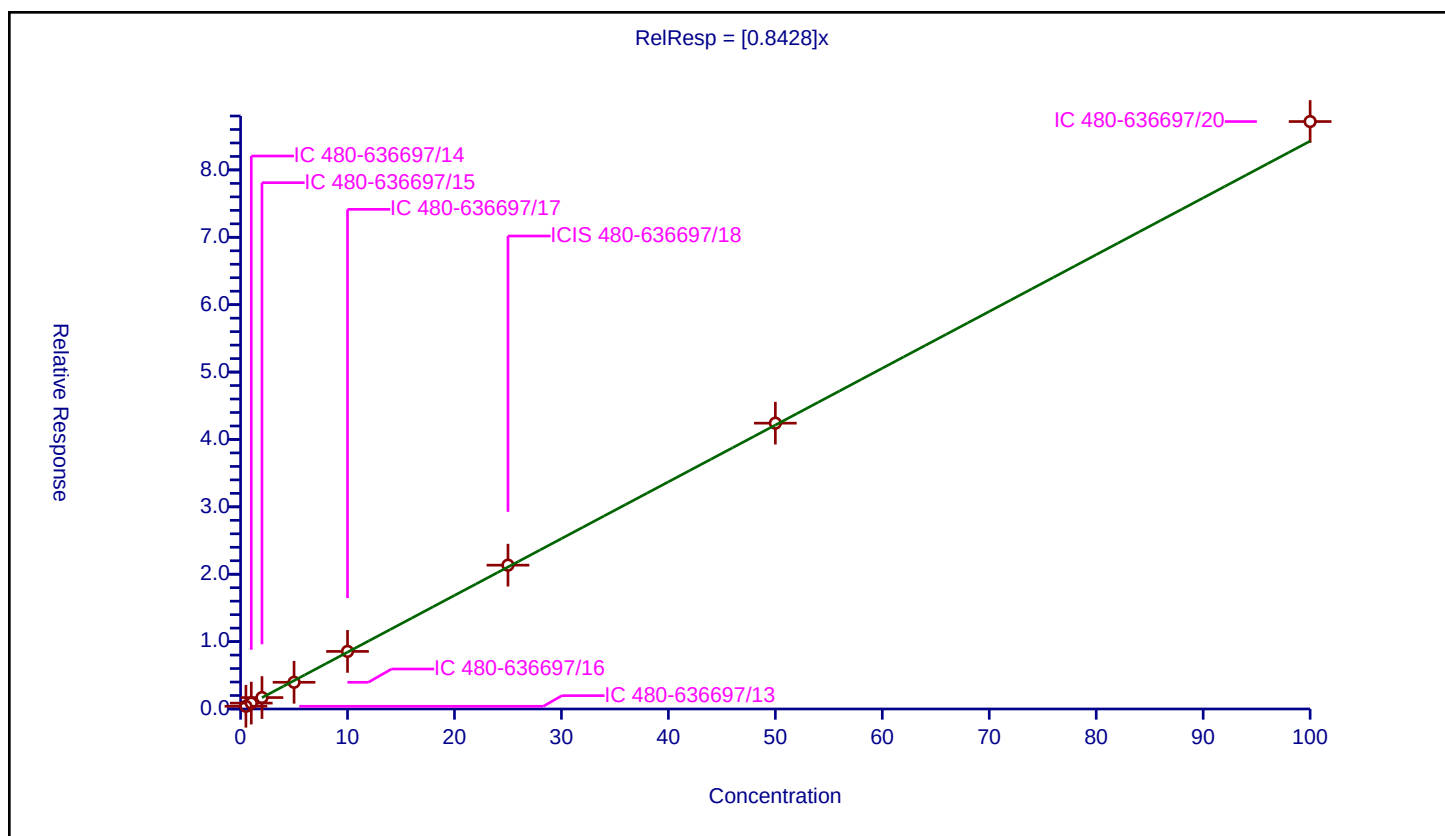
## Curve Coefficients

Intercept: 0  
 Slope: 0.8428

## Error Coefficients

Standard Error: 579000  
 Relative Standard Error: 3.6  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.399765   | 25.0      | 383225.0    | 0.79953  | Y    |
| 2  | IC 480-636697/14   | 1.0           | 0.873656   | 25.0      | 375205.0    | 0.873656 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 1.695604   | 25.0      | 379216.0    | 0.847802 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 3.961807   | 25.0      | 385853.0    | 0.792361 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 8.547857   | 25.0      | 371172.0    | 0.854786 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 21.344737  | 25.0      | 387455.0    | 0.853789 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 42.416319  | 25.0      | 384378.0    | 0.848326 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 87.179734  | 25.0      | 383822.0    | 0.871797 | Y    |



# Calibration

/ Chlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

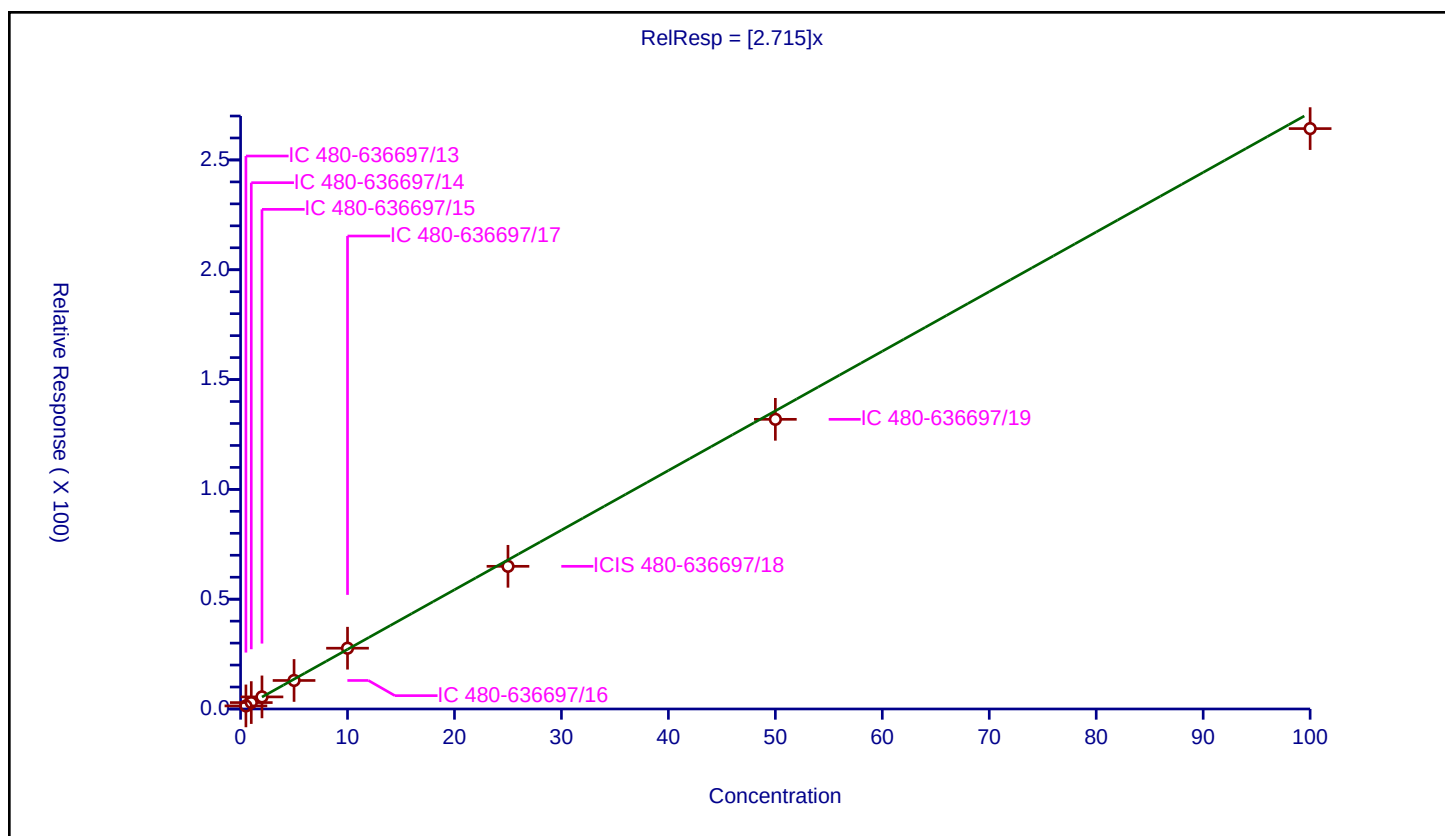
## Curve Coefficients

Intercept: 0  
 Slope: 2.715

## Error Coefficients

Standard Error: 1760000  
 Relative Standard Error: 4.2  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.397939   | 25.0      | 383225.0    | 2.795877 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.922336   | 25.0      | 375205.0    | 2.922336 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 5.51203    | 25.0      | 379216.0    | 2.756015 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 12.986617  | 25.0      | 385853.0    | 2.597323 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 27.672279  | 25.0      | 371172.0    | 2.767228 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 64.961996  | 25.0      | 387455.0    | 2.59848  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 131.889832 | 25.0      | 384378.0    | 2.637797 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 264.268789 | 25.0      | 383822.0    | 2.642688 | Y    |



## Calibration

/ 1,1,1,2-Tetrachloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

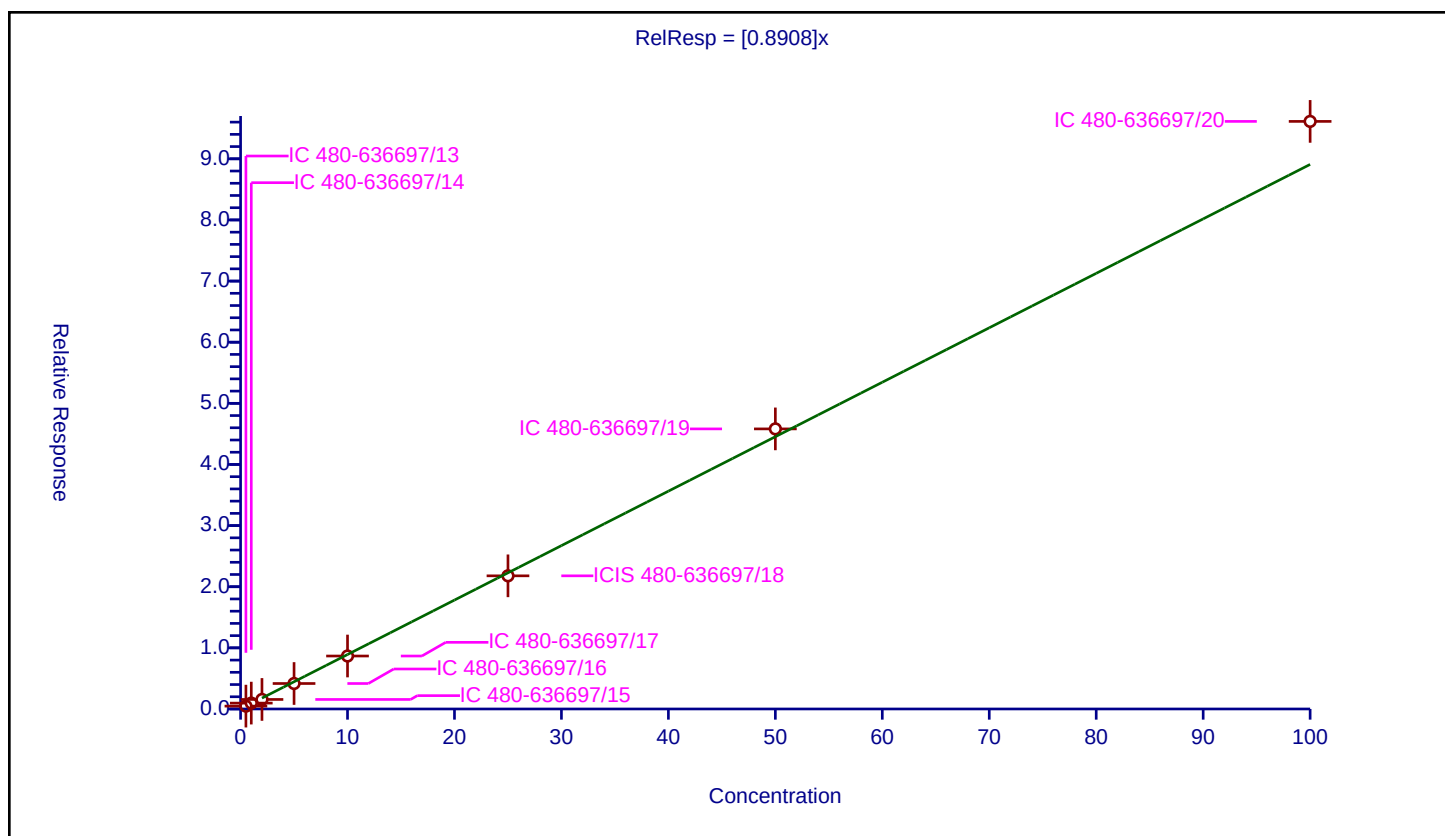
### Curve Coefficients

Intercept: 0  
 Slope: 0.8908

### Error Coefficients

Standard Error: 633000  
 Relative Standard Error: 7.3  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.468524   | 25.0      | 383225.0    | 0.937047 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 0.961008   | 25.0      | 375205.0    | 0.961008 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 1.55894    | 25.0      | 379216.0    | 0.77947  | Y    |
| 4  | IC 480-636697/16   | 5.0           | 4.166418   | 25.0      | 385853.0    | 0.833284 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 8.667343   | 25.0      | 371172.0    | 0.866734 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 21.783756  | 25.0      | 387455.0    | 0.87135  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 45.819675  | 25.0      | 384378.0    | 0.916393 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 96.118578  | 25.0      | 383822.0    | 0.961186 | Y    |



# Calibration

/ Ethylbenzene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

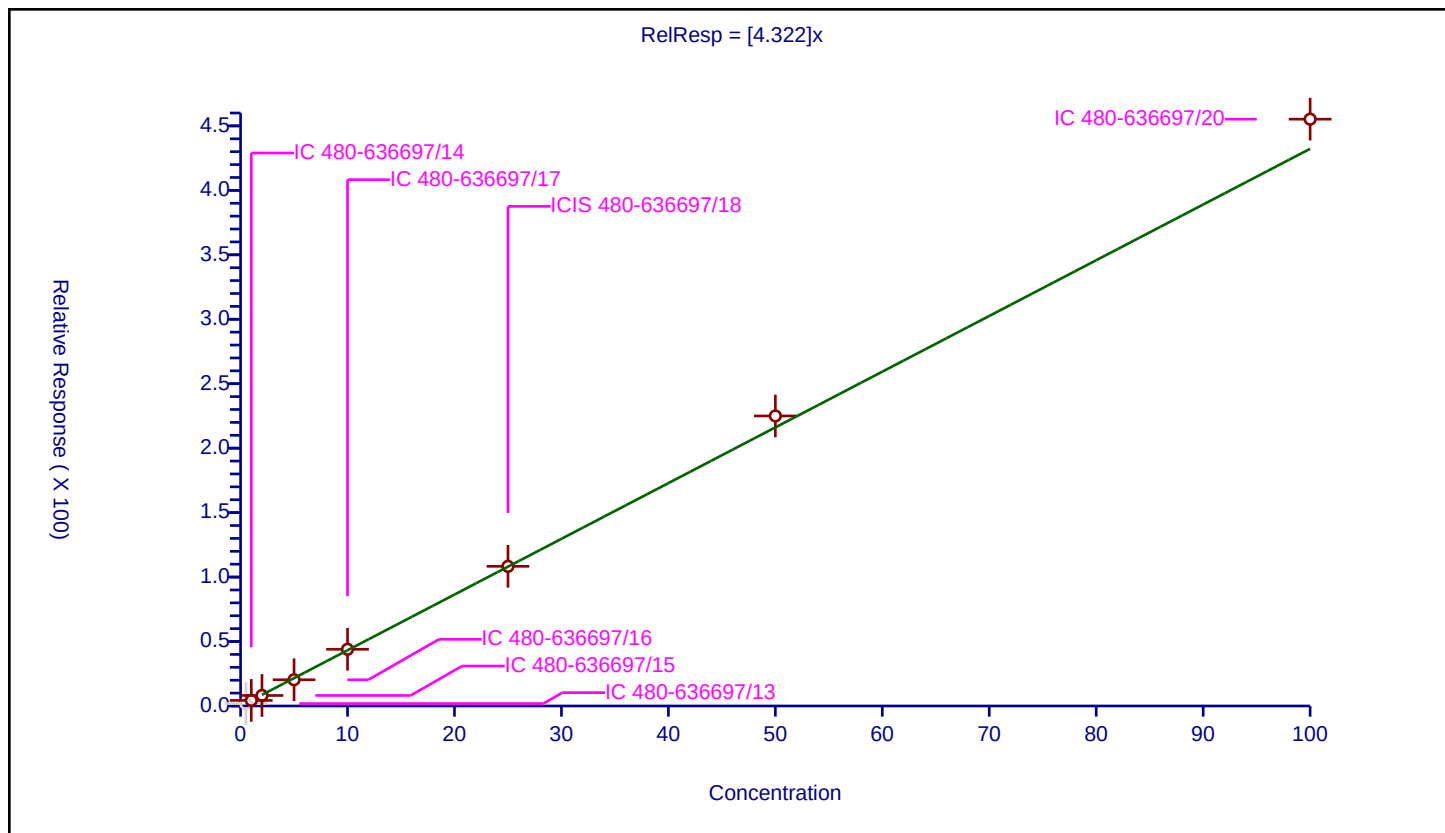
## Curve Coefficients

Intercept: 0  
Slope: 4.322

## Error Coefficients

Standard Error: 3270000  
Relative Standard Error: 4.4  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.879444   | 25.0      | 383225.0    | 3.758888 | N    |
| 2  | IC 480-636697/14   | 1.0           | 4.327101   | 25.0      | 375205.0    | 4.327101 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 8.151423   | 25.0      | 379216.0    | 4.075711 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 20.335788  | 25.0      | 385853.0    | 4.067158 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 43.997123  | 25.0      | 371172.0    | 4.399712 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 108.354067 | 25.0      | 387455.0    | 4.334163 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 225.00813  | 25.0      | 384378.0    | 4.500163 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 455.21609  | 25.0      | 383822.0    | 4.552161 | Y    |



# Calibration

/ m-Xylene & p-Xylene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

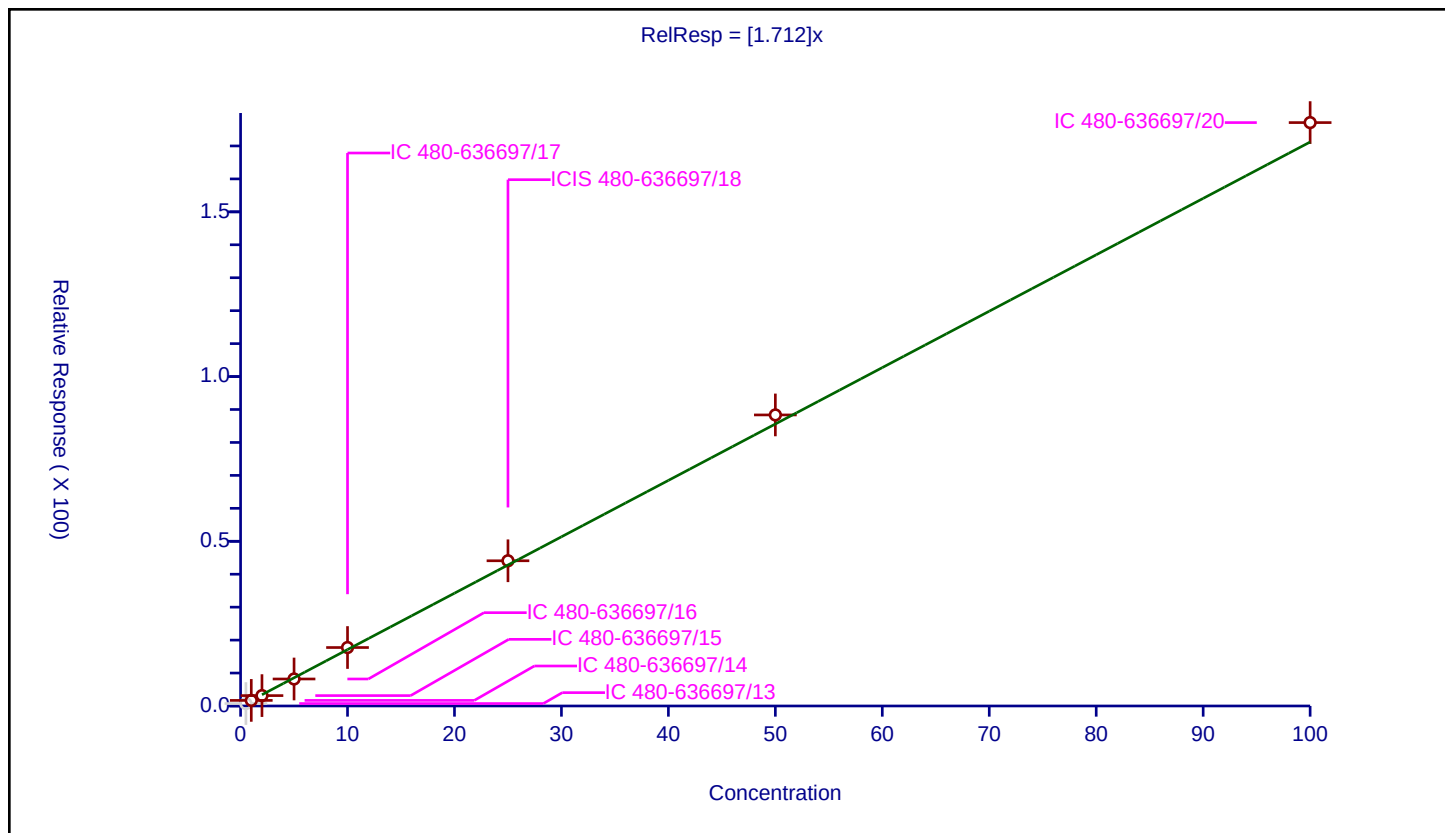
## Curve Coefficients

Intercept: 0  
 Slope: 1.712

## Error Coefficients

Standard Error: 1280000  
 Relative Standard Error: 4.6  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.744341   | 25.0      | 383225.0    | 1.488682 | N    |
| 2  | IC 480-636697/14   | 1.0           | 1.691742   | 25.0      | 375205.0    | 1.691742 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 3.15526    | 25.0      | 379216.0    | 1.57763  | Y    |
| 4  | IC 480-636697/16   | 5.0           | 8.19645    | 25.0      | 385853.0    | 1.63929  | Y    |
| 5  | IC 480-636697/17   | 10.0          | 17.745008  | 25.0      | 371172.0    | 1.774501 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 44.077119  | 25.0      | 387455.0    | 1.763085 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 88.351441  | 25.0      | 384378.0    | 1.767029 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 177.093353 | 25.0      | 383822.0    | 1.770934 | Y    |



# Calibration

/ o-Xylene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

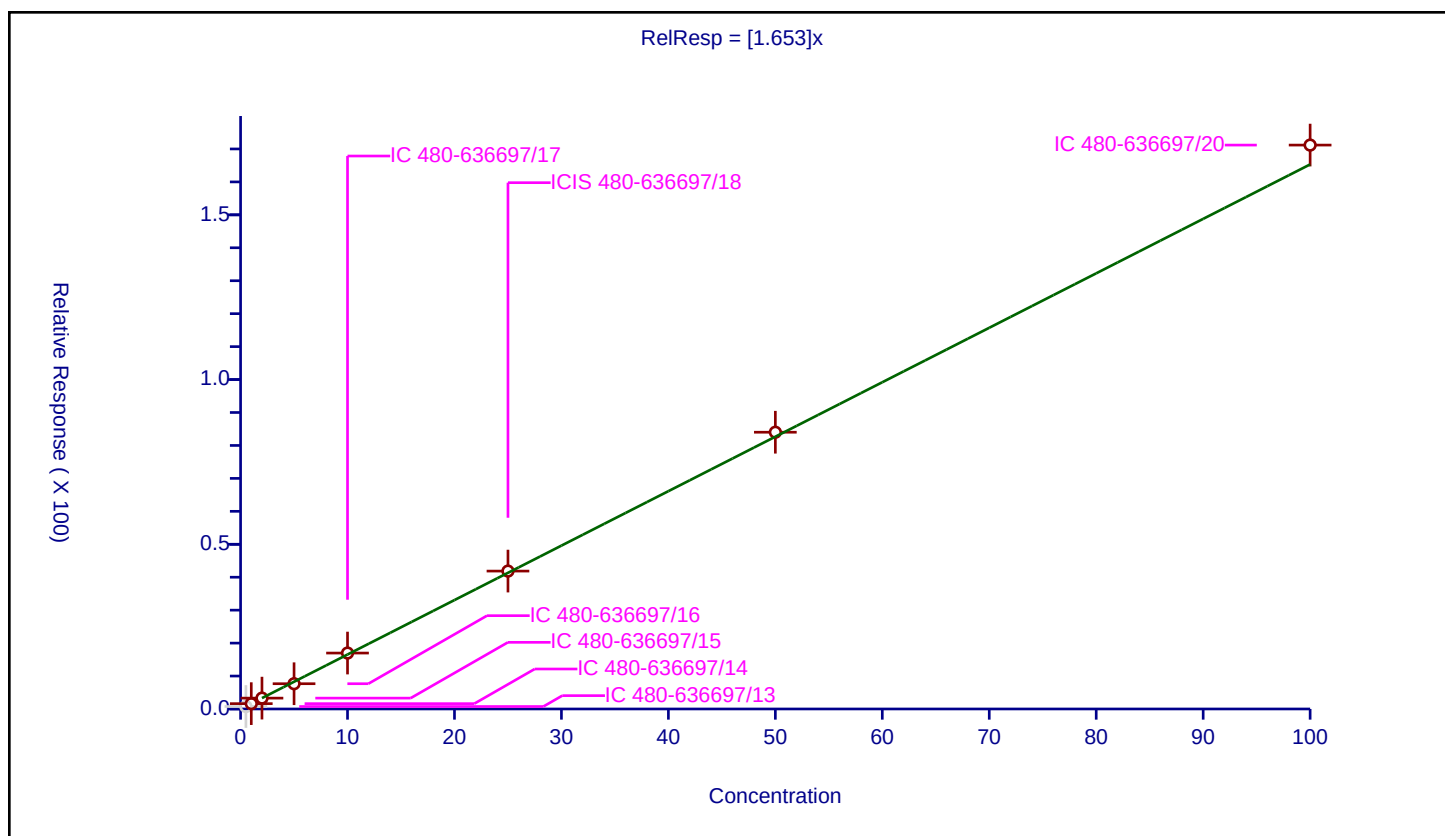
## Curve Coefficients

Intercept: 0  
Slope: 1.653

## Error Coefficients

Standard Error: 1230000  
Relative Standard Error: 3.6  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.750016   | 25.0      | 383225.0    | 1.500033 | N    |
| 2  | IC 480-636697/14   | 1.0           | 1.623512   | 25.0      | 375205.0    | 1.623512 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 3.297857   | 25.0      | 379216.0    | 1.648928 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 7.671769   | 25.0      | 385853.0    | 1.534354 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 16.979998  | 25.0      | 371172.0    | 1.698    | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 41.862474  | 25.0      | 387455.0    | 1.674499 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 84.013848  | 25.0      | 384378.0    | 1.680277 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 171.179414 | 25.0      | 383822.0    | 1.711794 | Y    |



# Calibration

/ Styrene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

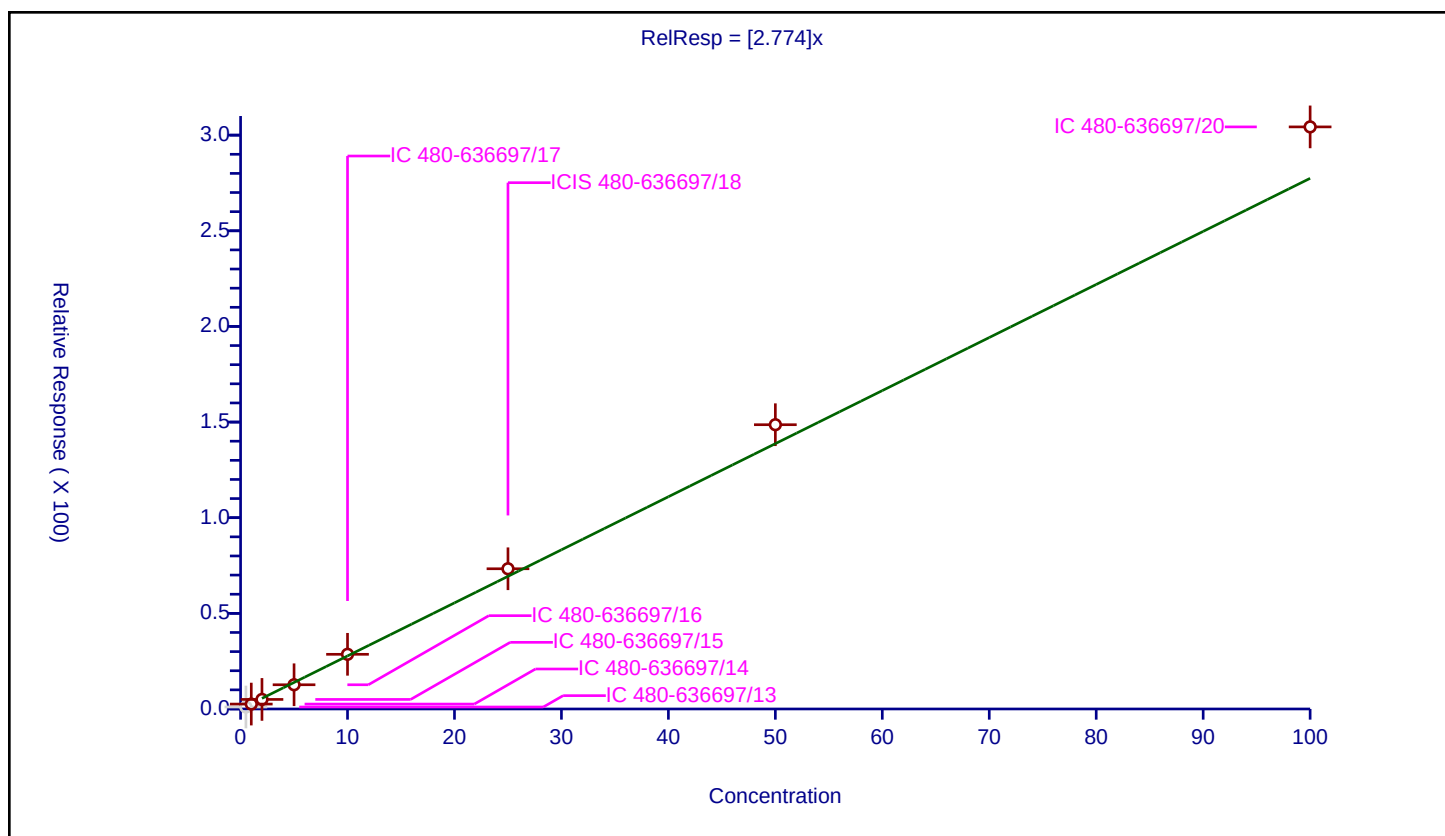
## Curve Coefficients

Intercept: 0  
 Slope: 2.774

## Error Coefficients

Standard Error: 2180000  
 Relative Standard Error: 8.3  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.991

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.034184   | 25.0      | 383225.0    | 2.068367 | N    |
| 2  | IC 480-636697/14   | 1.0           | 2.578724   | 25.0      | 375205.0    | 2.578724 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 4.998471   | 25.0      | 379216.0    | 2.499235 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 12.672248  | 25.0      | 385853.0    | 2.53445  | Y    |
| 5  | IC 480-636697/17   | 10.0          | 28.58971   | 25.0      | 371172.0    | 2.858971 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 73.31432   | 25.0      | 387455.0    | 2.932573 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 148.617767 | 25.0      | 384378.0    | 2.972355 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 304.305121 | 25.0      | 383822.0    | 3.043051 | Y    |



# Calibration

/ Bromoform

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

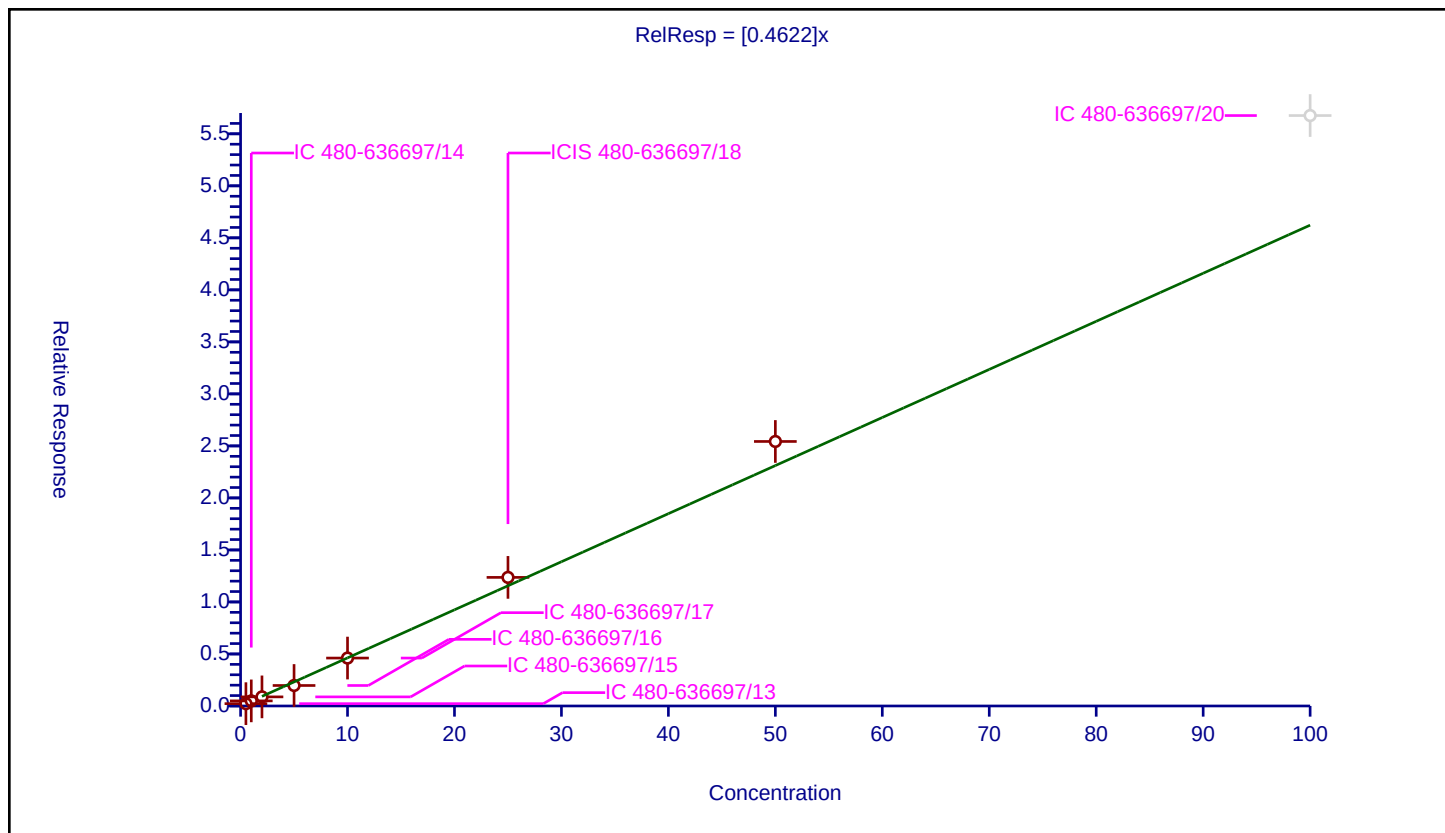
## Curve Coefficients

Intercept: 0  
 Slope: 0.4622

## Error Coefficients

Standard Error: 180000  
 Relative Standard Error: 8.6  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.990

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.224542   | 25.0      | 383225.0    | 0.449083 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 0.490998   | 25.0      | 375205.0    | 0.490998 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 0.875161   | 25.0      | 379216.0    | 0.43758  | Y    |
| 4  | IC 480-636697/16   | 5.0           | 1.969144   | 25.0      | 385853.0    | 0.393829 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 4.608645   | 25.0      | 371172.0    | 0.460865 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 12.361048  | 25.0      | 387455.0    | 0.494442 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 25.426533  | 25.0      | 384378.0    | 0.508531 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 56.756127  | 25.0      | 383822.0    | 0.567561 | N    |





# Calibration

/ Isopropylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

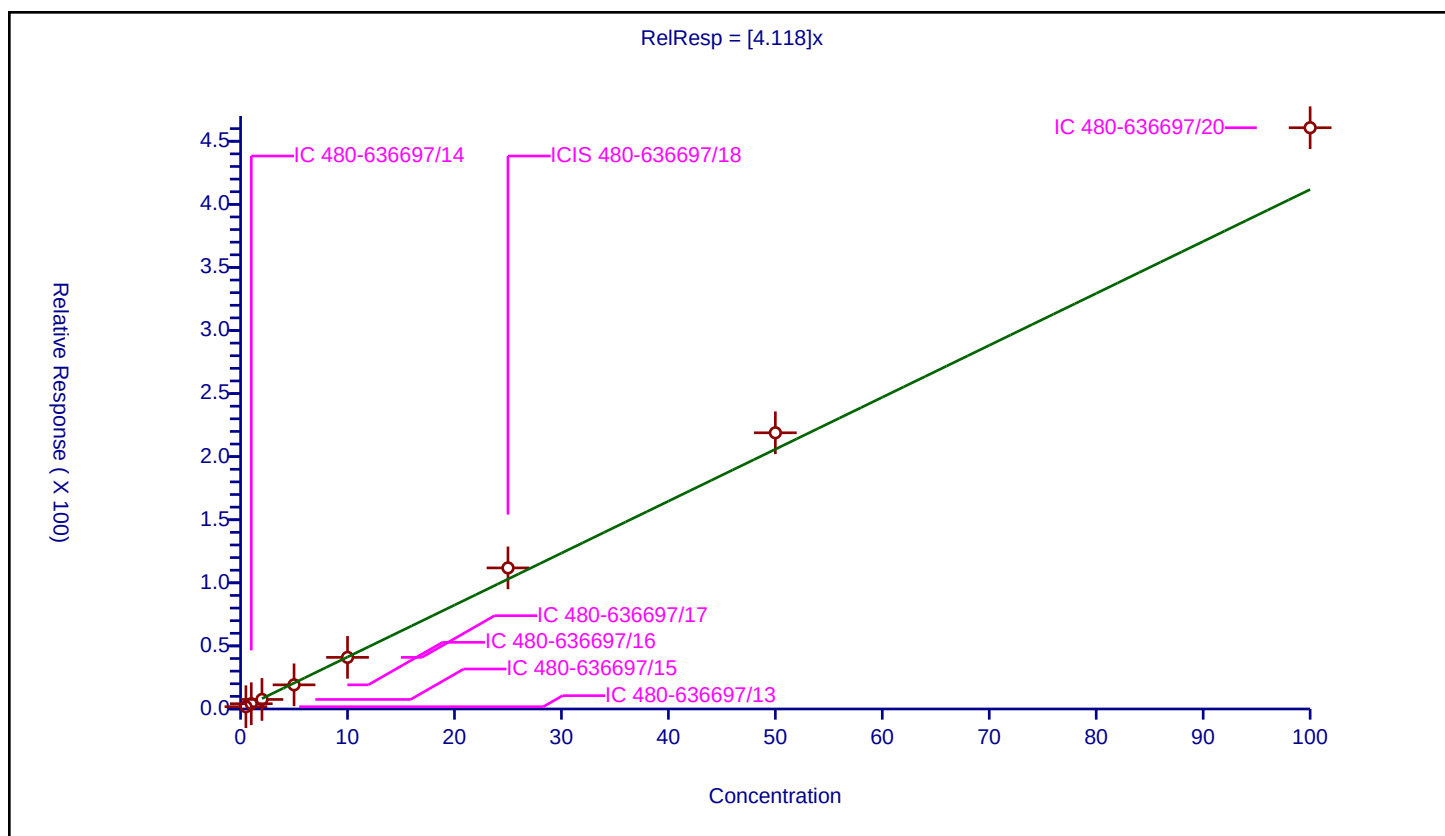
## Curve Coefficients

Intercept: 0  
 Slope: 4.118

## Error Coefficients

Standard Error: 3160000  
 Relative Standard Error: 8.6  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.991

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.80896    | 25.0      | 384862.0    | 3.61792  | Y    |
| 2  | IC 480-636697/14   | 1.0           | 4.16478    | 25.0      | 390813.0    | 4.16478  | Y    |
| 3  | IC 480-636697/15   | 2.0           | 7.561347   | 25.0      | 399370.0    | 3.780673 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 19.139032  | 25.0      | 410747.0    | 3.827806 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 40.910547  | 25.0      | 416766.0    | 4.091055 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 111.815087 | 25.0      | 394904.0    | 4.472603 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 218.926148 | 25.0      | 409493.0    | 4.378523 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 460.727837 | 25.0      | 395590.0    | 4.607278 | Y    |



# Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

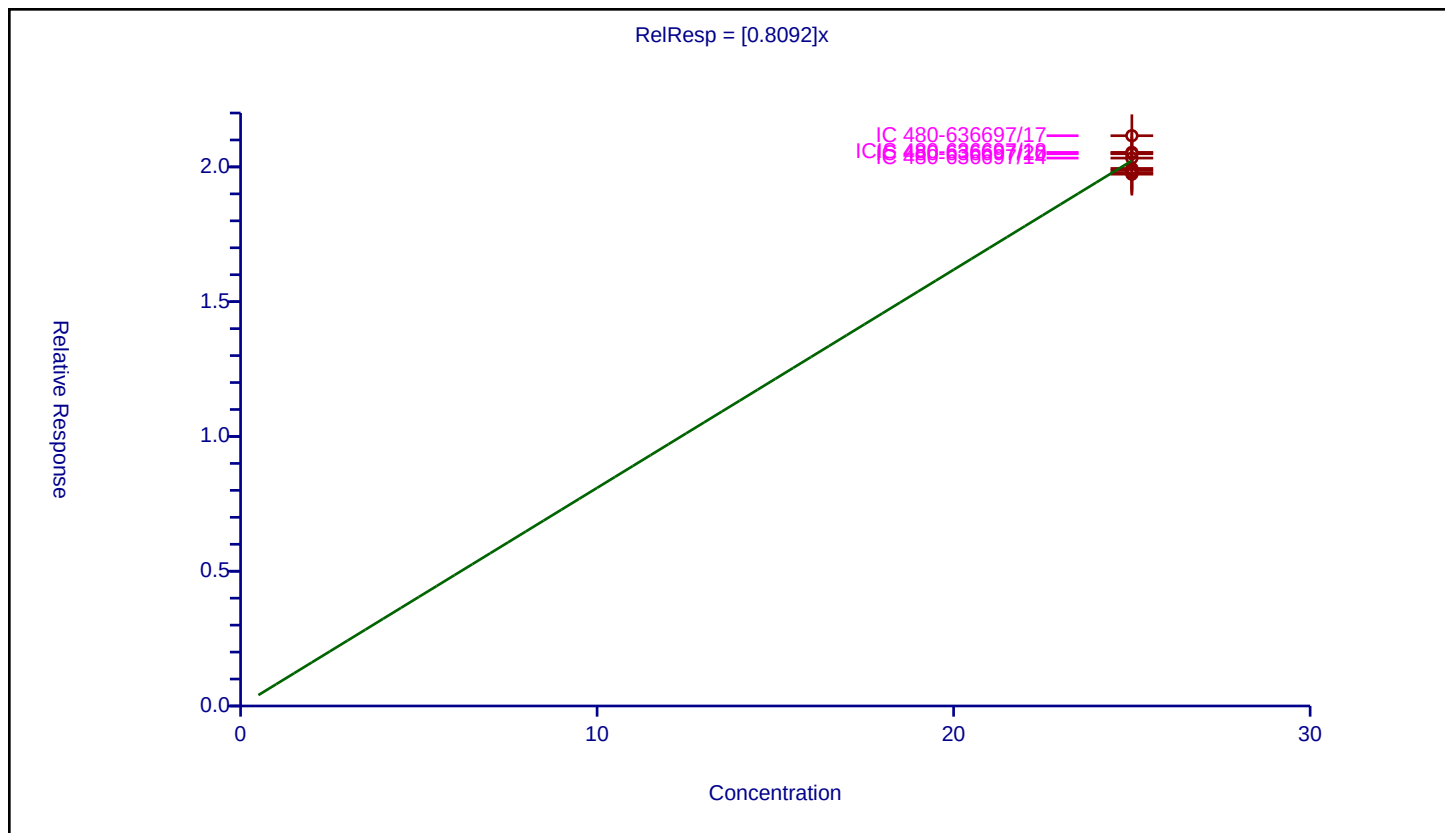
## Curve Coefficients

Intercept: 0  
 Slope: 0.8092

## Error Coefficients

Standard Error: 330000  
 Relative Standard Error: 2.4  
 Correlation Coefficient: NA  
 Coefficient of Determination (Adjusted): 0

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 25.0          | 19.729989  | 25.0      | 383225.0    | 0.7892   | Y    |
| 2  | IC 480-636697/14   | 25.0          | 20.327488  | 25.0      | 375205.0    | 0.8131   | Y    |
| 3  | IC 480-636697/15   | 25.0          | 19.872711  | 25.0      | 379216.0    | 0.794908 | Y    |
| 4  | IC 480-636697/16   | 25.0          | 19.943929  | 25.0      | 385853.0    | 0.797757 | Y    |
| 5  | IC 480-636697/17   | 25.0          | 21.157779  | 25.0      | 371172.0    | 0.846311 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 20.539482  | 25.0      | 387455.0    | 0.821579 | Y    |
| 7  | IC 480-636697/19   | 25.0          | 19.786252  | 25.0      | 384378.0    | 0.79145  | Y    |
| 8  | IC 480-636697/20   | 25.0          | 20.487752  | 25.0      | 383822.0    | 0.81951  | Y    |



# Calibration

/ Bromobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

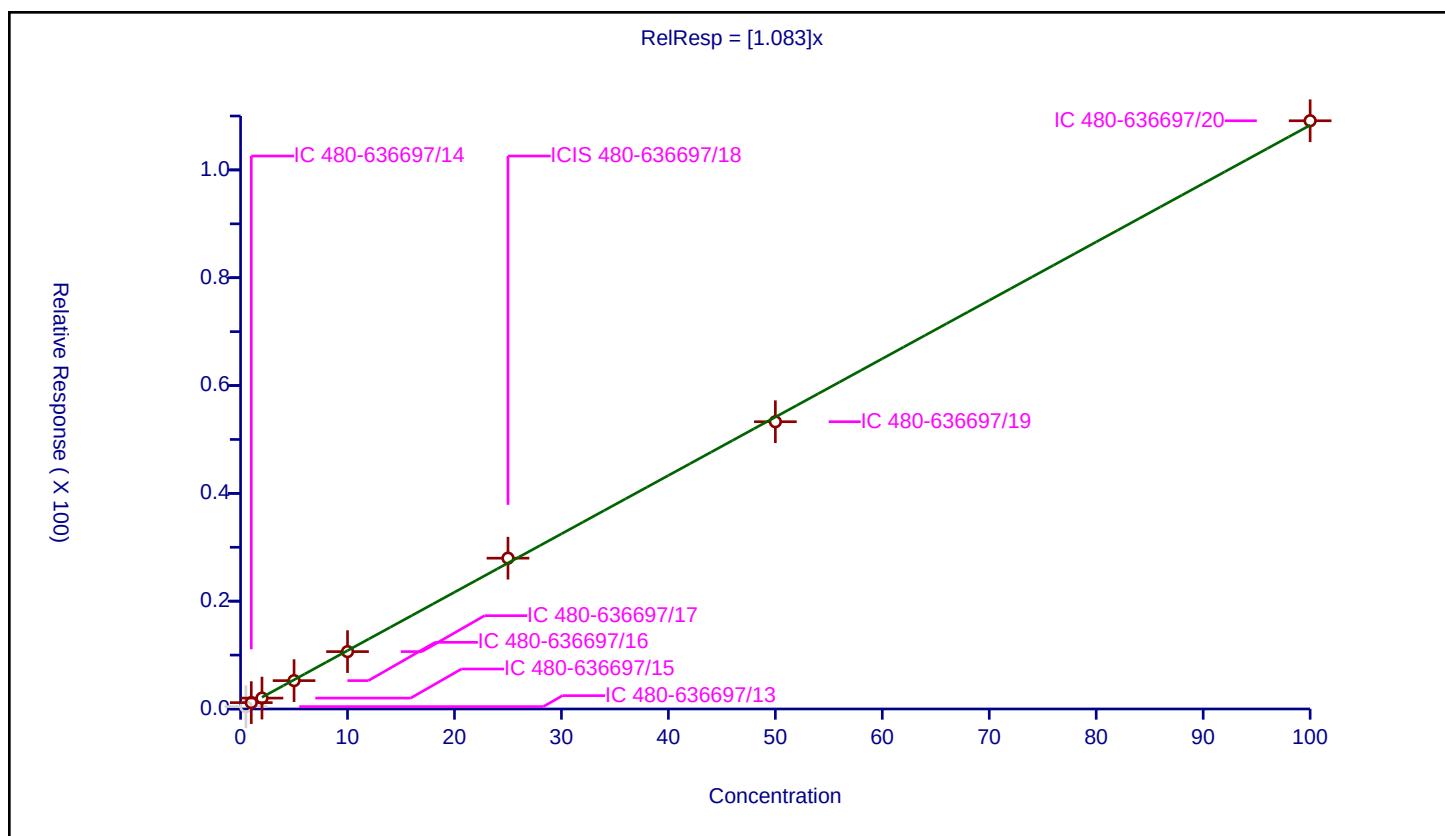
## Curve Coefficients

Intercept: 0  
 Slope: 1.083

## Error Coefficients

Standard Error: 814000  
 Relative Standard Error: 5.0  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.440418   | 25.0      | 384862.0    | 0.880835 | N    |
| 2  | IC 480-636697/14   | 1.0           | 1.178249   | 25.0      | 390813.0    | 1.178249 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.020432   | 25.0      | 399370.0    | 1.010216 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 5.259746   | 25.0      | 410747.0    | 1.051949 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 10.644522  | 25.0      | 416766.0    | 1.064452 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 27.977243  | 25.0      | 394904.0    | 1.11909  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 53.287114  | 25.0      | 409493.0    | 1.065742 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 109.118658 | 25.0      | 395590.0    | 1.091187 | Y    |



# Calibration

/ 1,1,2,2-Tetrachloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

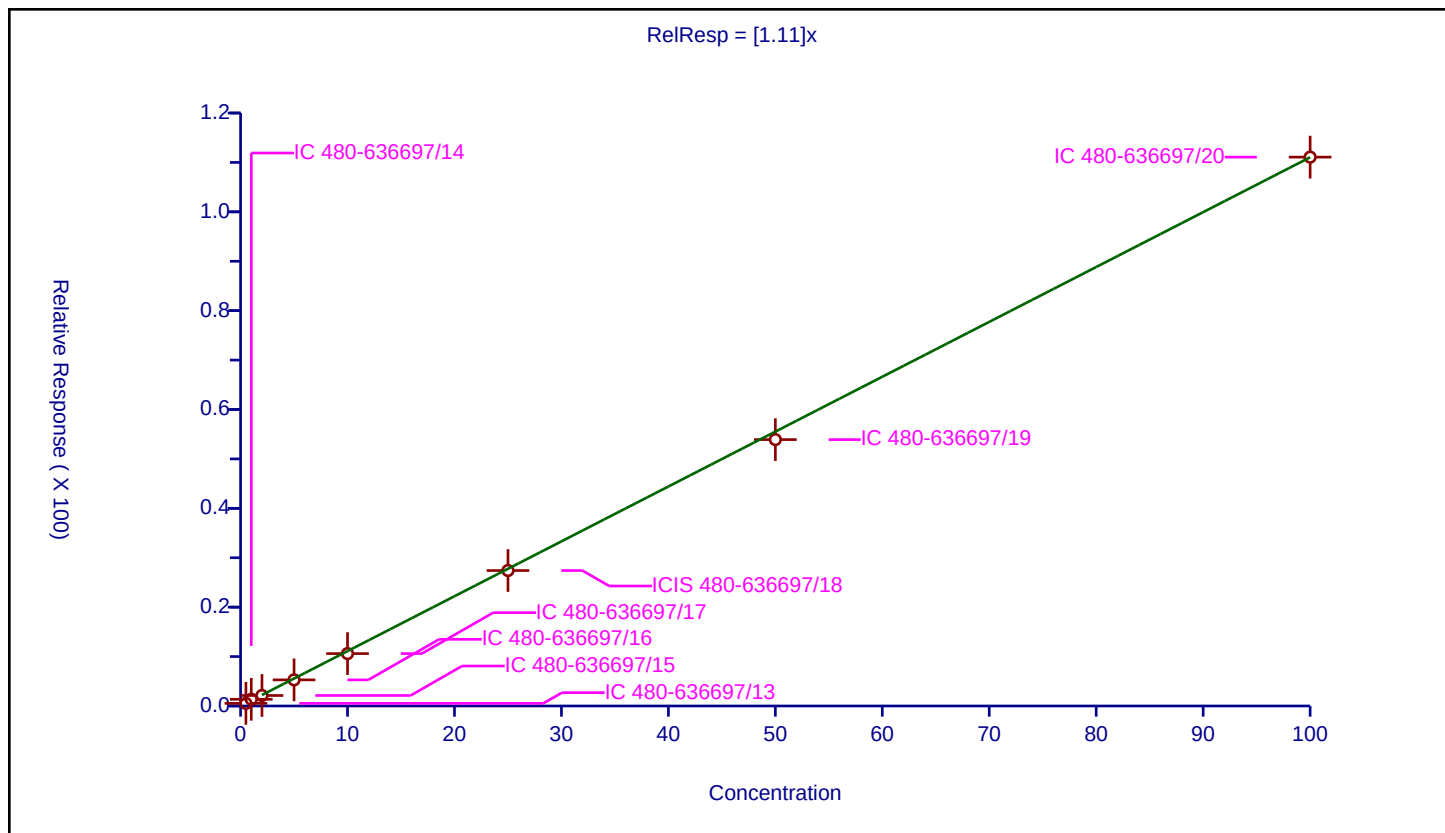
## Curve Coefficients

Intercept: 0  
 Slope: 1.11

## Error Coefficients

Standard Error: 765000  
 Relative Standard Error: 9.1  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.989

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.531099   | 25.0      | 384862.0    | 1.062199 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.35506    | 25.0      | 390813.0    | 1.35506  | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.126036   | 25.0      | 399370.0    | 1.063018 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 5.287501   | 25.0      | 410747.0    | 1.0575   | Y    |
| 5  | IC 480-636697/17   | 10.0          | 10.602772  | 25.0      | 416766.0    | 1.060277 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 27.410649  | 25.0      | 394904.0    | 1.096426 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 53.906721  | 25.0      | 409493.0    | 1.078134 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 111.071754 | 25.0      | 395590.0    | 1.110718 | Y    |



# Calibration

/ N-Propylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

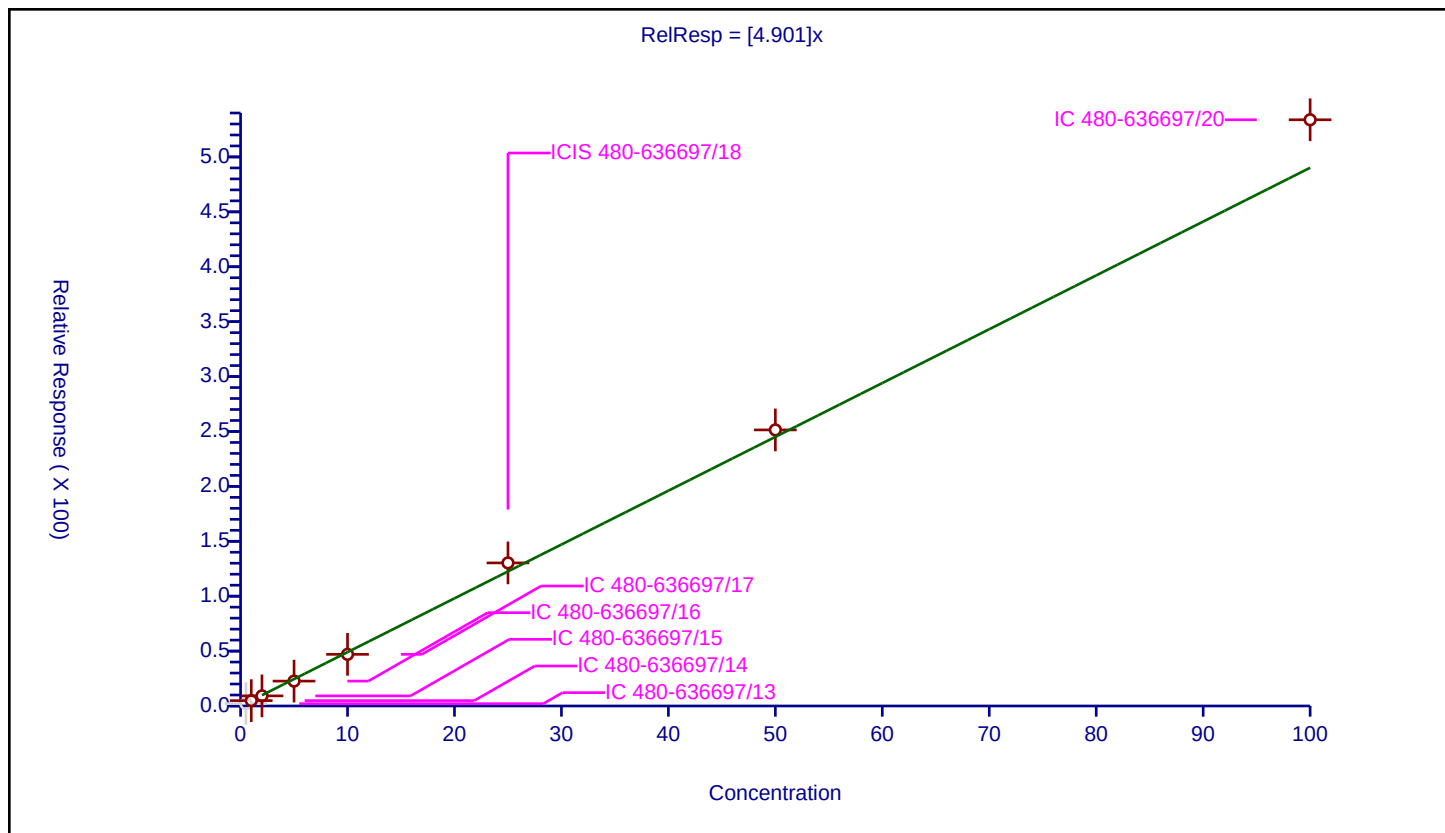
## Curve Coefficients

Intercept: 0  
 Slope: 4.901

## Error Coefficients

Standard Error: 3940000  
 Relative Standard Error: 6.3  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 2.10543    | 25.0      | 384862.0    | 4.21086  | N    |
| 2  | IC 480-636697/14   | 1.0           | 4.886352   | 25.0      | 390813.0    | 4.886352 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 9.216453   | 25.0      | 399370.0    | 4.608227 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 22.671377  | 25.0      | 410747.0    | 4.534275 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 47.02273   | 25.0      | 416766.0    | 4.702273 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 130.293565 | 25.0      | 394904.0    | 5.211743 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 251.407594 | 25.0      | 409493.0    | 5.028152 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 533.844321 | 25.0      | 395590.0    | 5.338443 | Y    |



# Calibration

/ 1,2,3-Trichloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

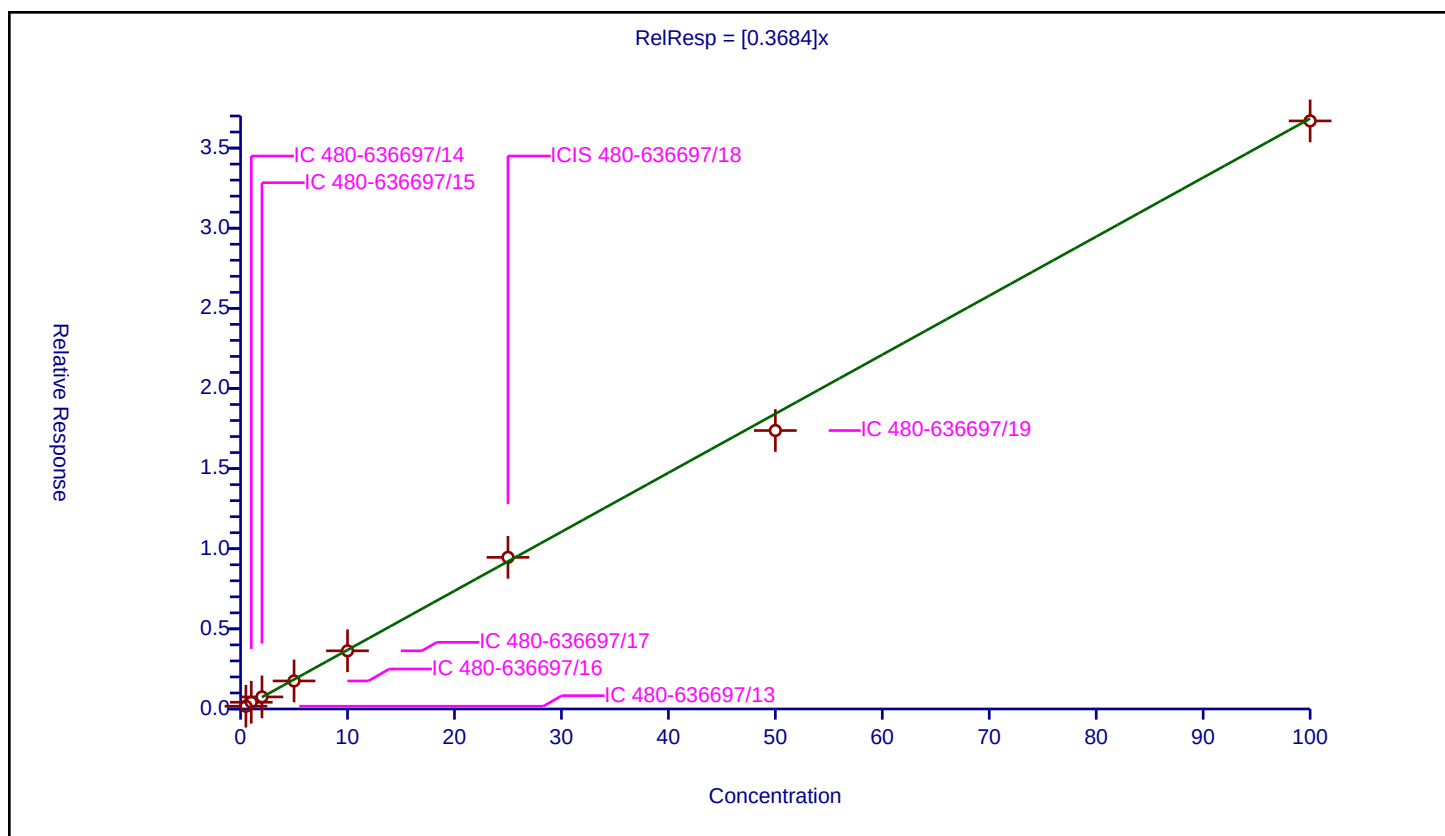
## Curve Coefficients

Intercept: 0  
 Slope: 0.3684

## Error Coefficients

Standard Error: 252000  
 Relative Standard Error: 6.7  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.17201    | 25.0      | 384862.0    | 0.344019 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 0.420598   | 25.0      | 390813.0    | 0.420598 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 0.753499   | 25.0      | 399370.0    | 0.37675  | Y    |
| 4  | IC 480-636697/16   | 5.0           | 1.750287   | 25.0      | 410747.0    | 0.350057 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 3.629495   | 25.0      | 416766.0    | 0.362949 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 9.462046   | 25.0      | 394904.0    | 0.378482 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 17.376365  | 25.0      | 409493.0    | 0.347527 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 36.69342   | 25.0      | 395590.0    | 0.366934 | Y    |



## Calibration

/ trans-1,4-Dichloro-2-butene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

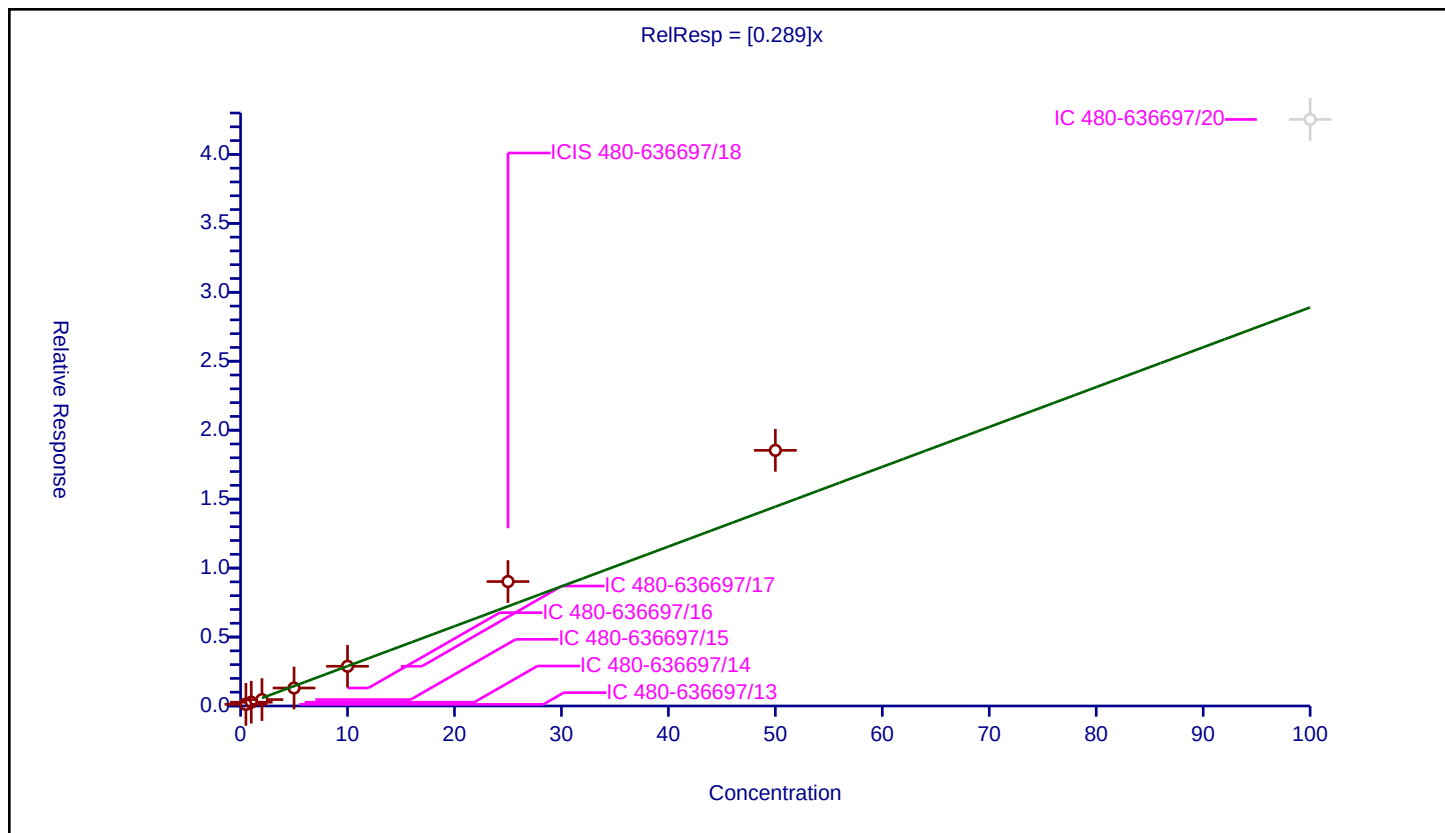
## Curve Coefficients

Intercept: 0  
Slope: 0.289

## Error Coefficients

Standard Error: 139000  
Relative Standard Error: 19.4  
Correlation Coefficient: 0.998  
Coefficient of Determination (Adjusted): 0.956

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.117769   | 25.0      | 384862.0    | 0.235539 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 0.274492   | 25.0      | 390813.0    | 0.274492 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 0.464857   | 25.0      | 399370.0    | 0.232429 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 1.304757   | 25.0      | 410747.0    | 0.260951 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 2.880933   | 25.0      | 416766.0    | 0.288093 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 9.023775   | 25.0      | 394904.0    | 0.360951 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 18.537802  | 25.0      | 409493.0    | 0.370756 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 42.533241  | 25.0      | 395590.0    | 0.425332 | N    |



## Calibration

## / 2-Chlorotoluene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

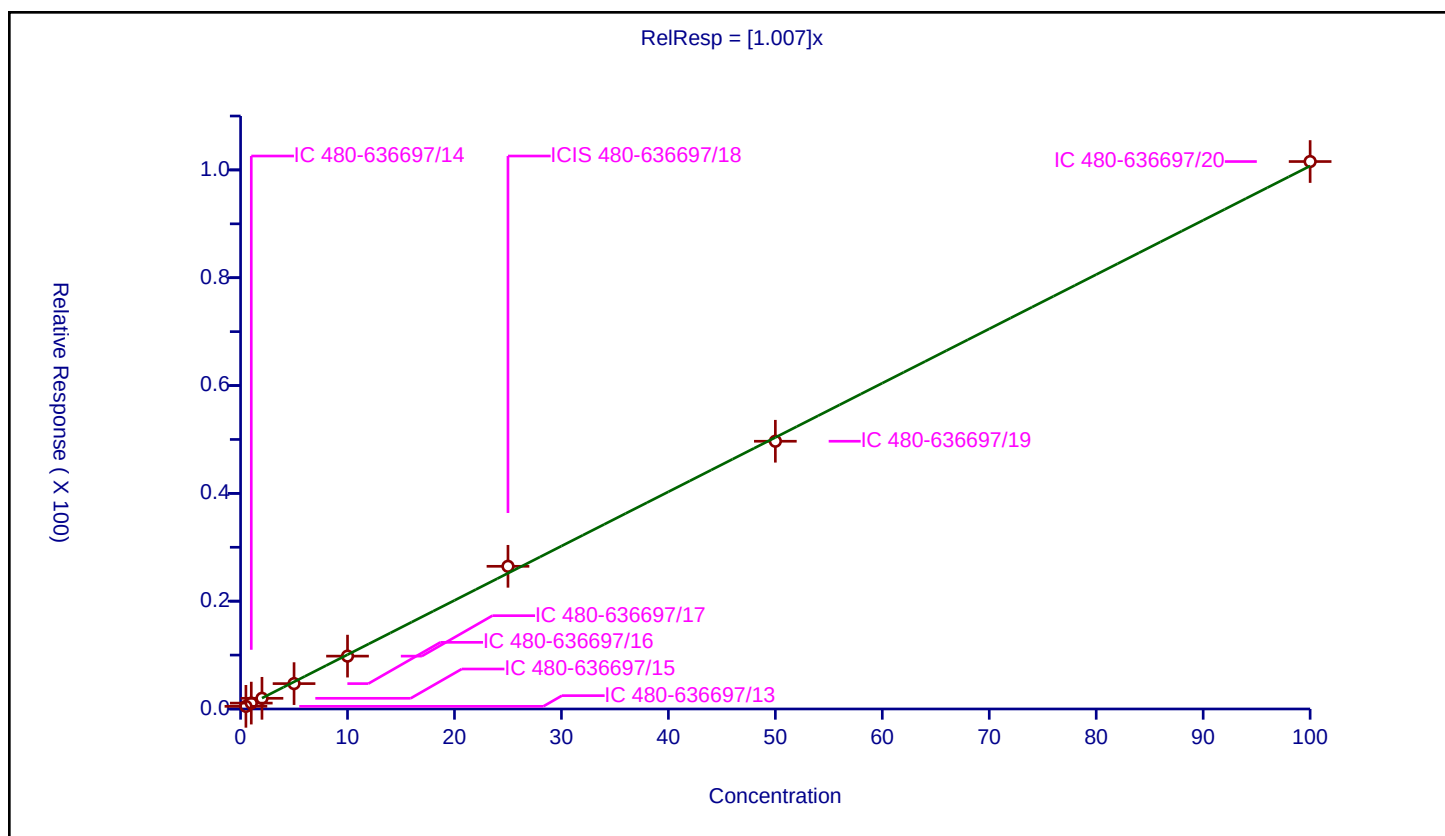
## Curve Coefficients

Intercept: 0  
Slope: 1.007

## Error Coefficients

Standard Error: 702000  
Relative Standard Error: 4.7  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.492579   | 25.0      | 384862.0    | 0.985158 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.092722   | 25.0      | 390813.0    | 1.092722 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 1.98256    | 25.0      | 399370.0    | 0.99128  | Y    |
| 4  | IC 480-636697/16   | 5.0           | 4.706608   | 25.0      | 410747.0    | 0.941322 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 9.808082   | 25.0      | 416766.0    | 0.980808 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 26.467762  | 25.0      | 394904.0    | 1.05871  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 49.669286  | 25.0      | 409493.0    | 0.993386 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 101.557484 | 25.0      | 395590.0    | 1.015575 | Y    |





# Calibration

/ 1,3,5-Trimethylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

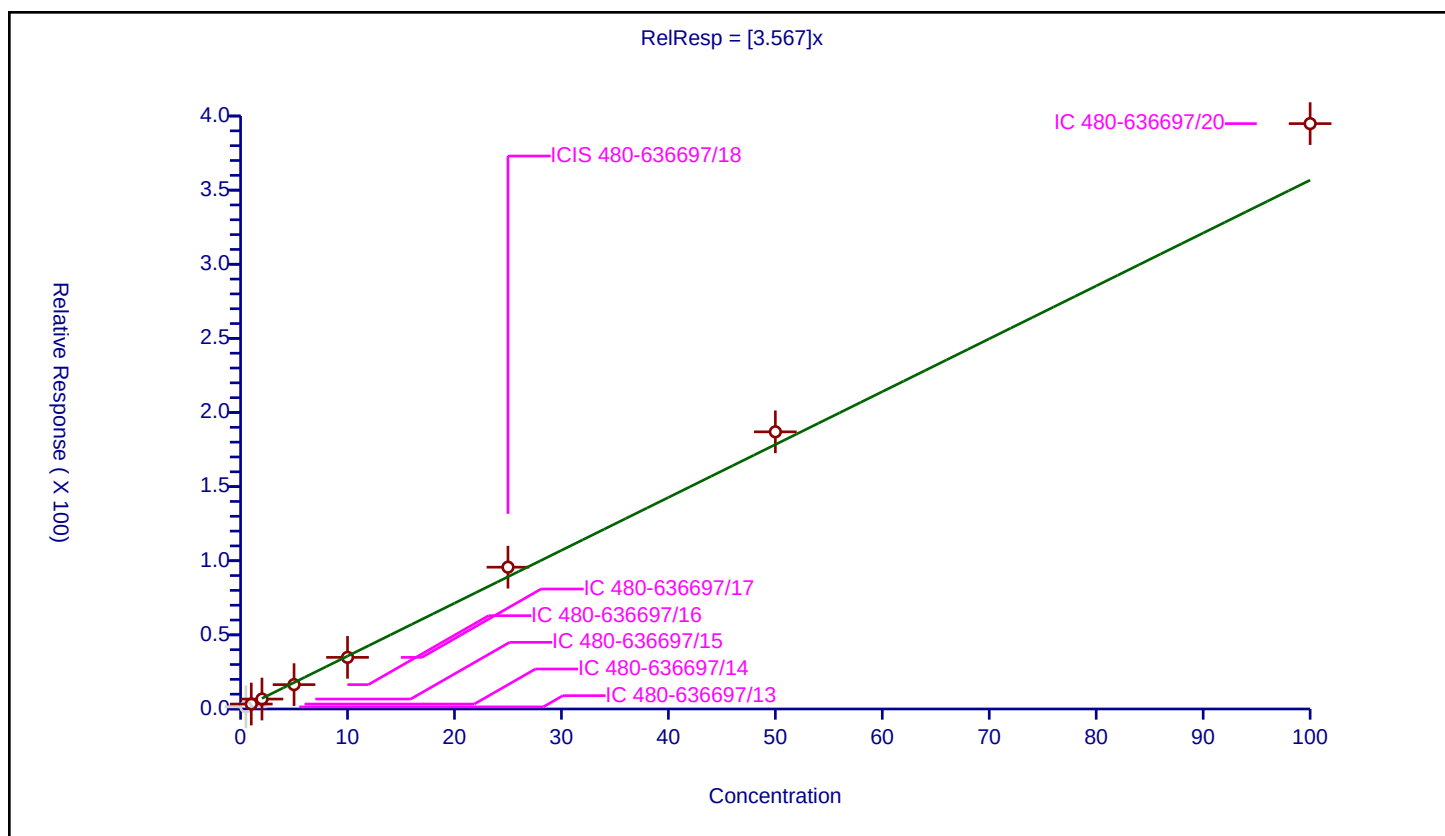
## Curve Coefficients

Intercept: 0  
 Slope: 3.567

## Error Coefficients

Standard Error: 2920000  
 Relative Standard Error: 7.5  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.43467    | 25.0      | 384862.0    | 2.86934  | N    |
| 2  | IC 480-636697/14   | 1.0           | 3.343095   | 25.0      | 390813.0    | 3.343095 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 6.692603   | 25.0      | 399370.0    | 3.346302 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 16.433839  | 25.0      | 410747.0    | 3.286768 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 34.820499  | 25.0      | 416766.0    | 3.48205  | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 95.654703  | 25.0      | 394904.0    | 3.826188 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 186.955149 | 25.0      | 409493.0    | 3.739103 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 394.876703 | 25.0      | 395590.0    | 3.948767 | Y    |



# Calibration

/ 4-Chlorotoluene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

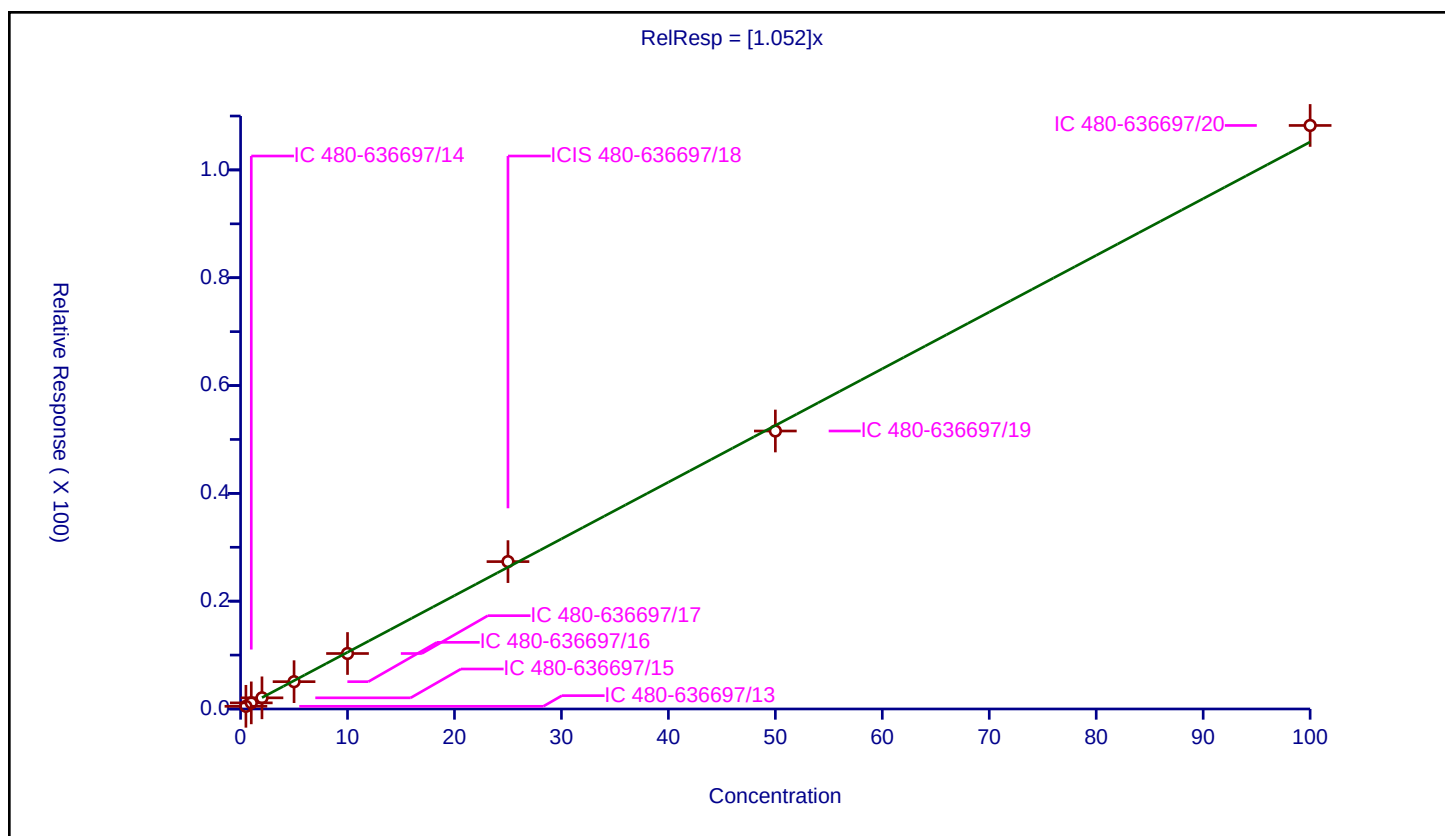
## Curve Coefficients

Intercept: 0  
 Slope: 1.052

## Error Coefficients

Standard Error: 744000  
 Relative Standard Error: 4.4  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.498166   | 25.0      | 384862.0    | 0.996331 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.13347    | 25.0      | 390813.0    | 1.13347  | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.070386   | 25.0      | 399370.0    | 1.035193 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 5.065527   | 25.0      | 410747.0    | 1.013105 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 10.292706  | 25.0      | 416766.0    | 1.029271 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 27.338923  | 25.0      | 394904.0    | 1.093557 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 51.570295  | 25.0      | 409493.0    | 1.031406 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 108.250272 | 25.0      | 395590.0    | 1.082503 | Y    |



## Calibration

/ tert-Butylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

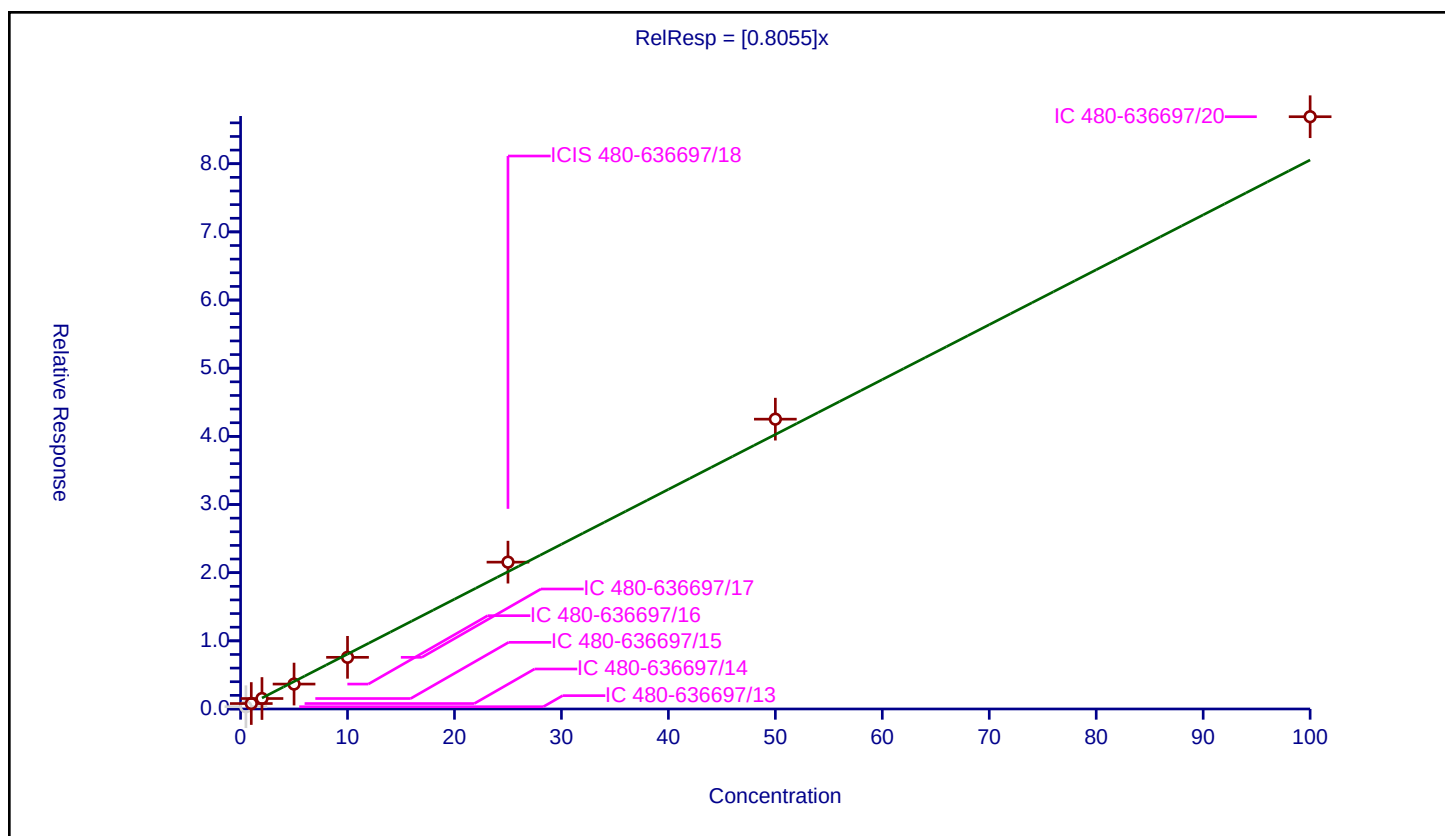
### Curve Coefficients

Intercept: 0  
 Slope: 0.8055

### Error Coefficients

Standard Error: 647000  
 Relative Standard Error: 6.9  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.333431   | 25.0      | 384862.0    | 0.666862 | N    |
| 2  | IC 480-636697/14   | 1.0           | 0.800319   | 25.0      | 390813.0    | 0.800319 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 1.535731   | 25.0      | 399370.0    | 0.767866 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 3.6545     | 25.0      | 410747.0    | 0.7309   | Y    |
| 5  | IC 480-636697/17   | 10.0          | 7.580873   | 25.0      | 416766.0    | 0.758087 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 21.54549   | 25.0      | 394904.0    | 0.86182  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 42.524048  | 25.0      | 409493.0    | 0.850481 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 86.897103  | 25.0      | 395590.0    | 0.868971 | Y    |



## Calibration

/ 1,2,4-Trimethylbenzene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

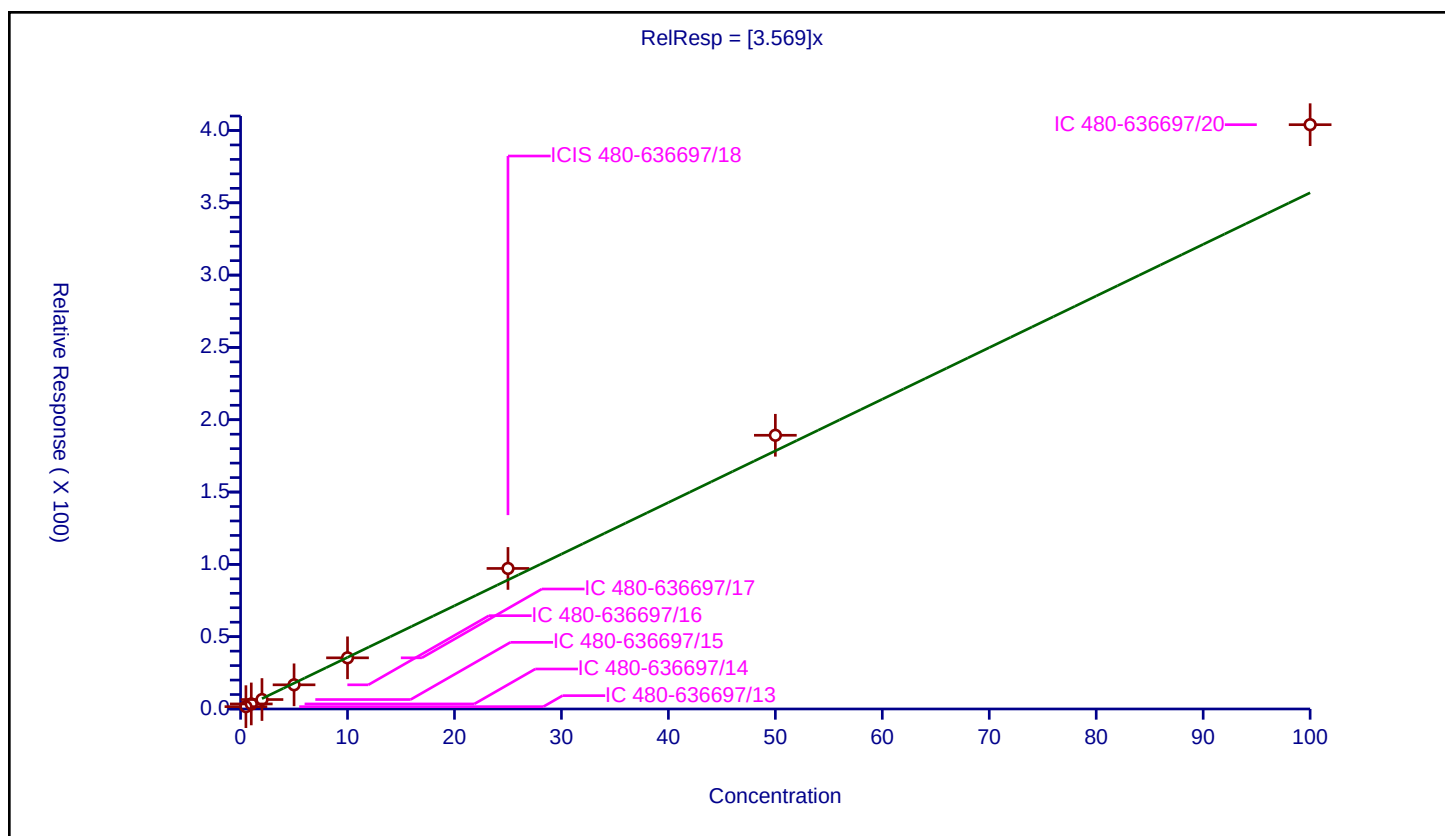
## Curve Coefficients

Intercept: 0  
Slope: 3.569

## Error Coefficients

Standard Error: 2760000  
Relative Standard Error: 8.5  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.991

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.60616    | 25.0      | 384862.0    | 3.21232  | Y    |
| 2  | IC 480-636697/14   | 1.0           | 3.486066   | 25.0      | 390813.0    | 3.486066 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 6.527406   | 25.0      | 399370.0    | 3.263703 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 16.718625  | 25.0      | 410747.0    | 3.343725 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 35.373807  | 25.0      | 416766.0    | 3.537381 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 97.178998  | 25.0      | 394904.0    | 3.88716  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 189.250244 | 25.0      | 409493.0    | 3.785005 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 404.006547 | 25.0      | 395590.0    | 4.040065 | Y    |



# Calibration

/ sec-Butylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

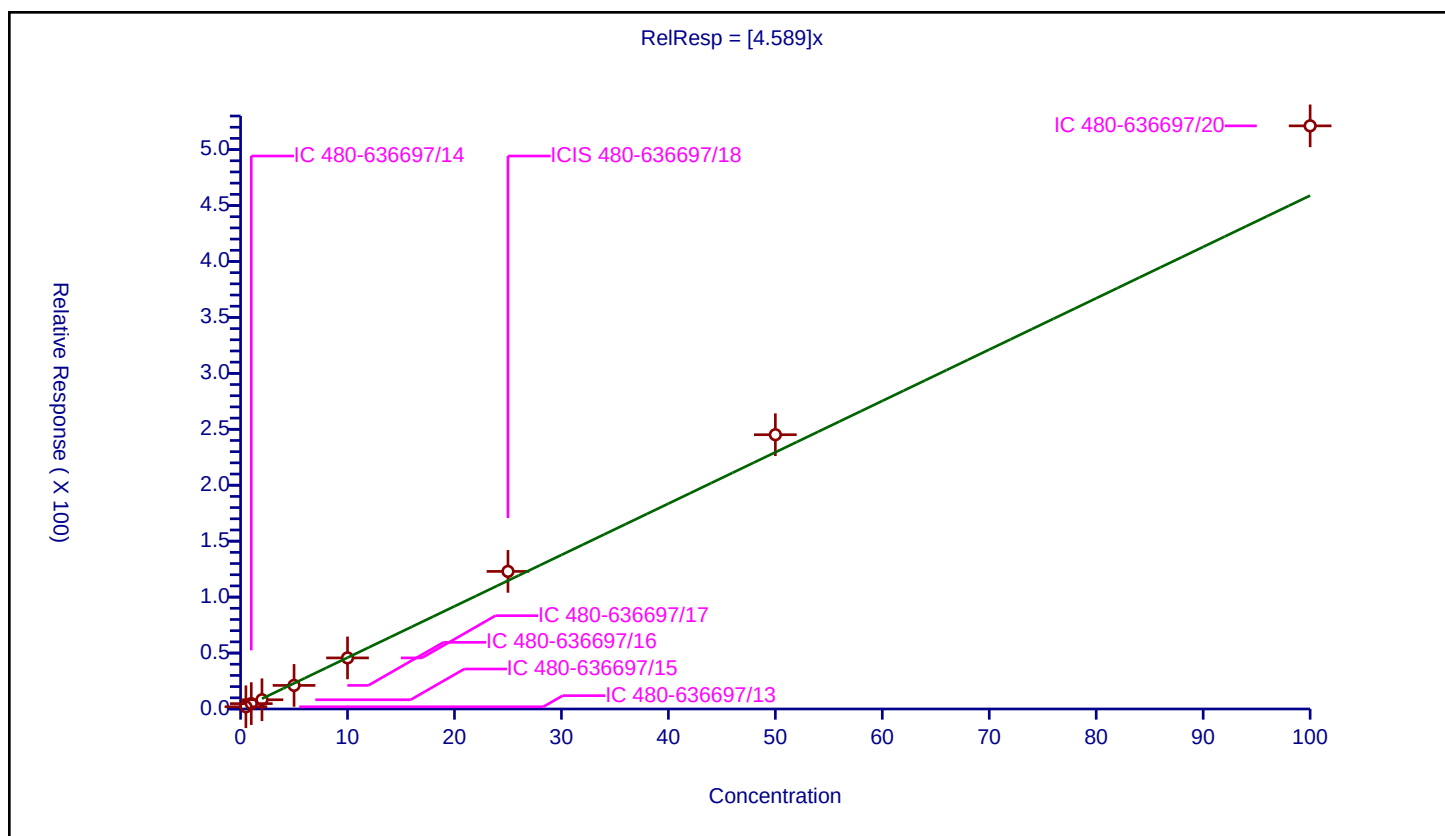
## Curve Coefficients

Intercept: 0  
 Slope: 4.589

## Error Coefficients

Standard Error: 3560000  
 Relative Standard Error: 9.7  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.988

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.981165   | 25.0      | 384862.0    | 3.962329 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 4.80396    | 25.0      | 390813.0    | 4.80396  | Y    |
| 3  | IC 480-636697/15   | 2.0           | 8.256942   | 25.0      | 399370.0    | 4.128471 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 21.087373  | 25.0      | 410747.0    | 4.217475 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 45.665133  | 25.0      | 416766.0    | 4.566513 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 122.964189 | 25.0      | 394904.0    | 4.918568 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 245.147048 | 25.0      | 409493.0    | 4.902941 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 521.201876 | 25.0      | 395590.0    | 5.212019 | Y    |



# Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

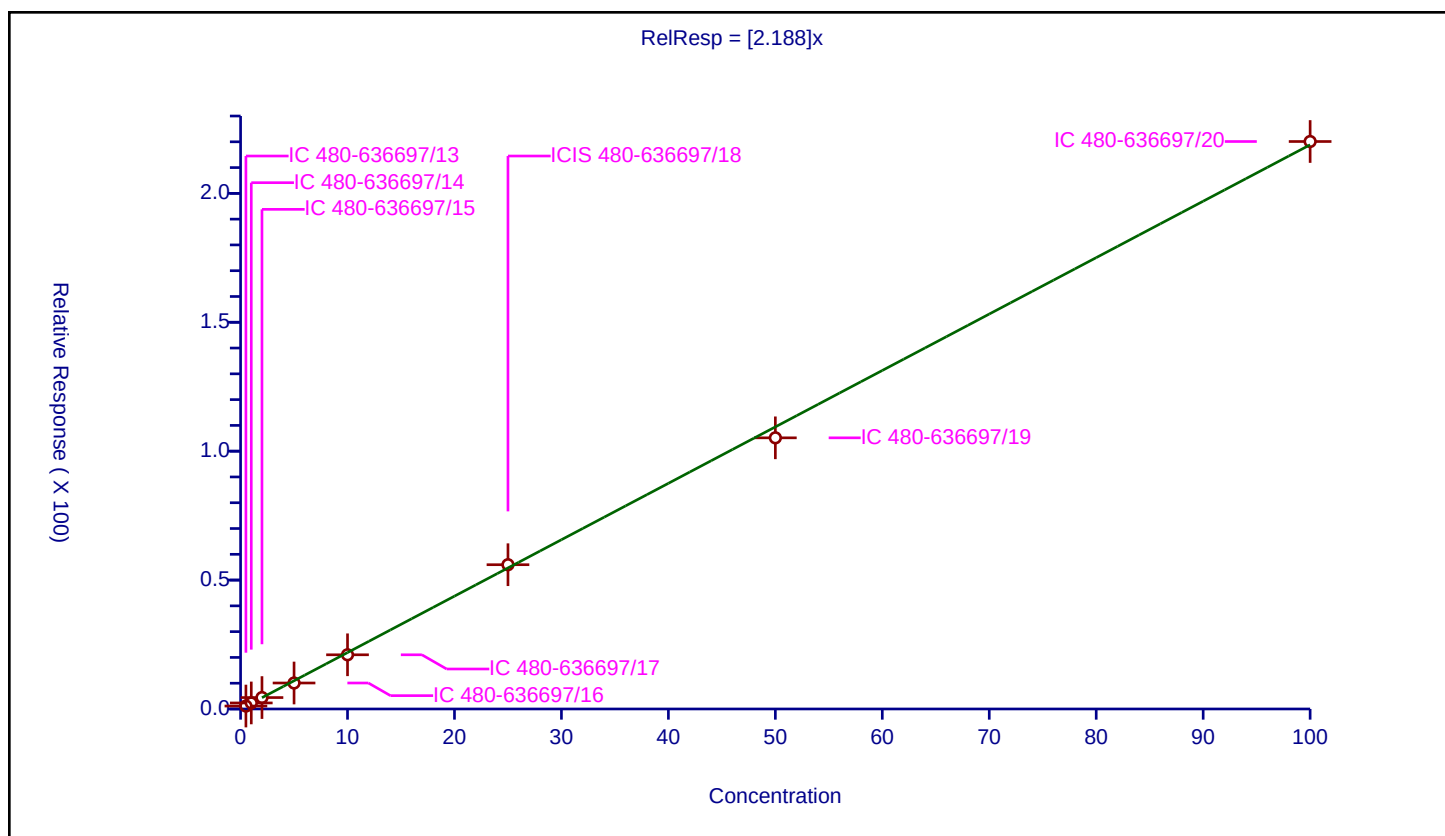
## Curve Coefficients

Intercept: 0  
 Slope: 2.188

## Error Coefficients

Standard Error: 1510000  
 Relative Standard Error: 4.9  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.142812   | 25.0      | 384862.0    | 2.285624 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.346327   | 25.0      | 390813.0    | 2.346327 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 4.427786   | 25.0      | 399370.0    | 2.213893 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 10.078893  | 25.0      | 410747.0    | 2.015779 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 21.024328  | 25.0      | 416766.0    | 2.102433 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 55.959107  | 25.0      | 394904.0    | 2.238364 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 105.171212 | 25.0      | 409493.0    | 2.103424 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 220.109394 | 25.0      | 395590.0    | 2.201094 | Y    |



## Calibration

/ 4-Isopropyltoluene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

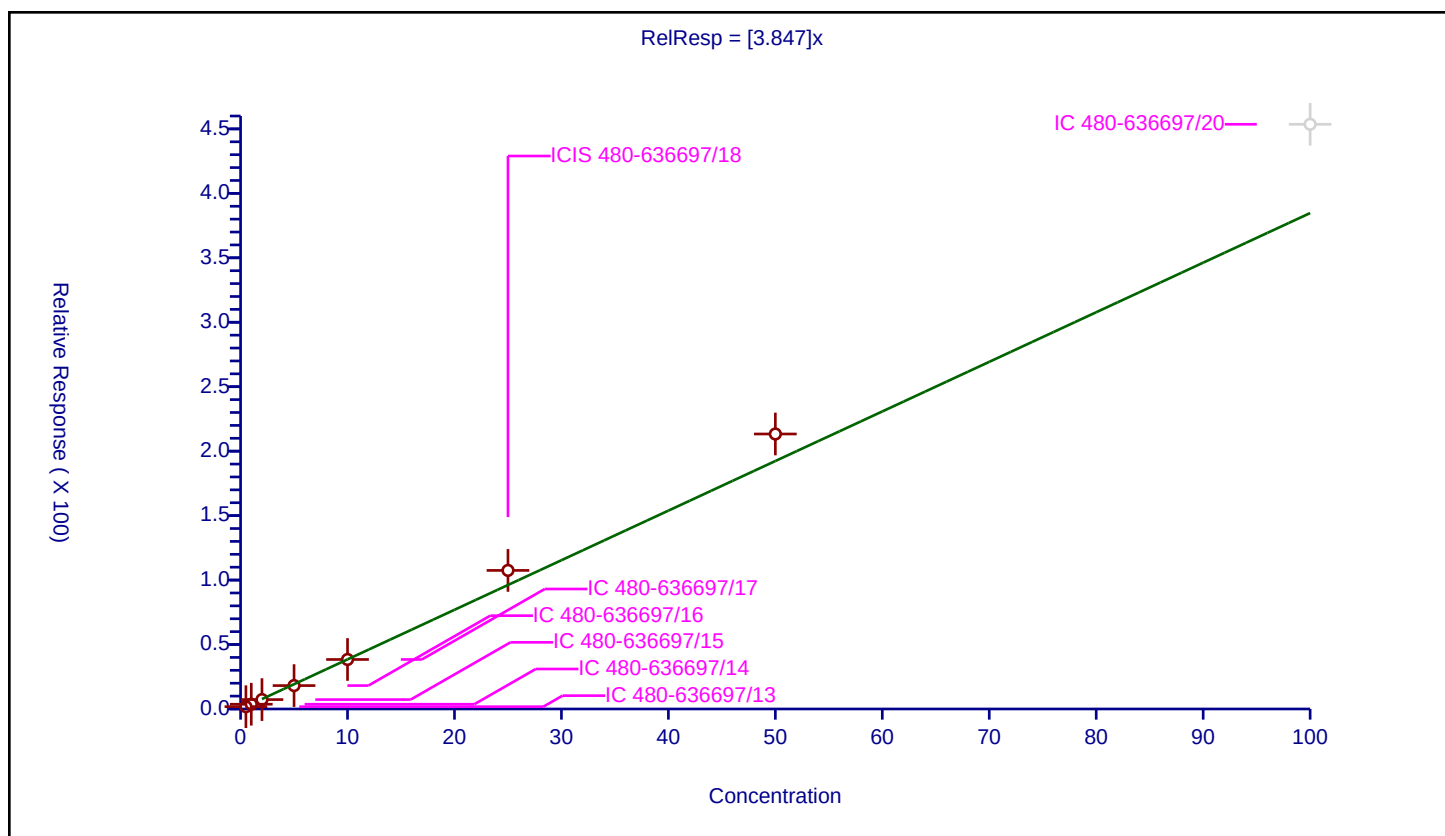
## Curve Coefficients

Intercept: 0  
Slope: 3.847

## Error Coefficients

Standard Error: 1610000  
Relative Standard Error: 8.1  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.991

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.781548   | 25.0      | 384862.0    | 3.563095 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 3.682516   | 25.0      | 390813.0    | 3.682516 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 7.295616   | 25.0      | 399370.0    | 3.647808 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 18.144442  | 25.0      | 410747.0    | 3.628888 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 38.395946  | 25.0      | 416766.0    | 3.839595 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 107.507647 | 25.0      | 394904.0    | 4.300306 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 213.330326 | 25.0      | 409493.0    | 4.266607 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 453.576873 | 25.0      | 395590.0    | 4.535769 | N    |



# Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

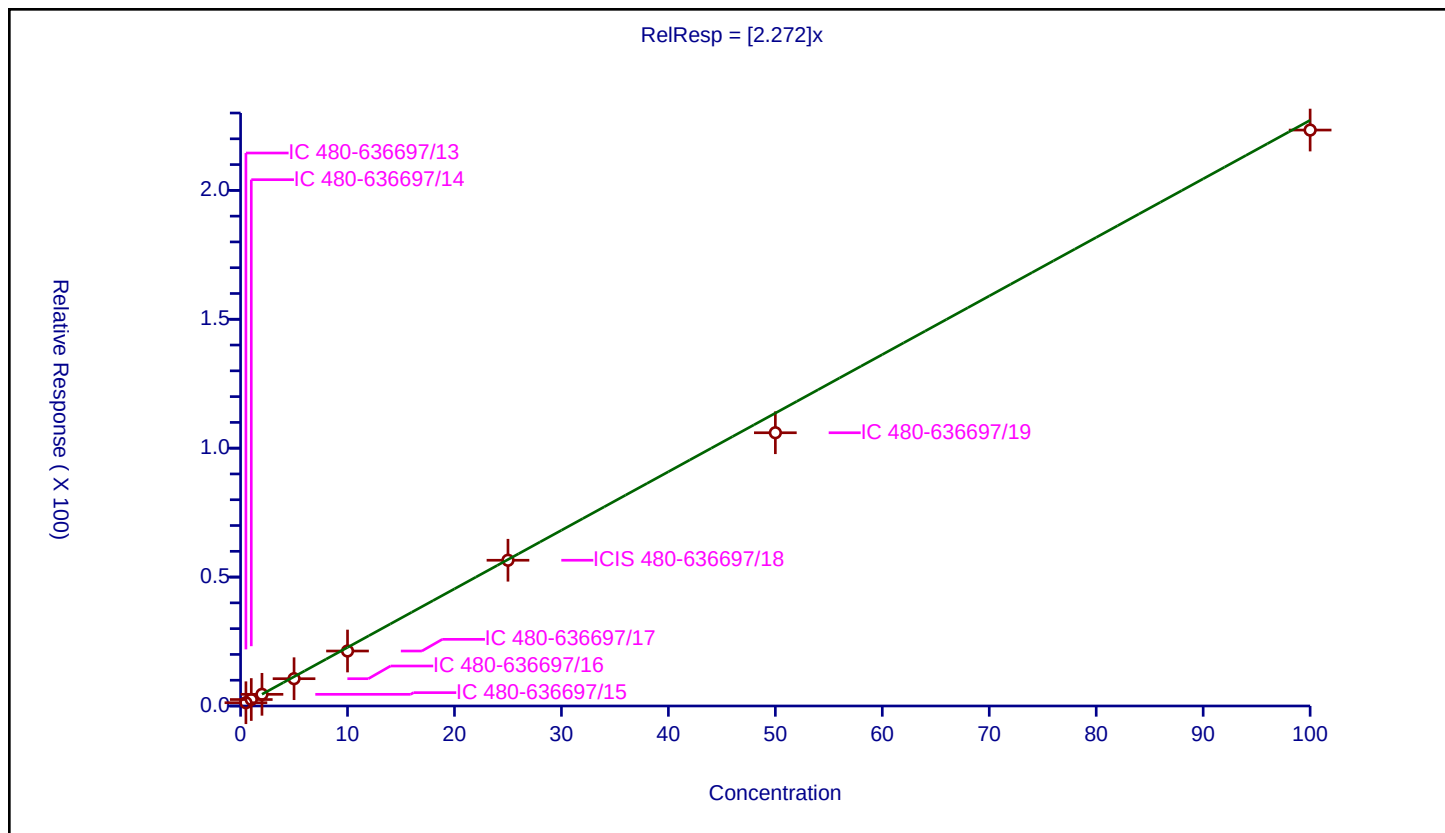
## Curve Coefficients

Intercept: 0  
 Slope: 2.272

## Error Coefficients

Standard Error: 1530000  
 Relative Standard Error: 7.4  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.992

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.269416   | 25.0      | 384862.0    | 2.538832 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.508617   | 25.0      | 390813.0    | 2.508617 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 4.52544    | 25.0      | 399370.0    | 2.26272  | Y    |
| 4  | IC 480-636697/16   | 5.0           | 10.588696  | 25.0      | 410747.0    | 2.117739 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 21.323416  | 25.0      | 416766.0    | 2.132342 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 56.529752  | 25.0      | 394904.0    | 2.26119  | Y    |
| 7  | IC 480-636697/19   | 50.0          | 105.982581 | 25.0      | 409493.0    | 2.119652 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 223.385766 | 25.0      | 395590.0    | 2.233858 | Y    |





# Calibration

/ n-Butylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

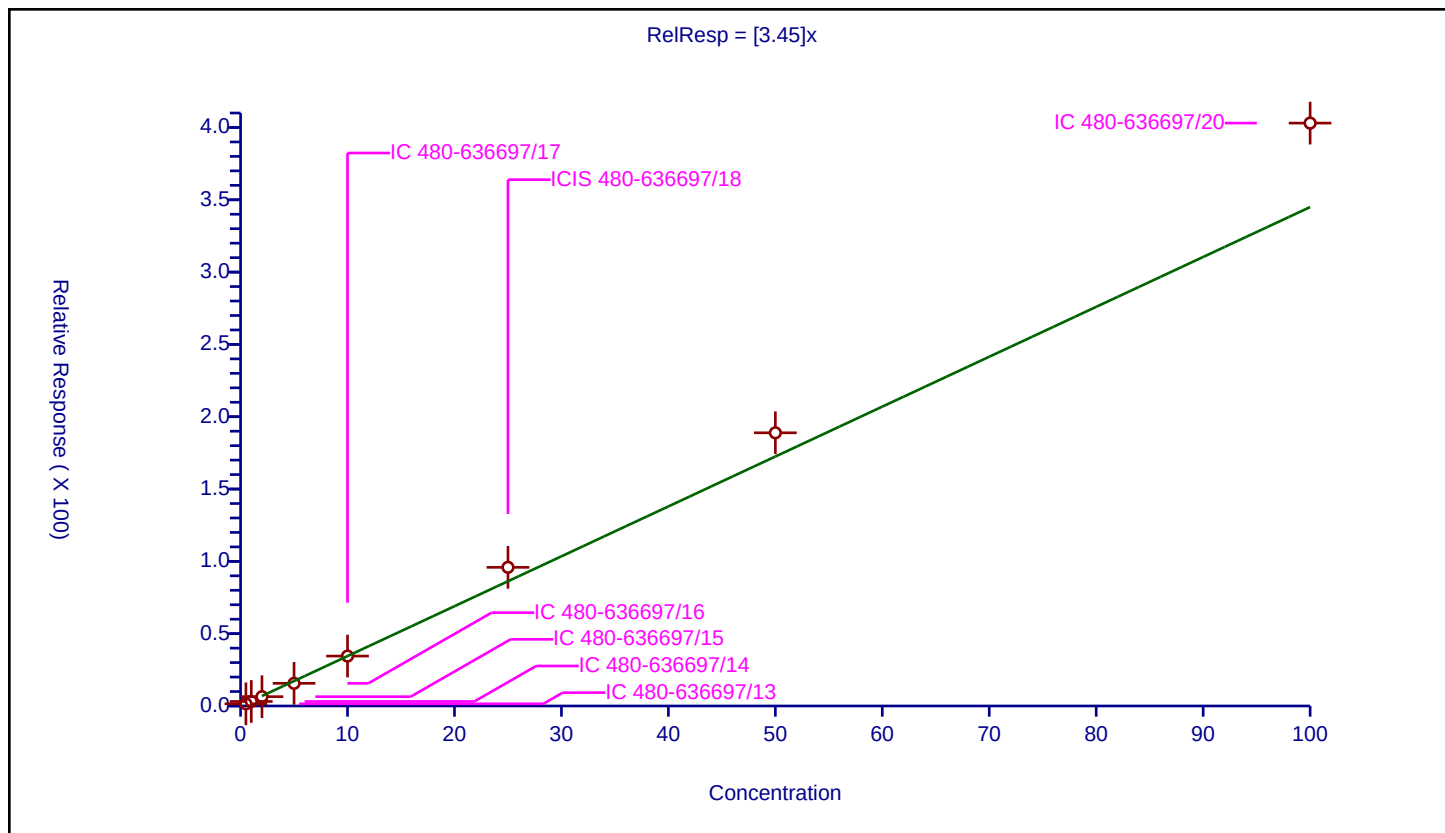
## Curve Coefficients

Intercept: 0  
 Slope: 3.45

## Error Coefficients

Standard Error: 2750000  
 Relative Standard Error: 11.1  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.985

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.516063   | 25.0      | 384862.0    | 3.032126 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 3.119715   | 25.0      | 390813.0    | 3.119715 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 6.435323   | 25.0      | 399370.0    | 3.217662 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 15.662987  | 25.0      | 410747.0    | 3.132597 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 34.52183   | 25.0      | 416766.0    | 3.452183 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 95.869313  | 25.0      | 394904.0    | 3.834773 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 188.881861 | 25.0      | 409493.0    | 3.777637 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 403.025544 | 25.0      | 395590.0    | 4.030255 | Y    |



# Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

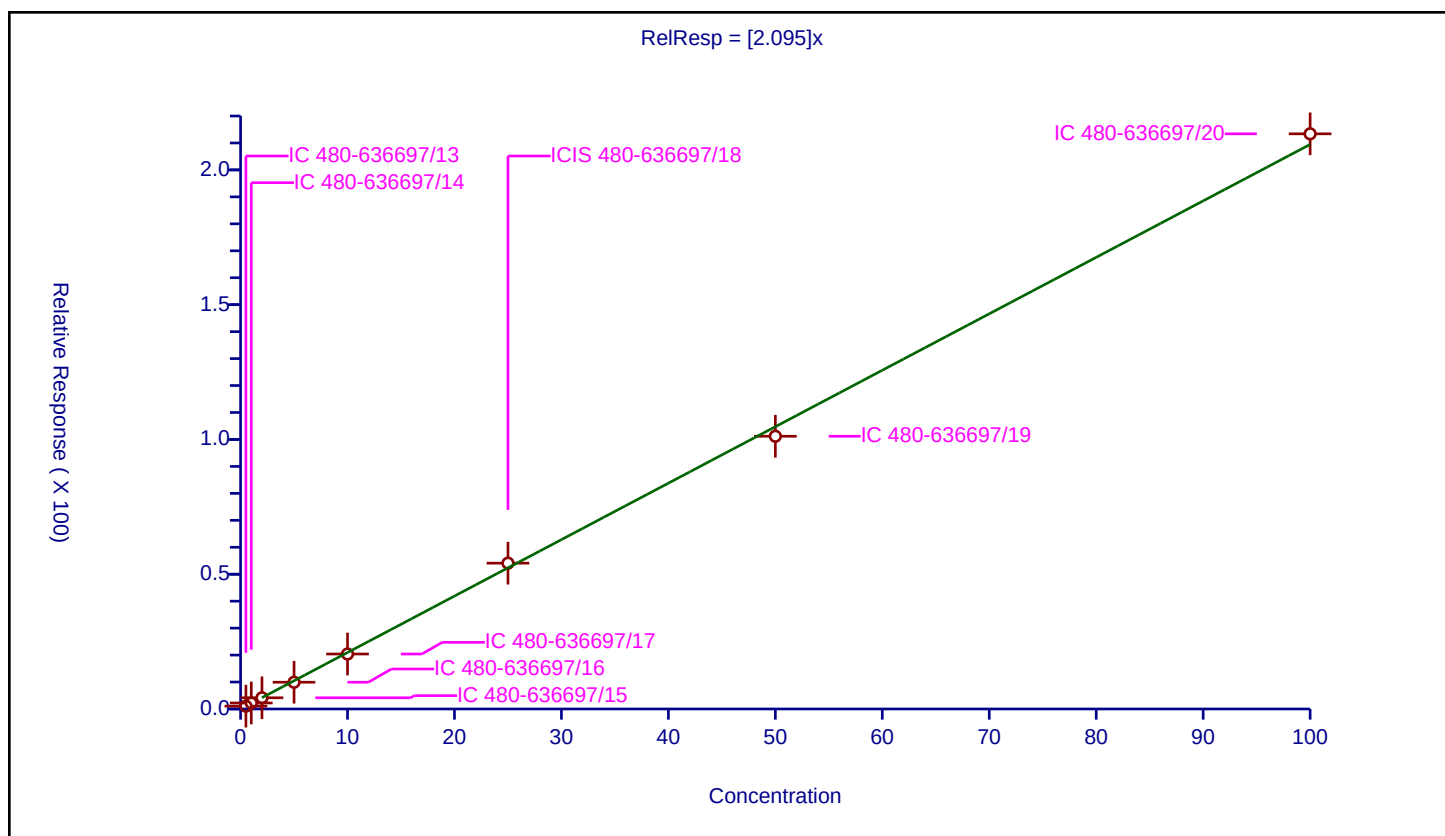
## Curve Coefficients

Intercept: 0  
 Slope: 2.095

## Error Coefficients

Standard Error: 1470000  
 Relative Standard Error: 3.8  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.051676   | 25.0      | 384862.0    | 2.103351 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 2.227216   | 25.0      | 390813.0    | 2.227216 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 4.156985   | 25.0      | 399370.0    | 2.078492 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 9.929957   | 25.0      | 410747.0    | 1.985991 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 20.397477  | 25.0      | 416766.0    | 2.039748 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 54.099604  | 25.0      | 394904.0    | 2.163984 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 101.191412 | 25.0      | 409493.0    | 2.023828 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 213.390821 | 25.0      | 395590.0    | 2.133908 | Y    |



# Calibration

/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

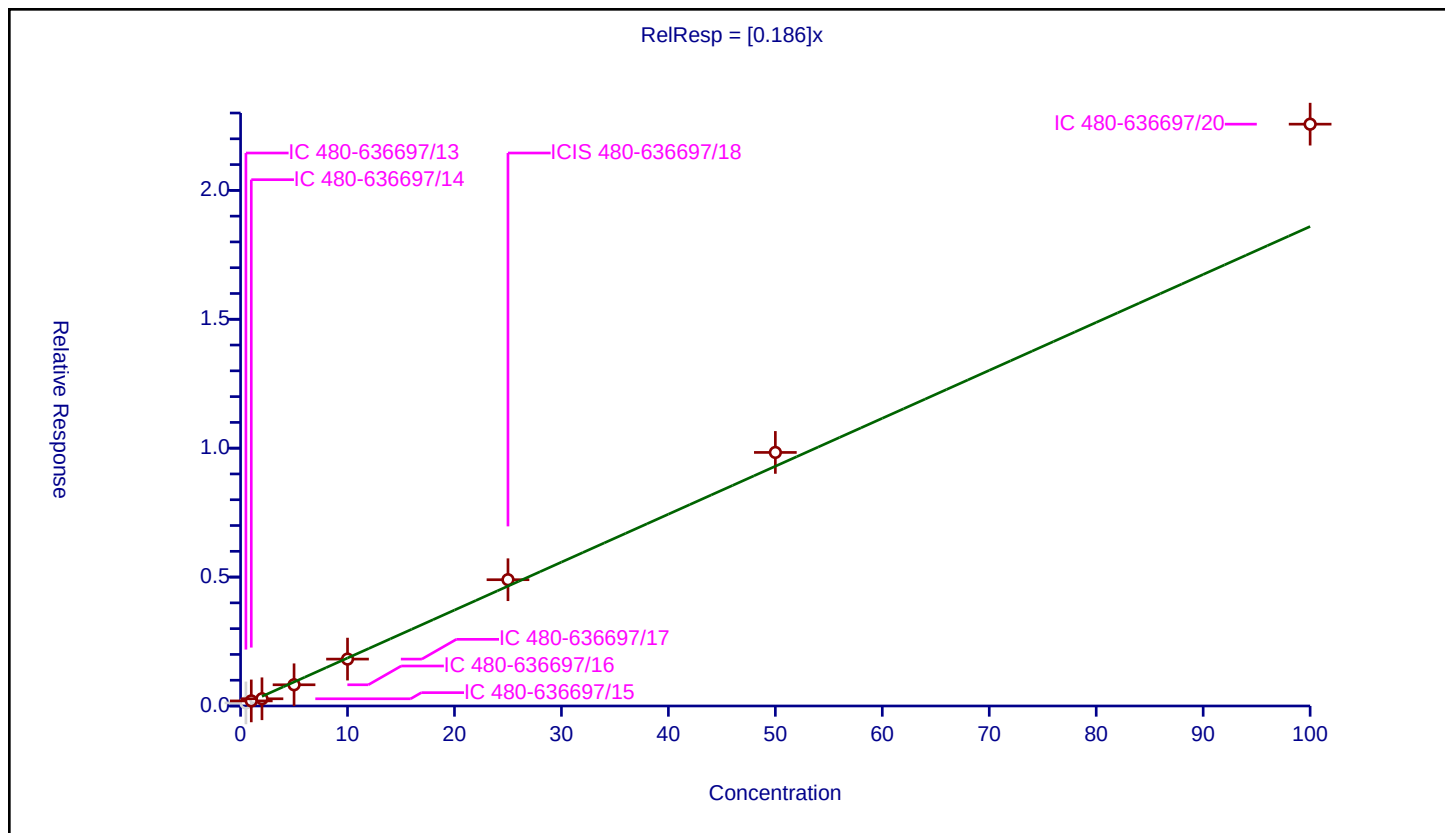
## Curve Coefficients

Intercept: 0  
 Slope: 0.186

## Error Coefficients

Standard Error: 164000  
 Relative Standard Error: 14.7  
 Correlation Coefficient: 0.998  
 Coefficient of Determination (Adjusted): 0.972

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.119004   | 25.0      | 384862.0    | 0.238007 | N    |
| 2  | IC 480-636697/14   | 1.0           | 0.197089   | 25.0      | 390813.0    | 0.197089 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 0.280129   | 25.0      | 399370.0    | 0.140064 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 0.822465   | 25.0      | 410747.0    | 0.164493 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 1.818826   | 25.0      | 416766.0    | 0.181883 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 4.898596   | 25.0      | 394904.0    | 0.195944 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 9.834722   | 25.0      | 409493.0    | 0.196694 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 22.567305  | 25.0      | 395590.0    | 0.225673 | Y    |



# Calibration

/ 1,2,4-Trichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

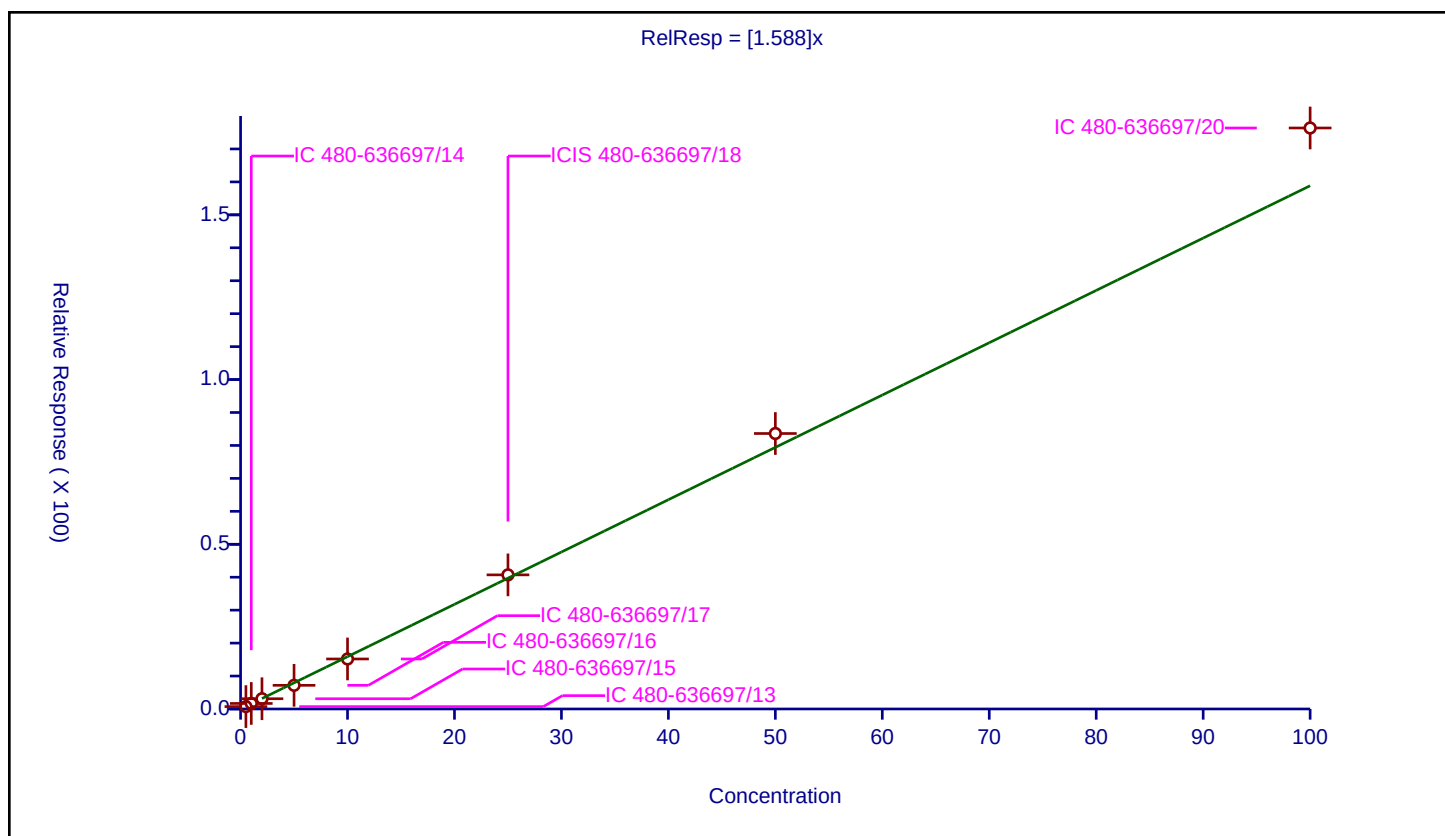
## Curve Coefficients

Intercept: 0  
 Slope: 1.588

## Error Coefficients

Standard Error: 1200000  
 Relative Standard Error: 7.4  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.72448    | 25.0      | 384862.0    | 1.448961 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 1.681431   | 25.0      | 390813.0    | 1.681431 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 3.113904   | 25.0      | 399370.0    | 1.556952 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 7.182645   | 25.0      | 410747.0    | 1.436529 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 15.177822  | 25.0      | 416766.0    | 1.517782 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 40.712869  | 25.0      | 394904.0    | 1.628515 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 83.621149  | 25.0      | 409493.0    | 1.672423 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 176.365113 | 25.0      | 395590.0    | 1.763651 | Y    |



## Calibration

/ Hexachlorobutadiene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

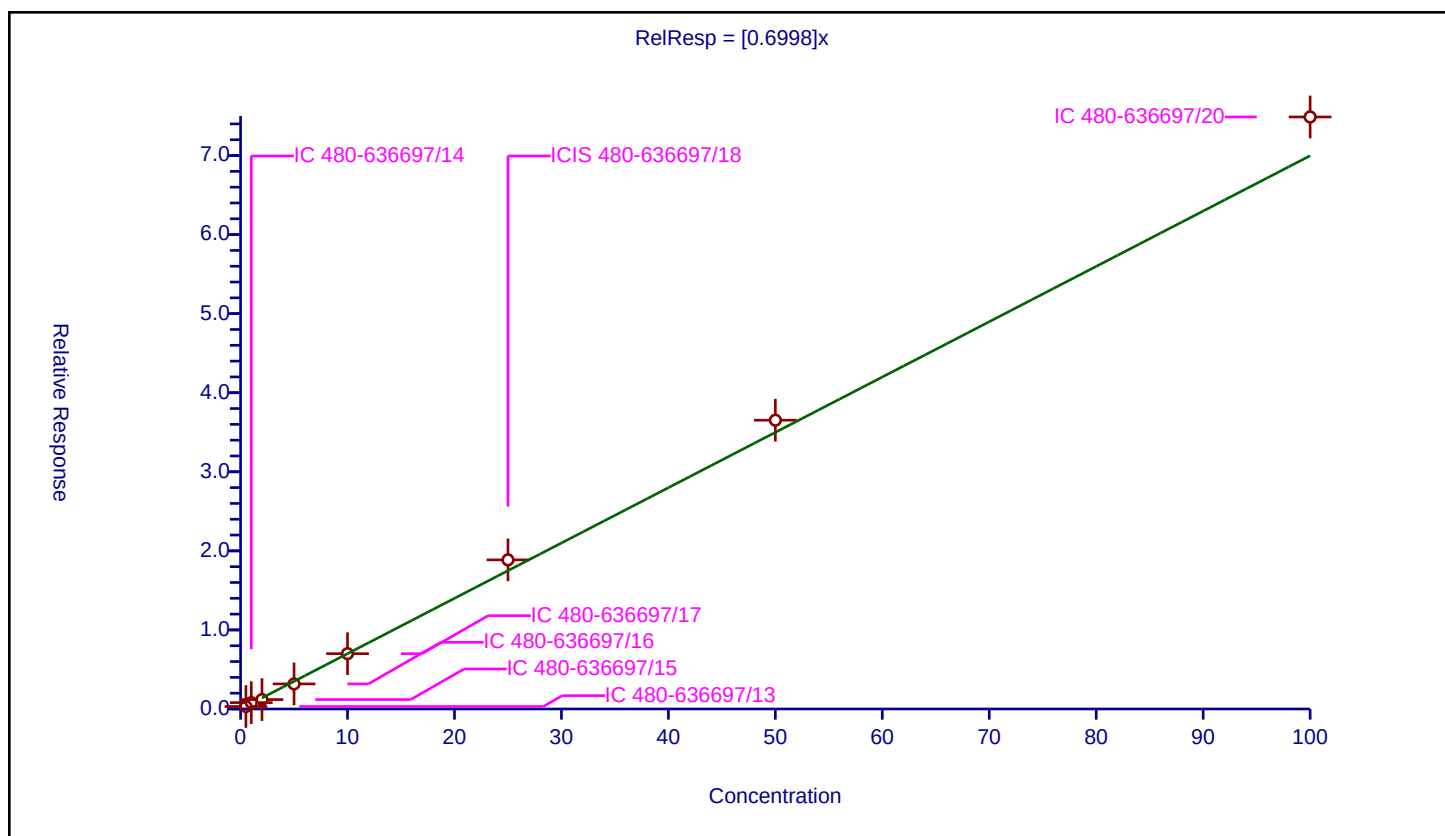
## Curve Coefficients

Intercept: 0  
Slope: 0.6998

## Error Coefficients

Standard Error: 516000  
Relative Standard Error: 10.4  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.986

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.315892   | 25.0      | 384862.0    | 0.631785 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 0.804221   | 25.0      | 390813.0    | 0.804221 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 1.187871   | 25.0      | 399370.0    | 0.593935 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 3.173182   | 25.0      | 410747.0    | 0.634636 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 6.997512   | 25.0      | 416766.0    | 0.699751 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 18.8599    | 25.0      | 394904.0    | 0.754396 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 36.527303  | 25.0      | 409493.0    | 0.730546 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 74.877967  | 25.0      | 395590.0    | 0.74878  | Y    |



## Calibration

/ Naphthalene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

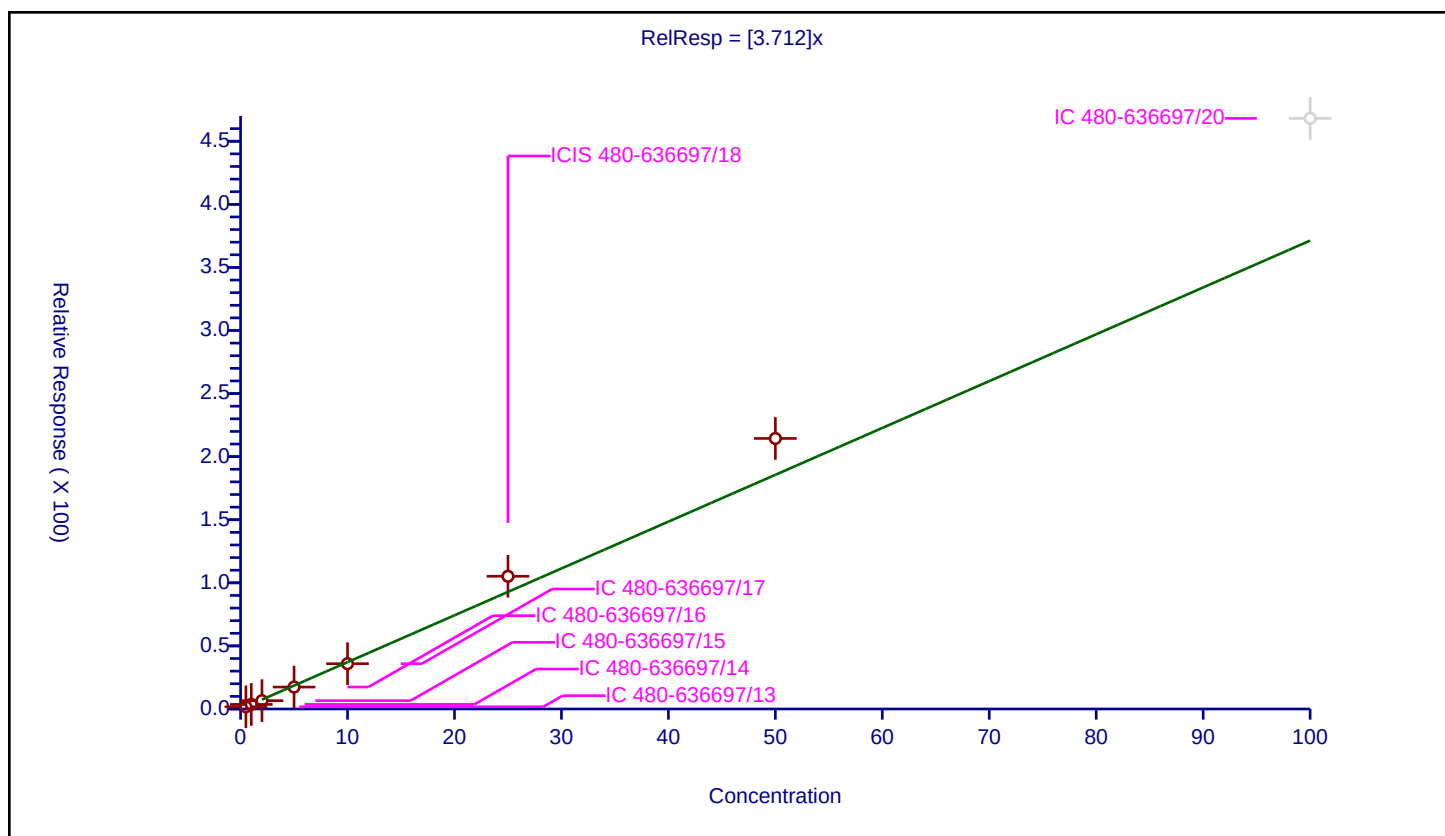
## Curve Coefficients

Intercept: 0  
Slope: 3.712

## Error Coefficients

Standard Error: 1610000  
Relative Standard Error: 10.2  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.986

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 1.749783   | 25.0      | 384862.0    | 3.499566 | Y    |
| 2  | IC 480-636697/14   | 1.0           | 3.619826   | 25.0      | 390813.0    | 3.619826 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 6.611663   | 25.0      | 399370.0    | 3.305832 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 17.378824  | 25.0      | 410747.0    | 3.475765 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 35.892083  | 25.0      | 416766.0    | 3.589208 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 105.178094 | 25.0      | 394904.0    | 4.207124 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 214.432176 | 25.0      | 409493.0    | 4.288644 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 468.125711 | 25.0      | 395590.0    | 4.681257 | N    |



# Calibration

/ 1,2,3-Trichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

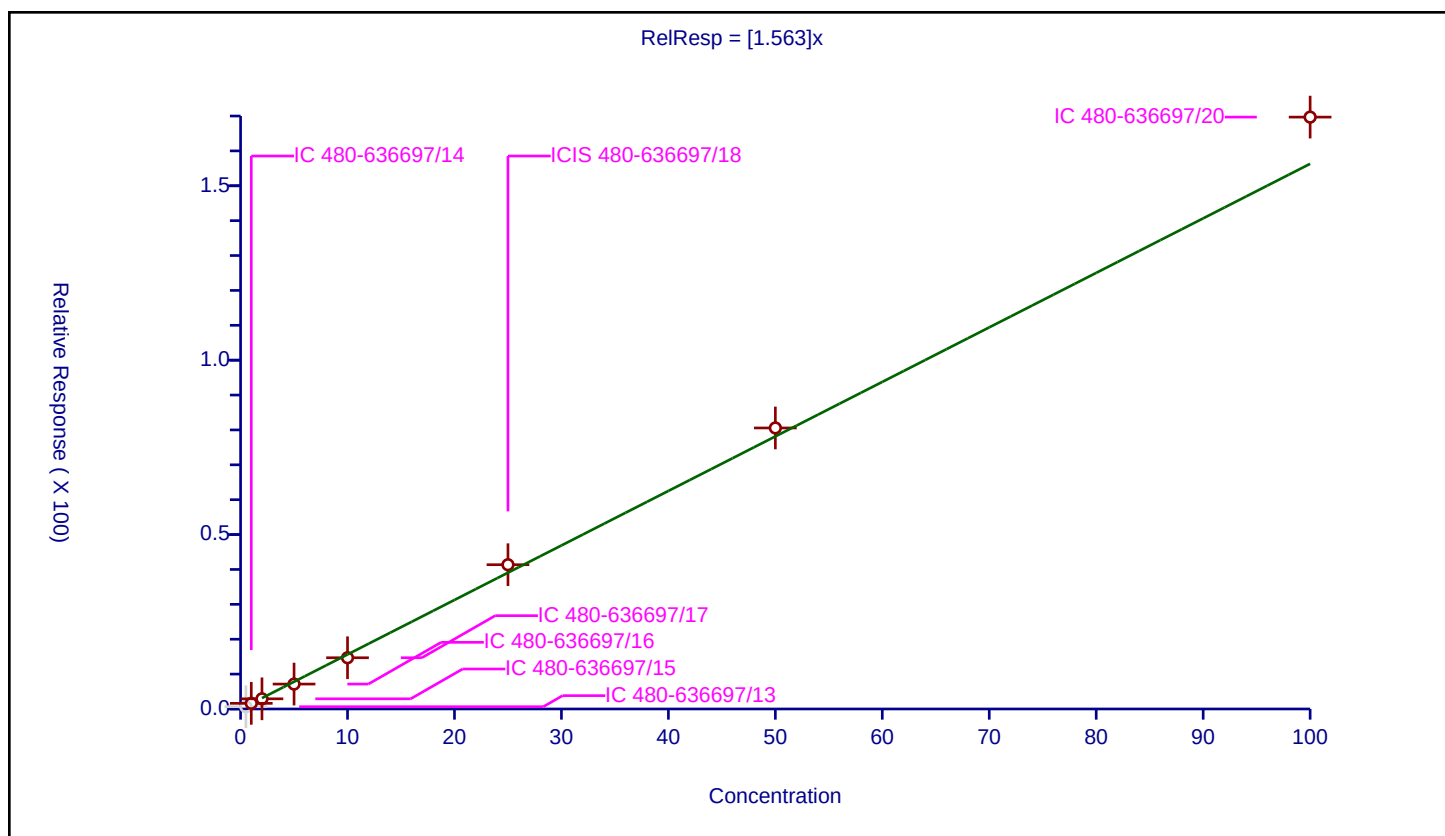
## Curve Coefficients

Intercept: 0  
 Slope: 1.563

## Error Coefficients

Standard Error: 1260000  
 Relative Standard Error: 6.9  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-636697/13   | 0.5           | 0.656664   | 25.0      | 384862.0    | 1.313328 | N    |
| 2  | IC 480-636697/14   | 1.0           | 1.620596   | 25.0      | 390813.0    | 1.620596 | Y    |
| 3  | IC 480-636697/15   | 2.0           | 2.918847   | 25.0      | 399370.0    | 1.459424 | Y    |
| 4  | IC 480-636697/16   | 5.0           | 7.140892   | 25.0      | 410747.0    | 1.428178 | Y    |
| 5  | IC 480-636697/17   | 10.0          | 14.693437  | 25.0      | 416766.0    | 1.469344 | Y    |
| 6  | ICIS 480-636697/18 | 25.0          | 41.360685  | 25.0      | 394904.0    | 1.654427 | Y    |
| 7  | IC 480-636697/19   | 50.0          | 80.569692  | 25.0      | 409493.0    | 1.611394 | Y    |
| 8  | IC 480-636697/20   | 100.0         | 169.684964 | 25.0      | 395590.0    | 1.69685  | Y    |



FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

Calibration Files

|         |                    |              |
|---------|--------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:     | LAB FILE ID: |
| Level 1 | IC 480-632802/9    | L18025.D     |
| Level 2 | IC 480-632802/10   | L18026.D     |
| Level 3 | IC 480-632802/11   | L18027.D     |
| Level 4 | IC 480-632802/12   | L18028.D     |
| Level 5 | IC 480-632802/13   | L18029.D     |
| Level 6 | ICIS 480-632802/14 | L18030.D     |
| Level 7 | IC 480-632802/15   | L18031.D     |
| Level 8 | IC 480-632802/16   | L18032.D     |

| ANALYTE                               | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---------------------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|------------|----|---|---------|------|---|----------|------------|---|----------------|
|                                       | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5  |            | B           | M1         | M2 |   |         |      |   |          |            |   |                |
| Dichlorodifluoromethane               | ++++<br>1.6368   | 1.3617<br>1.6814 | 1.4431<br>1.7552 | 1.5862 | 1.3632 | Ave        |             | 1.546<br>8 |    |   | 0.1000  | 10.2 |   | 20.0     |            |   |                |
| Chloromethane                         | 1.6570<br>1.3942 | 1.4187<br>1.3870 | 1.4576<br>1.4771 | 1.4229 | 1.3637 | Ave        |             | 1.447<br>3 |    |   | 0.1000  | 6.4  |   | 20.0     |            |   |                |
| Vinyl chloride                        | 1.3208<br>1.4068 | 1.2713<br>1.4121 | 1.3756<br>1.4840 | 1.3911 | 1.3183 | Ave        |             | 1.372<br>5 |    |   | 0.1000  | 4.9  |   | 20.0     |            |   |                |
| Butadiene                             | 1.0457<br>1.1526 | 0.9982<br>1.1795 | 1.1164<br>1.2114 | 1.1593 | 1.0232 | Ave        |             | 1.110<br>8 |    |   |         | 7.1  |   | 20.0     |            |   |                |
| Bromomethane                          | ++++<br>0.9907   | 0.8628<br>1.0020 | 1.0790<br>1.0549 | 1.0817 | 1.0530 | Ave        |             | 1.017<br>7 |    |   | 0.1000  | 7.6  |   | 20.0     |            |   |                |
| Chloroethane                          | ++++<br>0.8033   | 0.8740<br>0.8298 | 0.8259<br>0.8560 | 0.8642 | 0.8375 | Ave        |             | 0.841<br>5 |    |   | 0.1000  | 2.9  |   | 20.0     |            |   |                |
| Dichlorofluoromethane                 | ++++<br>1.8445   | 1.9831<br>1.8567 | 1.9432<br>1.9701 | 1.9132 | 1.8504 | Ave        |             | 1.908<br>7 |    |   |         | 3.1  |   | 20.0     |            |   |                |
| Trichlorofluoromethane                | ++++<br>1.8306   | 1.5468<br>1.9039 | 1.7217<br>2.0267 | 1.8069 | 1.6569 | Ave        |             | 1.784<br>8 |    |   | 0.1000  | 8.9  |   | 20.0     |            |   |                |
| Ethyl ether                           | 1.1423<br>1.1537 | 1.1117<br>1.1713 | 1.2023<br>1.2020 | 1.2062 | 1.1607 | Ave        |             | 1.168<br>8 |    |   |         | 2.9  |   | 20.0     |            |   |                |
| Acrolein                              | 0.2246<br>0.2326 | 0.2305<br>0.2410 | 0.2407<br>0.2213 | 0.2471 | 0.2459 | Ave        |             | 0.235<br>5 |    |   |         | 4.1  |   | 20.0     |            |   |                |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.9928<br>1.2269 | 0.9890<br>1.2361 | 1.1838<br>1.2905 | 1.2259 | 1.1351 | Ave        |             | 1.160<br>0 |    |   | 0.1000  | 9.8  |   | 20.0     |            |   |                |
| 1,1-Dichloroethene                    | 1.0938<br>1.1842 | 0.9057<br>1.1837 | 1.1723<br>1.2335 | 1.1801 | 1.1295 | Ave        |             | 1.135<br>3 |    |   | 0.1000  | 8.9  |   | 20.0     |            |   |                |
| Acetone                               | ++++<br>0.4988   | 0.5647<br>0.5116 | 0.6188<br>0.4498 | 0.5910 | 0.5913 | Ave        |             | 0.546<br>6 |    |   | 0.1000  | 11.2 |   | 20.0     |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.



FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                  | RRF              |                  |                  |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|--------------------------|------------------|------------------|------------------|--------|--------|---------------|-------------|------------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                          | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5  |               | B           | M1         | M2 |   |         |      |   |             |               |   |                   |
| Iodomethane              | 1.8713<br>2.1251 | 1.8906<br>2.1420 | 2.0781<br>2.2296 | 2.1800 | 2.1051 | Ave           |             | 2.077<br>7 |    |   |         | 6.3  |   | 20.0        |               |   |                   |
| Carbon disulfide         | 2.7979<br>3.3045 | 2.5515<br>3.4971 | 2.9615<br>3.7366 | 3.1636 | 3.1490 | Ave           |             | 3.145<br>2 |    |   | 0.1000  | 12.1 |   | 20.0        |               |   |                   |
| Allyl chloride           | 1.9889<br>1.8056 | 1.5232<br>1.7978 | 1.7753<br>1.7827 | 1.8095 | 1.7478 | Ave           |             | 1.778<br>8 |    |   |         | 7.1  |   | 20.0        |               |   |                   |
| Methyl acetate           | ++++<br>1.5141   | 1.6161<br>1.5533 | 1.7051<br>1.3822 | 1.5887 | 1.5634 | Ave           |             | 1.560<br>4 |    |   | 0.1000  | 6.3  |   | 20.0        |               |   |                   |
| Methylene Chloride       | 2.6560<br>1.4454 | 1.6770<br>1.4306 | 1.6966<br>1.4632 | 1.5734 | 1.4811 | Lin1          | 0.427<br>2  | 1.444<br>6 |    |   | 0.1000  | 7.1  |   |             | 1.0000        |   | 0.9900            |
| 2-Methyl-2-propanol      | 0.2410<br>0.2213 | 0.2281<br>0.2278 | 0.2666<br>0.1840 | 0.2726 | 0.2742 | Ave           |             | 0.239<br>5 |    |   |         | 12.9 |   | 20.0        |               |   |                   |
| Methyl tert-butyl ether  | 4.6533<br>4.4369 | 4.2480<br>4.4532 | 4.5315<br>4.4106 | 4.6377 | 4.5356 | Ave           |             | 4.488<br>3 |    |   | 0.1000  | 2.9  |   | 20.0        |               |   |                   |
| trans-1,2-Dichloroethene | 1.2596<br>1.4266 | 1.2390<br>1.4376 | 1.4105<br>1.4661 | 1.4928 | 1.3995 | Ave           |             | 1.391<br>5 |    |   | 0.1000  | 6.7  |   | 20.0        |               |   |                   |
| Acrylonitrile            | 0.8200<br>0.7408 | 0.7482<br>0.7212 | 0.8264<br>0.6454 | 0.8158 | 0.8077 | Ave           |             | 0.765<br>7 |    |   |         | 8.3  |   | 20.0        |               |   |                   |
| Hexane                   | 1.9325<br>1.8868 | 1.5703<br>1.8719 | 1.9440<br>1.8720 | 1.9501 | 1.8000 | Ave           |             | 1.853<br>4 |    |   |         | 6.7  |   | 20.0        |               |   |                   |
| 1,1-Dichloroethane       | 2.2868<br>2.2899 | 2.0321<br>2.2699 | 2.3209<br>2.2887 | 2.3733 | 2.2837 | Ave           |             | 2.268<br>2 |    |   | 0.2000  | 4.4  |   | 20.0        |               |   |                   |
| Vinyl acetate            | 2.8739<br>3.0258 | 2.5022<br>3.0733 | 2.8145<br>3.0670 | 2.9719 | 2.9912 | Ave           |             | 2.915<br>0 |    |   |         | 6.5  |   | 20.0        |               |   |                   |
| 2,2-Dichloropropane      | 1.4095<br>1.3701 | 1.2548<br>1.3423 | 1.4391<br>1.3096 | 1.4382 | 1.3605 | Ave           |             | 1.365<br>5 |    |   |         | 4.7  |   | 20.0        |               |   |                   |
| cis-1,2-Dichloroethene   | 1.5408<br>1.5861 | 1.4149<br>1.5705 | 1.6141<br>1.6129 | 1.6312 | 1.5688 | Ave           |             | 1.567<br>4 |    |   | 0.1000  | 4.4  |   | 20.0        |               |   |                   |
| 2-Butanone (MEK)         | 1.1673<br>0.9850 | 0.9564<br>0.9828 | 1.0741<br>0.9176 | 1.0800 | 1.0582 | Ave           |             | 1.027<br>7 |    |   | 0.1000  | 7.9  |   | 20.0        |               |   |                   |
| Chlorobromomethane       | 0.7992<br>0.8566 | 0.7069<br>0.8447 | 0.8372<br>0.8630 | 0.8834 | 0.8523 | Ave           |             | 0.830<br>4 |    |   |         | 6.7  |   | 20.0        |               |   |                   |
| Tetrahydrofuran          | 0.8196<br>0.6798 | 0.7113<br>0.6802 | 0.7534<br>0.6216 | 0.7573 | 0.7418 | Ave           |             | 0.720<br>6 |    |   |         | 8.4  |   | 20.0        |               |   |                   |
| Chloroform               | ++++<br>2.4419   | 2.2953<br>2.4044 | 2.5758<br>2.4515 | 2.5462 | 2.4612 | Ave           |             | 2.453<br>8 |    |   | 0.2000  | 3.8  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                     | RRF              |                  |                  |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|-----------------------------|------------------|------------------|------------------|--------|--------|---------------|-------------|------------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                             | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5  |               | B           | M1         | M2 |   |         |      |   |             |               |   |                   |
| 1,1,1-Trichloroethane       | 1.7881<br>2.0613 | 1.6736<br>2.0778 | 1.9987<br>2.1383 | 2.1204 | 2.0055 | Ave           |             | 1.983<br>0 |    |   | 0.1000  | 8.4  |   | 20.0        |               |   |                   |
| Cyclohexane                 | 2.1073<br>2.2260 | 1.7120<br>2.2073 | 2.1622<br>2.2311 | 2.2987 | 2.1290 | Ave           |             | 2.134<br>2 |    |   | 0.1000  | 8.5  |   | 20.0        |               |   |                   |
| Carbon tetrachloride        | 1.4840<br>1.7362 | 1.2947<br>1.7880 | 1.6818<br>1.8678 | 1.7087 | 1.6186 | Ave           |             | 1.647<br>5 |    |   | 0.1000  | 11.1 |   | 20.0        |               |   |                   |
| 1,1-Dichloropropene         | 1.7877<br>1.9183 | 1.5973<br>1.8991 | 1.9623<br>1.9399 | 1.9887 | 1.8769 | Ave           |             | 1.871<br>3 |    |   |         | 6.8  |   | 20.0        |               |   |                   |
| Isobutyl alcohol            | 0.1143<br>0.1169 | 0.1070<br>0.1097 | 0.1137<br>0.0874 | 0.1146 | 0.1191 | Ave           |             | 0.110<br>3 |    |   |         | 9.1  |   | 20.0        |               |   |                   |
| Benzene                     | 6.0943<br>5.6403 | 5.1051<br>5.5229 | 5.8888<br>5.5947 | 5.8758 | 5.6444 | Ave           |             | 5.670<br>8 |    |   | 0.5000  | 5.2  |   | 20.0        |               |   |                   |
| 1,2-Dichloroethane          | 2.1392<br>1.8920 | 1.8379<br>1.8571 | 2.0459<br>1.8625 | 2.0441 | 1.9599 | Ave           |             | 1.954<br>8 |    |   | 0.1000  | 5.7  |   | 20.0        |               |   |                   |
| n-Heptane                   | 2.4385<br>2.1454 | 1.8538<br>2.0513 | 2.2041<br>2.1210 | 2.1615 | 1.9283 | Ave           |             | 2.113<br>0 |    |   |         | 8.4  |   | 20.0        |               |   |                   |
| Trichloroethene             | 1.4735<br>1.5047 | 1.2757<br>1.4922 | 1.5325<br>1.5380 | 1.5325 | 1.4465 | Ave           |             | 1.474<br>5 |    |   | 0.2000  | 5.9  |   | 20.0        |               |   |                   |
| Methylcyclohexane           | 2.1464<br>2.4944 | 1.9200<br>2.5135 | 2.4595<br>2.5777 | 2.5423 | 2.3542 | Ave           |             | 2.376<br>0 |    |   | 0.1000  | 9.7  |   | 20.0        |               |   |                   |
| 1,2-Dichloropropane         | 1.2781<br>1.3736 | 1.1795<br>1.3598 | 1.3970<br>1.3857 | 1.4230 | 1.3532 | Ave           |             | 1.343<br>7 |    |   | 0.1000  | 5.9  |   | 20.0        |               |   |                   |
| 1,4-Dioxane                 | ++++<br>0.0057   | ++++<br>0.0048   | 0.0039<br>0.0040 | 0.0048 | 0.0053 | Ave           |             | 0.004<br>8 |    |   |         | 14.6 |   | 20.0        |               |   |                   |
| Dibromomethane              | 0.9136<br>0.9700 | 0.8913<br>0.9685 | 0.9547<br>0.9812 | 0.9924 | 0.9687 | Ave           |             | 0.955<br>0 |    |   | 0.1000  | 3.6  |   | 20.0        |               |   |                   |
| Bromodichloromethane        | 1.4388<br>1.7450 | 1.4441<br>1.7949 | 1.5863<br>1.8820 | 1.6439 | 1.6644 | Ave           |             | 1.649<br>9 |    |   | 0.2000  | 9.6  |   | 20.0        |               |   |                   |
| 2-Chloroethyl vinyl ether   | 1.0222<br>1.1692 | 0.8745<br>1.1659 | 1.0561<br>1.1968 | 1.0998 | 1.1041 | Ave           |             | 1.086<br>1 |    |   |         | 9.6  |   | 20.0        |               |   |                   |
| cis-1,3-Dichloropropene     | 1.9531<br>2.3382 | 1.8157<br>2.3829 | 2.0793<br>2.4846 | 2.2427 | 2.2202 | Ave           |             | 2.189<br>6 |    |   | 0.2000  | 10.3 |   | 20.0        |               |   |                   |
| 4-Methyl-2-pentanone (MIBK) | 0.5386<br>0.5043 | 0.4711<br>0.4839 | 0.5166<br>0.4522 | 0.5288 | 0.5252 | Ave           |             | 0.502<br>6 |    |   | 0.1000  | 6.1  |   | 20.0        |               |   |                   |
| Toluene                     | 0.9951<br>0.9003 | 0.8071<br>0.8862 | 0.9636<br>0.9095 | 0.9733 | 0.9242 | Ave           |             | 0.919<br>9 |    |   | 0.4000  | 6.5  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                   | RRF              |                  |                  |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|---------------------------|------------------|------------------|------------------|--------|--------|---------------|-------------|------------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                           | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5  |               | B           | M1         | M2 |   |         |      |   |             |               |   |                   |
| trans-1,3-Dichloropropene | 0.4563<br>0.5357 | 0.4150<br>0.5431 | 0.4859<br>0.5652 | 0.5140 | 0.5224 | Ave           |             | 0.504<br>7 |    |   | 0.1000  | 9.8  |   | 20.0        |               |   |                   |
| Ethyl methacrylate        | 0.4976<br>0.5569 | 0.4400<br>0.5551 | 0.5148<br>0.5650 | 0.5411 | 0.5443 | Ave           |             | 0.526<br>9 |    |   |         | 7.9  |   | 20.0        |               |   |                   |
| 1,1,2-Trichloroethane     | 0.2886<br>0.2878 | 0.2582<br>0.2826 | 0.2971<br>0.2864 | 0.3067 | 0.2950 | Ave           |             | 0.287<br>8 |    |   | 0.1000  | 4.9  |   | 20.0        |               |   |                   |
| Tetrachloroethene         | 0.4178<br>0.4062 | 0.3563<br>0.3997 | 0.4350<br>0.4115 | 0.4449 | 0.4092 | Ave           |             | 0.410<br>1 |    |   | 0.2000  | 6.5  |   | 20.0        |               |   |                   |
| 1,3-Dichloropropane       | 0.6618<br>0.6057 | 0.5597<br>0.5934 | 0.6457<br>0.6017 | 0.6438 | 0.6301 | Ave           |             | 0.617<br>7 |    |   |         | 5.4  |   | 20.0        |               |   |                   |
| 2-Hexanone                | 0.3730<br>0.3634 | 0.3258<br>0.3473 | 0.3573<br>0.3320 | 0.3770 | 0.3729 | Ave           |             | 0.356<br>1 |    |   | 0.1000  | 5.4  |   | 20.0        |               |   |                   |
| Dibromochloromethane      | 0.2872<br>0.3373 | 0.2563<br>0.3558 | 0.2863<br>0.3811 | 0.3184 | 0.3202 | Ave           |             | 0.317<br>8 |    |   | 0.1000  | 12.8 |   | 20.0        |               |   |                   |
| 1,2-Dibromoethane         | 0.3769<br>0.3845 | 0.3338<br>0.3791 | 0.3771<br>0.3870 | 0.3937 | 0.3927 | Ave           |             | 0.378<br>1 |    |   |         | 5.0  |   | 20.0        |               |   |                   |
| Chlorobenzene             | 1.0716<br>1.0285 | 0.9283<br>1.0160 | 1.0769<br>1.0428 | 1.0986 | 1.0523 | Ave           |             | 1.039<br>4 |    |   | 0.5000  | 5.0  |   | 20.0        |               |   |                   |
| Ethylbenzene              | 1.7092<br>1.6713 | 1.4724<br>1.6448 | 1.6978<br>1.6728 | 1.7713 | 1.6870 | Ave           |             | 1.665<br>8 |    |   | 0.1000  | 5.2  |   | 20.0        |               |   |                   |
| 1,1,1,2-Tetrachloroethane | 0.3124<br>0.3566 | 0.2878<br>0.3622 | 0.3333<br>0.3680 | 0.3529 | 0.3531 | Ave           |             | 0.340<br>8 |    |   |         | 8.2  |   | 20.0        |               |   |                   |
| m,p-Xylene                | 0.6481<br>0.6612 | 0.5664<br>0.6566 | 0.6845<br>0.6725 | 0.7126 | 0.6769 | Ave           |             | 0.659<br>8 |    |   | 0.1000  | 6.5  |   | 20.0        |               |   |                   |
| o-Xylene                  | 0.6607<br>0.6551 | 0.5441<br>0.6433 | 0.6746<br>0.6498 | 0.6894 | 0.6692 | Ave           |             | 0.648<br>3 |    |   | 0.3000  | 6.9  |   | 20.0        |               |   |                   |
| Styrene                   | 1.0586<br>1.1198 | 0.9031<br>1.1005 | 1.0705<br>1.1131 | 1.1343 | 1.1221 | Ave           |             | 1.077<br>7 |    |   | 0.3000  | 7.0  |   | 20.0        |               |   |                   |
| Bromoform                 | +++++<br>0.2390  | 0.1726<br>0.2601 | 0.1948<br>+++++  | 0.2212 | 0.2240 | Ave           |             | 0.218<br>6 |    |   | 0.1000  | 14.3 |   | 20.0        |               |   |                   |
| Isopropylbenzene          | 3.1258<br>3.1937 | 2.6502<br>3.2487 | 3.2260<br>3.3569 | 3.3441 | 3.3439 | Ave           |             | 3.186<br>2 |    |   | 0.1000  | 7.3  |   | 20.0        |               |   |                   |
| Bromobenzene              | 0.8428<br>0.8185 | 0.7351<br>0.8334 | 0.8404<br>0.8669 | 0.8658 | 0.8717 | Ave           |             | 0.834<br>3 |    |   |         | 5.3  |   | 20.0        |               |   |                   |
| 1,1,2,2-Tetrachloroethane | 1.0459<br>1.0126 | 0.9439<br>1.0191 | 1.0249<br>1.0083 | 1.0517 | 1.0789 | Ave           |             | 1.023<br>2 |    |   | 0.3000  | 3.9  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                     | RRF              |                  |                  |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | #      | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|-----------------------------|------------------|------------------|------------------|--------|--------|---------------|-------------|------------|----|--------|---------|------|---|-------------|---------------|---|-------------------|
|                             | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |               | B           | M1         | M2 |        |         |      |   |             |               |   |                   |
|                             | LVL 6            | LVL 7            | LVL 8            |        |        |               |             |            |    |        |         |      |   |             |               |   |                   |
| N-Propylbenzene             | 3.6690<br>3.7143 | 3.1029<br>3.7413 | 3.7643<br>3.8358 | 3.9062 | 3.8836 | Ave           |             | 3.702<br>2 |    |        |         | 6.9  |   | 20.0        |               |   |                   |
| trans-1,4-Dichloro-2-butene | 0.2344<br>0.2945 | 0.2154<br>0.2987 | 0.2655<br>0.3021 | 0.2963 | 0.3077 | Ave           |             | 0.276<br>8 |    |        |         | 12.6 |   | 20.0        |               |   |                   |
| 1,2,3-Trichloropropane      | 0.3905<br>0.3564 | 0.3388<br>0.3567 | 0.3688<br>0.3469 | 0.3861 | 0.3787 | Ave           |             | 0.365<br>4 |    |        |         | 5.1  |   | 20.0        |               |   |                   |
| 2-Chlorotoluene             | 0.7168<br>0.7657 | 0.6829<br>0.7797 | 0.7897<br>0.8041 | 0.8010 | 0.8123 | Ave           |             | 0.769<br>0 |    |        |         | 6.0  |   | 20.0        |               |   |                   |
| 1,3,5-Trimethylbenzene      | 2.4650<br>2.6645 | 2.2030<br>2.6936 | 2.6427<br>2.7095 | 2.7821 | 2.7878 | Ave           |             | 2.618<br>5 |    |        |         | 7.5  |   | 20.0        |               |   |                   |
| 4-Chlorotoluene             | 2.3567<br>2.2512 | 1.9685<br>2.2557 | 2.3688<br>2.3357 | 2.4139 | 2.3737 | Ave           |             | 2.290<br>5 |    |        |         | 6.2  |   | 20.0        |               |   |                   |
| tert-Butylbenzene           | 0.5276<br>0.6258 | 0.5029<br>0.6409 | 0.5966<br>0.6426 | 0.6593 | 0.6637 | Ave           |             | 0.607<br>4 |    |        |         | 10.0 |   | 20.0        |               |   |                   |
| 1,2,4-Trimethylbenzene      | 2.5852<br>2.7320 | 2.2826<br>2.7442 | 2.6899<br>2.7525 | 2.8539 | 2.8559 | Ave           |             | 2.687<br>0 |    |        |         | 6.9  |   | 20.0        |               |   |                   |
| sec-Butylbenzene            | 3.2606<br>3.4493 | 2.7871<br>3.4784 | 3.3971<br>3.4480 | 3.6206 | 3.5839 | Ave           |             | 3.378<br>1 |    |        |         | 7.8  |   | 20.0        |               |   |                   |
| 4-Isopropyltoluene          | 2.7301<br>3.0182 | 2.4027<br>3.0553 | 2.9235<br>2.9996 | 3.1382 | 3.1523 | Ave           |             | 2.927<br>5 |    |        |         | 8.6  |   | 20.0        |               |   |                   |
| 1,3-Dichlorobenzene         | 1.6476<br>1.5570 | 1.4129<br>1.5552 | 1.6489<br>1.5856 | 1.6973 | 1.6710 | Ave           |             | 1.596<br>9 |    | 0.6000 |         | 5.7  |   | 20.0        |               |   |                   |
| 1,4-Dichlorobenzene         | 1.7466<br>1.5843 | 1.5118<br>1.5863 | 1.7034<br>1.6139 | 1.7167 | 1.6994 | Ave           |             | 1.645<br>3 |    | 0.5000 |         | 5.0  |   | 20.0        |               |   |                   |
| n-Butylbenzene              | 2.5072<br>2.6567 | 2.1814<br>2.6769 | 2.6239<br>2.6283 | 2.7988 | 2.7559 | Ave           |             | 2.603<br>6 |    |        |         | 7.4  |   | 20.0        |               |   |                   |
| 1,2-Dichlorobenzene         | 1.6574<br>1.5249 | 1.4472<br>1.5306 | 1.6232<br>1.5253 | 1.6709 | 1.6448 | Ave           |             | 1.578<br>0 |    | 0.4000 |         | 5.2  |   | 20.0        |               |   |                   |
| 1,2-Dibromo-3-Chloropropane | +++++<br>0.2226  | 0.1803<br>0.2265 | 0.1942<br>0.2153 | 0.1984 | 0.2214 | Ave           |             | 0.208<br>4 |    | 0.0500 |         | 8.4  |   | 20.0        |               |   |                   |
| 1,2,4-Trichlorobenzene      | 1.3013<br>1.1979 | 1.1086<br>1.1925 | 1.1351<br>1.0928 | 1.2067 | 1.2436 | Ave           |             | 1.184<br>8 |    | 0.2000 |         | 5.9  |   | 20.0        |               |   |                   |
| Hexachlorobutadiene         | 0.4422<br>0.5432 | 0.4463<br>0.5429 | 0.5352<br>0.4974 | 0.5455 | 0.5540 | Ave           |             | 0.513<br>3 |    |        |         | 8.9  |   | 20.0        |               |   |                   |
| Naphthalene                 | 3.7410<br>3.8596 | 3.2751<br>3.7679 | 3.5784<br>3.3457 | 3.7371 | 3.9175 | Ave           |             | 3.652<br>8 |    |        |         | 6.4  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                      | RRF              |                  |                  |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|------------------------------|------------------|------------------|------------------|--------|--------|---------------|-------------|------------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                              | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |               | B           | M1         | M2 |   |         |      |   |             |               |   |                   |
|                              | LVL 6            | LVL 7            | LVL 8            |        |        |               |             |            |    |   |         |      |   |             |               |   |                   |
| 1,2,3-Trichlorobenzene       | 1.1113<br>1.1721 | 1.0069<br>1.1466 | 1.1497<br>1.0223 | 1.1823 | 1.1845 | Ave           |             | 1.122<br>0 |    |   |         | 6.3  |   | 20.0        |               |   |                   |
| Dibromofluoromethane (Surr)  | 1.2096<br>1.2818 | 1.2618<br>1.3072 | 1.2710<br>1.3048 | 1.2436 | 1.2758 | Ave           |             | 1.269<br>5 |    |   |         | 2.5  |   | 20.0        |               |   |                   |
| 1,2-Dichloroethane-d4 (Surr) | 1.4225<br>1.4343 | 1.4706<br>1.4296 | 1.4841<br>1.4024 | 1.4252 | 1.4366 | Ave           |             | 1.438<br>2 |    |   |         | 1.8  |   | 20.0        |               |   |                   |
| Toluene-d8 (Surr)            | 1.2559<br>1.2280 | 1.2562<br>1.2277 | 1.2680<br>1.2419 | 1.2420 | 1.2645 | Ave           |             | 1.248<br>0 |    |   |         | 1.2  |   | 20.0        |               |   |                   |
| 4-Bromofluorobenzene (Surr)  | 0.3927<br>0.3959 | 0.3932<br>0.3895 | 0.3943<br>0.3907 | 0.3888 | 0.3799 | Ave           |             | 0.390<br>6 |    |   |         | 1.3  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

Calibration Files

|         |                    |              |
|---------|--------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:     | LAB FILE ID: |
| Level 1 | IC 480-632802/9    | L18025.D     |
| Level 2 | IC 480-632802/10   | L18026.D     |
| Level 3 | IC 480-632802/11   | L18027.D     |
| Level 4 | IC 480-632802/12   | L18028.D     |
| Level 5 | IC 480-632802/13   | L18029.D     |
| Level 6 | ICIS 480-632802/14 | L18030.D     |
| Level 7 | IC 480-632802/15   | L18031.D     |
| Level 8 | IC 480-632802/16   | L18032.D     |

| ANALYTE                               | IS<br>REF | CURVE<br>TYPE | RESPONSE        |                 |                  |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|---------------------------------------|-----------|---------------|-----------------|-----------------|------------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                                       |           |               | LVL 1<br>LVL 6  | LVL 2<br>LVL 7  | LVL 3<br>LVL 8   | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane               | FB        | Ave           | +++++<br>272903 | 9599<br>556311  | 19741<br>1095476 | 54763  | 92212  | +++++<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Chloromethane                         | FB        | Ave           | 4578<br>232459  | 10001<br>458897 | 19939<br>921906  | 49126  | 92241  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Vinyl chloride                        | FB        | Ave           | 3649<br>234548  | 8962<br>467187  | 18817<br>926206  | 48028  | 89174  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Butadiene                             | FB        | Ave           | 2889<br>192176  | 7037<br>390244  | 15272<br>756068  | 40024  | 69214  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Bromomethane                          | FB        | Ave           | +++++<br>165184 | 6082<br>331515  | 14760<br>658420  | 37345  | 71228  | +++++<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Chloroethane                          | FB        | Ave           | +++++<br>133927 | 6161<br>274536  | 11298<br>534290  | 29836  | 56647  | +++++<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Dichlorofluoromethane                 | FB        | Ave           | +++++<br>307530 | 13980<br>614283 | 26582<br>1229604 | 66052  | 125167 | +++++<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Trichlorofluoromethane                | FB        | Ave           | +++++<br>305218 | 10904<br>629906 | 23552<br>1264937 | 62382  | 112074 | +++++<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Ethyl ether                           | FB        | Ave           | 3156<br>192353  | 7837<br>387538  | 16447<br>750232  | 41643  | 78509  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Acrolein                              | FB        | Ave           | 3102<br>193928  | 8124<br>398607  | 16463<br>690604  | 42656  | 83159  | 2.00<br>125          | 5.00<br>250    | 10.0<br>500    | 25.0  | 50.0  |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | FB        | Ave           | 2743<br>204558  | 6972<br>408956  | 16194<br>805456  | 42323  | 76780  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 1,1-Dichloroethene                    | FB        | Ave           | 3022<br>197433  | 6385<br>391635  | 16036<br>769891  | 40741  | 76399  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Acetone                               | FB        | Ave           | +++++<br>19904  | 19904           | 42321            | 102026 | 199986 | +++++<br>5.00        | 5.00           | 10.0           | 25.0  | 50.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                  | IS<br>REF | CURVE<br>TYPE | RESPONSE         |                  |                   |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|--------------------------|-----------|---------------|------------------|------------------|-------------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                          |           |               | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8    | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
|                          |           |               | 415832           | 846395           | 1403778           |        |        | 125                  | 250            | 500            |       |       |
| Iodomethane              | FB        | Ave           | 5170<br>354308   | 13328<br>708678  | 28427<br>1391599  | 75265  | 142394 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Carbon disulfide         | FB        | Ave           | 7730<br>550957   | 17987<br>1157011 | 40511<br>2332168  | 109222 | 213002 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Allyl chloride           | FB        | Ave           | 5495<br>301034   | 10738<br>594807  | 24285<br>1112626  | 62472  | 118222 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Methyl acetate           | FB        | Ave           | ++++<br>504868   | 22786<br>1027828 | 46649<br>1725350  | 109700 | 211498 | ++++<br>50.0         | 2.00<br>100    | 4.00<br>200    | 10.0  | 20.0  |
| Methylene Chloride       | FB        | Lin1          | 7338<br>240984   | 11822<br>473314  | 23208<br>913251   | 54321  | 100184 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 2-Methyl-2-propanol      | FB        | Ave           | 6657<br>368945   | 16081<br>753702  | 36473<br>1148677  | 94100  | 185489 | 4.00<br>250          | 10.0<br>500    | 20.0<br>1000   | 50.0  | 100   |
| Methyl tert-butyl ether  | FB        | Ave           | 12856<br>739747  | 29946<br>1473343 | 61988<br>2752815  | 160115 | 306796 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| trans-1,2-Dichloroethene | FB        | Ave           | 3480<br>237860   | 8734<br>475647   | 19294<br>915055   | 51538  | 94668  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Acrylonitrile            | FB        | Ave           | 22656<br>1235033 | 52747<br>2386134 | 113052<br>4028005 | 281648 | 546333 | 4.00<br>250          | 10.0<br>500    | 20.0<br>1000   | 50.0  | 100   |
| Hexane                   | FB        | Ave           | 5339<br>314585   | 11070<br>619325  | 26592<br>1168391  | 67326  | 121755 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 1,1-Dichloroethane       | FB        | Ave           | 6318<br>381793   | 14325<br>750992  | 31748<br>1428491  | 81938  | 154472 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Vinyl acetate            | FB        | Ave           | 15880<br>1008965 | 35278<br>2033591 | 77001<br>3828478  | 205207 | 404657 | 0.800<br>50.0        | 2.00<br>100    | 4.00<br>200    | 10.0  | 20.0  |
| 2,2-Dichloropropane      | FB        | Ave           | 3894<br>228434   | 8846<br>444102   | 19686<br>817375   | 49653  | 92026  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| cis-1,2-Dichloroethene   | FB        | Ave           | 4257<br>264444   | 9974<br>519600   | 22080<br>1006680  | 56316  | 106117 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 2-Butanone (MEK)         | FB        | Ave           | 16125<br>821125  | 33711<br>1625785 | 73463<br>2863561  | 186427 | 357887 | 2.00<br>125          | 5.00<br>250    | 10.0<br>500    | 25.0  | 50.0  |
| Chlorobromomethane       | FB        | Ave           | 2208<br>142826   | 4983<br>279472   | 11452<br>538652   | 30500  | 57648  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Tetrahydrofuran          | FB        | Ave           | 4529<br>226675   | 10028<br>450079  | 20611<br>775986   | 52290  | 100359 | 0.800<br>50.0        | 2.00<br>100    | 4.00<br>200    | 10.0  | 20.0  |
| Chloroform               | FB        | Ave           | ++++             | 16181            | 35235             | 87908  | 166483 | ++++                 | 1.00           | 2.00           | 5.00  | 10.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                     | IS<br>REF  | CURVE<br>TYPE | RESPONSE        |                  |                  |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|-----------------------------|------------|---------------|-----------------|------------------|------------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                             |            |               | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
|                             |            |               | 407133          | 795494           | 1530077          |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,1,1-Trichloroethane       | FB         | Ave           | 4940<br>343668  | 11798<br>687449  | 27341<br>1334623 | 73205  | 135653 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Cyclohexane                 | FB         | Ave           | 5822<br>371128  | 12069<br>730283  | 29577<br>1392491 | 79363  | 144008 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Carbon tetrachloride        | FB         | Ave           | 4100<br>289466  | 9127<br>591574   | 23006<br>1165739 | 58992  | 109484 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 1,1-Dichloropropene         | FB         | Ave           | 4939<br>319837  | 11260<br>628307  | 26843<br>1210740 | 68660  | 126956 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Isobutyl alcohol            | FB         | Ave           | 7894<br>487145  | 18852<br>907423  | 38900<br>1364497 | 98882  | 201459 | 10.0<br>625          | 25.0<br>1250   | 50.0<br>2500   | 125   | 250   |
| Benzene                     | FB         | Ave           | 16837<br>940393 | 35988<br>1827251 | 80554<br>3491877 | 202860 | 381800 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 1,2-Dichloroethane          | FB         | Ave           | 5910<br>315455  | 12956<br>614421  | 27987<br>1162449 | 70571  | 132570 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| n-Heptane                   | FB         | Ave           | 6737<br>357692  | 13068<br>678667  | 30151<br>1323784 | 74624  | 130432 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Trichloroethene             | FB         | Ave           | 4071<br>250878  | 8993<br>493705   | 20963<br>959923  | 52910  | 97842  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Methylcyclohexane           | FB         | Ave           | 5930<br>415881  | 13535<br>831609  | 33644<br>1608817 | 87772  | 159244 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 1,2-Dichloropropane         | FB         | Ave           | 3531<br>229011  | 8315<br>449880   | 19110<br>864872  | 49129  | 91535  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 1,4-Dioxane                 | CBNZ<br>d5 | Ave           | +++++<br>77464  | +++++<br>129271  | 4188<br>205301   | 13032  | 27598  | +++++<br>500         | +++++<br>1000  | 40.0<br>2000   | 100   | 200   |
| Dibromomethane              | FB         | Ave           | 2524<br>161718  | 6283<br>320440   | 13060<br>612437  | 34261  | 65523  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| Bromodichloromethane        | FB         | Ave           | 3975<br>290934  | 10180<br>593830  | 21700<br>1174619 | 56754  | 112585 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 2-Chloroethyl vinyl ether   | FB         | Ave           | 2824<br>194945  | 6165<br>385730   | 14447<br>746971  | 37970  | 74683  | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| cis-1,3-Dichloropropene     | FB         | Ave           | 5396<br>389845  | 12800<br>788381  | 28443<br>1550766 | 77429  | 150179 | 0.400<br>25.0        | 1.00<br>50.0   | 2.00<br>100    | 5.00  | 10.0  |
| 4-Methyl-2-pentanone (MIBK) | CBNZ<br>d5 | Ave           | 28939           | 64170            | 138232           | 355660 | 687608 | 2.00                 | 5.00           | 10.0           | 25.0  | 50.0  |



FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                   | IS<br>REF  | CURVE<br>TYPE | RESPONSE       |                |                |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|---------------------------|------------|---------------|----------------|----------------|----------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                           |            |               | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
|                           |            |               | 1712107        | 3278895        | 5758415        |        |        | 125                  | 250            | 500            |       |       |
| Toluene                   | CBNZ<br>d5 | Ave           | 10693          | 21987          | 51564          | 130933 | 241973 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 611342         | 1201013        | 2316079        |        |        | 25.0                 | 50.0           | 100            |       |       |
| trans-1,3-Dichloropropene | CBNZ<br>d5 | Ave           | 4903           | 11305          | 26000          | 69149  | 136766 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 363747         | 736032         | 1439385        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Ethyl methacrylate        | CBNZ<br>d5 | Ave           | 5347           | 11986          | 27550          | 72791  | 142520 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 378154         | 752280         | 1438769        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,1,2-Trichloroethane     | CBNZ<br>d5 | Ave           | 3101           | 7034           | 15896          | 41262  | 77231  | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 195438         | 382997         | 729338         |        |        | 25.0                 | 50.0           | 100            |       |       |
| Tetrachloroethene         | CBNZ<br>d5 | Ave           | 4489           | 9707           | 23275          | 59853  | 107142 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 275857         | 541698         | 1048008        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,3-Dichloropropane       | CBNZ<br>d5 | Ave           | 7111           | 15246          | 34554          | 86600  | 164981 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 411316         | 804212         | 1532207        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 2-Hexanone                | CBNZ<br>d5 | Ave           | 20041          | 44376          | 95605          | 253552 | 488158 | 2.00                 | 5.00           | 10.0           | 25.0  | 50.0  |
|                           |            |               | 1233913        | 2353175        | 4227869        |        |        | 125                  | 250            | 500            |       |       |
| Dibromochloromethane      | CBNZ<br>d5 | Ave           | 3086           | 6982           | 15320          | 42833  | 83833  | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 229035         | 482215         | 970534         |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,2-Dibromoethane         | CBNZ<br>d5 | Ave           | 4050           | 9093           | 20181          | 52960  | 102811 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 261069         | 513784         | 985619         |        |        | 25.0                 | 50.0           | 100            |       |       |
| Chlorobenzene             | CBNZ<br>d5 | Ave           | 11515          | 25287          | 57628          | 147787 | 275515 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 698378         | 1376979        | 2655473        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Ethylbenzene              | CBNZ<br>d5 | Ave           | 18366          | 40110          | 90853          | 238282 | 441702 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                           |            |               | 1134922        | 2229161        | 4259844        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,1,1,2-Tetrachloroethane | CBNZ<br>d5 | Ave           | 3357           | 7839           | 17834          | 47476  | 92463  | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                     | IS REF     | CURVE TYPE | RESPONSE       |                |                |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|-----------------------------|------------|------------|----------------|----------------|----------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                             |            |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
|                             |            |            | 242165         | 490837         | 937136         |        |        | 25.0                 | 50.0           | 100            |       |       |
| m,p-Xylene                  | CBNZ<br>d5 | Ave        | 6964           | 15428          | 36628          | 95853  | 177242 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |            | 448973         | 889882         | 1712613        |        |        | 25.0                 | 50.0           | 100            |       |       |
| o-Xylene                    | CBNZ<br>d5 | Ave        | 7100           | 14823          | 36098          | 92743  | 175211 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |            | 444832         | 871927         | 1654780        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Styrene                     | CBNZ<br>d5 | Ave        | 11375          | 24600          | 57284          | 152580 | 293799 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |            | 760420         | 1491537        | 2834473        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Bromoform                   | CBNZ<br>d5 | Ave        | +++++          | 4703           | 10424          | 29754  | 58644  | +++++                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |            | 162326         | 352521         | +++++          |        |        | 25.0                 | 50.0           | +++++          |       |       |
| Isopropylbenzene            | DCBd<br>4  | Ave        | 18018          | 38814          | 93090          | 241286 | 455766 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |            | 1160174        | 2290441        | 4292630        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Bromobenzene                | DCBd<br>4  | Ave        | 4858           | 10766          | 24252          | 62474  | 118816 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |            | 297344         | 587601         | 1108547        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,1,2,2-Tetrachloroethane   | DCBd<br>4  | Ave        | 6029           | 13824          | 29575          | 75882  | 147055 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |            | 367842         | 718495         | 1289303        |        |        | 25.0                 | 50.0           | 100            |       |       |
| N-Propylbenzene             | DCBd<br>4  | Ave        | 21149          | 45444          | 108625         | 281845 | 529326 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |            | 1349283        | 2637719        | 4905030        |        |        | 25.0                 | 50.0           | 100            |       |       |
| trans-1,4-Dichloro-2-butene | DCBd<br>4  | Ave        | 1351           | 3155           | 7661           | 21379  | 41940  | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |            | 106989         | 210600         | 386362         |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,2,3-Trichloropropane      | DCBd<br>4  | Ave        | 2251           | 4962           | 10641          | 27858  | 51610  | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |            | 129459         | 251499         | 443642         |        |        | 25.0                 | 50.0           | 100            |       |       |
| 2-Chlorotoluene             | DCBd<br>4  | Ave        | 4132           | 10001          | 22789          | 57798  | 110717 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |            |            | 278169         | 549694         | 1028224        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,3,5-Trimethylbenzene      | DCBd<br>4  | Ave        | 14209          | 32264          | 76260          | 200737 | 379970 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                     | IS<br>REF | CURVE<br>TYPE | RESPONSE       |                |                |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|-----------------------------|-----------|---------------|----------------|----------------|----------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                             |           |               | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
|                             |           |               | 967945         | 1899076        | 3464716        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 4-Chlorotoluene             | DCBd<br>4 | Ave           | 13585          | 28830          | 68356          | 174173 | 323534 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 817779         | 1590362        | 2986711        |        |        | 25.0                 | 50.0           | 100            |       |       |
| tert-Butylbenzene           | DCBd<br>4 | Ave           | 3041           | 7365           | 17216          | 47571  | 90460  | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 227315         | 451843         | 821674         |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,2,4-Trimethylbenzene      | DCBd<br>4 | Ave           | 14902          | 33430          | 77622          | 205917 | 389250 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 992438         | 1934726        | 3519807        |        |        | 25.0                 | 50.0           | 100            |       |       |
| sec-Butylbenzene            | DCBd<br>4 | Ave           | 18795          | 40819          | 98029          | 261239 | 488472 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 1253012        | 2452379        | 4409071        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 4-Isopropyltoluene          | DCBd<br>4 | Ave           | 15737          | 35190          | 84363          | 226434 | 429649 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 1096414        | 2154078        | 3835676        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,3-Dichlorobenzene         | DCBd<br>4 | Ave           | 9497           | 20693          | 47581          | 122469 | 227749 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 565607         | 1096462        | 2027579        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,4-Dichlorobenzene         | DCBd<br>4 | Ave           | 10068          | 22141          | 49155          | 123864 | 231625 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 575519         | 1118390        | 2063825        |        |        | 25.0                 | 50.0           | 100            |       |       |
| n-Butylbenzene              | DCBd<br>4 | Ave           | 14452          | 31949          | 75716          | 201941 | 375618 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 965093         | 1887289        | 3360943        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,2-Dichlorobenzene         | DCBd<br>4 | Ave           | 9554           | 21196          | 46841          | 120559 | 224185 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 553948         | 1079101        | 1950482        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,2-Dibromo-3-Chloropropane | DCBd<br>4 | Ave           | +++++          | 2640           | 5604           | 14315  | 30182  | +++++                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 80880          | 159680         | 275308         |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,2,4-Trichlorobenzene      | DCBd<br>4 | Ave           | 7501           | 16237          | 32756          | 87071  | 169497 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                             |           |               | 435152         | 840757         | 1397428        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Hexachlorobutadiene         | DCBd<br>4 | Ave           | 2549           | 6536           | 15444          | 39358  | 75510  | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                      | IS<br>REF  | CURVE<br>TYPE | RESPONSE       |                |                |        |        | CONCENTRATION (UG/L) |                |                |       |       |
|------------------------------|------------|---------------|----------------|----------------|----------------|--------|--------|----------------------|----------------|----------------|-------|-------|
|                              |            |               | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
|                              |            |               | 197321         | 382785         | 636037         |        |        | 25.0                 | 50.0           | 100            |       |       |
| Naphthalene                  | DCBd<br>4  | Ave           | 21564          | 47966          | 103259         | 269648 | 533943 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                              |            |               | 1402079        | 2656484        | 4278261        |        |        | 25.0                 | 50.0           | 100            |       |       |
| 1,2,3-Trichlorobenzene       | DCBd<br>4  | Ave           | 6406           | 14747          | 33177          | 85305  | 161441 | 0.400                | 1.00           | 2.00           | 5.00  | 10.0  |
|                              |            |               | 425790         | 808356         | 1307272        |        |        | 25.0                 | 50.0           | 100            |       |       |
| Dibromofluoromethane (Surr)  | FB         | Ave           | 208861         | 222377         | 217330         | 214683 | 215748 | 25.0                 | 25.0           | 25.0           | 25.0  | 25.0  |
|                              |            |               | 213710         | 216246         | 203589         |        |        | 25.0                 | 25.0           | 25.0           |       |       |
| 1,2-Dichloroethane-d4 (Surr) | FB         | Ave           | 245628         | 259182         | 253774         | 246020 | 242944 | 25.0                 | 25.0           | 25.0           | 25.0  | 25.0  |
|                              |            |               | 239142         | 236490         | 218817         |        |        | 25.0                 | 25.0           | 25.0           |       |       |
| Toluene-d8 (Surr)            | CBNZ<br>d5 | Ave           | 843471         | 855528         | 848133         | 835367 | 827677 | 25.0                 | 25.0           | 25.0           | 25.0  | 25.0  |
|                              |            |               | 833899         | 831929         | 790627         |        |        | 25.0                 | 25.0           | 25.0           |       |       |
| 4-Bromofluorobenzene (Surr)  | CBNZ<br>d5 | Ave           | 263727         | 267789         | 263735         | 261503 | 248644 | 25.0                 | 25.0           | 25.0           | 25.0  | 25.0  |
|                              |            |               | 268811         | 263934         | 248726         |        |        | 25.0                 | 25.0           | 25.0           |       |       |

Curve Type Legend

Ave = Average ISTD  
Lin1 = Linear 1/conc ISTD

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

Calibration Files

|         |                    |              |
|---------|--------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:     | LAB FILE ID: |
| Level 1 | IC 480-632802/9    | L18025.D     |
| Level 2 | IC 480-632802/10   | L18026.D     |
| Level 3 | IC 480-632802/11   | L18027.D     |
| Level 4 | IC 480-632802/12   | L18028.D     |
| Level 5 | IC 480-632802/13   | L18029.D     |
| Level 6 | ICIS 480-632802/14 | L18030.D     |
| Level 7 | IC 480-632802/15   | L18031.D     |
| Level 8 | IC 480-632802/16   | L18032.D     |

| ANALYTE                               | PERCENT ERROR |         |         |         |         |         | PERCENT ERROR LIMIT |       |       |       |       |       |
|---------------------------------------|---------------|---------|---------|---------|---------|---------|---------------------|-------|-------|-------|-------|-------|
|                                       | LVL 1 #       | LVL 2 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1               | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
|                                       | LVL 7 #       | LVL 8 # |         |         |         |         | LVL 7               | LVL 8 |       |       |       |       |
| Dichlorodifluoromethane               | +++++         | -12.0   |         |         |         |         |                     | 30    |       |       |       |       |
| Chloromethane                         | 14.5          |         |         |         |         |         | 30                  |       |       |       |       |       |
| Vinyl chloride                        | -3.8          |         |         |         |         |         | 30                  |       |       |       |       |       |
| Butadiene                             | -5.9          |         |         |         |         |         | 30                  |       |       |       |       |       |
| Bromomethane                          | +++++         | -15.2   |         |         |         |         |                     | 30    |       |       |       |       |
| Chloroethane                          | +++++         | 3.9     |         |         |         |         |                     | 30    |       |       |       |       |
| Dichlorofluoromethane                 | +++++         | 3.9     |         |         |         |         |                     | 30    |       |       |       |       |
| Trichlorofluoromethane                | +++++         | -13.3   |         |         |         |         |                     | 30    |       |       |       |       |
| Ethyl ether                           | -2.3          |         |         |         |         |         | 30                  |       |       |       |       |       |
| Acrolein                              | -4.6          |         |         |         |         |         | 30                  |       |       |       |       |       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | -14.4         |         |         |         |         |         | 30                  |       |       |       |       |       |
| 1,1-Dichloroethene                    | -3.7          |         |         |         |         |         | 30                  |       |       |       |       |       |
| Acetone                               | +++++         | 3.3     |         |         |         |         |                     | 30    |       |       |       |       |
| Iodomethane                           | -9.9          |         |         |         |         |         | 30                  |       |       |       |       |       |
| Carbon disulfide                      | -11.0         |         |         |         |         |         | 30                  |       |       |       |       |       |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                  | PERCENT ERROR      |                    |         |         |         |         | PERCENT ERROR LIMIT |                |       |       |       |       |
|--------------------------|--------------------|--------------------|---------|---------|---------|---------|---------------------|----------------|-------|-------|-------|-------|
|                          | LVL 1 #<br>LVL 7 # | LVL 2 #<br>LVL 8 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1<br>LVL 7      | LVL 2<br>LVL 8 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
| Allyl chloride           | 11.8               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Methyl acetate           | +++++              | 3.6                |         |         |         |         |                     | 30             |       |       |       |       |
| Methylene Chloride       | 9.9                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 2-Methyl-2-propanol      | 0.6                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Methyl tert-butyl ether  | 3.7                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| trans-1,2-Dichloroethene | -9.5               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Acrylonitrile            | 7.1                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Hexane                   | 4.3                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,1-Dichloroethane       | 0.8                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Vinyl acetate            | -1.4               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 2,2-Dichloropropane      | 3.2                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| cis-1,2-Dichloroethene   | -1.7               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 2-Butanone (MEK)         | 13.6               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Chlorobromomethane       | -3.8               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Tetrahydrofuran          | 13.7               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Chloroform               | +++++              | -6.5               |         |         |         |         |                     | 30             |       |       |       |       |
| 1,1,1-Trichloroethane    | -9.8               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Cyclohexane              | -1.3               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Carbon tetrachloride     | -9.9               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,1-Dichloropropene      | -4.5               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Isobutyl alcohol         | 3.6                |                    |         |         |         |         | 30                  |                |       |       |       |       |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                     | PERCENT ERROR      |                    |         |         |         |         | PERCENT ERROR LIMIT |                |       |       |       |       |
|-----------------------------|--------------------|--------------------|---------|---------|---------|---------|---------------------|----------------|-------|-------|-------|-------|
|                             | LVL 1 #<br>LVL 7 # | LVL 2 #<br>LVL 8 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1<br>LVL 7      | LVL 2<br>LVL 8 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
| Benzene                     | 7.5                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2-Dichloroethane          | 9.4                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| n-Heptane                   | 15.4               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Trichloroethene             | -0.1               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Methylcyclohexane           | -9.7               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2-Dichloropropane         | -4.9               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,4-Dioxane                 | +++++              | +++++              | -17.7   |         |         |         |                     |                | 30    |       |       |       |
| Dibromomethane              | -4.3               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Bromodichloromethane        | -12.8              |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 2-Chloroethyl vinyl ether   | -5.9               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| cis-1,3-Dichloropropene     | -10.8              |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 4-Methyl-2-pentanone (MIBK) | 7.2                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Toluene                     | 8.2                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| trans-1,3-Dichloropropene   | -9.6               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Ethyl methacrylate          | -5.6               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,1,2-Trichloroethane       | 0.3                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Tetrachloroethene           | 1.9                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,3-Dichloropropane         | 7.1                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 2-Hexanone                  | 4.8                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Dibromochloromethane        | -9.6               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2-Dibromoethane           | -0.3               |                    |         |         |         |         | 30                  |                |       |       |       |       |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                     | PERCENT ERROR      |                    |         |         |         |         | PERCENT ERROR LIMIT |                |       |       |       |       |
|-----------------------------|--------------------|--------------------|---------|---------|---------|---------|---------------------|----------------|-------|-------|-------|-------|
|                             | LVL 1 #<br>LVL 7 # | LVL 2 #<br>LVL 8 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1<br>LVL 7      | LVL 2<br>LVL 8 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
| Chlorobenzene               | 3.1                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Ethylbenzene                | 2.6                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,1,1,2-Tetrachloroethane   | -8.3               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| m,p-Xylene                  | -1.8               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| o-Xylene                    | 1.9                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Styrene                     | -1.8               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Bromoform                   | +++++              | -21.0<br>+++++     |         |         |         |         |                     | 30             |       |       |       |       |
| Isopropylbenzene            | -1.9               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Bromobenzene                | 1.0                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,1,2,2-Tetrachloroethane   | 2.2                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| N-Propylbenzene             | -0.9               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| trans-1,4-Dichloro-2-butene | -15.3              |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2,3-Trichloropropane      | 6.9                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 2-Chlorotoluene             | -6.8               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,3,5-Trimethylbenzene      | -5.9               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 4-Chlorotoluene             | 2.9                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| tert-Butylbenzene           | -13.1              |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2,4-Trimethylbenzene      | -3.8               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| sec-Butylbenzene            | -3.5               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 4-Isopropyltoluene          | -6.7               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,3-Dichlorobenzene         | 3.2                |                    |         |         |         |         | 30                  |                |       |       |       |       |



FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-200570-1 Analy Batch No.: 632802

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2022 12:02 Calibration End Date: 07/07/2022 15:16 Calibration ID: 43653

| ANALYTE                      | PERCENT ERROR      |                    |         |         |         |         | PERCENT ERROR LIMIT |                |       |       |       |       |
|------------------------------|--------------------|--------------------|---------|---------|---------|---------|---------------------|----------------|-------|-------|-------|-------|
|                              | LVL 1 #<br>LVL 7 # | LVL 2 #<br>LVL 8 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1<br>LVL 7      | LVL 2<br>LVL 8 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
| 1,4-Dichlorobenzene          | 6.2                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| n-Butylbenzene               | -3.7               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2-Dichlorobenzene          | 5.0                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2-Dibromo-3-Chloropropane  | ++++               | -13.5              |         |         |         |         |                     | 30             |       |       |       |       |
| 1,2,4-Trichlorobenzene       | 9.8                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Hexachlorobutadiene          | -13.9              |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Naphthalene                  | 2.4                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2,3-Trichlorobenzene       | -0.9               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Dibromofluoromethane (Surr)  | -4.7               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 1,2-Dichloroethane-d4 (Surr) | -1.1               |                    |         |         |         |         | 30                  |                |       |       |       |       |
| Toluene-d8 (Surr)            | 0.6                |                    |         |         |         |         | 30                  |                |       |       |       |       |
| 4-Bromofluorobenzene (Surr)  | 0.5                |                    |         |         |         |         | 30                  |                |       |       |       |       |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D  
 Lims ID: IC 0.4  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 07-Jul-2022 12:02:53 ALS Bottle#: 0 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC 0.4  
 Misc. Info.: 480-0106458-009  
 Operator ID: LH Instrument ID: HP5977L  
 Sublist: chrom-L-8260\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 11-Jul-2022 12:21:39 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1661

First Level Reviewer: WLL8

Date: 07-Jul-2022 12:54:36

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.776            | 0.000            | 99 | 172673   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.670        | 8.667            | 0.003            | 84 | 671593   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.065       | 11.065           | 0.000            | 94 | 360269   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226        | 5.226            | 0.000            | 94 | 208861   | 25.0            | 23.8              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.525        | 5.525            | 0.000            | 97 | 245628   | 25.0            | 24.7              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.204        | 7.204            | 0.000            | 92 | 843471   | 25.0            | 25.2              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911        | 9.911            | 0.000            | 99 | 263727   | 25.0            | 25.1              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.773        | 1.770            | 0.003            | 90 | 3457     | 0.4000          | 0.3236            |       |
| 13 Chloromethane                         | 50  | 2.011        | 2.011            | 0.000            | 91 | 4578     | 0.4000          | 0.4580            |       |
| 14 Vinyl chloride                        | 62  | 2.110        | 2.114            | -0.004           | 92 | 3649     | 0.4000          | 0.3849            |       |
| 15 Butadiene                             | 54  | 2.130        | 2.136            | -0.006           | 81 | 2889     | 0.4000          | 0.3766            | M     |
| 18 Bromomethane                          | 94  | 2.493        | 2.483            | 0.010            | 72 | 3451     | 0.4000          | 0.4909            | M     |
| 19 Chloroethane                          | 64  | 2.554        | 2.557            | -0.003           | 80 | 2924     | 0.4000          | 0.5031            |       |
| 20 Dichlorofluoromethane                 | 67  | 2.770        | 2.773            | -0.003           | 85 | 6589     | 0.4000          | 0.4998            |       |
| 21 Trichlorofluoromethane                | 101 | 2.770        | 2.779            | -0.009           | 78 | 4066     | 0.4000          | 0.3298            |       |
| 26 Ethyl ether                           | 59  | 3.027        | 3.030            | -0.003           | 90 | 3156     | 0.4000          | 0.3909            |       |
| 28 Acrolein                              | 56  | 3.220        | 3.213            | 0.007            | 94 | 3102     | 2.00            | 1.91              |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.236        | 3.242            | -0.006           | 0  | 2743     | 0.4000          | 0.3424            | M     |
| 30 1,1-Dichloroethene                    | 96  | 3.252        | 3.262            | -0.010           | 89 | 3022     | 0.4000          | 0.3854            |       |
| 31 Acetone                               | 43  | 3.361        | 3.358            | 0.003            | 99 | 10267    | 2.00            | 2.72              |       |
| 33 Iodomethane                           | 142 | 3.445        | 3.445            | 0.000            | 67 | 5170     | 0.4000          | 0.3603            |       |
| 35 Carbon disulfide                      | 76  | 3.474        | 3.480            | -0.006           | 0  | 7730     | 0.4000          | 0.3558            | M     |
| 37 3-Chloro-1-propene                    | 41  | 3.593        | 3.586            | 0.007            | 0  | 5495     | 0.4000          | 0.4472            | M     |
| 38 Methyl acetate                        | 43  | 3.615        | 3.615            | 0.000            | 98 | 11207    | 0.8000          | 1.04              |       |
| 39 Methylene Chloride                    | 84  | 3.721        | 3.721            | 0.000            | 82 | 7338     | 0.4000          | 0.4397            |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.840        | 3.844            | -0.004           | 96 | 6657     | 4.00            | 4.03              |       |
| 41 Methyl tert-butyl ether               | 73  | 3.901        | 3.901            | 0.000            | 93 | 12856    | 0.4000          | 0.4147            |       |
| 42 trans-1,2-Dichloroethene              | 96  | 3.927        | 3.927            | 0.000            | 96 | 3480     | 0.4000          | 0.3621            |       |
| 44 Acrylonitrile                         | 53  | 3.975        | 3.972            | 0.003            | 97 | 22656    | 4.00            | 4.28              |       |
| 47 Hexane                                | 57  | 4.078        | 4.081            | -0.003           | 0  | 5339     | 0.4000          | 0.4171            | M     |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 50 1,1-Dichloroethane           | 63  | 4.303     | 4.307         | -0.004        | 92 | 6318     | 0.4000       | 0.4033         |       |
| 49 Vinyl acetate                | 43  | 4.329     | 4.323         | 0.006         | 97 | 15880    | 0.8000       | 0.7887         |       |
| 56 2,2-Dichloropropane          | 77  | 4.773     | 4.779         | -0.006        | 0  | 3894     | 0.4000       | 0.4129         | M     |
| 58 cis-1,2-Dichloroethene       | 96  | 4.808     | 4.808         | 0.000         | 76 | 4257     | 0.4000       | 0.3932         |       |
| 57 2-Butanone (MEK)             | 43  | 4.831     | 4.824         | 0.007         | 99 | 16125    | 2.00         | 2.27           |       |
| 60 Chlorobromomethane           | 128 | 5.027     | 5.030         | -0.003        | 82 | 2208     | 0.4000       | 0.3850         |       |
| 61 Tetrahydrofuran              | 42  | 5.059     | 5.056         | 0.003         | 88 | 4529     | 0.8000       | 0.9099         |       |
| 62 Chloroform                   | 83  | 5.081     | 5.078         | 0.003         | 89 | 8026     | 0.4000       | 0.4736         |       |
| 64 1,1,1-Trichloroethane        | 97  | 5.207     | 5.207         | 0.000         | 91 | 4940     | 0.4000       | 0.3607         |       |
| 65 Cyclohexane                  | 56  | 5.229     | 5.223         | 0.006         | 51 | 5822     | 0.4000       | 0.3950         |       |
| 66 Carbon tetrachloride         | 117 | 5.342     | 5.339         | 0.003         | 0  | 4100     | 0.4000       | 0.3603         | M     |
| 67 1,1-Dichloropropene          | 75  | 5.342     | 5.339         | 0.003         | 89 | 4939     | 0.4000       | 0.3821         |       |
| 69 Isobutyl alcohol             | 43  | 5.480     | 5.477         | 0.003         | 90 | 7894     | 10.0         | 10.4           |       |
| 70 Benzene                      | 78  | 5.544     | 5.538         | 0.006         | 0  | 16837    | 0.4000       | 0.4299         | M     |
| 72 1,2-Dichloroethane           | 62  | 5.599     | 5.593         | 0.006         | 91 | 5910     | 0.4000       | 0.4377         |       |
| 73 n-Heptane                    | 43  | 5.654     | 5.647         | 0.007         | 89 | 6737     | 0.4000       | 0.4616         |       |
| 75 Trichloroethene              | 95  | 6.094     | 6.094         | 0.000         | 67 | 4071     | 0.4000       | 0.3997         |       |
| 76 Methylcyclohexane            | 83  | 6.216     | 6.216         | 0.000         | 89 | 5930     | 0.4000       | 0.3613         |       |
| 77 1,2-Dichloropropane          | 63  | 6.332     | 6.329         | 0.003         | 87 | 3531     | 0.4000       | 0.3805         |       |
| 81 1,4-Dioxane                  | 88  | 6.461     | 6.454         | 0.007         | 0  | 509      | 8.00         | 3.98           | M     |
| 82 Dibromomethane               | 93  | 6.461     | 6.464         | -0.003        | 89 | 2524     | 0.4000       | 0.3826         |       |
| 83 Dichlorobromomethane         | 83  | 6.589     | 6.586         | 0.003         | 91 | 3975     | 0.4000       | 0.3488         |       |
| 84 2-Chloroethyl vinyl ether    | 63  | 6.818     | 6.821         | -0.003        | 0  | 2824     | 0.4000       | 0.3765         | M     |
| 85 cis-1,3-Dichloropropene      | 75  | 6.985     | 6.982         | 0.003         | 0  | 5396     | 0.4000       | 0.3568         | M     |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  | 7.101     | 7.101         | 0.000         | 94 | 28939    | 2.00         | 2.14           |       |
| 88 Toluene                      | 92  | 7.265     | 7.268         | -0.003        | 98 | 10693    | 0.4000       | 0.4327         |       |
| 91 trans-1,3-Dichloropropene    | 75  | 7.522     | 7.519         | 0.003         | 91 | 4903     | 0.4000       | 0.3616         |       |
| 90 Ethyl methacrylate           | 69  | 7.528     | 7.528         | 0.000         | 83 | 5347     | 0.4000       | 0.3778         |       |
| 93 1,1,2-Trichloroethane        | 83  | 7.715     | 7.715         | 0.000         | 0  | 3101     | 0.4000       | 0.4011         | M     |
| 94 Tetrachloroethene            | 166 | 7.795     | 7.792         | 0.003         | 92 | 4489     | 0.4000       | 0.4075         |       |
| 95 1,3-Dichloropropane          | 76  | 7.879     | 7.879         | 0.000         | 0  | 7111     | 0.4000       | 0.4285         | M     |
| 96 2-Hexanone                   | 43  | 7.911     | 7.911         | 0.000         | 96 | 20041    | 2.00         | 2.10           |       |
| 98 Chlorodibromomethane         | 129 | 8.123     | 8.117         | 0.006         | 0  | 3086     | 0.4000       | 0.3614         | M     |
| 101 Ethylene Dibromide          | 107 | 8.249     | 8.245         | 0.003         | 92 | 4050     | 0.4000       | 0.3987         |       |
| 103 Chlorobenzene               | 112 | 8.695     | 8.699         | -0.004        | 96 | 11515    | 0.4000       | 0.4124         |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.766         | 0.000         | 98 | 18366    | 0.4000       | 0.4104         |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.785     | 8.782         | 0.003         | 86 | 3357     | 0.4000       | 0.3667         |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 0  | 6964     | 0.4000       | 0.3929         | M     |
| 107 o-Xylene                    | 106 | 9.316     | 9.316         | 0.000         | 92 | 7100     | 0.4000       | 0.4077         |       |
| 109 Styrene                     | 104 | 9.348     | 9.342         | 0.006         | 93 | 11375    | 0.4000       | 0.3929         |       |
| 110 Bromoform                   | 173 | 9.612     | 9.618         | -0.006        | 82 | 1823     | 0.4000       | 0.3104         |       |
| 111 Isopropylbenzene            | 105 | 9.692     | 9.689         | 0.003         | 94 | 18018    | 0.4000       | 0.3924         |       |
| 113 Bromobenzene                | 156 | 10.084    | 10.085        | -0.001        | 86 | 4858     | 0.4000       | 0.4040         |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.094    | 10.097        | -0.003        | 86 | 6029     | 0.4000       | 0.4089         |       |
| 114 N-Propylbenzene             | 91  | 10.129    | 10.130        | -0.001        | 97 | 21149    | 0.4000       | 0.3964         |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.142    | 10.146        | -0.004        | 69 | 1351     | 0.4000       | 0.3387         |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.149    | 10.149        | 0.000         | 85 | 2251     | 0.4000       | 0.4275         |       |
| 117 2-Chlorotoluene             | 126 | 10.255    | 10.258        | -0.003        | 0  | 4132     | 0.4000       | 0.3728         | M     |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.303        | 0.000         | 94 | 14209    | 0.4000       | 0.3765         |       |
| 119 4-Chlorotoluene             | 91  | 10.371    | 10.367        | 0.004         | 95 | 13585    | 0.4000       | 0.4116         |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 91 | 3041     | 0.4000       | 0.3474         |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.686    | 10.686        | 0.000         | 94 | 14902    | 0.4000       | 0.3848         |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 122 sec-Butylbenzene             | 105 | 10.840       | 10.843           | -0.003           | 93 | 18795    | 0.4000          | 0.3861            |       |
| 123 4-Isopropyltoluene           | 119 | 10.972       | 10.972           | 0.000            | 96 | 15737    | 0.4000          | 0.3730            |       |
| 124 1,3-Dichlorobenzene          | 146 | 11.001       | 11.001           | 0.000            | 93 | 9497     | 0.4000          | 0.4127            |       |
| 126 1,4-Dichlorobenzene          | 146 | 11.088       | 11.088           | 0.000            | 0  | 10068    | 0.4000          | 0.4246            | M     |
| 127 n-Butylbenzene               | 91  | 11.355       | 11.355           | 0.000            | 96 | 14452    | 0.4000          | 0.3852            |       |
| 128 1,2-Dichlorobenzene          | 146 | 11.438       | 11.438           | 0.000            | 96 | 9554     | 0.4000          | 0.4201            |       |
| 129 1,2-Dibromo-3-Chloropropane  | 75  | 12.139       | 12.136           | 0.003            | 82 | 795      | 0.4000          | 0.2647            |       |
| 130 1,2,4-Trichlorobenzene       | 180 | 12.763       | 12.763           | 0.000            | 90 | 7501     | 0.4000          | 0.4393            |       |
| 131 Hexachlorobutadiene          | 225 | 12.850       | 12.850           | 0.000            | 89 | 2549     | 0.4000          | 0.3446            |       |
| 132 Naphthalene                  | 128 | 12.978       | 12.978           | 0.000            | 96 | 21564    | 0.4000          | 0.4097            |       |
| 133 1,2,3-Trichlorobenzene       | 180 | 13.181       | 13.178           | 0.003            | 92 | 6406     | 0.4000          | 0.3962            |       |
| S 142 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 2.07              |       |
| S 144 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 0.7184            |       |
| S 141 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 0.7553            |       |
| S 143 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 0.8006            |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00226

Amount Added: 0.40

Units: uL

GAS CORP mix\_00517

Amount Added: 0.40

Units: uL

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

Chrom Revision: 2.3 20-Jun-2022 20:10:40

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#: 0

Worklist Smp#: 9

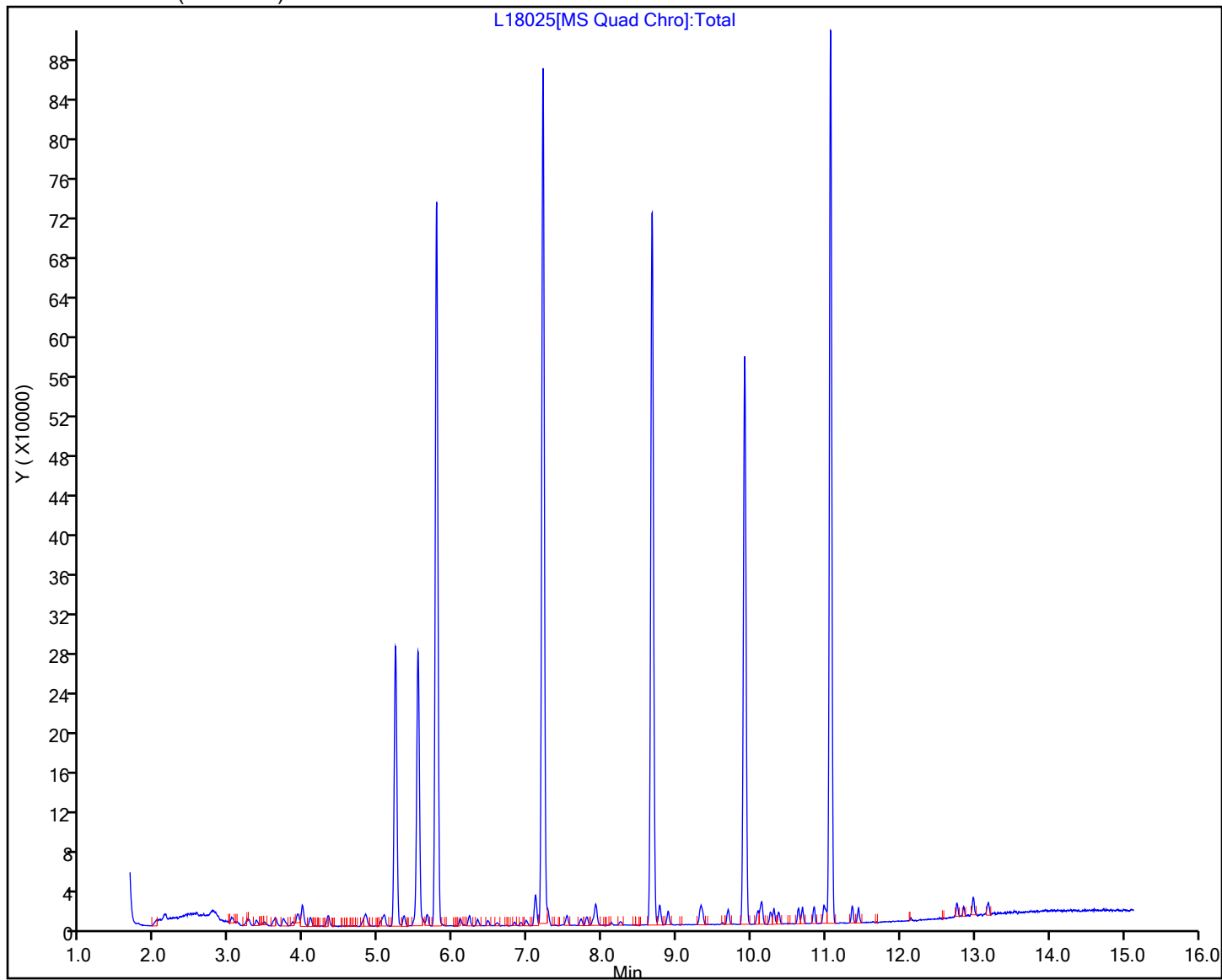
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

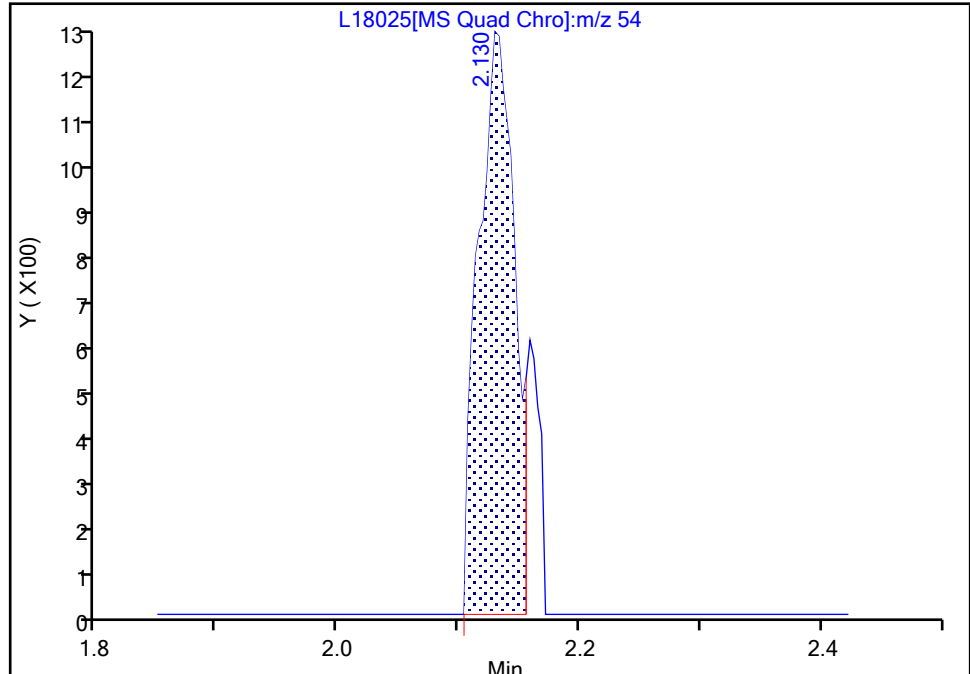
Detector: MS Quad

**15 Butadiene, CAS: 106-99-0**

Signal: 1

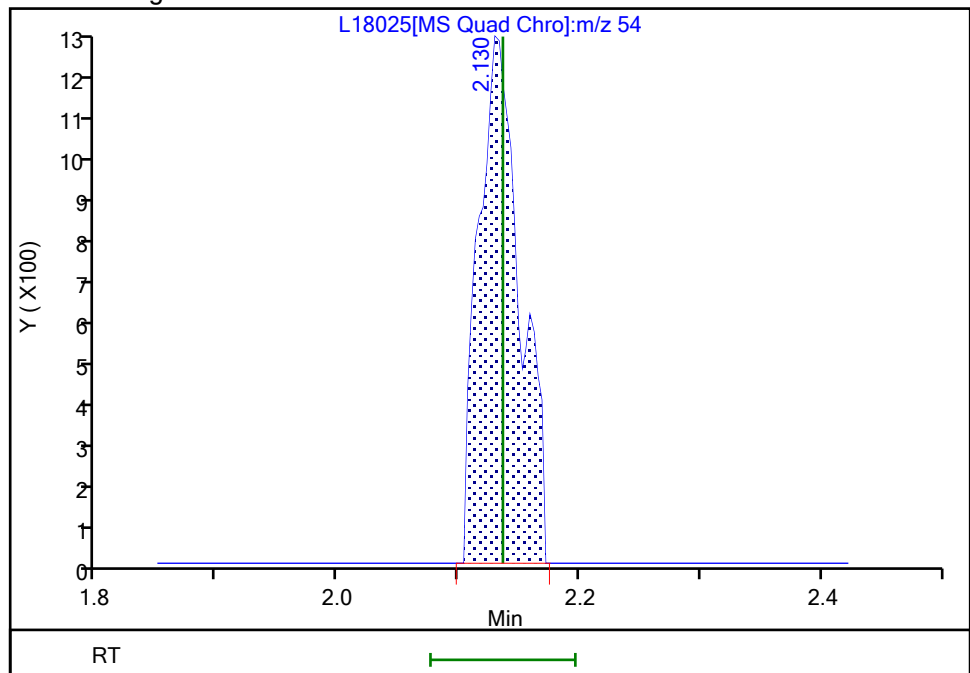
RT: 2.13  
Area: 2522  
Amount: 0.382130  
Amount Units: ug/L

## Processing Integration Results



RT: 2.13  
Area: 2889  
Amount: 0.376554  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 07-Jul-2022 12:52:25

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

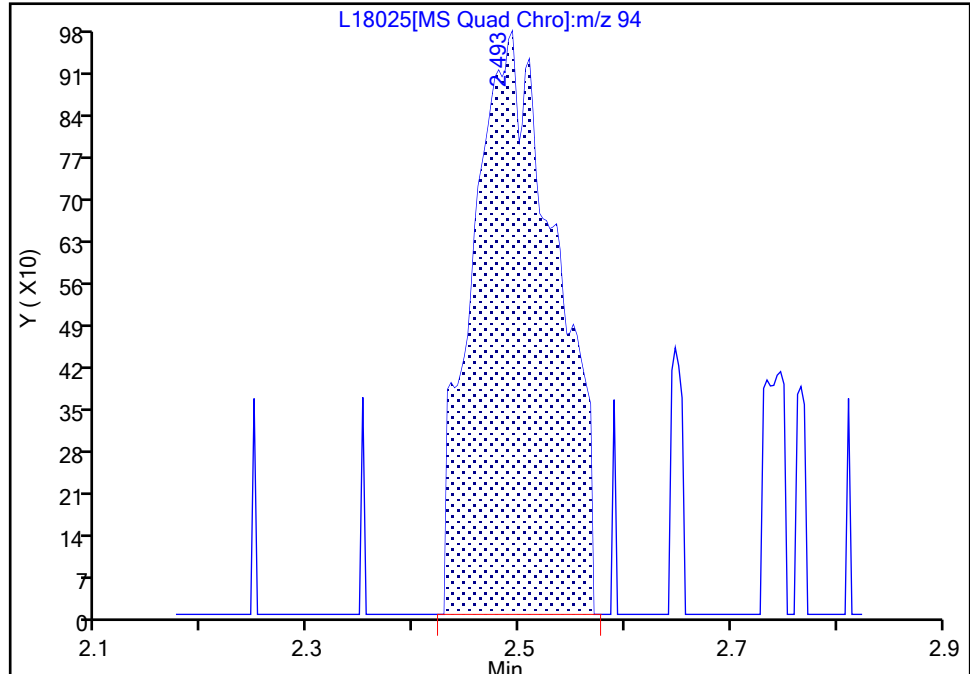
Detector: MS Quad

**18 Bromomethane, CAS: 74-83-9**

Signal: 1

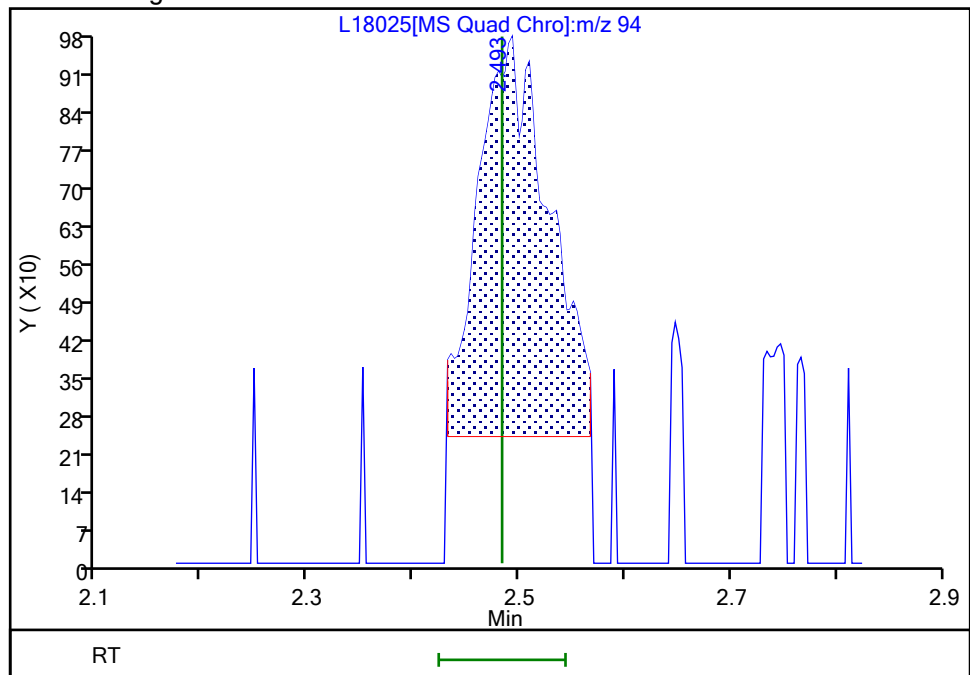
RT: 2.49  
Area: 5400  
Amount: 0.501004  
Amount Units: ug/L

## Processing Integration Results



RT: 2.49  
Area: 3451  
Amount: 0.490938  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 07-Jul-2022 12:52:36

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

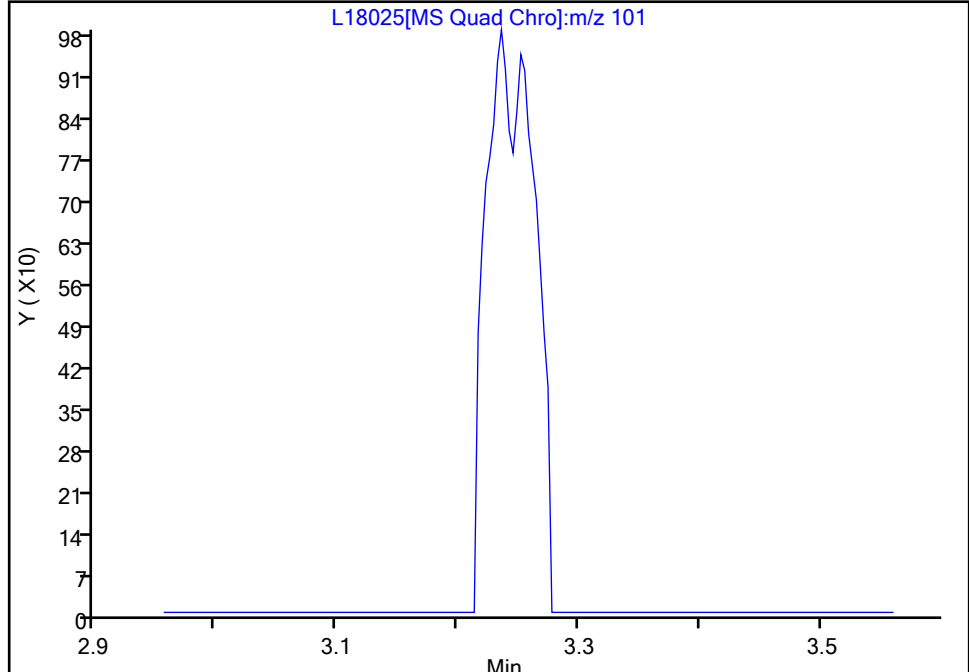
**29 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1**

Signal: 1

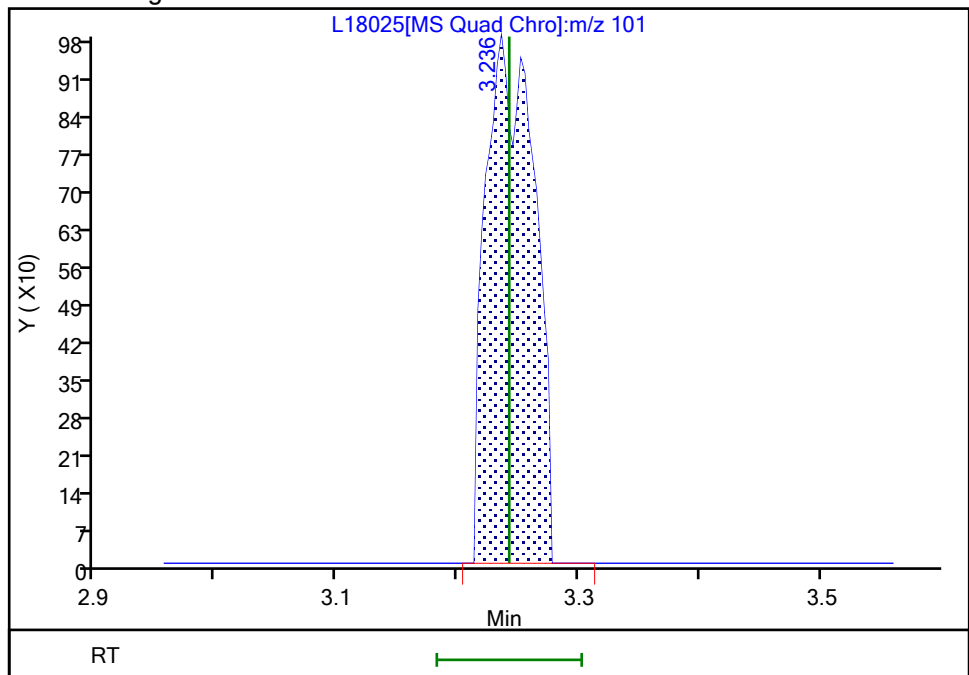
Not Detected

Expected RT: 3.24

## Processing Integration Results



## Manual Integration Results



RT: 3.24

Area: 2743

Amount: 0.342355

Amount Units: ug/L

Reviewer: WLL8, 07-Jul-2022 12:52:46

Audit Action: Manually Integrated

Audit Reason: Poor chromatography



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

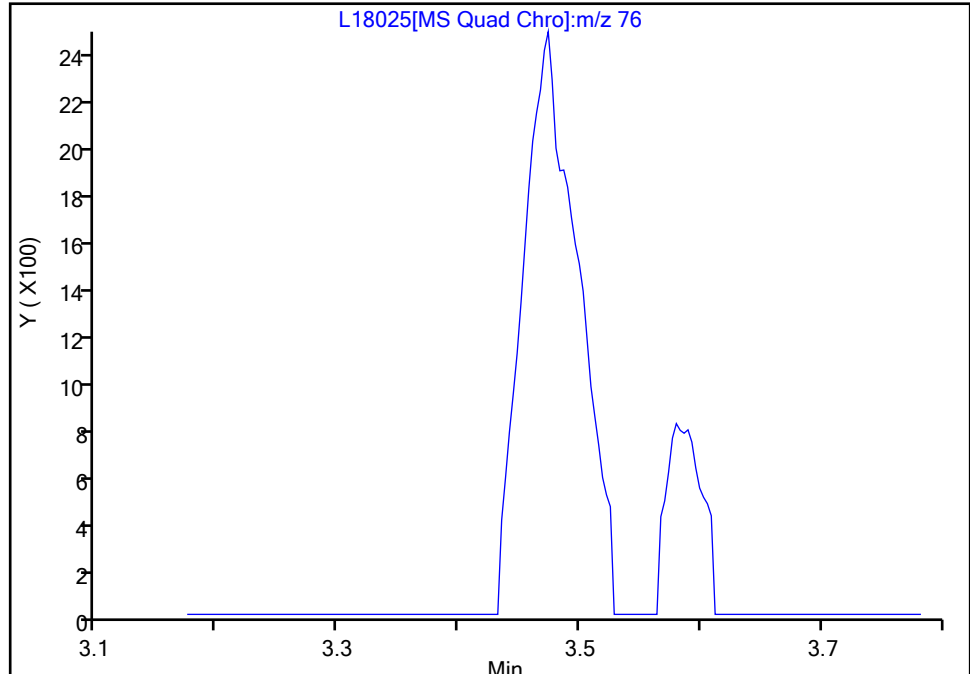
**35 Carbon disulfide, CAS: 75-15-0**

Signal: 1

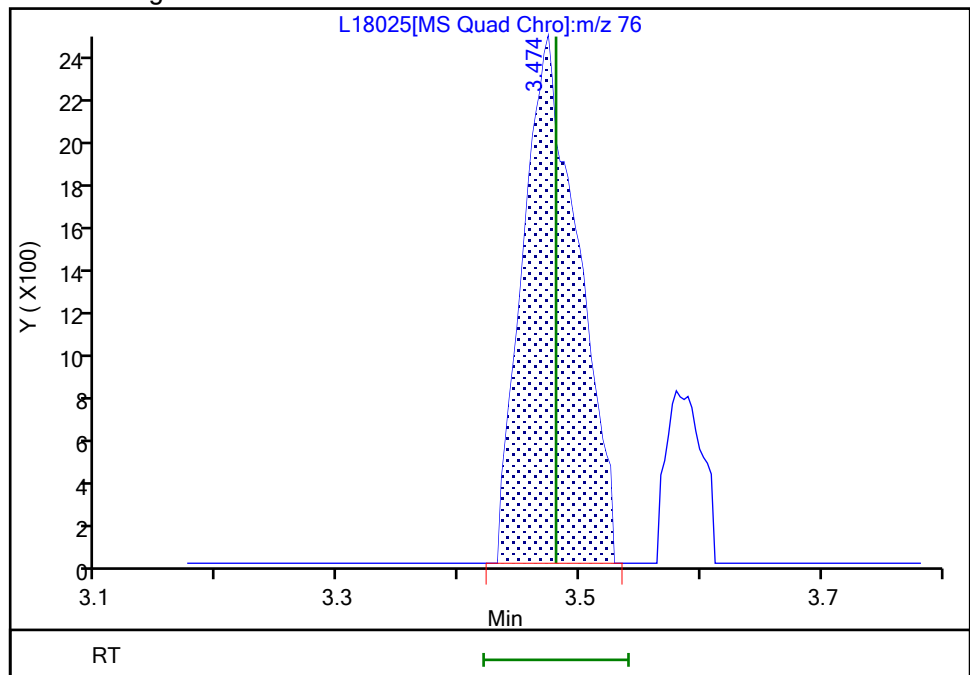
Not Detected

Expected RT: 3.48

## Processing Integration Results



## Manual Integration Results



RT: 3.47

Area: 7730

Amount: 0.355832

Amount Units: ug/L

Reviewer: WLL8, 07-Jul-2022 12:52:53

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

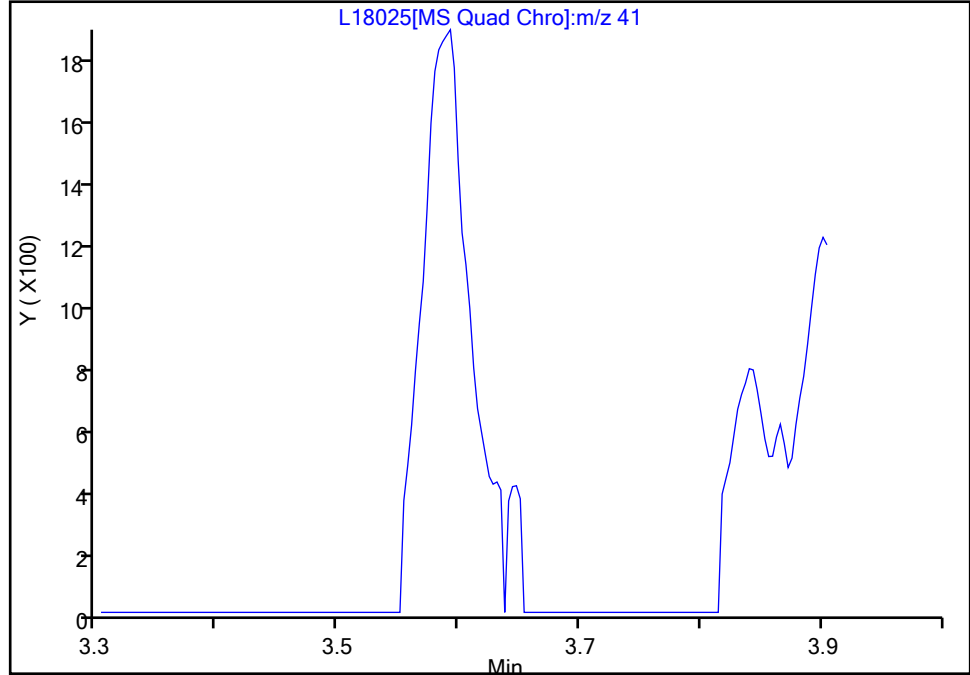
**37 3-Chloro-1-propene, CAS: 107-05-1**

Signal: 1

Not Detected

Expected RT: 3.59

## Processing Integration Results



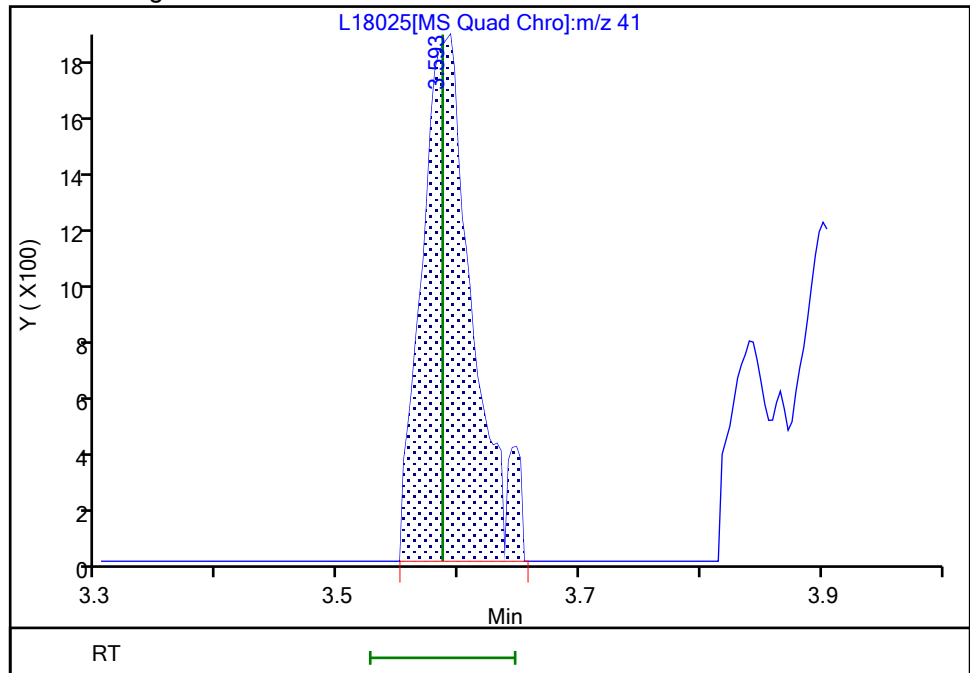
RT: 3.59

Area: 5495

Amount: 0.447245

Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 07-Jul-2022 12:52:58

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

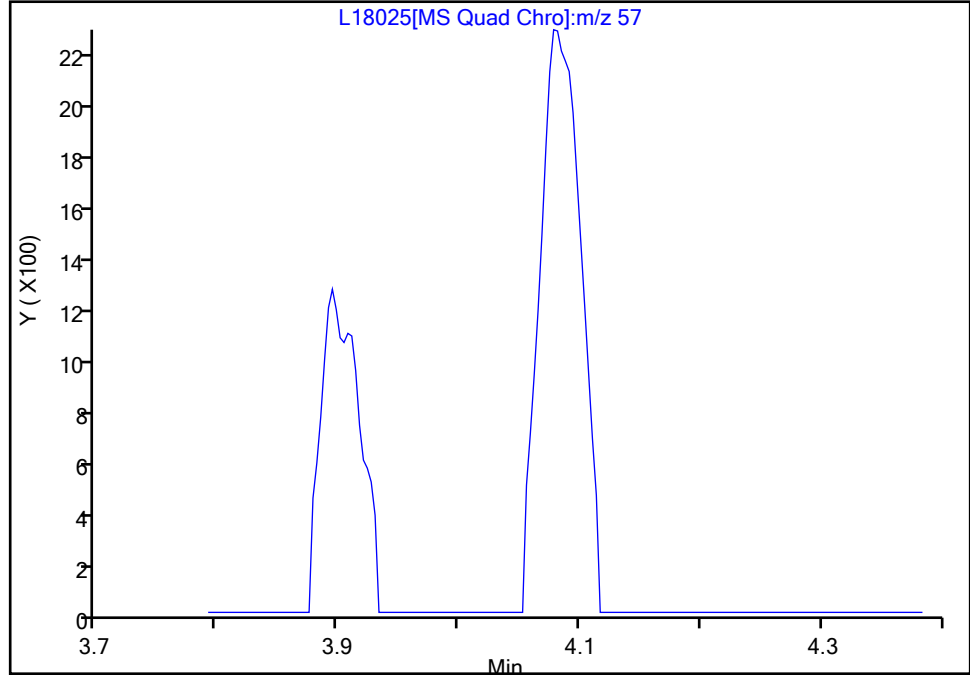
**47 Hexane, CAS: 110-54-3**

Signal: 1

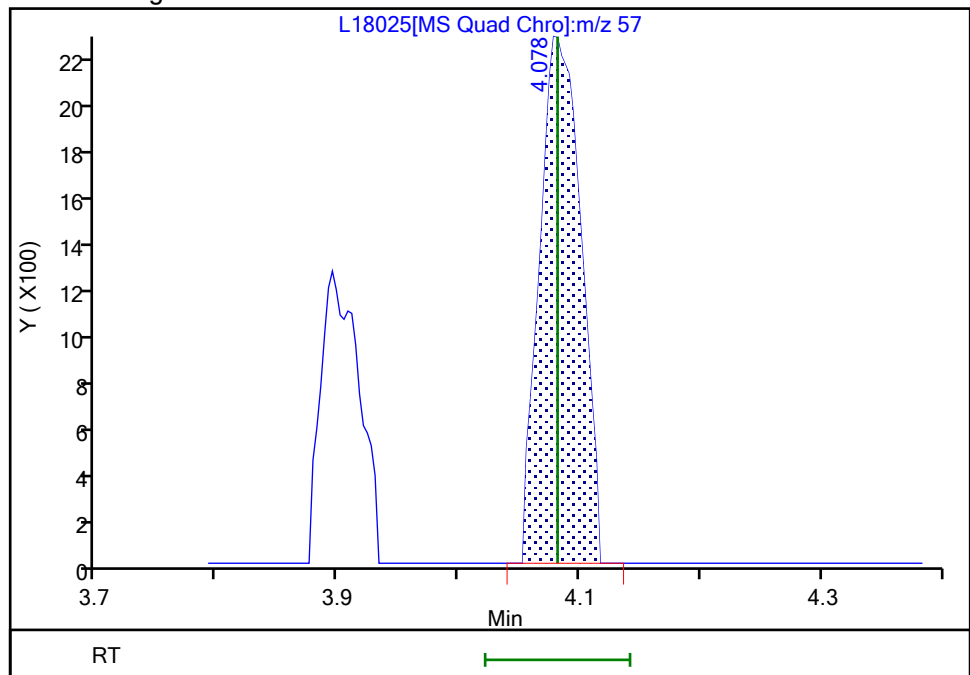
Not Detected

Expected RT: 4.08

## Processing Integration Results



## Manual Integration Results



RT: 4.08

Area: 5339

Amount: 0.417057

Amount Units: ug/L

Reviewer: WLL8, 07-Jul-2022 12:53:06

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

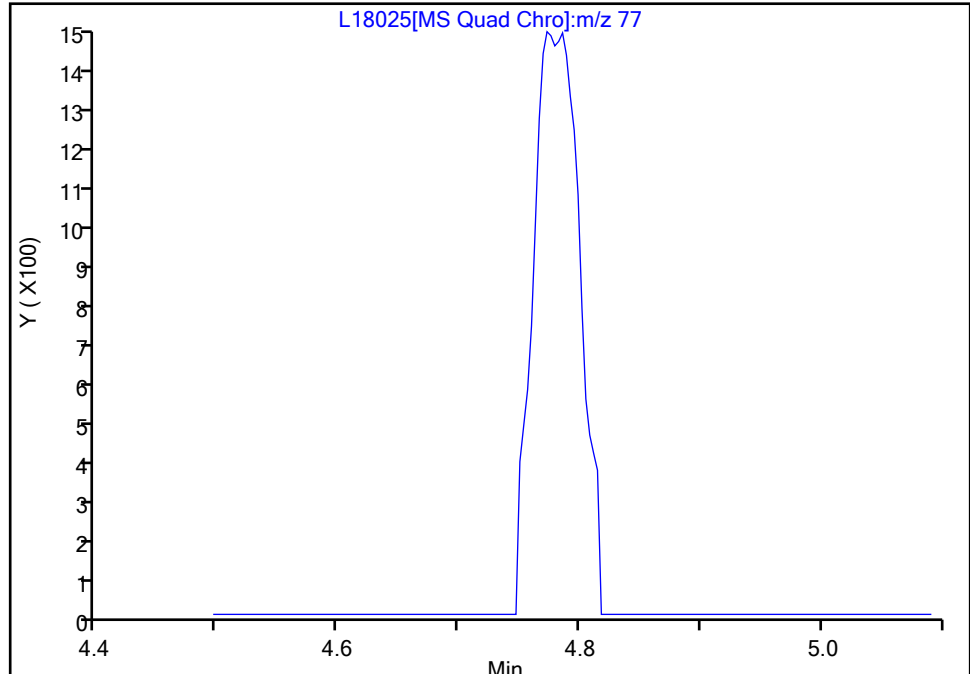
**56 2,2-Dichloropropane, CAS: 594-20-7**

Signal: 1

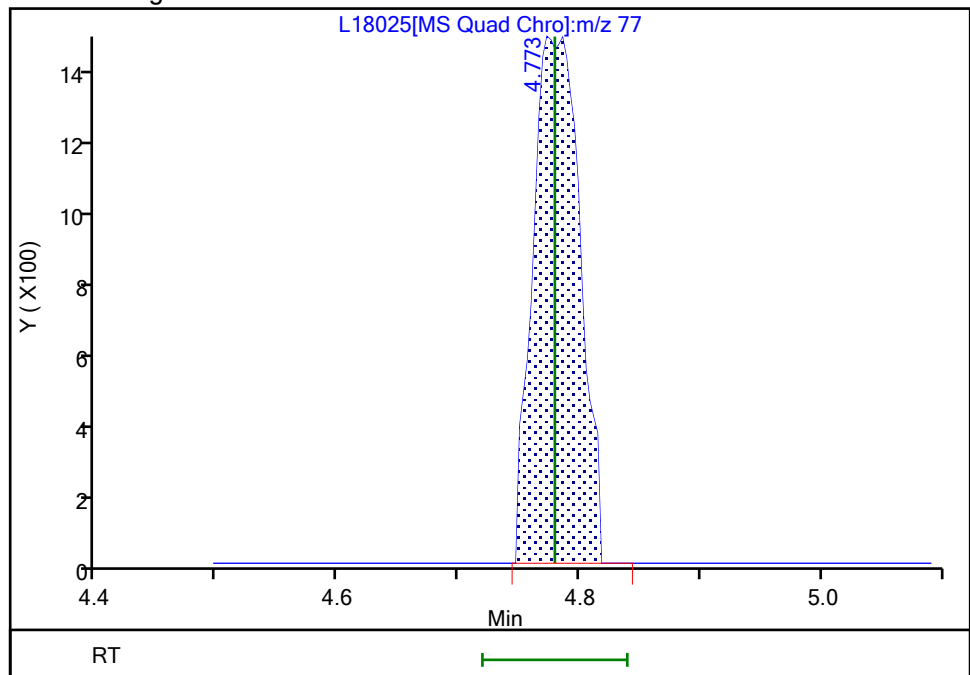
Not Detected

Expected RT: 4.78

## Processing Integration Results



## Manual Integration Results



RT: 4.77

Area: 3894

Amount: 0.412873

Amount Units: ug/L

Reviewer: WLL8, 07-Jul-2022 12:53:12

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

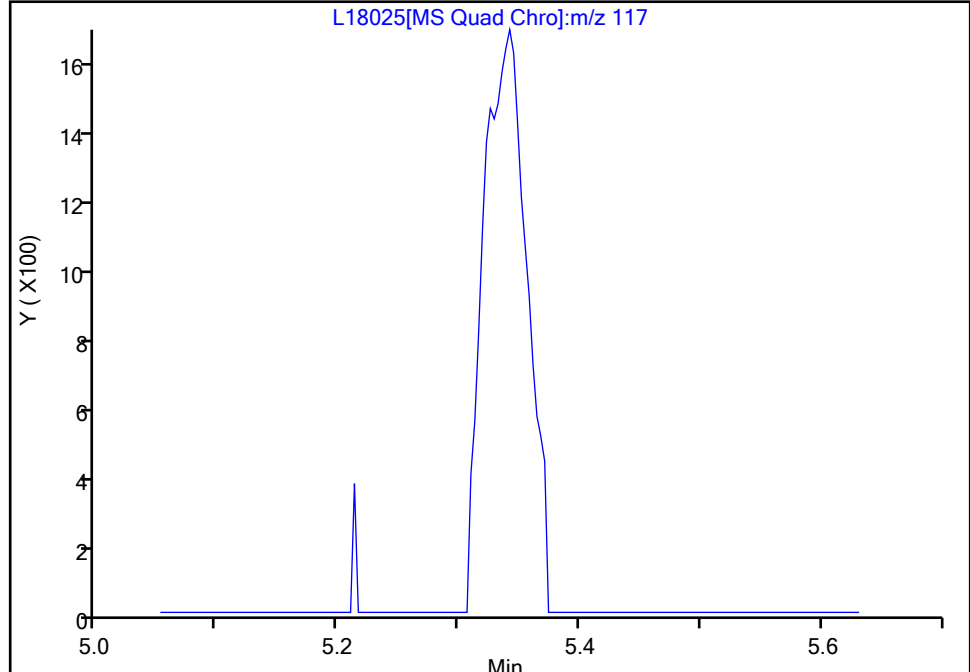
**66 Carbon tetrachloride, CAS: 56-23-5**

Signal: 1

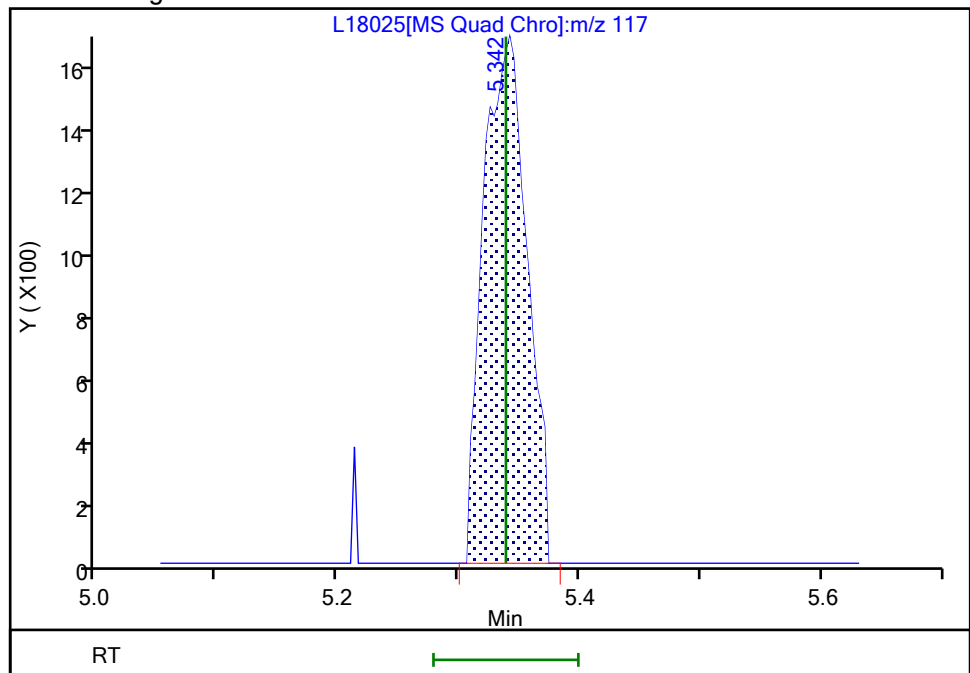
Not Detected

Expected RT: 5.34

## Processing Integration Results



## Manual Integration Results



Reviewer: WLL8, 07-Jul-2022 12:53:21

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

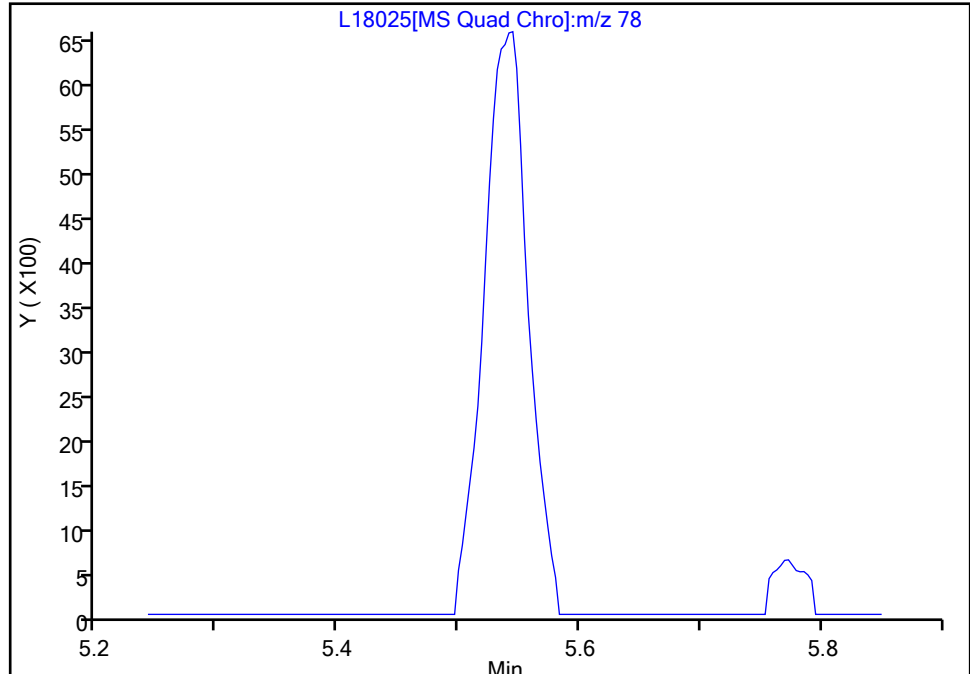
**70 Benzene, CAS: 71-43-2**

Signal: 1

Not Detected

Expected RT: 5.54

## Processing Integration Results



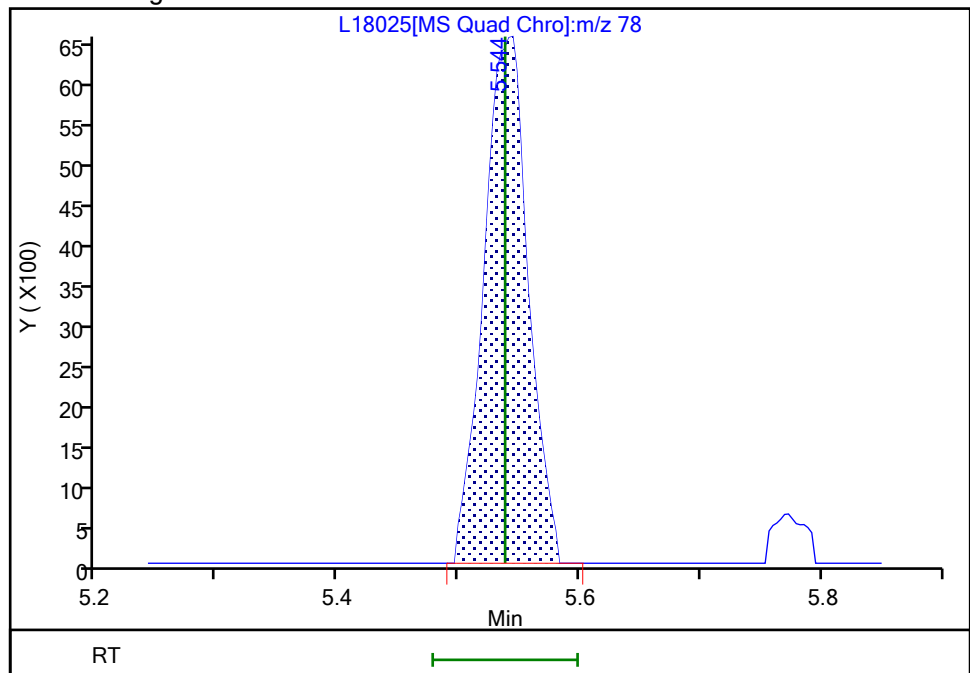
RT: 5.54

Area: 16837

Amount: 0.429871

Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 07-Jul-2022 12:53:29

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

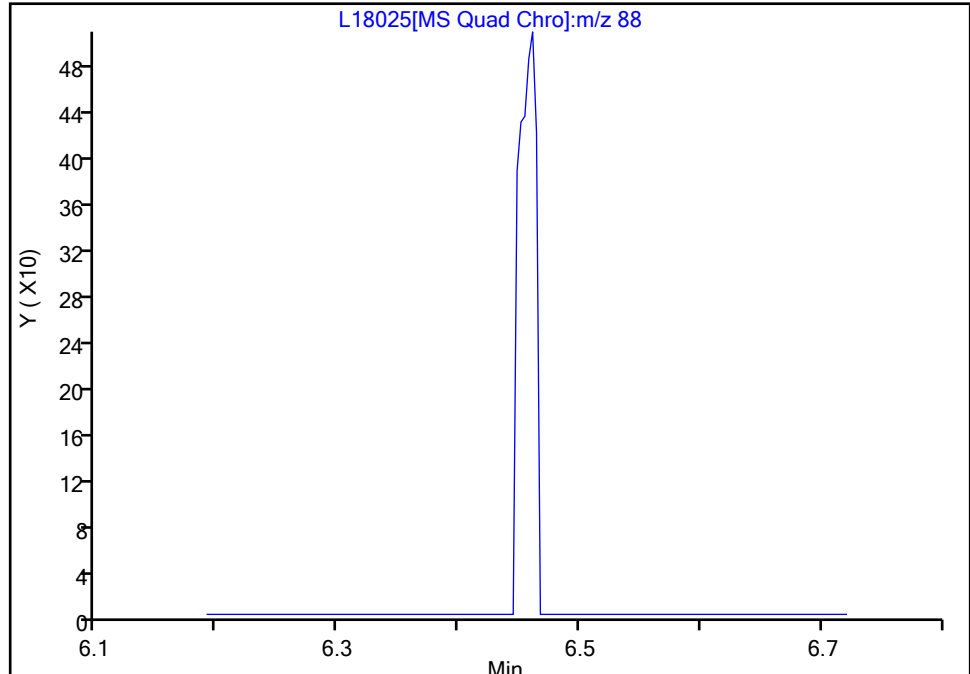
**81 1,4-Dioxane, CAS: 123-91-1**

Signal: 1

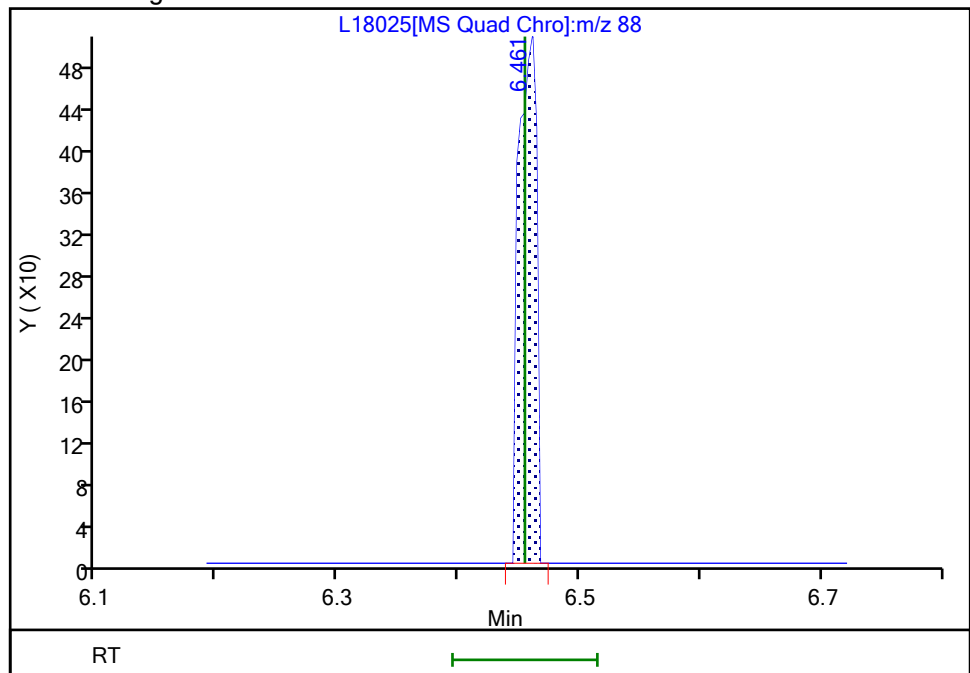
Not Detected

Expected RT: 6.45

## Processing Integration Results



## Manual Integration Results



RT: 6.46

Area: 509

Amount: 3.984581

Amount Units: ug/L

Reviewer: WLL8, 07-Jul-2022 12:53:37

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

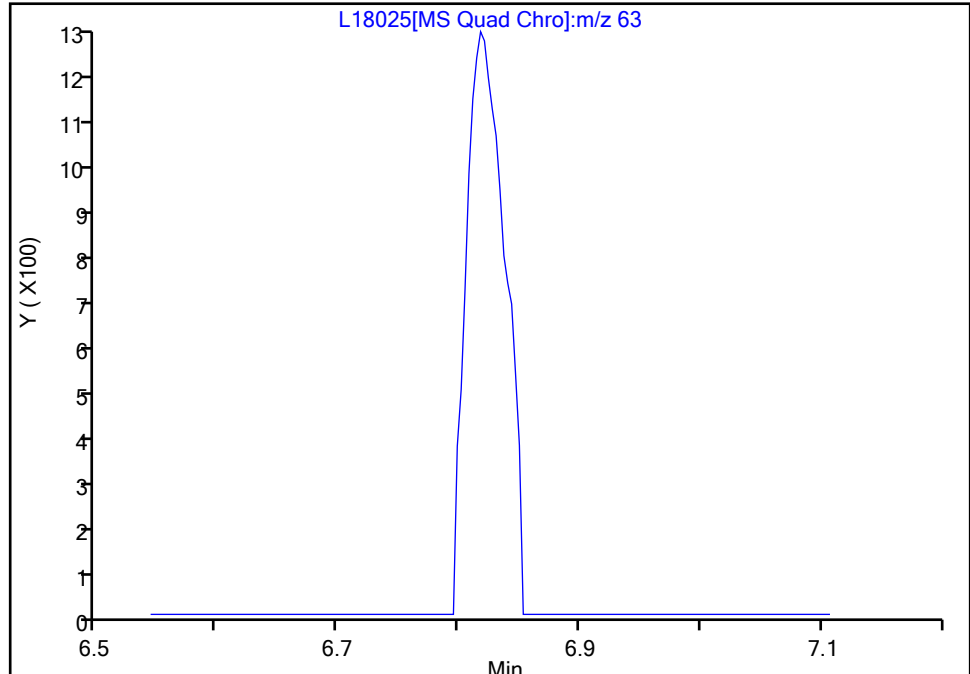
**84 2-Chloroethyl vinyl ether, CAS: 110-75-8**

Signal: 1

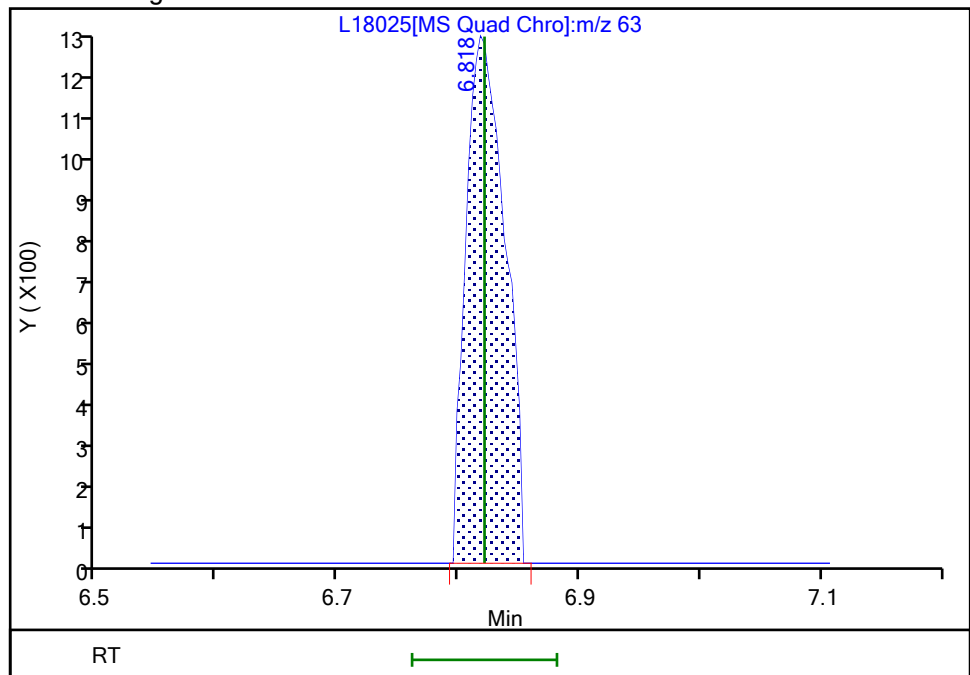
Not Detected

Expected RT: 6.82

## Processing Integration Results



## Manual Integration Results



RT: 6.82

Area: 2824

Amount: 0.376461

Amount Units: ug/L

Reviewer: WLL8, 07-Jul-2022 12:53:43

Audit Action: Manually Integrated

Audit Reason: Poor chromatography



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

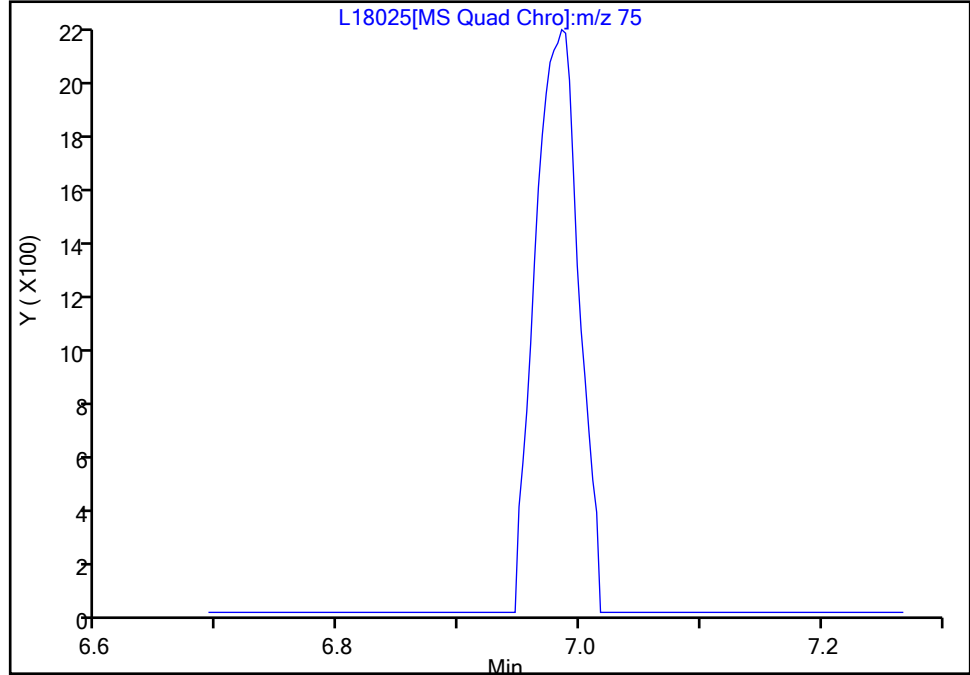
**85 cis-1,3-Dichloropropene, CAS: 10061-01-5**

Signal: 1

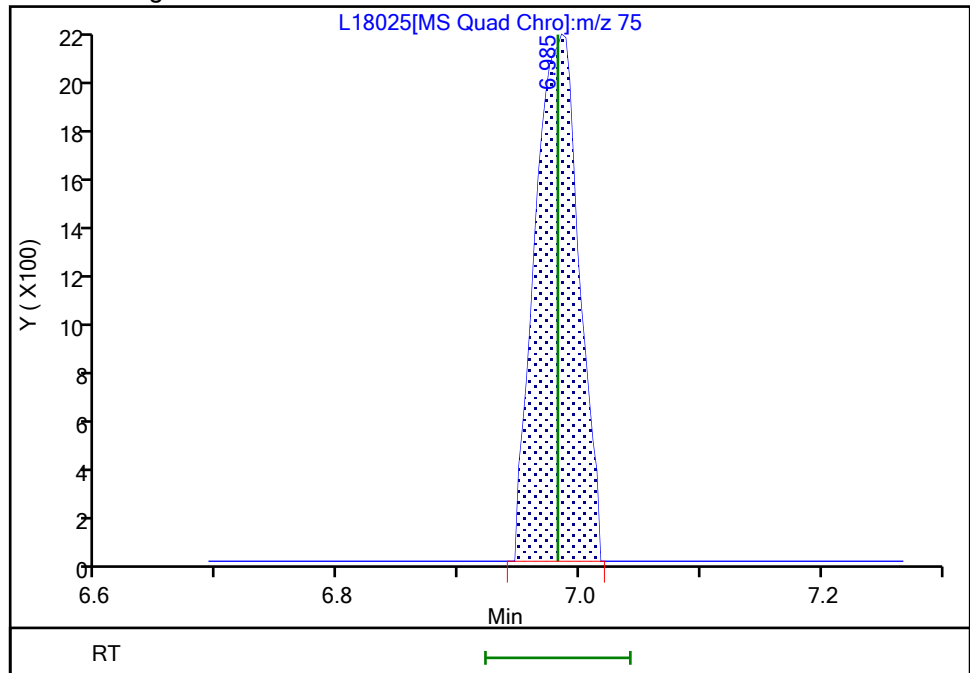
Not Detected

Expected RT: 6.98

## Processing Integration Results



## Manual Integration Results



RT: 6.98

Area: 5396

Amount: 0.356799

Amount Units: ug/L

Reviewer: WLL8, 07-Jul-2022 12:53:47

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

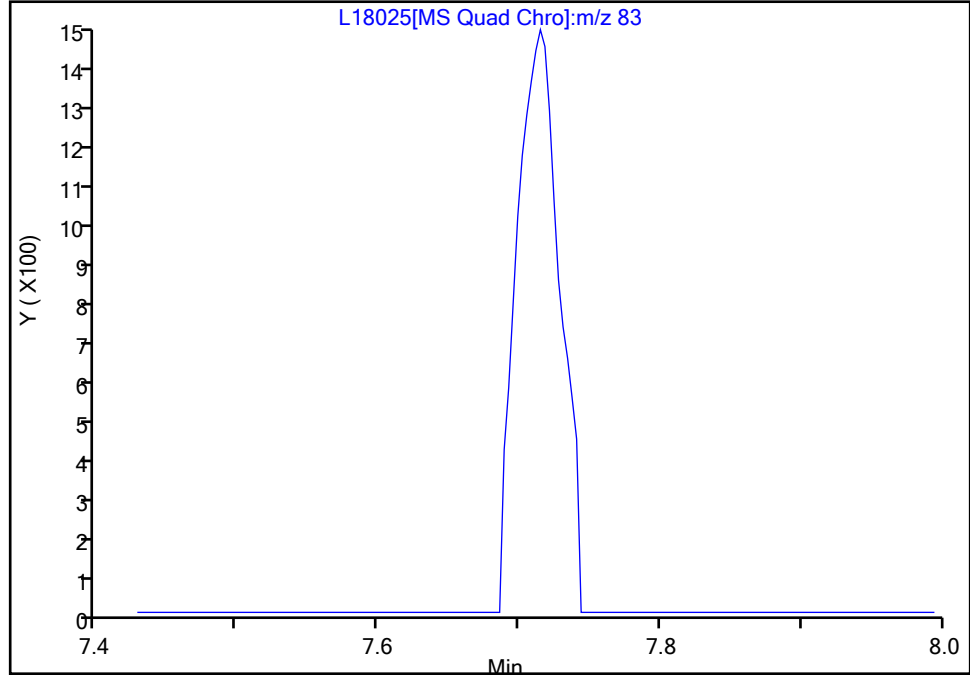
**93 1,1,2-Trichloroethane, CAS: 79-00-5**

Signal: 1

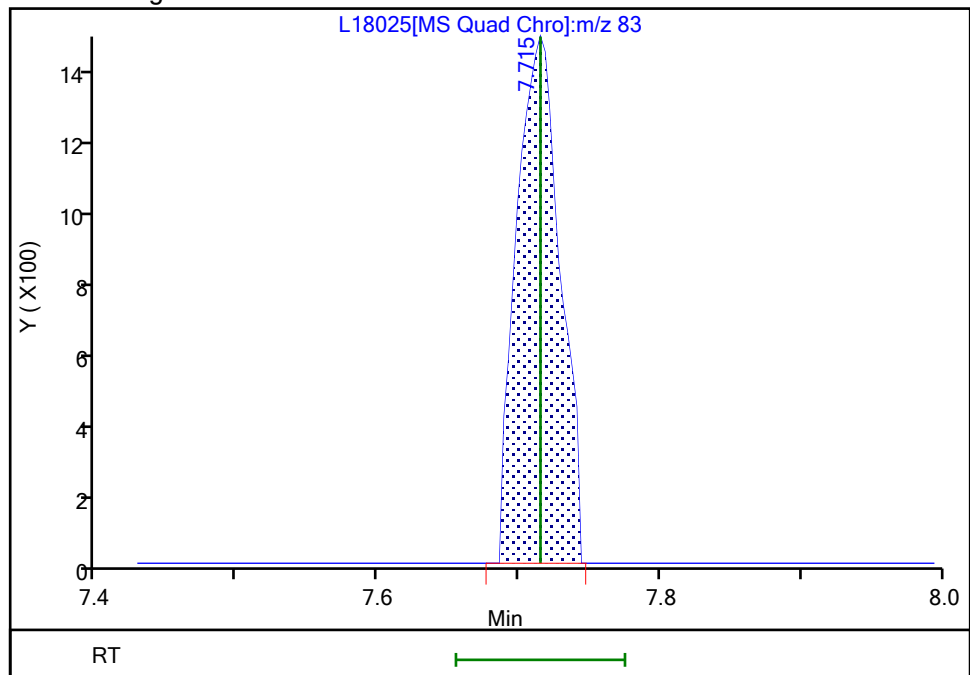
Not Detected

Expected RT: 7.71

## Processing Integration Results



## Manual Integration Results



RT: 7.71

Area: 3101

Amount: 0.401098

Amount Units: ug/L

Reviewer: WLL8, 07-Jul-2022 12:53:53

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

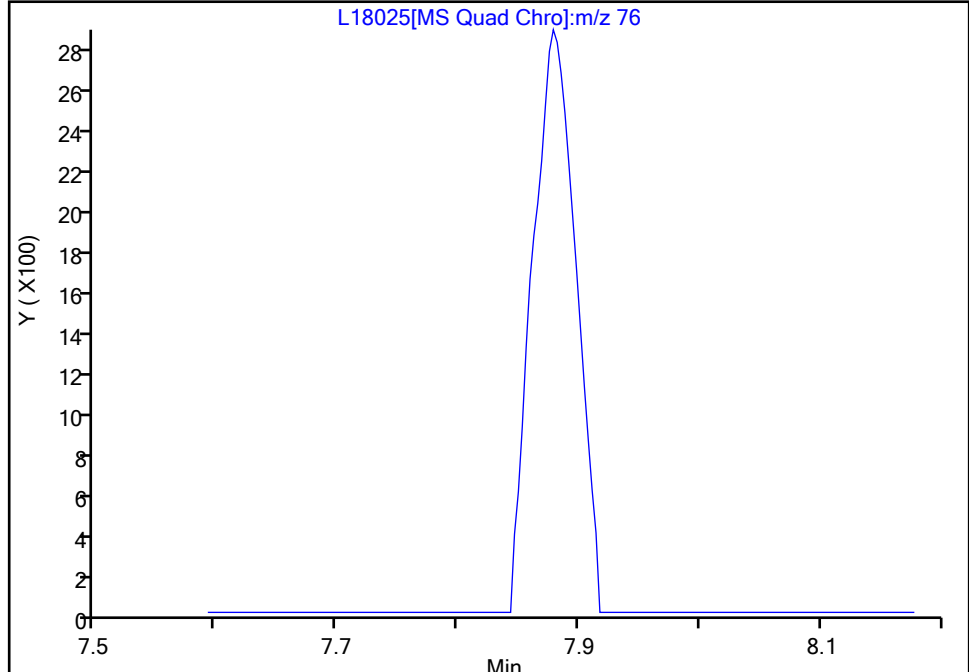
## 95 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

Not Detected

Expected RT: 7.88

## Processing Integration Results



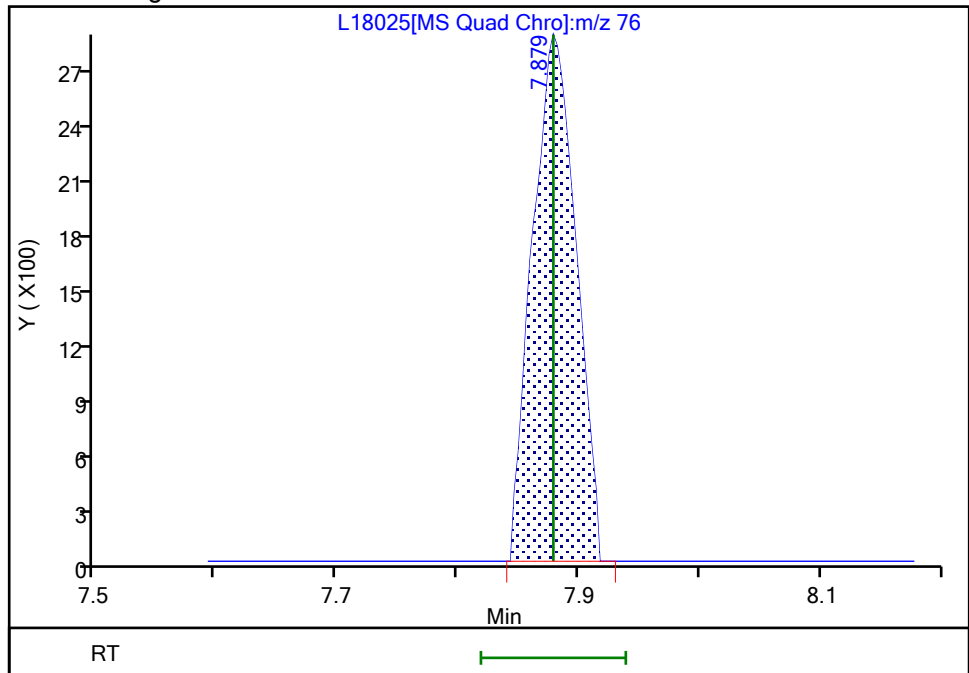
RT: 7.88

Area: 7111

Amount: 0.428515

Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 07-Jul-2022 12:53:58

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

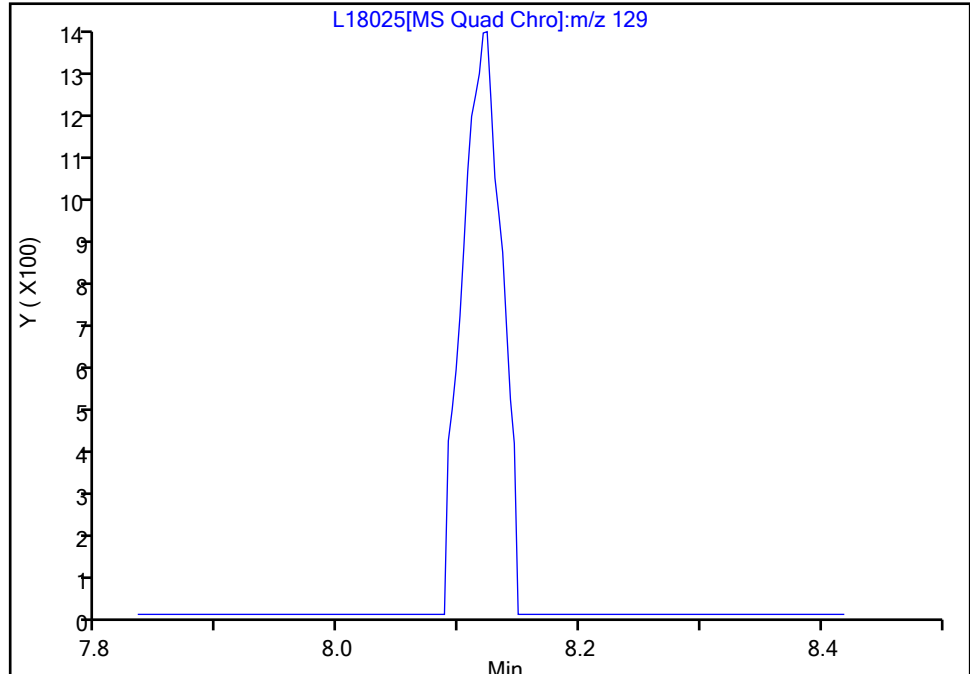
**98 Chlorodibromomethane, CAS: 124-48-1**

Signal: 1

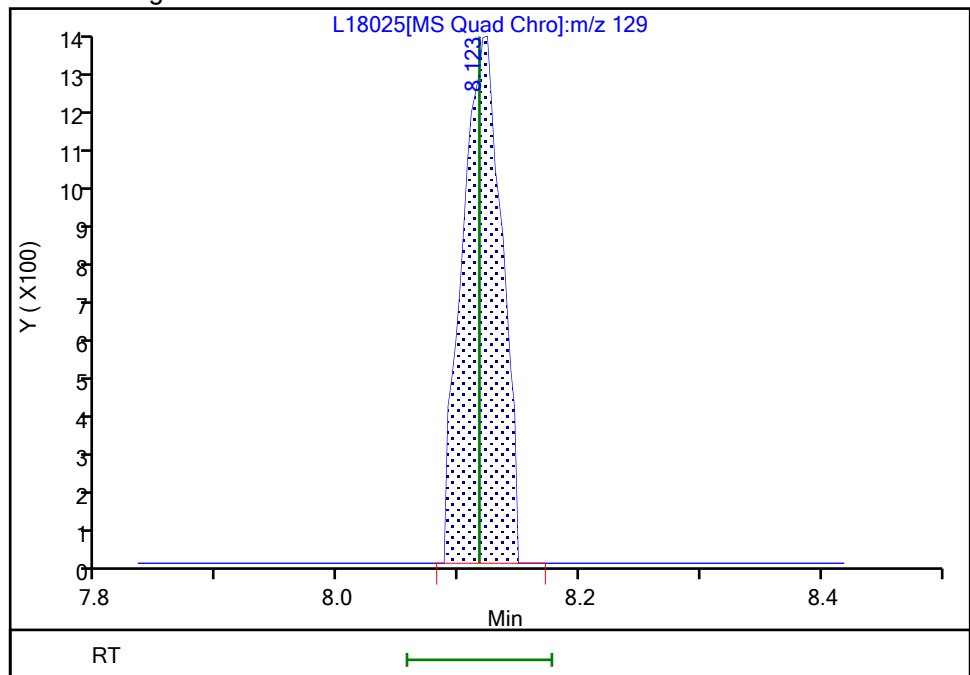
Not Detected

Expected RT: 8.12

## Processing Integration Results



## Manual Integration Results



RT: 8.12

Area: 3086

Amount: 0.361446

Amount Units: ug/L

Reviewer: WLL8, 07-Jul-2022 14:36:36

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

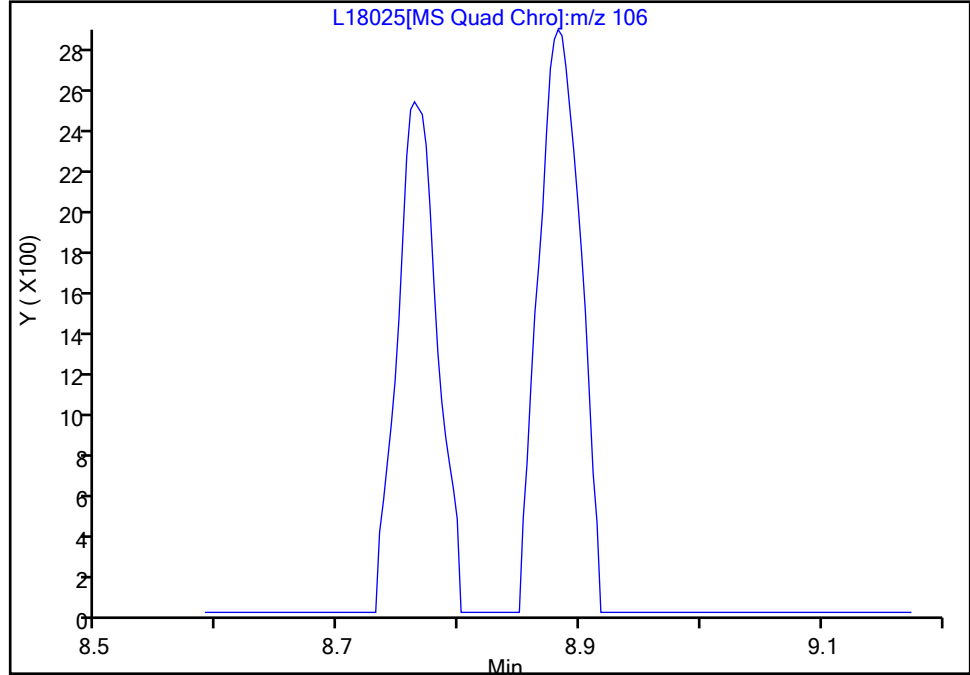
**106 m-Xylene & p-Xylene, CAS: 179601-23-1**

Signal: 1

Not Detected

Expected RT: 8.88

## Processing Integration Results



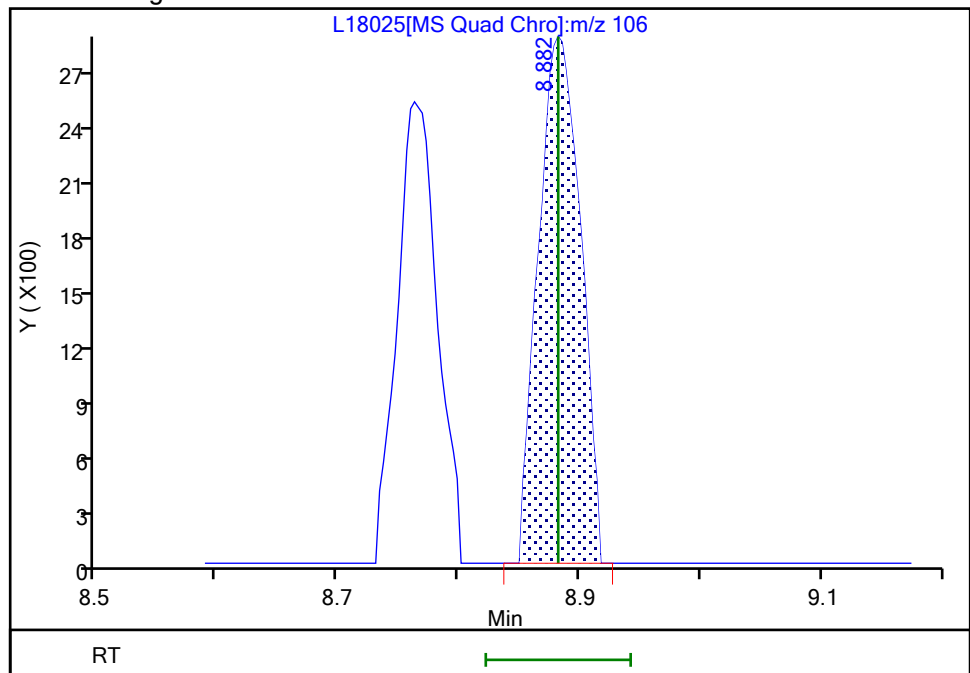
RT: 8.88

Area: 6964

Amount: 0.392875

Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 07-Jul-2022 12:54:05

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

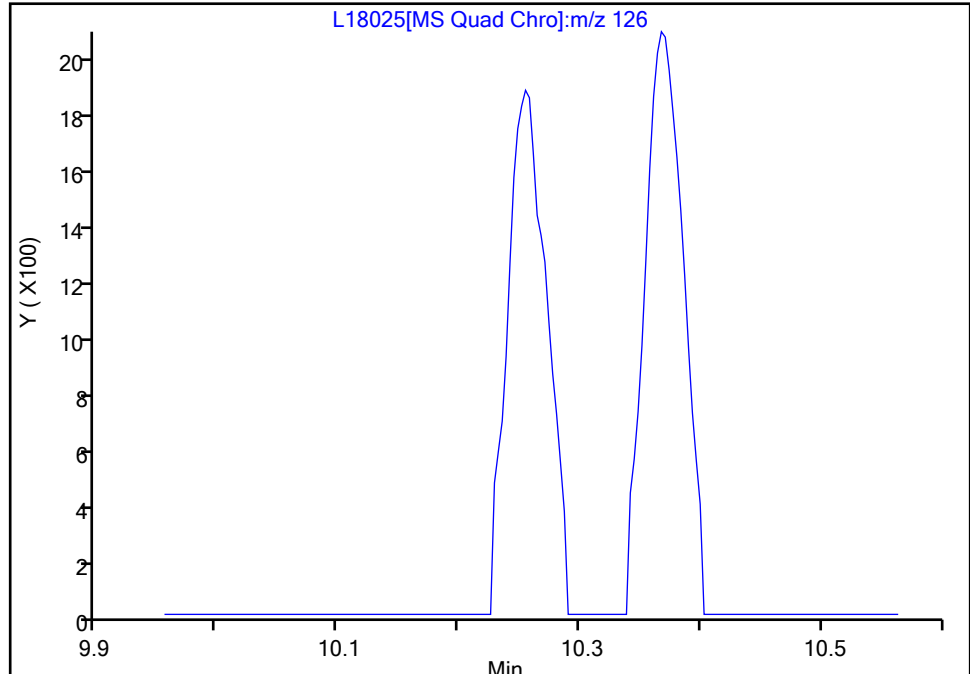
**117 2-Chlorotoluene, CAS: 95-49-8**

Signal: 1

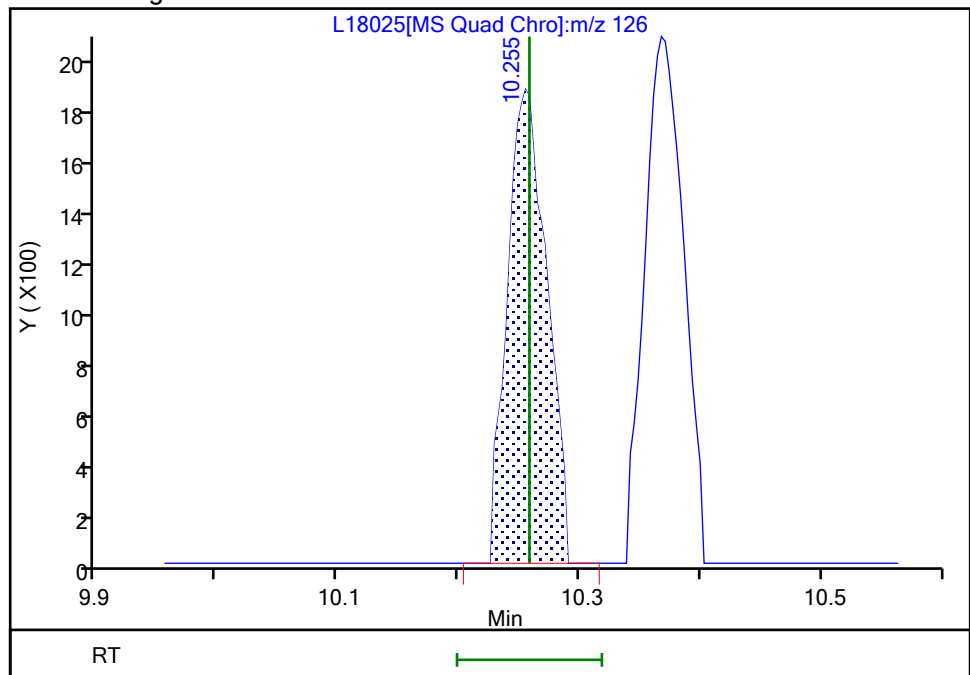
Not Detected

Expected RT: 10.26

## Processing Integration Results



## Manual Integration Results



RT: 10.25

Area: 4132

Amount: 0.372844

Amount Units: ug/L

Reviewer: WLL8, 07-Jul-2022 14:36:41

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18025.D

Injection Date: 07-Jul-2022 12:02:53

Instrument ID: HP5977L

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

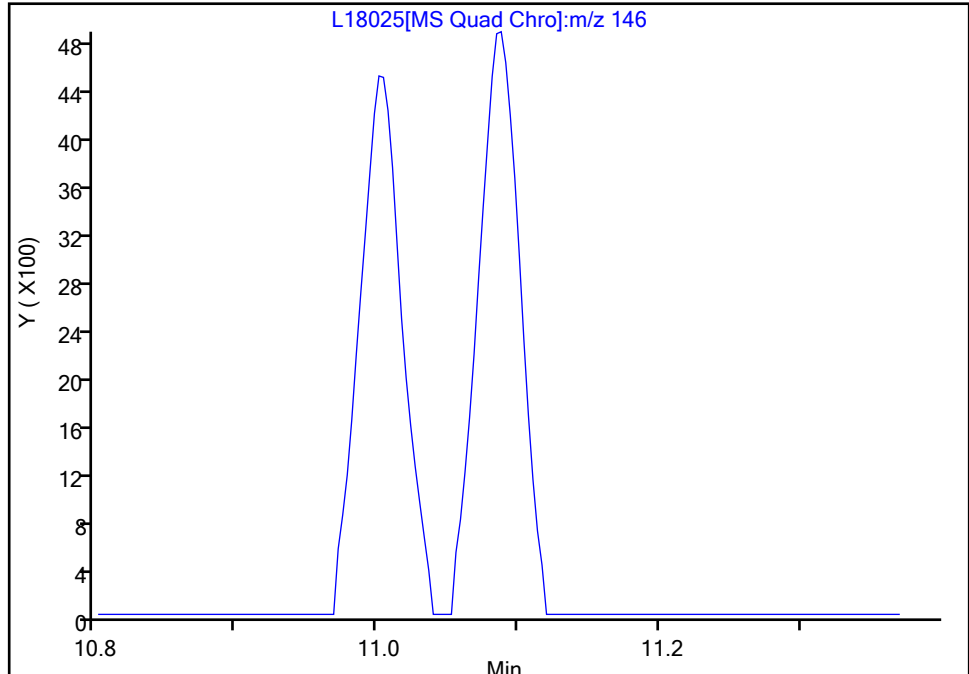
**126 1,4-Dichlorobenzene, CAS: 106-46-7**

Signal: 1

Not Detected

Expected RT: 11.09

## Processing Integration Results



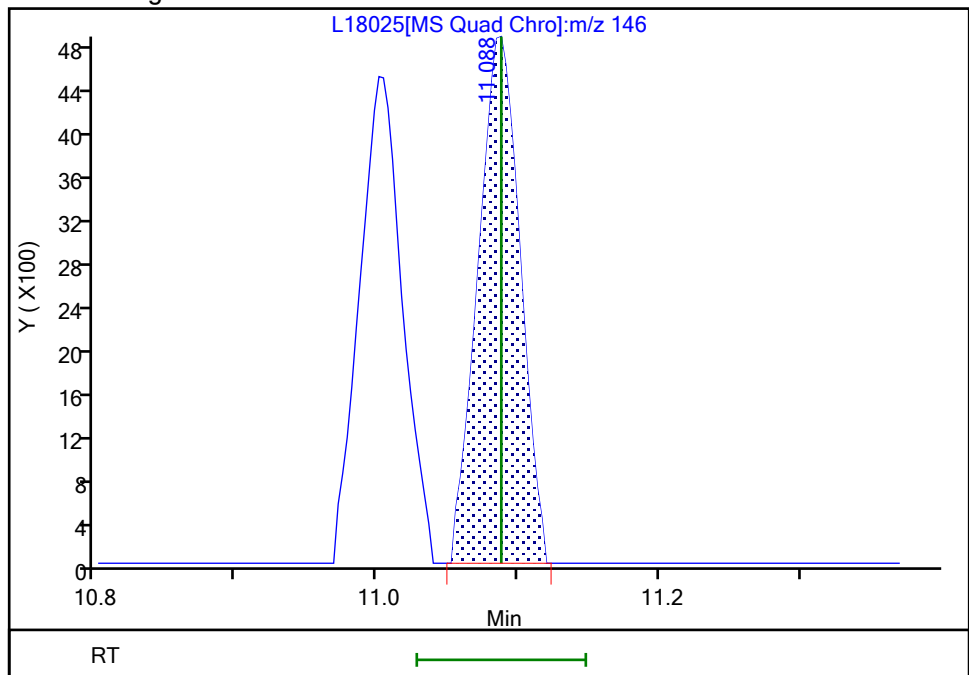
RT: 11.09

Area: 10068

Amount: 0.424630

Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 07-Jul-2022 12:54:25

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18026.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 07-Jul-2022 12:30:12 ALS Bottle#: 0 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 480-0106458-010  
 Operator ID: LH Instrument ID: HP5977L  
 Sublist: chrom-L-8260\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 11-Jul-2022 12:21:45 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1661

First Level Reviewer: WLL8

Date: 07-Jul-2022 13:18:16

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.776            | 0.000            | 99  | 176237   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.670        | 8.667            | 0.003            | 84  | 681018   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.062       | 11.065           | -0.003           | 94  | 366145   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226        | 5.226            | 0.000            | 95  | 222377   | 25.0            | 24.8              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.525        | 5.525            | 0.000            | 97  | 259182   | 25.0            | 25.6              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.204        | 7.204            | 0.000            | 93  | 855528   | 25.0            | 25.2              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911        | 9.911            | 0.000            | 99  | 267789   | 25.0            | 25.2              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.776        | 1.770            | 0.006            | 96  | 9599     | 1.00            | 0.8803            |       |
| 13 Chloromethane                         | 50  | 2.008        | 2.011            | -0.003           | 86  | 10001    | 1.00            | 0.9802            |       |
| 14 Vinyl chloride                        | 62  | 2.127        | 2.114            | 0.013            | 90  | 8962     | 1.00            | 0.9263            |       |
| 15 Butadiene                             | 54  | 2.127        | 2.136            | -0.009           | 85  | 7037     | 1.00            | 0.8987            |       |
| 18 Bromomethane                          | 94  | 2.477        | 2.483            | -0.006           | 82  | 6082     | 1.00            | 0.8477            | M     |
| 19 Chloroethane                          | 64  | 2.561        | 2.557            | 0.004            | 89  | 6161     | 1.00            | 1.04              |       |
| 20 Dichlorofluoromethane                 | 67  | 2.770        | 2.773            | -0.003           | 94  | 13980    | 1.00            | 1.04              |       |
| 21 Trichlorofluoromethane                | 101 | 2.776        | 2.779            | -0.003           | 92  | 10904    | 1.00            | 0.8666            |       |
| 26 Ethyl ether                           | 59  | 3.030        | 3.030            | 0.000            | 88  | 7837     | 1.00            | 0.9512            |       |
| 28 Acrolein                              | 56  | 3.217        | 3.213            | 0.004            | 95  | 8124     | 5.00            | 4.89              |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.249        | 3.242            | 0.007            | 86  | 6972     | 1.00            | 0.8526            |       |
| 30 1,1-Dichloroethene                    | 96  | 3.262        | 3.262            | 0.000            | 96  | 6385     | 1.00            | 0.7978            |       |
| 31 Acetone                               | 43  | 3.361        | 3.358            | 0.003            | 100 | 19904    | 5.00            | 5.17              |       |
| 33 Iodomethane                           | 142 | 3.426        | 3.445            | -0.019           | 99  | 13328    | 1.00            | 0.9100            | M     |
| 35 Carbon disulfide                      | 76  | 3.474        | 3.480            | -0.006           | 99  | 17987    | 1.00            | 0.8112            |       |
| 37 3-Chloro-1-propene                    | 41  | 3.590        | 3.586            | 0.004            | 87  | 10738    | 1.00            | 0.8563            |       |
| 38 Methyl acetate                        | 43  | 3.619        | 3.615            | 0.004            | 97  | 22786    | 2.00            | 2.07              |       |
| 39 Methylene Chloride                    | 84  | 3.718        | 3.721            | -0.003           | 87  | 11822    | 1.00            | 0.8652            |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.840        | 3.844            | -0.004           | 99  | 16081    | 10.0            | 9.53              | M     |
| 41 Methyl tert-butyl ether               | 73  | 3.905        | 3.901            | 0.004            | 93  | 29946    | 1.00            | 0.9464            |       |
| 42 trans-1,2-Dichloroethene              | 96  | 3.927        | 3.927            | 0.000            | 97  | 8734     | 1.00            | 0.8904            |       |
| 44 Acrylonitrile                         | 53  | 3.975        | 3.972            | 0.003            | 98  | 52747    | 10.0            | 9.77              |       |
| 47 Hexane                                | 57  | 4.082        | 4.081            | 0.001            | 87  | 11070    | 1.00            | 0.8472            |       |



| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 50 1,1-Dichloroethane           | 63  | 4.307     | 4.307         | 0.000         | 93 | 14325    | 1.00         | 0.8959         |       |
| 49 Vinyl acetate                | 43  | 4.326     | 4.323         | 0.003         | 97 | 35278    | 2.00         | 1.72           |       |
| 56 2,2-Dichloropropane          | 77  | 4.783     | 4.779         | 0.004         | 87 | 8846     | 1.00         | 0.9190         |       |
| 58 cis-1,2-Dichloroethene       | 96  | 4.805     | 4.808         | -0.003        | 74 | 9974     | 1.00         | 0.9027         |       |
| 57 2-Butanone (MEK)             | 43  | 4.834     | 4.824         | 0.010         | 99 | 33711    | 5.00         | 4.65           |       |
| 60 Chlorobromomethane           | 128 | 5.030     | 5.030         | 0.000         | 84 | 4983     | 1.00         | 0.8512         |       |
| 61 Tetrahydrofuran              | 42  | 5.056     | 5.056         | 0.000         | 80 | 10028    | 2.00         | 1.97           |       |
| 62 Chloroform                   | 83  | 5.082     | 5.078         | 0.004         | 91 | 16181    | 1.00         | 0.9354         |       |
| 64 1,1,1-Trichloroethane        | 97  | 5.210     | 5.207         | 0.003         | 96 | 11798    | 1.00         | 0.8440         |       |
| 65 Cyclohexane                  | 56  | 5.223     | 5.223         | 0.000         | 58 | 12069    | 1.00         | 0.8022         |       |
| 66 Carbon tetrachloride         | 117 | 5.336     | 5.339         | -0.003        | 82 | 9127     | 1.00         | 0.7859         |       |
| 67 1,1-Dichloropropene          | 75  | 5.342     | 5.339         | 0.003         | 92 | 11260    | 1.00         | 0.8536         |       |
| 69 Isobutyl alcohol             | 43  | 5.483     | 5.477         | 0.006         | 94 | 18852    | 25.0         | 24.2           |       |
| 70 Benzene                      | 78  | 5.535     | 5.538         | -0.003        | 95 | 35988    | 1.00         | 0.9002         |       |
| 72 1,2-Dichloroethane           | 62  | 5.593     | 5.593         | 0.000         | 97 | 12956    | 1.00         | 0.9402         |       |
| 73 n-Heptane                    | 43  | 5.651     | 5.647         | 0.004         | 90 | 13068    | 1.00         | 0.8773         |       |
| 75 Trichloroethene              | 95  | 6.091     | 6.094         | -0.003        | 96 | 8993     | 1.00         | 0.8652         |       |
| 76 Methylcyclohexane            | 83  | 6.213     | 6.216         | -0.003        | 86 | 13535    | 1.00         | 0.8081         |       |
| 77 1,2-Dichloropropane          | 63  | 6.329     | 6.329         | 0.000         | 93 | 8315     | 1.00         | 0.8778         |       |
| 81 1,4-Dioxane                  | 88  | 6.455     | 6.454         | 0.000         | 68 | 1325     | 20.0         | 10.2           |       |
| 82 Dibromomethane               | 93  | 6.467     | 6.464         | 0.003         | 95 | 6283     | 1.00         | 0.9332         |       |
| 83 Dichlorobromomethane         | 83  | 6.593     | 6.586         | 0.007         | 95 | 10180    | 1.00         | 0.8752         |       |
| 84 2-Chloroethyl vinyl ether    | 63  | 6.821     | 6.821         | 0.000         | 92 | 6165     | 1.00         | 0.8052         |       |
| 85 cis-1,3-Dichloropropene      | 75  | 6.982     | 6.982         | 0.000         | 95 | 12800    | 1.00         | 0.8293         |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  | 7.101     | 7.101         | 0.000         | 95 | 64170    | 5.00         | 4.69           |       |
| 88 Toluene                      | 92  | 7.271     | 7.268         | 0.003         | 97 | 21987    | 1.00         | 0.8774         |       |
| 91 trans-1,3-Dichloropropene    | 75  | 7.519     | 7.519         | 0.000         | 96 | 11305    | 1.00         | 0.8223         |       |
| 90 Ethyl methacrylate           | 69  | 7.528     | 7.528         | 0.000         | 86 | 11986    | 1.00         | 0.8352         |       |
| 93 1,1,2-Trichloroethane        | 83  | 7.712     | 7.715         | -0.003        | 88 | 7034     | 1.00         | 0.8972         |       |
| 94 Tetrachloroethene            | 166 | 7.795     | 7.792         | 0.003         | 92 | 9707     | 1.00         | 0.8689         |       |
| 95 1,3-Dichloropropane          | 76  | 7.882     | 7.879         | 0.003         | 83 | 15246    | 1.00         | 0.9060         |       |
| 96 2-Hexanone                   | 43  | 7.914     | 7.911         | 0.003         | 94 | 44376    | 5.00         | 4.57           |       |
| 98 Chlorodibromomethane         | 129 | 8.123     | 8.117         | 0.006         | 0  | 6982     | 1.00         | 0.8064         | M     |
| 101 Ethylene Dibromide          | 107 | 8.242     | 8.245         | -0.003        | 97 | 9093     | 1.00         | 0.8828         |       |
| 103 Chlorobenzene               | 112 | 8.702     | 8.699         | 0.003         | 97 | 25287    | 1.00         | 0.8931         |       |
| 104 Ethylbenzene                | 91  | 8.770     | 8.766         | 0.004         | 98 | 40110    | 1.00         | 0.8839         |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.782     | 8.782         | 0.000         | 90 | 7839     | 1.00         | 0.8444         |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 15428    | 1.00         | 0.8583         |       |
| 107 o-Xylene                    | 106 | 9.319     | 9.316         | 0.003         | 94 | 14823    | 1.00         | 0.8394         |       |
| 109 Styrene                     | 104 | 9.342     | 9.342         | 0.000         | 95 | 24600    | 1.00         | 0.8379         |       |
| 110 Bromoform                   | 173 | 9.622     | 9.618         | 0.004         | 0  | 4703     | 1.00         | 0.7897         | M     |
| 111 Isopropylbenzene            | 105 | 9.689     | 9.689         | 0.000         | 96 | 38814    | 1.00         | 0.8318         |       |
| 113 Bromobenzene                | 156 | 10.085    | 10.085        | 0.000         | 90 | 10766    | 1.00         | 0.8810         |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.098    | 10.097        | 0.001         | 93 | 13824    | 1.00         | 0.9225         |       |
| 114 N-Propylbenzene             | 91  | 10.130    | 10.130        | 0.000         | 98 | 45444    | 1.00         | 0.8381         |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.146    | 10.146        | 0.000         | 73 | 3155     | 1.00         | 0.7782         |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.146    | 10.149        | -0.003        | 86 | 4962     | 1.00         | 0.9273         |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 0  | 10001    | 1.00         | 0.8879         | M     |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.303        | 0.000         | 94 | 32264    | 1.00         | 0.8413         |       |
| 119 4-Chlorotoluene             | 91  | 10.371    | 10.367        | 0.004         | 96 | 28830    | 1.00         | 0.8594         |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 91 | 7365     | 1.00         | 0.8279         |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.689    | 10.686        | 0.003         | 96 | 33430    | 1.00         | 0.8495         |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 122 sec-Butylbenzene             | 105 | 10.843       | 10.843           | 0.000            | 94 | 40819    | 1.00            | 0.8250            |       |
| 123 4-Isopropyltoluene           | 119 | 10.972       | 10.972           | 0.000            | 97 | 35190    | 1.00            | 0.8208            |       |
| 124 1,3-Dichlorobenzene          | 146 | 11.001       | 11.001           | 0.000            | 95 | 20693    | 1.00            | 0.8848            |       |
| 126 1,4-Dichlorobenzene          | 146 | 11.085       | 11.088           | -0.003           | 94 | 22141    | 1.00            | 0.9188            |       |
| 127 n-Butylbenzene               | 91  | 11.355       | 11.355           | 0.000            | 97 | 31949    | 1.00            | 0.8378            |       |
| 128 1,2-Dichlorobenzene          | 146 | 11.438       | 11.438           | 0.000            | 98 | 21196    | 1.00            | 0.9171            |       |
| 129 1,2-Dibromo-3-Chloropropane  | 75  | 12.136       | 12.136           | 0.000            | 80 | 2640     | 1.00            | 0.8650            |       |
| 130 1,2,4-Trichlorobenzene       | 180 | 12.760       | 12.763           | -0.003           | 92 | 16237    | 1.00            | 0.9357            |       |
| 131 Hexachlorobutadiene          | 225 | 12.850       | 12.850           | 0.000            | 95 | 6536     | 1.00            | 0.8694            |       |
| 132 Naphthalene                  | 128 | 12.978       | 12.978           | 0.000            | 97 | 47966    | 1.00            | 0.8966            |       |
| 133 1,2,3-Trichlorobenzene       | 180 | 13.178       | 13.178           | 0.000            | 95 | 14747    | 1.00            | 0.8975            |       |
| S 142 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 4.36              |       |
| S 144 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 1.65              |       |
| S 141 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 1.79              |       |
| S 143 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 1.70              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00226

Amount Added: 1.00

Units: uL

GAS CORP mix\_00517

Amount Added: 1.00

Units: uL

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18026.D

Injection Date: 07-Jul-2022 12:30:12

Instrument ID: HP5977L

Lims ID: IC

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#:

10

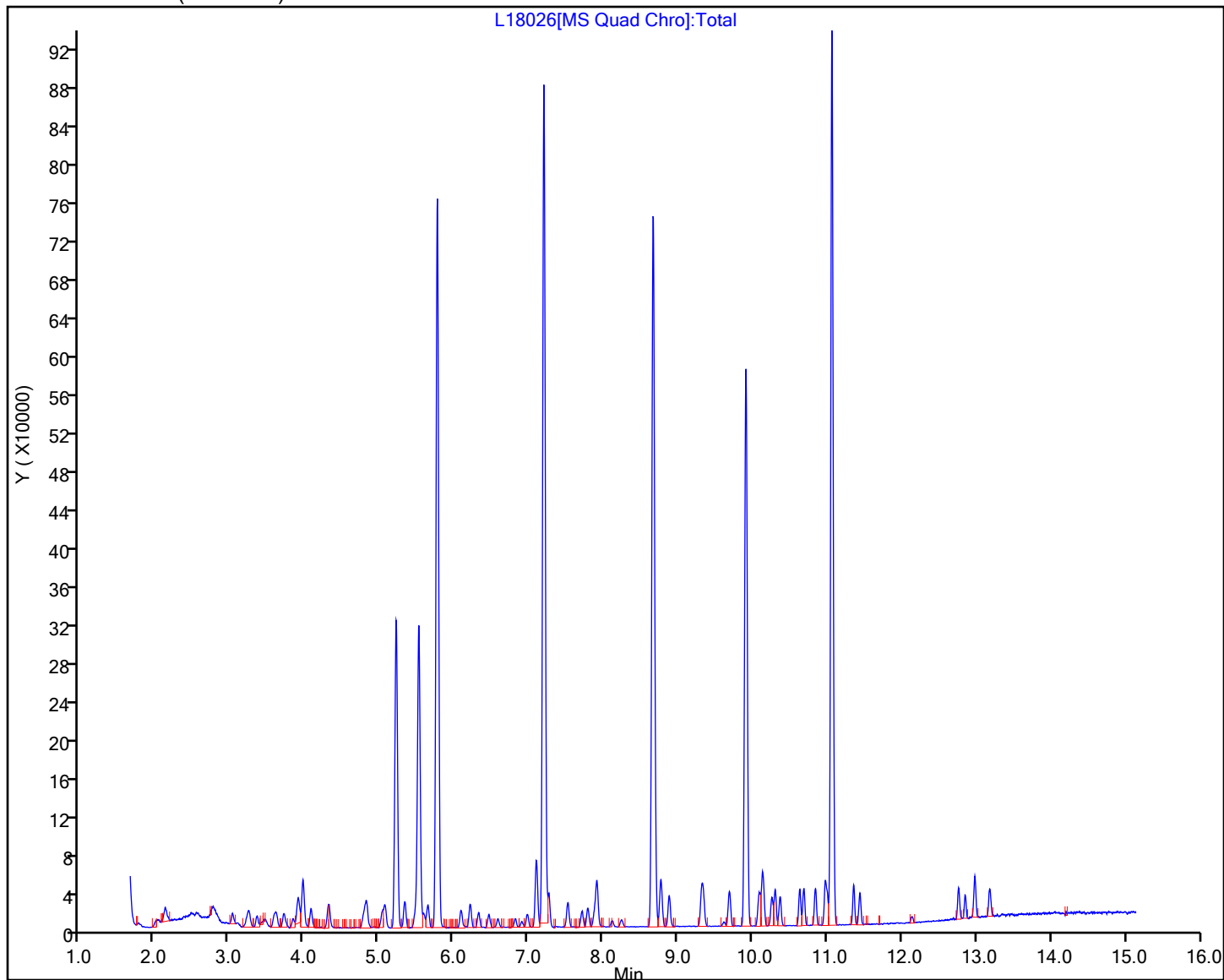
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



## Eurofins Buffalo

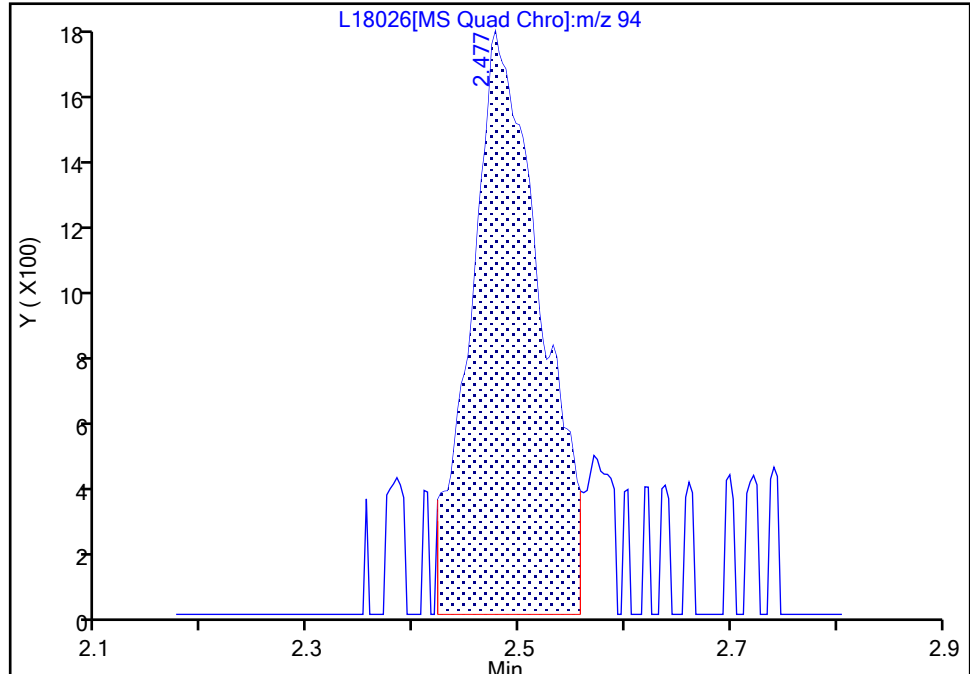
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18026.D  
Injection Date: 07-Jul-2022 12:30:12 Instrument ID: HP5977L  
Lims ID: IC  
Client ID:  
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

**18 Bromomethane, CAS: 74-83-9**

Signal: 1

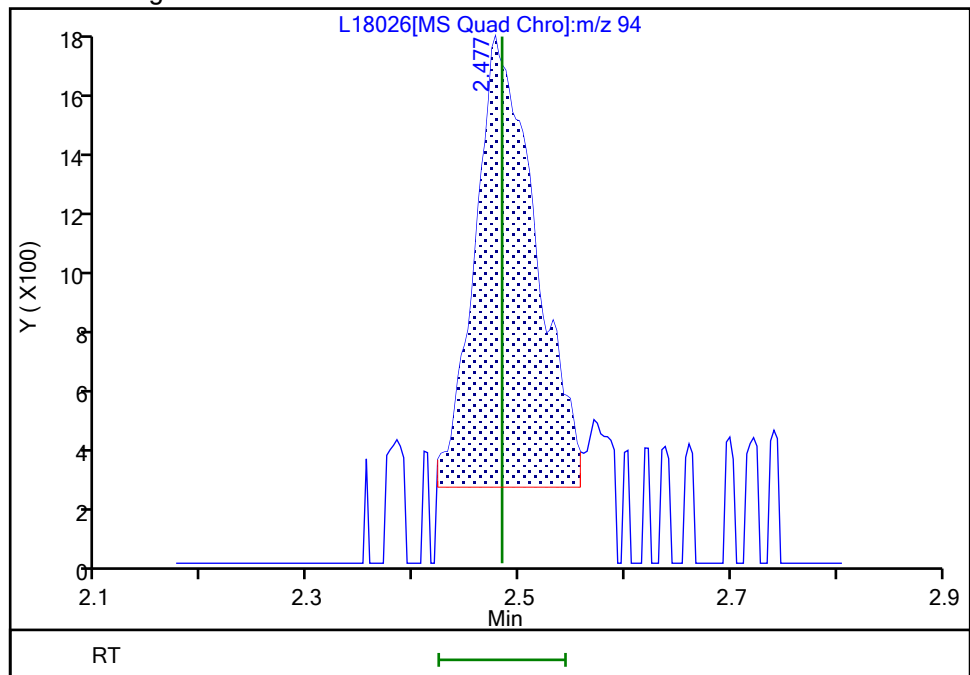
RT: 2.48  
Area: 8223  
Amount: 0.965788  
Amount Units: ug/L

## Processing Integration Results



RT: 2.48  
Area: 6082  
Amount: 0.847725  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 07-Jul-2022 12:55:02  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 438 of 733

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18026.D

Injection Date: 07-Jul-2022 12:30:12

Instrument ID: HP5977L

Lims ID: IC

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

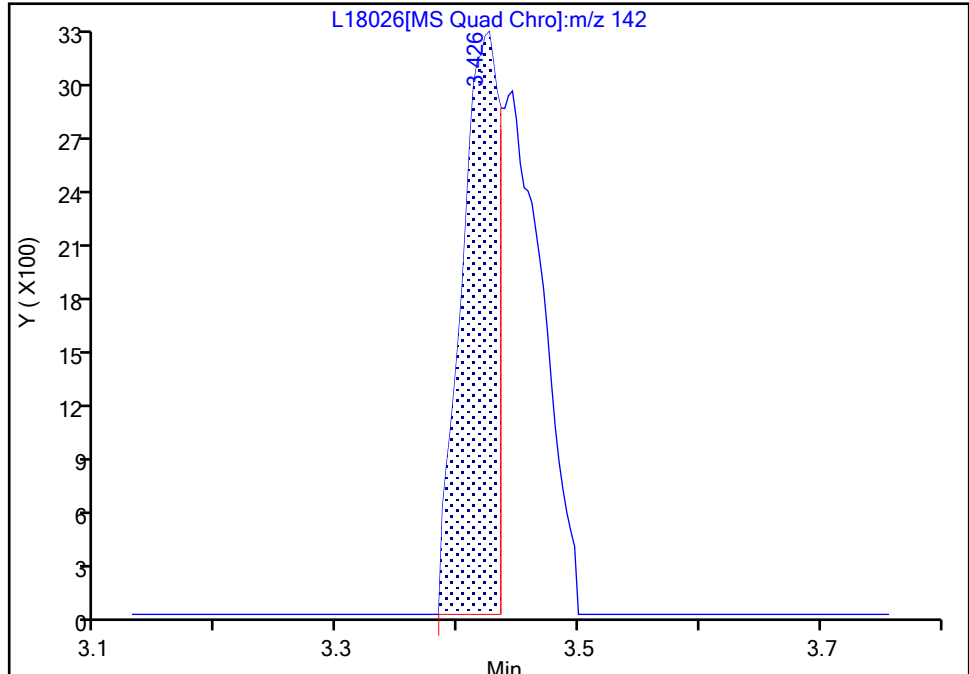
Detector: MS Quad

**33 Iodomethane, CAS: 74-88-4**

Signal: 1

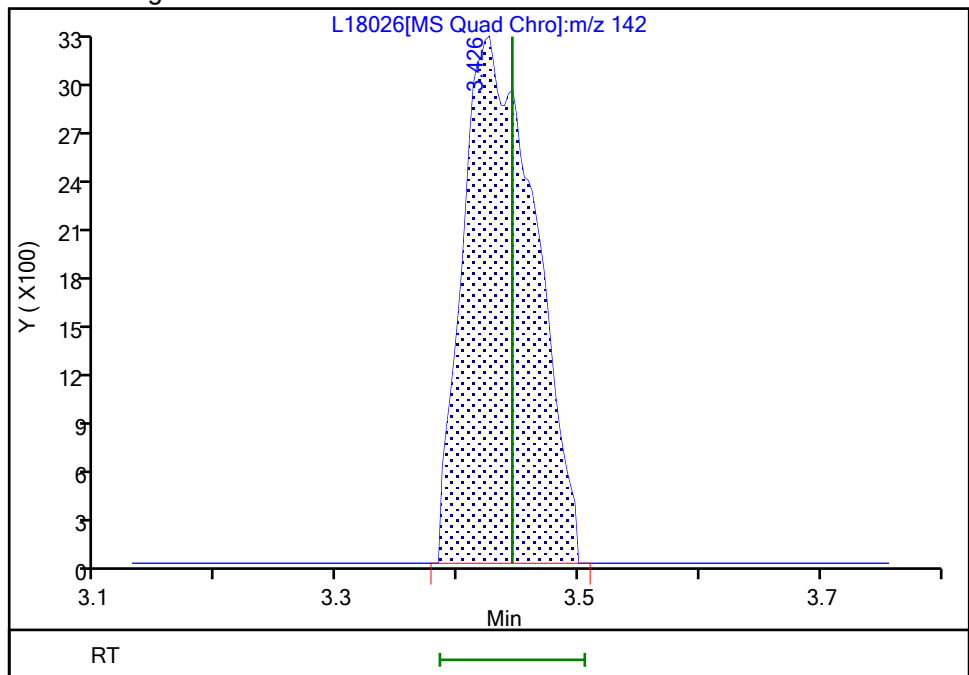
RT: 3.43  
Area: 6907  
Amount: 0.687306  
Amount Units: ug/L

## Processing Integration Results



RT: 3.43  
Area: 13328  
Amount: 0.909951  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 07-Jul-2022 12:55:17

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18026.D

Injection Date: 07-Jul-2022 12:30:12

Instrument ID: HP5977L

Lims ID: IC

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

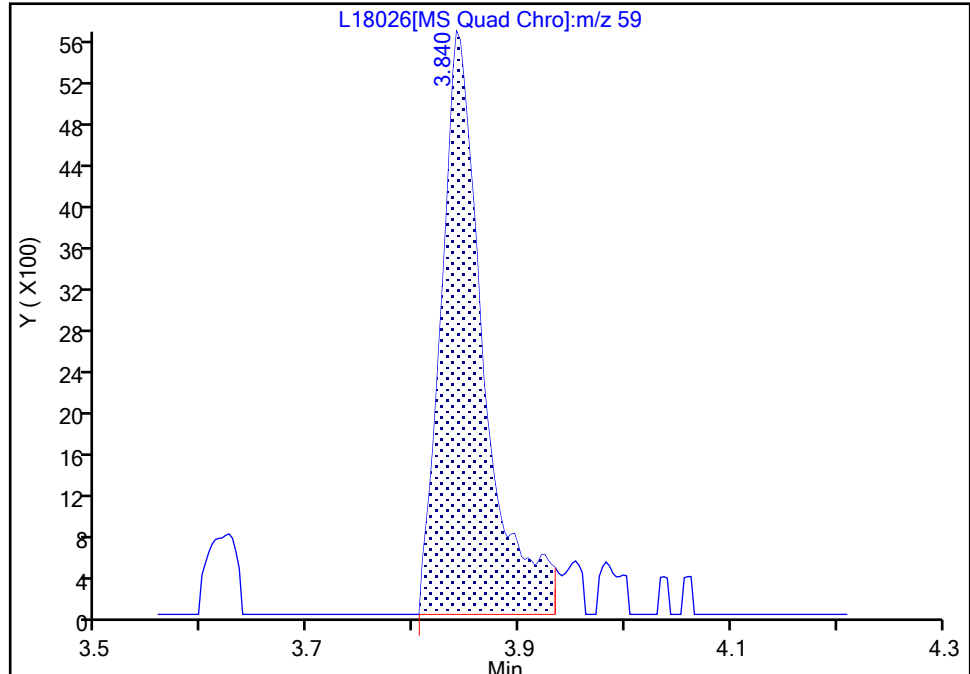
Detector: MS Quad

**40 2-Methyl-2-propanol, CAS: 75-65-0**

Signal: 1

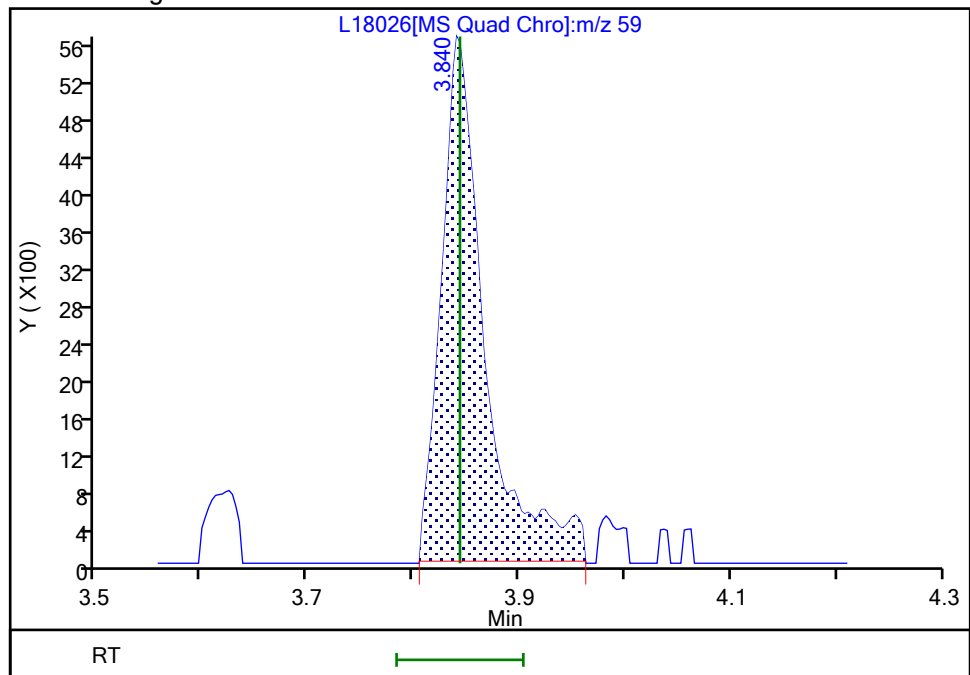
RT: 3.84  
Area: 15616  
Amount: 9.379362  
Amount Units: ug/L

## Processing Integration Results



RT: 3.84  
Area: 16081  
Amount: 9.526601  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 11-Jul-2022 09:53:36

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18026.D

Injection Date: 07-Jul-2022 12:30:12

Instrument ID: HP5977L

Lims ID: IC

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

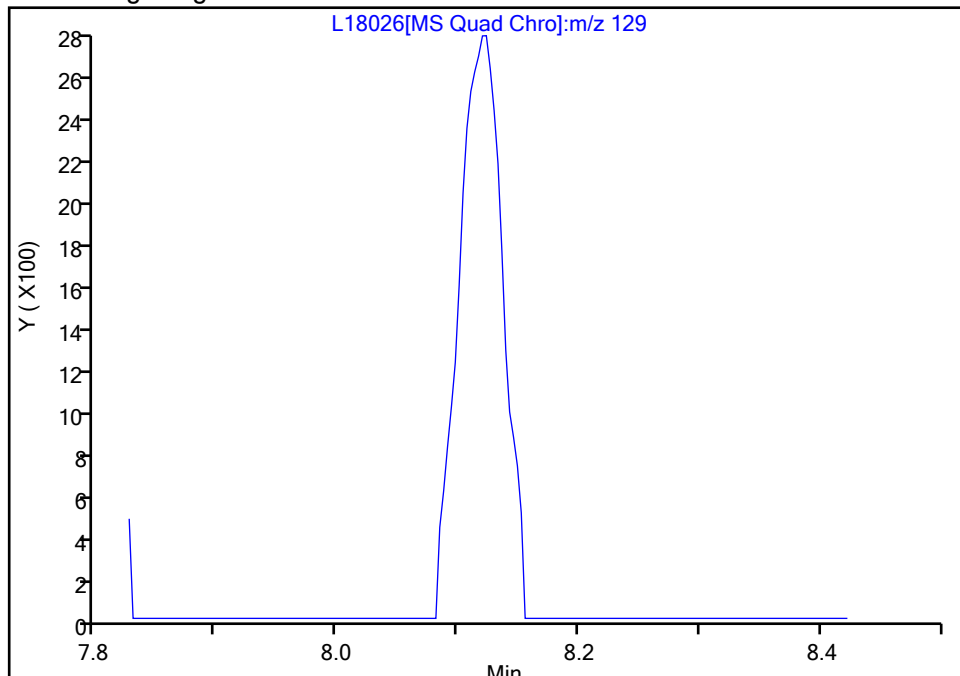
**98 Chlorodibromomethane, CAS: 124-48-1**

Signal: 1

Not Detected

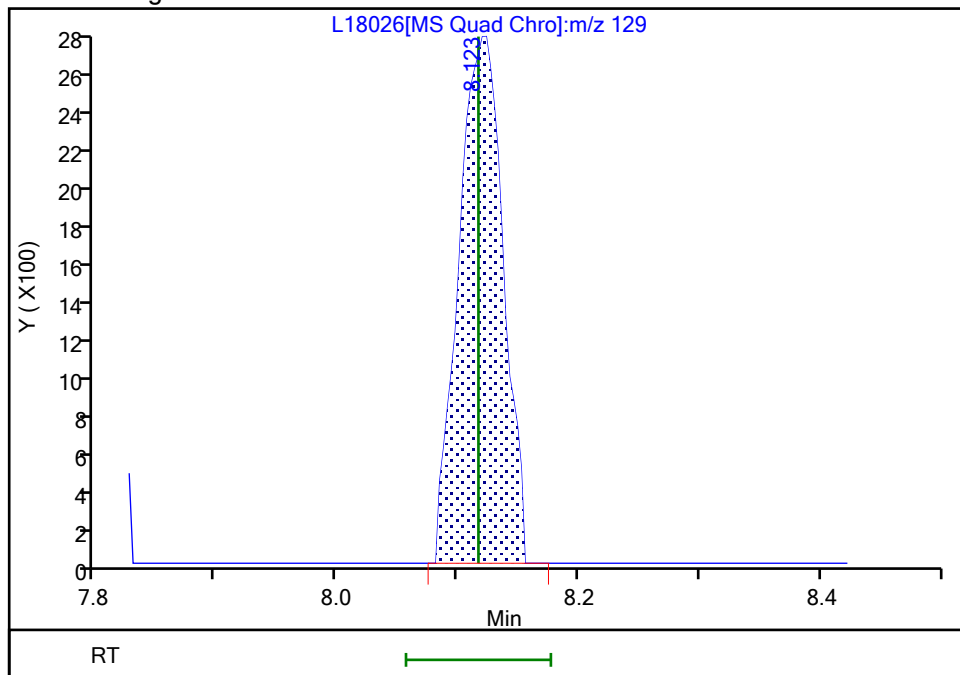
Expected RT: 8.12

## Processing Integration Results



## Manual Integration Results

RT: 8.12  
Area: 6982  
Amount: 0.806445  
Amount Units: ug/L



Reviewer: WLL8, 07-Jul-2022 14:37:06

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18026.D

Injection Date: 07-Jul-2022 12:30:12

Instrument ID: HP5977L

Lims ID: IC

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

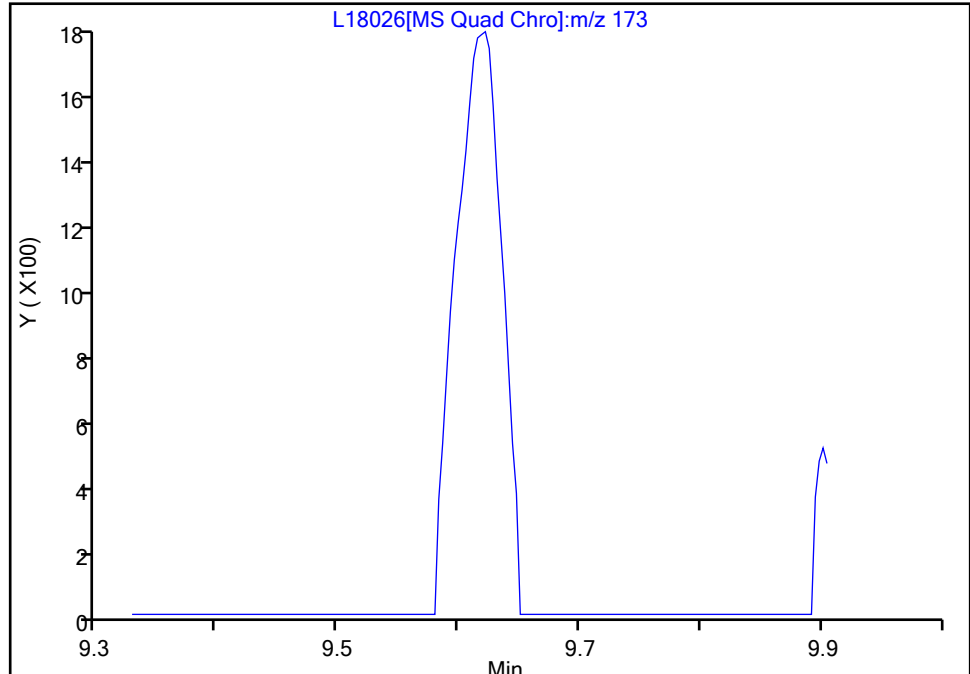
**110 Bromoform, CAS: 75-25-2**

Signal: 1

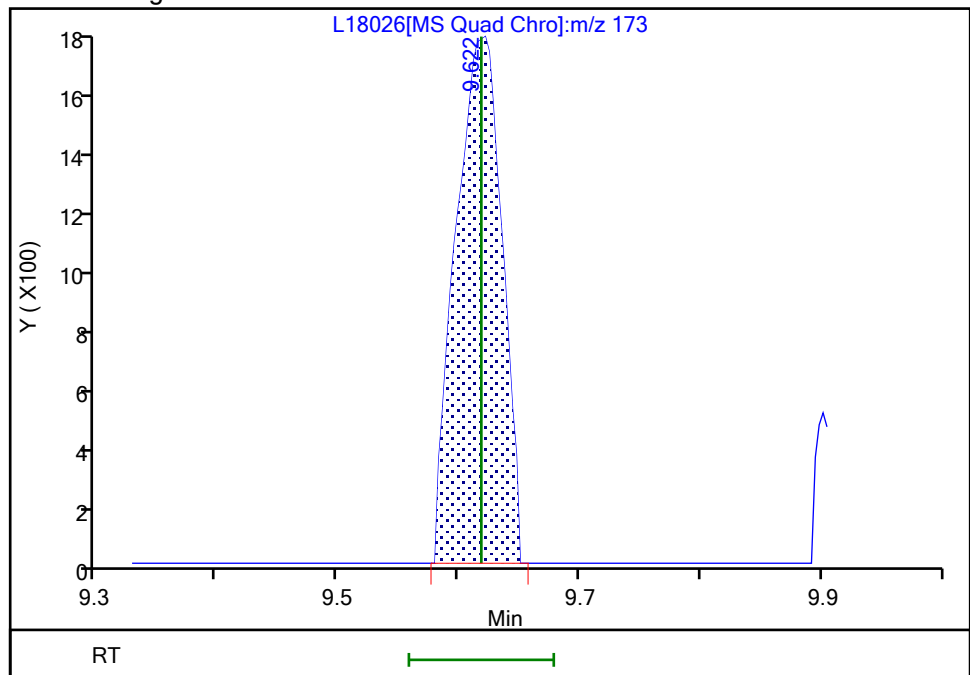
Not Detected

Expected RT: 9.62

## Processing Integration Results



## Manual Integration Results



RT: 9.62

Area: 4703

Amount: 0.789681

Amount Units: ug/L

Reviewer: WLL8, 07-Jul-2022 12:55:37

Audit Action: Manually Integrated

Audit Reason: Poor chromatography



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18026.D

Injection Date: 07-Jul-2022 12:30:12

Instrument ID: HP5977L

Lims ID: IC

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector: MS Quad

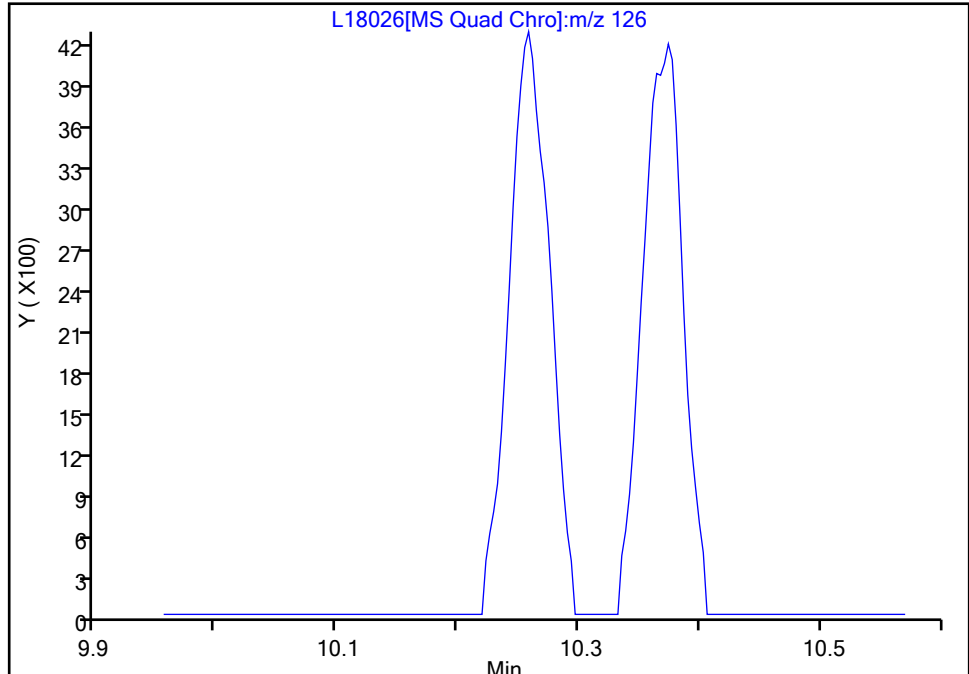
**117 2-Chlorotoluene, CAS: 95-49-8**

Signal: 1

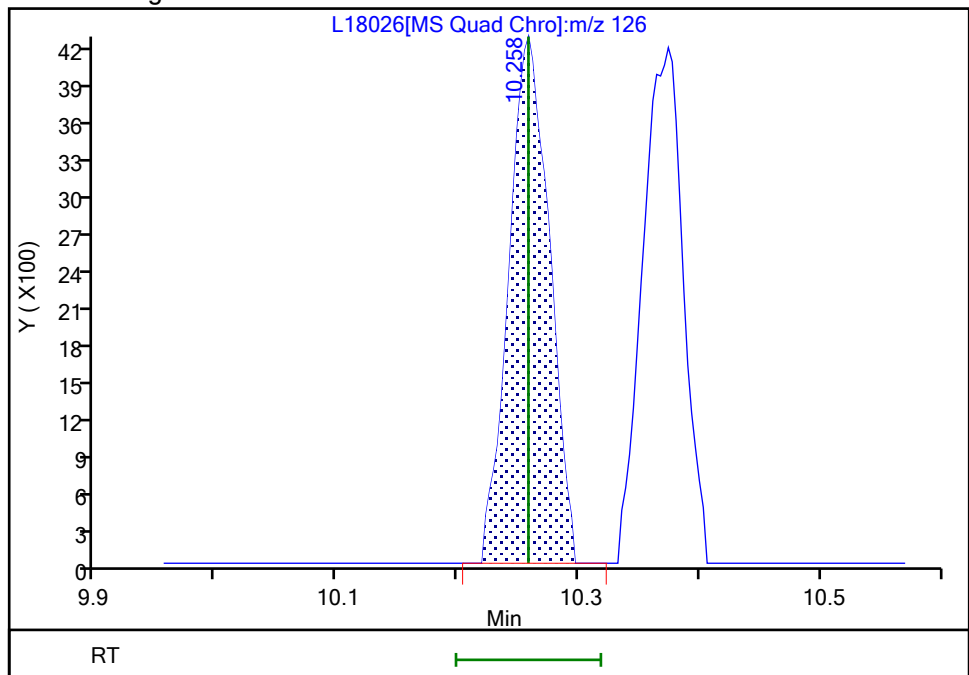
Not Detected

Expected RT: 10.26

## Processing Integration Results



## Manual Integration Results



Reviewer: WLL8, 07-Jul-2022 14:37:10

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18027.D  
 Lims ID: IC 2  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 07-Jul-2022 12:57:56 ALS Bottle#: 0 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC 2  
 Misc. Info.: 480-0106458-011  
 Operator ID: LH Instrument ID: HP5977L  
 Sublist: chrom-L-8260\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 11-Jul-2022 12:21:49 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1661

First Level Reviewer: WLL8

Date: 07-Jul-2022 14:38:16

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.776            | 0.000            | 99  | 170991   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.670        | 8.667            | 0.003            | 84  | 668893   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.062       | 11.065           | -0.003           | 95  | 360705   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226        | 5.226            | 0.000            | 95  | 217330   | 25.0            | 25.0              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.525        | 5.525            | 0.000            | 97  | 253774   | 25.0            | 25.8              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.204        | 7.204            | 0.000            | 93  | 848133   | 25.0            | 25.4              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911        | 9.911            | 0.000            | 99  | 263735   | 25.0            | 25.2              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.779        | 1.770            | 0.009            | 98  | 19741    | 2.00            | 1.87              |       |
| 13 Chloromethane                         | 50  | 2.014        | 2.011            | 0.003            | 98  | 19939    | 2.00            | 2.01              |       |
| 14 Vinyl chloride                        | 62  | 2.117        | 2.114            | 0.003            | 96  | 18817    | 2.00            | 2.00              |       |
| 15 Butadiene                             | 54  | 2.136        | 2.136            | 0.000            | 88  | 15272    | 2.00            | 2.01              |       |
| 18 Bromomethane                          | 94  | 2.483        | 2.483            | 0.000            | 91  | 14760    | 2.00            | 2.12              |       |
| 19 Chloroethane                          | 64  | 2.564        | 2.557            | 0.007            | 95  | 11298    | 2.00            | 1.96              |       |
| 20 Dichlorofluoromethane                 | 67  | 2.773        | 2.773            | 0.000            | 96  | 26582    | 2.00            | 2.04              |       |
| 21 Trichlorofluoromethane                | 101 | 2.779        | 2.779            | 0.000            | 64  | 23552    | 2.00            | 1.93              |       |
| 26 Ethyl ether                           | 59  | 3.033        | 3.030            | 0.003            | 87  | 16447    | 2.00            | 2.06              |       |
| 28 Acrolein                              | 56  | 3.216        | 3.213            | 0.003            | 97  | 16463    | 10.0            | 10.2              |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.245        | 3.242            | 0.003            | 88  | 16194    | 2.00            | 2.04              |       |
| 30 1,1-Dichloroethene                    | 96  | 3.252        | 3.262            | -0.010           | 96  | 16036    | 2.00            | 2.07              |       |
| 31 Acetone                               | 43  | 3.361        | 3.358            | 0.003            | 100 | 42321    | 10.0            | 11.3              |       |
| 33 Iodomethane                           | 142 | 3.451        | 3.445            | 0.006            | 98  | 28427    | 2.00            | 2.00              |       |
| 35 Carbon disulfide                      | 76  | 3.474        | 3.480            | -0.006           | 99  | 40511    | 2.00            | 1.88              |       |
| 37 3-Chloro-1-propene                    | 41  | 3.589        | 3.586            | 0.003            | 93  | 24285    | 2.00            | 2.00              |       |
| 38 Methyl acetate                        | 43  | 3.618        | 3.615            | 0.003            | 97  | 46649    | 4.00            | 4.37              |       |
| 39 Methylene Chloride                    | 84  | 3.718        | 3.721            | -0.003           | 91  | 23208    | 2.00            | 2.05              |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.847        | 3.844            | 0.003            | 100 | 36473    | 20.0            | 22.3              | M     |
| 41 Methyl tert-butyl ether               | 73  | 3.905        | 3.901            | 0.004            | 93  | 61988    | 2.00            | 2.02              |       |
| 42 trans-1,2-Dichloroethene              | 96  | 3.927        | 3.927            | 0.000            | 98  | 19294    | 2.00            | 2.03              |       |
| 44 Acrylonitrile                         | 53  | 3.975        | 3.972            | 0.003            | 99  | 113052   | 20.0            | 21.6              |       |
| 47 Hexane                                | 57  | 4.085        | 4.081            | 0.004            | 90  | 26592    | 2.00            | 2.10              |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 50 1,1-Dichloroethane           | 63  | 4.306     | 4.307         | -0.001        | 95 | 31748    | 2.00         | 2.05           |       |
| 49 Vinyl acetate                | 43  | 4.326     | 4.323         | 0.003         | 97 | 77001    | 4.00         | 3.86           |       |
| 56 2,2-Dichloropropane          | 77  | 4.782     | 4.779         | 0.003         | 85 | 19686    | 2.00         | 2.11           |       |
| 58 cis-1,2-Dichloroethene       | 96  | 4.808     | 4.808         | 0.000         | 77 | 22080    | 2.00         | 2.06           |       |
| 57 2-Butanone (MEK)             | 43  | 4.827     | 4.824         | 0.003         | 99 | 73463    | 10.0         | 10.5           |       |
| 60 Chlorobromomethane           | 128 | 5.033     | 5.030         | 0.003         | 84 | 11452    | 2.00         | 2.02           |       |
| 61 Tetrahydrofuran              | 42  | 5.062     | 5.056         | 0.006         | 86 | 20611    | 4.00         | 4.18           |       |
| 62 Chloroform                   | 83  | 5.075     | 5.078         | -0.003        | 92 | 35235    | 2.00         | 2.10           |       |
| 64 1,1,1-Trichloroethane        | 97  | 5.210     | 5.207         | 0.003         | 97 | 27341    | 2.00         | 2.02           |       |
| 65 Cyclohexane                  | 56  | 5.226     | 5.223         | 0.003         | 82 | 29577    | 2.00         | 2.03           |       |
| 66 Carbon tetrachloride         | 117 | 5.339     | 5.339         | 0.000         | 93 | 23006    | 2.00         | 2.04           |       |
| 67 1,1-Dichloropropene          | 75  | 5.345     | 5.339         | 0.006         | 97 | 26843    | 2.00         | 2.10           |       |
| 69 Isobutyl alcohol             | 43  | 5.480     | 5.477         | 0.003         | 94 | 38900    | 50.0         | 51.5           |       |
| 70 Benzene                      | 78  | 5.541     | 5.538         | 0.003         | 95 | 80554    | 2.00         | 2.08           |       |
| 72 1,2-Dichloroethane           | 62  | 5.593     | 5.593         | 0.000         | 97 | 27987    | 2.00         | 2.09           |       |
| 73 n-Heptane                    | 43  | 5.650     | 5.647         | 0.003         | 89 | 30151    | 2.00         | 2.09           |       |
| 75 Trichloroethene              | 95  | 6.097     | 6.094         | 0.003         | 96 | 20963    | 2.00         | 2.08           |       |
| 76 Methylcyclohexane            | 83  | 6.216     | 6.216         | 0.000         | 90 | 33644    | 2.00         | 2.07           |       |
| 77 1,2-Dichloropropane          | 63  | 6.326     | 6.329         | -0.003        | 95 | 19110    | 2.00         | 2.08           |       |
| 81 1,4-Dioxane                  | 88  | 6.464     | 6.454         | 0.010         | 44 | 4188     | 40.0         | 32.9           |       |
| 82 Dibromomethane               | 93  | 6.467     | 6.464         | 0.003         | 93 | 13060    | 2.00         | 2.00           |       |
| 83 Dichlorobromomethane         | 83  | 6.586     | 6.586         | 0.000         | 97 | 21700    | 2.00         | 1.92           |       |
| 84 2-Chloroethyl vinyl ether    | 63  | 6.821     | 6.821         | 0.000         | 92 | 14447    | 2.00         | 1.94           |       |
| 85 cis-1,3-Dichloropropene      | 75  | 6.978     | 6.982         | -0.004        | 96 | 28443    | 2.00         | 1.90           |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  | 7.104     | 7.101         | 0.003         | 95 | 138232   | 10.0         | 10.3           |       |
| 88 Toluene                      | 92  | 7.268     | 7.268         | 0.000         | 99 | 51564    | 2.00         | 2.09           |       |
| 91 trans-1,3-Dichloropropene    | 75  | 7.519     | 7.519         | 0.000         | 95 | 26000    | 2.00         | 1.93           |       |
| 90 Ethyl methacrylate           | 69  | 7.528     | 7.528         | 0.000         | 87 | 27550    | 2.00         | 1.95           |       |
| 93 1,1,2-Trichloroethane        | 83  | 7.715     | 7.715         | 0.000         | 89 | 15896    | 2.00         | 2.06           |       |
| 94 Tetrachloroethene            | 166 | 7.795     | 7.792         | 0.003         | 96 | 23275    | 2.00         | 2.12           |       |
| 95 1,3-Dichloropropane          | 76  | 7.879     | 7.879         | 0.000         | 93 | 34554    | 2.00         | 2.09           |       |
| 96 2-Hexanone                   | 43  | 7.914     | 7.911         | 0.003         | 94 | 95605    | 10.0         | 10.0           |       |
| 98 Chlorodibromomethane         | 129 | 8.120     | 8.117         | 0.003         | 88 | 15320    | 2.00         | 1.80           |       |
| 101 Ethylene Dibromide          | 107 | 8.245     | 8.245         | 0.000         | 99 | 20181    | 2.00         | 1.99           |       |
| 103 Chlorobenzene               | 112 | 8.695     | 8.699         | -0.004        | 98 | 57628    | 2.00         | 2.07           |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.766         | 0.000         | 98 | 90853    | 2.00         | 2.04           |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.782     | 8.782         | 0.000         | 91 | 17834    | 2.00         | 1.96           |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 36628    | 2.00         | 2.07           |       |
| 107 o-Xylene                    | 106 | 9.313     | 9.316         | -0.003        | 95 | 36098    | 2.00         | 2.08           |       |
| 109 Styrene                     | 104 | 9.345     | 9.342         | 0.003         | 93 | 57284    | 2.00         | 1.99           |       |
| 110 Bromoform                   | 173 | 9.615     | 9.618         | -0.003        | 95 | 10424    | 2.00         | 1.78           |       |
| 111 Isopropylbenzene            | 105 | 9.689     | 9.689         | 0.000         | 95 | 93090    | 2.00         | 2.02           |       |
| 113 Bromobenzene                | 156 | 10.084    | 10.085        | -0.001        | 91 | 24252    | 2.00         | 2.01           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.094    | 10.097        | -0.003        | 94 | 29575    | 2.00         | 2.00           |       |
| 114 N-Propylbenzene             | 91  | 10.129    | 10.130        | -0.001        | 98 | 108625   | 2.00         | 2.03           |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.149    | 10.146        | 0.003         | 72 | 7661     | 2.00         | 1.92           |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.149    | 10.149        | 0.000         | 85 | 10641    | 2.00         | 2.02           |       |
| 117 2-Chlorotoluene             | 126 | 10.261    | 10.258        | 0.003         | 97 | 22789    | 2.00         | 2.05           |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.303        | 0.000         | 94 | 76260    | 2.00         | 2.02           |       |
| 119 4-Chlorotoluene             | 91  | 10.371    | 10.367        | 0.004         | 97 | 68356    | 2.00         | 2.07           |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 91 | 17216    | 2.00         | 1.96           |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.686    | 10.686        | 0.000         | 96 | 77622    | 2.00         | 2.00           |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 122 sec-Butylbenzene             | 105 | 10.843       | 10.843           | 0.000            | 94 | 98029    | 2.00            | 2.01              |       |
| 123 4-Isopropyltoluene           | 119 | 10.972       | 10.972           | 0.000            | 97 | 84363    | 2.00            | 2.00              |       |
| 124 1,3-Dichlorobenzene          | 146 | 11.004       | 11.001           | 0.003            | 96 | 47581    | 2.00            | 2.07              |       |
| 126 1,4-Dichlorobenzene          | 146 | 11.088       | 11.088           | 0.000            | 95 | 49155    | 2.00            | 2.07              |       |
| 127 n-Butylbenzene               | 91  | 11.355       | 11.355           | 0.000            | 97 | 75716    | 2.00            | 2.02              |       |
| 128 1,2-Dichlorobenzene          | 146 | 11.438       | 11.438           | 0.000            | 98 | 46841    | 2.00            | 2.06              |       |
| 129 1,2-Dibromo-3-Chloropropane  | 75  | 12.139       | 12.136           | 0.003            | 84 | 5604     | 2.00            | 1.86              |       |
| 130 1,2,4-Trichlorobenzene       | 180 | 12.763       | 12.763           | 0.000            | 94 | 32756    | 2.00            | 1.92              |       |
| 131 Hexachlorobutadiene          | 225 | 12.850       | 12.850           | 0.000            | 96 | 15444    | 2.00            | 2.09              |       |
| 132 Naphthalene                  | 128 | 12.978       | 12.978           | 0.000            | 96 | 103259   | 2.00            | 1.96              |       |
| 133 1,2,3-Trichlorobenzene       | 180 | 13.178       | 13.178           | 0.000            | 95 | 33177    | 2.00            | 2.05              |       |
| S 142 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 10.4              |       |
| S 144 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 3.82              |       |
| S 141 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 4.09              |       |
| S 143 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 4.16              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00226

Amount Added: 2.00

Units: uL

GAS CORP mix\_00517

Amount Added: 2.00

Units: uL

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18027.D

Injection Date: 07-Jul-2022 12:57:56

Instrument ID: HP5977L

Lims ID: IC 2

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#:

11

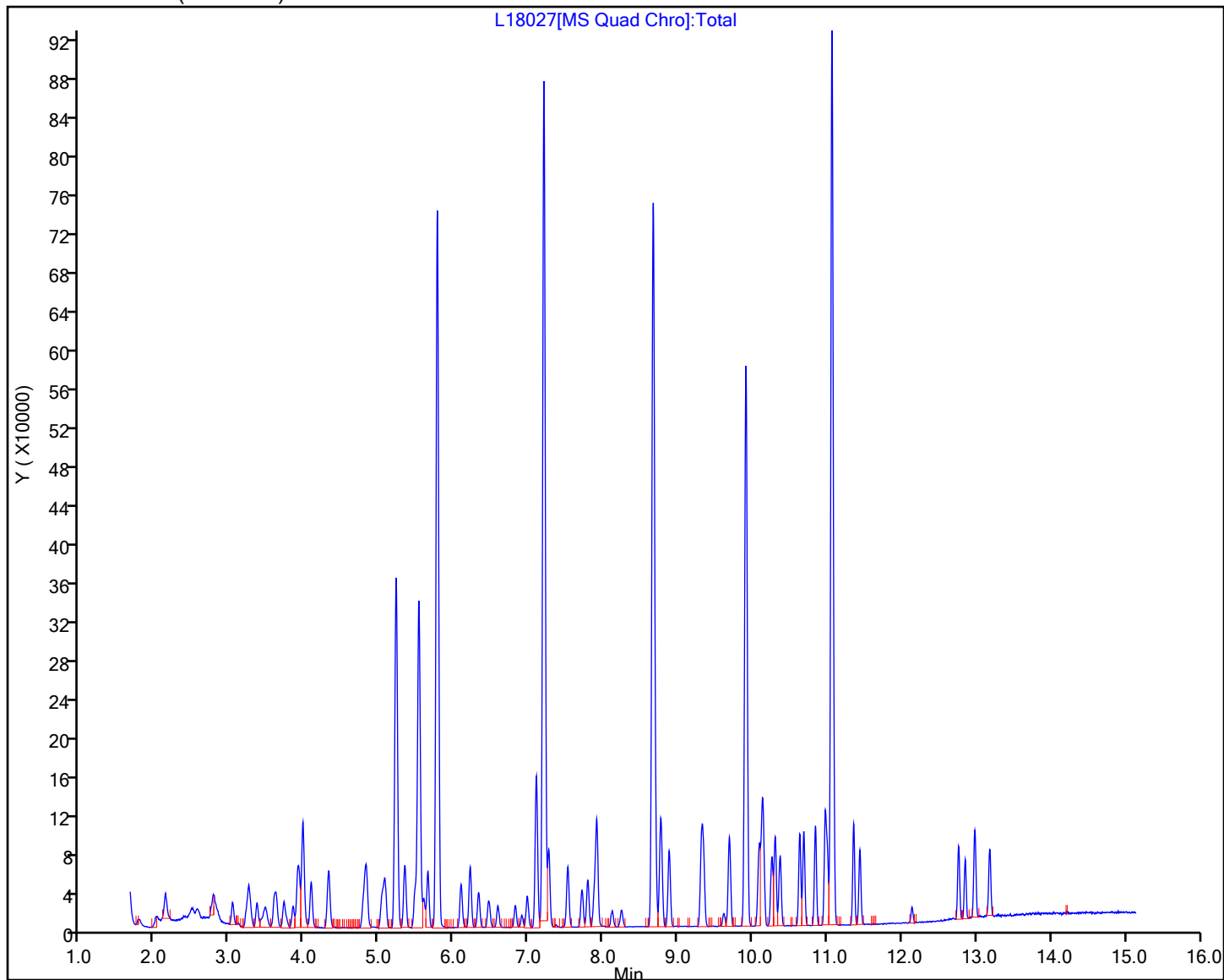
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18027.D

Injection Date: 07-Jul-2022 12:57:56

Instrument ID: HP5977L

Lims ID: IC 2

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

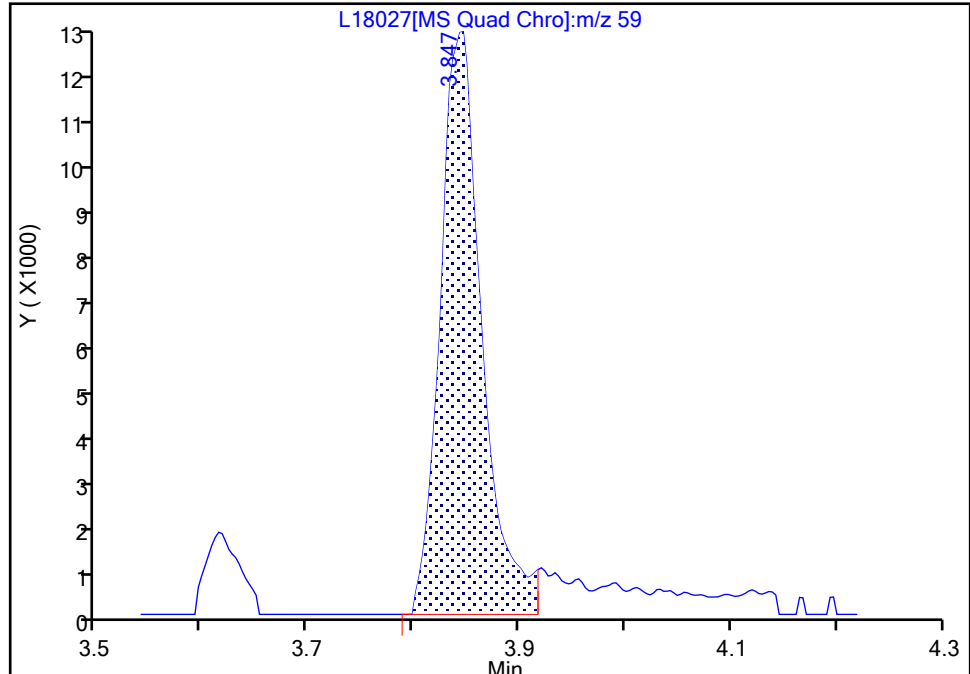
Detector: MS Quad

**40 2-Methyl-2-propanol, CAS: 75-65-0**

Signal: 1

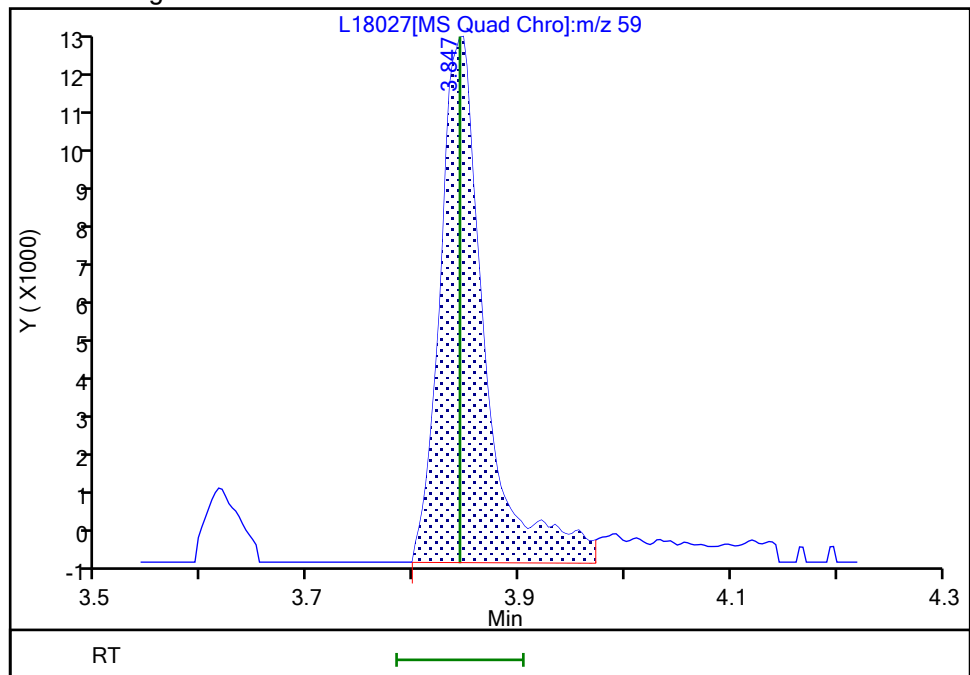
RT: 3.85  
Area: 33940  
Amount: 19.476436  
Amount Units: ug/L

## Processing Integration Results



RT: 3.85  
Area: 36473  
Amount: 22.270003  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 11-Jul-2022 09:53:59

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18028.D  
 Lims ID: IC 3  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 07-Jul-2022 13:25:39 ALS Bottle#: 0 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC 3  
 Misc. Info.: 480-0106458-012  
 Operator ID: LH Instrument ID: HP5977L  
 Sublist: chrom-L-8260\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 11-Jul-2022 12:21:53 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1661

First Level Reviewer: WLL8

Date: 07-Jul-2022 14:38:56

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.776            | 0.000            | 99  | 172624   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.666        | 8.667            | -0.001           | 85  | 672600   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.065       | 11.065           | 0.000            | 94  | 360768   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226        | 5.226            | 0.000            | 97  | 214683   | 25.0            | 24.5              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.528        | 5.525            | 0.003            | 97  | 246020   | 25.0            | 24.8              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.203        | 7.204            | -0.001           | 93  | 835367   | 25.0            | 24.9              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.914        | 9.911            | 0.003            | 99  | 261503   | 25.0            | 24.9              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.776        | 1.770            | 0.006            | 98  | 54763    | 5.00            | 5.13              |       |
| 13 Chloromethane                         | 50  | 2.011        | 2.011            | -0.001           | 98  | 49126    | 5.00            | 4.92              |       |
| 14 Vinyl chloride                        | 62  | 2.120        | 2.114            | 0.006            | 98  | 48028    | 5.00            | 5.07              |       |
| 15 Butadiene                             | 54  | 2.136        | 2.136            | 0.000            | 89  | 40024    | 5.00            | 5.22              |       |
| 18 Bromomethane                          | 94  | 2.490        | 2.483            | 0.007            | 91  | 37345    | 5.00            | 5.31              |       |
| 19 Chloroethane                          | 64  | 2.567        | 2.557            | 0.010            | 99  | 29836    | 5.00            | 5.13              |       |
| 20 Dichlorofluoromethane                 | 67  | 2.773        | 2.773            | 0.000            | 97  | 66052    | 5.00            | 5.01              |       |
| 21 Trichlorofluoromethane                | 101 | 2.782        | 2.779            | 0.003            | 91  | 62382    | 5.00            | 5.06              |       |
| 26 Ethyl ether                           | 59  | 3.033        | 3.030            | 0.003            | 89  | 41643    | 5.00            | 5.16              |       |
| 28 Acrolein                              | 56  | 3.216        | 3.213            | 0.003            | 98  | 42656    | 25.0            | 26.2              |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.248        | 3.242            | 0.006            | 92  | 42323    | 5.00            | 5.28              |       |
| 30 1,1-Dichloroethene                    | 96  | 3.258        | 3.262            | -0.004           | 95  | 40741    | 5.00            | 5.20              |       |
| 31 Acetone                               | 43  | 3.358        | 3.358            | 0.000            | 100 | 102026   | 25.0            | 27.0              |       |
| 33 Iodomethane                           | 142 | 3.451        | 3.445            | 0.006            | 100 | 75265    | 5.00            | 5.25              |       |
| 35 Carbon disulfide                      | 76  | 3.480        | 3.480            | 0.000            | 98  | 109222   | 5.00            | 5.03              |       |
| 37 3-Chloro-1-propene                    | 41  | 3.589        | 3.586            | 0.003            | 92  | 62472    | 5.00            | 5.09              |       |
| 38 Methyl acetate                        | 43  | 3.618        | 3.615            | 0.003            | 97  | 109700   | 10.0            | 10.2              |       |
| 39 Methylene Chloride                    | 84  | 3.721        | 3.721            | 0.000            | 89  | 54321    | 5.00            | 5.15              |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.843        | 3.844            | -0.001           | 100 | 94100    | 50.0            | 56.9              | M     |
| 41 Methyl tert-butyl ether               | 73  | 3.904        | 3.901            | 0.003            | 93  | 160115   | 5.00            | 5.17              |       |
| 42 trans-1,2-Dichloroethene              | 96  | 3.927        | 3.927            | 0.000            | 97  | 51538    | 5.00            | 5.36              |       |
| 44 Acrylonitrile                         | 53  | 3.975        | 3.972            | 0.003            | 99  | 281648   | 50.0            | 53.3              |       |
| 47 Hexane                                | 57  | 4.084        | 4.081            | 0.003            | 91  | 67326    | 5.00            | 5.26              |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 50 1,1-Dichloroethane           | 63  | 4.306     | 4.307         | -0.001        | 95 | 81938    | 5.00         | 5.23           |       |
| 49 Vinyl acetate                | 43  | 4.326     | 4.323         | 0.003         | 97 | 205207   | 10.0         | 10.2           |       |
| 56 2,2-Dichloropropane          | 77  | 4.782     | 4.779         | 0.003         | 84 | 49653    | 5.00         | 5.27           |       |
| 58 cis-1,2-Dichloroethene       | 96  | 4.808     | 4.808         | 0.000         | 77 | 56316    | 5.00         | 5.20           |       |
| 57 2-Butanone (MEK)             | 43  | 4.827     | 4.824         | 0.003         | 99 | 186427   | 25.0         | 26.3           |       |
| 60 Chlorobromomethane           | 128 | 5.030     | 5.030         | 0.000         | 84 | 30500    | 5.00         | 5.32           |       |
| 61 Tetrahydrofuran              | 42  | 5.059     | 5.056         | 0.003         | 85 | 52290    | 10.0         | 10.5           |       |
| 62 Chloroform                   | 83  | 5.078     | 5.078         | 0.000         | 92 | 87908    | 5.00         | 5.19           |       |
| 64 1,1,1-Trichloroethane        | 97  | 5.210     | 5.207         | 0.003         | 97 | 73205    | 5.00         | 5.35           |       |
| 65 Cyclohexane                  | 56  | 5.226     | 5.223         | 0.003         | 75 | 79363    | 5.00         | 5.39           |       |
| 66 Carbon tetrachloride         | 117 | 5.338     | 5.339         | -0.001        | 93 | 58992    | 5.00         | 5.19           |       |
| 67 1,1-Dichloropropene          | 75  | 5.342     | 5.339         | 0.003         | 97 | 68660    | 5.00         | 5.31           |       |
| 69 Isobutyl alcohol             | 43  | 5.477     | 5.477         | 0.000         | 94 | 98882    | 125.0        | 129.8          |       |
| 70 Benzene                      | 78  | 5.538     | 5.538         | 0.000         | 95 | 202860   | 5.00         | 5.18           |       |
| 72 1,2-Dichloroethane           | 62  | 5.592     | 5.593         | -0.001        | 97 | 70571    | 5.00         | 5.23           |       |
| 73 n-Heptane                    | 43  | 5.650     | 5.647         | 0.003         | 91 | 74624    | 5.00         | 5.11           |       |
| 75 Trichloroethene              | 95  | 6.094     | 6.094         | 0.000         | 96 | 52910    | 5.00         | 5.20           |       |
| 76 Methylcyclohexane            | 83  | 6.216     | 6.216         | 0.000         | 86 | 87772    | 5.00         | 5.35           |       |
| 77 1,2-Dichloropropane          | 63  | 6.329     | 6.329         | 0.000         | 96 | 49129    | 5.00         | 5.29           |       |
| 81 1,4-Dioxane                  | 88  | 6.457     | 6.454         | 0.003         | 82 | 13032    | 100.0        | 101.9          |       |
| 82 Dibromomethane               | 93  | 6.467     | 6.464         | 0.003         | 94 | 34261    | 5.00         | 5.20           |       |
| 83 Dichlorobromomethane         | 83  | 6.586     | 6.586         | 0.000         | 99 | 56754    | 5.00         | 4.98           |       |
| 84 2-Chloroethyl vinyl ether    | 63  | 6.821     | 6.821         | 0.000         | 91 | 37970    | 5.00         | 5.06           |       |
| 85 cis-1,3-Dichloropropene      | 75  | 6.981     | 6.982         | -0.001        | 97 | 77429    | 5.00         | 5.12           |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  | 7.104     | 7.101         | 0.003         | 95 | 355660   | 25.0         | 26.3           |       |
| 88 Toluene                      | 92  | 7.271     | 7.268         | 0.003         | 99 | 130933   | 5.00         | 5.29           |       |
| 91 trans-1,3-Dichloropropene    | 75  | 7.518     | 7.519         | -0.001        | 96 | 69149    | 5.00         | 5.09           |       |
| 90 Ethyl methacrylate           | 69  | 7.528     | 7.528         | 0.000         | 88 | 72791    | 5.00         | 5.14           |       |
| 93 1,1,2-Trichloroethane        | 83  | 7.715     | 7.715         | 0.000         | 91 | 41262    | 5.00         | 5.33           |       |
| 94 Tetrachloroethene            | 166 | 7.792     | 7.792         | 0.000         | 97 | 59853    | 5.00         | 5.42           |       |
| 95 1,3-Dichloropropane          | 76  | 7.882     | 7.879         | 0.003         | 90 | 86600    | 5.00         | 5.21           |       |
| 96 2-Hexanone                   | 43  | 7.911     | 7.911         | 0.000         | 95 | 253552   | 25.0         | 26.5           |       |
| 98 Chlorodibromomethane         | 129 | 8.120     | 8.117         | 0.003         | 91 | 42833    | 5.00         | 5.01           |       |
| 101 Ethylene Dibromide          | 107 | 8.245     | 8.245         | 0.000         | 99 | 52960    | 5.00         | 5.21           |       |
| 103 Chlorobenzene               | 112 | 8.698     | 8.699         | -0.001        | 97 | 147787   | 5.00         | 5.29           |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.766         | 0.000         | 98 | 238282   | 5.00         | 5.32           |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.782     | 8.782         | 0.000         | 93 | 47476    | 5.00         | 5.18           |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 95853    | 5.00         | 5.40           |       |
| 107 o-Xylene                    | 106 | 9.316     | 9.316         | 0.000         | 96 | 92743    | 5.00         | 5.32           |       |
| 109 Styrene                     | 104 | 9.342     | 9.342         | 0.000         | 94 | 152580   | 5.00         | 5.26           |       |
| 110 Bromoform                   | 173 | 9.612     | 9.618         | -0.006        | 95 | 29754    | 5.00         | 5.06           |       |
| 111 Isopropylbenzene            | 105 | 9.689     | 9.689         | 0.000         | 95 | 241286   | 5.00         | 5.25           |       |
| 113 Bromobenzene                | 156 | 10.081    | 10.085        | -0.004        | 91 | 62474    | 5.00         | 5.19           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.097    | 10.097        | 0.000         | 94 | 75882    | 5.00         | 5.14           |       |
| 114 N-Propylbenzene             | 91  | 10.129    | 10.130        | -0.001        | 99 | 281845   | 5.00         | 5.28           |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.145    | 10.146        | -0.001        | 73 | 21379    | 5.00         | 5.35           |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.149    | 10.149        | 0.000         | 85 | 27858    | 5.00         | 5.28           |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 98 | 57798    | 5.00         | 5.21           |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.303        | 0.000         | 94 | 200737   | 5.00         | 5.31           |       |
| 119 4-Chlorotoluene             | 91  | 10.367    | 10.367        | 0.000         | 97 | 174173   | 5.00         | 5.27           |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 91 | 47571    | 5.00         | 5.43           |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.686    | 10.686        | 0.000         | 96 | 205917   | 5.00         | 5.31           |       |



| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 122 sec-Butylbenzene             | 105 | 10.843       | 10.843           | 0.000            | 94 | 261239   | 5.00            | 5.36              |       |
| 123 4-Isopropyltoluene           | 119 | 10.972       | 10.972           | 0.000            | 97 | 226434   | 5.00            | 5.36              |       |
| 124 1,3-Dichlorobenzene          | 146 | 11.004       | 11.001           | 0.003            | 97 | 122469   | 5.00            | 5.31              |       |
| 126 1,4-Dichlorobenzene          | 146 | 11.087       | 11.088           | -0.001           | 95 | 123864   | 5.00            | 5.22              |       |
| 127 n-Butylbenzene               | 91  | 11.354       | 11.355           | -0.001           | 98 | 201941   | 5.00            | 5.37              |       |
| 128 1,2-Dichlorobenzene          | 146 | 11.438       | 11.438           | 0.000            | 98 | 120559   | 5.00            | 5.29              |       |
| 129 1,2-Dibromo-3-Chloropropane  | 75  | 12.139       | 12.136           | 0.003            | 84 | 14315    | 5.00            | 4.76              |       |
| 130 1,2,4-Trichlorobenzene       | 180 | 12.763       | 12.763           | 0.000            | 94 | 87071    | 5.00            | 5.09              |       |
| 131 Hexachlorobutadiene          | 225 | 12.853       | 12.850           | 0.003            | 98 | 39358    | 5.00            | 5.31              |       |
| 132 Naphthalene                  | 128 | 12.978       | 12.978           | 0.000            | 96 | 269648   | 5.00            | 5.12              |       |
| 133 1,2,3-Trichlorobenzene       | 180 | 13.177       | 13.178           | -0.001           | 96 | 85305    | 5.00            | 5.27              |       |
| S 142 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 26.5              |       |
| S 144 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 10.2              |       |
| S 141 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 10.6              |       |
| S 143 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 10.7              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00226

Amount Added: 5.00

Units: uL

GAS CORP mix\_00517

Amount Added: 5.00

Units: uL

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18028.D

Injection Date: 07-Jul-2022 13:25:39

Instrument ID: HP5977L

Lims ID: IC 3

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#:

12

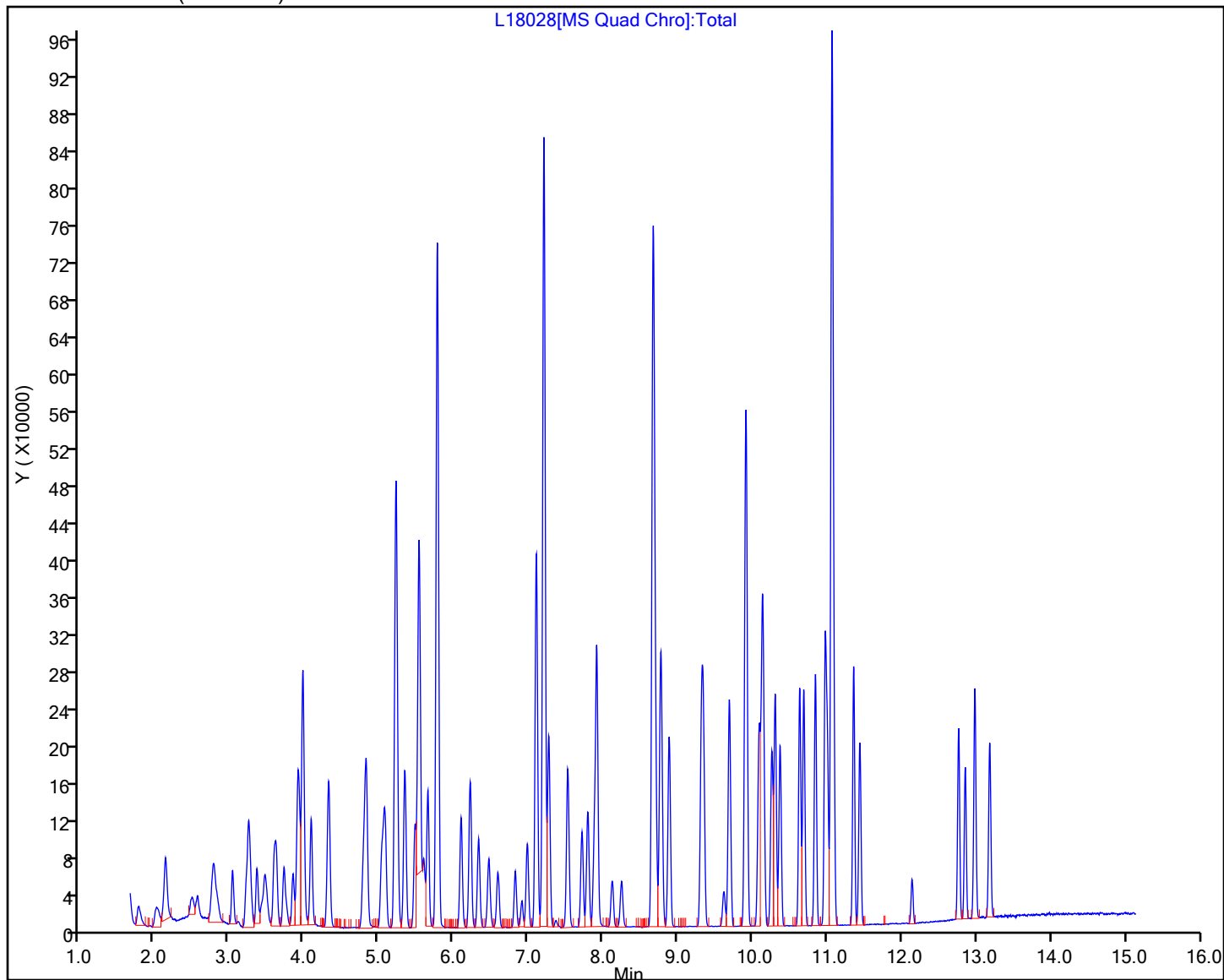
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18028.D

Injection Date: 07-Jul-2022 13:25:39

Instrument ID: HP5977L

Lims ID: IC 3

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

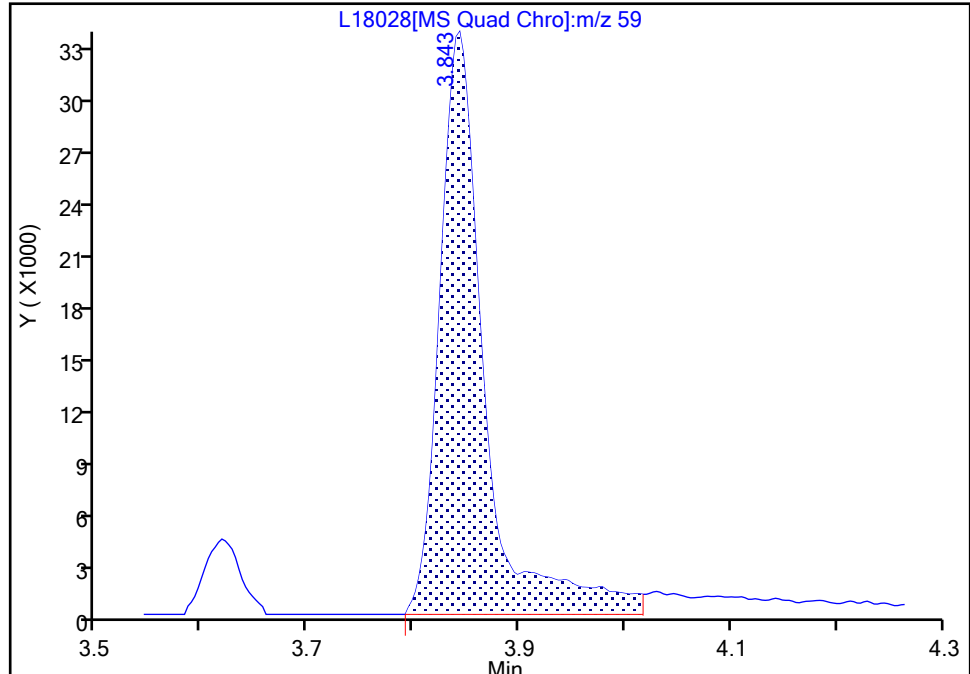
Detector: MS Quad

**40 2-Methyl-2-propanol, CAS: 75-65-0**

Signal: 1

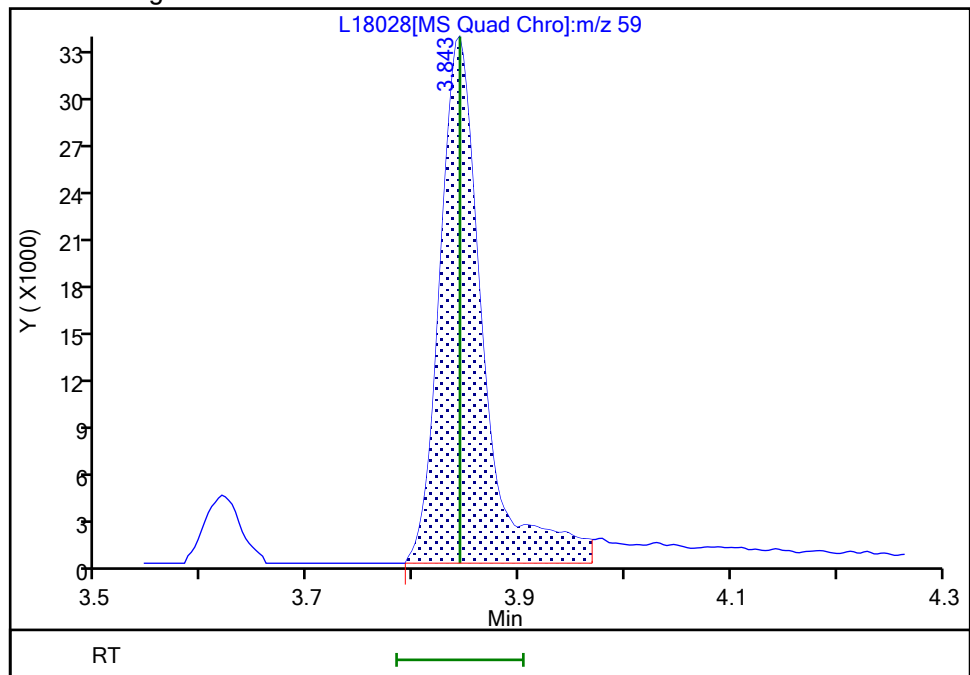
RT: 3.84  
Area: 97887  
Amount: 60.193170  
Amount Units: ug/L

## Processing Integration Results



RT: 3.84  
Area: 94100  
Amount: 56.912869  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 11-Jul-2022 09:54:31

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18029.D  
 Lims ID: IC 4  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 07-Jul-2022 13:53:24 ALS Bottle#: 0 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC 4  
 Misc. Info.: 480-0106458-013  
 Operator ID: LH Instrument ID: HP5977L  
 Sublist: chrom-L-8260\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 11-Jul-2022 12:21:57 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1661

First Level Reviewer: WLL8

Date: 07-Jul-2022 14:39:42

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.776            | 0.000            | 99  | 169105   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.670        | 8.667            | 0.003            | 84  | 654564   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.065       | 11.065           | 0.000            | 94  | 340745   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226        | 5.226            | 0.000            | 96  | 215748   | 25.0            | 25.1              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.525        | 5.525            | 0.000            | 96  | 242944   | 25.0            | 25.0              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.203        | 7.204            | -0.001           | 92  | 827677   | 25.0            | 25.3              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911        | 9.911            | 0.000            | 99  | 248644   | 25.0            | 24.3              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.773        | 1.770            | 0.003            | 98  | 92212    | 10.0            | 8.81              |       |
| 13 Chloromethane                         | 50  | 2.014        | 2.011            | 0.003            | 98  | 92241    | 10.0            | 9.42              |       |
| 14 Vinyl chloride                        | 62  | 2.117        | 2.114            | 0.003            | 96  | 89174    | 10.0            | 9.61              |       |
| 15 Butadiene                             | 54  | 2.136        | 2.136            | 0.000            | 90  | 69214    | 10.0            | 9.21              |       |
| 18 Bromomethane                          | 94  | 2.486        | 2.483            | 0.003            | 89  | 71228    | 10.0            | 10.3              |       |
| 19 Chloroethane                          | 64  | 2.564        | 2.557            | 0.007            | 98  | 56647    | 10.0            | 9.95              |       |
| 20 Dichlorofluoromethane                 | 67  | 2.773        | 2.773            | 0.000            | 97  | 125167   | 10.0            | 9.69              |       |
| 21 Trichlorofluoromethane                | 101 | 2.785        | 2.779            | 0.006            | 97  | 112074   | 10.0            | 9.28              |       |
| 26 Ethyl ether                           | 59  | 3.033        | 3.030            | 0.003            | 88  | 78509    | 10.0            | 9.93              |       |
| 28 Acrolein                              | 56  | 3.216        | 3.213            | 0.003            | 99  | 83159    | 50.0            | 52.2              |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.248        | 3.242            | 0.006            | 90  | 76780    | 10.0            | 9.79              |       |
| 30 1,1-Dichloroethene                    | 96  | 3.258        | 3.262            | -0.004           | 97  | 76399    | 10.0            | 9.95              |       |
| 31 Acetone                               | 43  | 3.358        | 3.358            | 0.000            | 100 | 199986   | 50.0            | 54.1              |       |
| 33 Iodomethane                           | 142 | 3.451        | 3.445            | 0.006            | 99  | 142394   | 10.0            | 10.1              |       |
| 35 Carbon disulfide                      | 76  | 3.477        | 3.480            | -0.003           | 99  | 213002   | 10.0            | 10.0              |       |
| 37 3-Chloro-1-propene                    | 41  | 3.589        | 3.586            | 0.003            | 92  | 118222   | 10.0            | 9.83              |       |
| 38 Methyl acetate                        | 43  | 3.615        | 3.615            | 0.000            | 97  | 211498   | 20.0            | 20.0              |       |
| 39 Methylene Chloride                    | 84  | 3.721        | 3.721            | 0.000            | 87  | 100184   | 10.0            | 9.96              |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.840        | 3.844            | -0.004           | 100 | 185489   | 100.0           | 114.5             | M     |
| 41 Methyl tert-butyl ether               | 73  | 3.904        | 3.901            | 0.003            | 93  | 306796   | 10.0            | 10.1              |       |
| 42 trans-1,2-Dichloroethene              | 96  | 3.927        | 3.927            | 0.000            | 98  | 94668    | 10.0            | 10.1              |       |
| 44 Acrylonitrile                         | 53  | 3.972        | 3.972            | 0.000            | 99  | 546333   | 100.0           | 105.5             |       |
| 47 Hexane                                | 57  | 4.084        | 4.081            | 0.003            | 90  | 121755   | 10.0            | 9.71              |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 50 1,1-Dichloroethane           | 63  | 4.306     | 4.307         | -0.001        | 95 | 154472   | 10.0         | 10.1           |       |
| 49 Vinyl acetate                | 43  | 4.322     | 4.323         | -0.001        | 97 | 404657   | 20.0         | 20.5           |       |
| 56 2,2-Dichloropropane          | 77  | 4.782     | 4.779         | 0.003         | 86 | 92026    | 10.0         | 9.96           |       |
| 58 cis-1,2-Dichloroethene       | 96  | 4.808     | 4.808         | 0.000         | 76 | 106117   | 10.0         | 10.0           |       |
| 57 2-Butanone (MEK)             | 43  | 4.827     | 4.824         | 0.003         | 99 | 357887   | 50.0         | 51.5           |       |
| 60 Chlorobromomethane           | 128 | 5.030     | 5.030         | 0.000         | 86 | 57648    | 10.0         | 10.3           |       |
| 61 Tetrahydrofuran              | 42  | 5.059     | 5.056         | 0.003         | 86 | 100359   | 20.0         | 20.6           |       |
| 62 Chloroform                   | 83  | 5.078     | 5.078         | 0.000         | 92 | 166483   | 10.0         | 10.0           |       |
| 64 1,1,1-Trichloroethane        | 97  | 5.207     | 5.207         | 0.000         | 98 | 135653   | 10.0         | 10.1           |       |
| 65 Cyclohexane                  | 56  | 5.223     | 5.223         | 0.000         | 88 | 144008   | 10.0         | 9.98           |       |
| 66 Carbon tetrachloride         | 117 | 5.338     | 5.339         | -0.001        | 96 | 109484   | 10.0         | 9.82           |       |
| 67 1,1-Dichloropropene          | 75  | 5.342     | 5.339         | 0.003         | 97 | 126956   | 10.0         | 10.0           |       |
| 69 Isobutyl alcohol             | 43  | 5.477     | 5.477         | 0.000         | 95 | 201459   | 250.0        | 269.9          |       |
| 70 Benzene                      | 78  | 5.538     | 5.538         | 0.000         | 95 | 381800   | 10.0         | 9.95           |       |
| 72 1,2-Dichloroethane           | 62  | 5.596     | 5.593         | 0.003         | 97 | 132570   | 10.0         | 10.0           |       |
| 73 n-Heptane                    | 43  | 5.647     | 5.647         | 0.000         | 90 | 130432   | 10.0         | 9.13           |       |
| 75 Trichloroethene              | 95  | 6.094     | 6.094         | 0.000         | 96 | 97842    | 10.0         | 9.81           |       |
| 76 Methylcyclohexane            | 83  | 6.216     | 6.216         | 0.000         | 86 | 159244   | 10.0         | 9.91           |       |
| 77 1,2-Dichloropropane          | 63  | 6.329     | 6.329         | 0.000         | 97 | 91535    | 10.0         | 10.1           |       |
| 81 1,4-Dioxane                  | 88  | 6.457     | 6.454         | 0.003         | 93 | 27598    | 200.0        | 221.7          |       |
| 82 Dibromomethane               | 93  | 6.467     | 6.464         | 0.003         | 94 | 65523    | 10.0         | 10.1           |       |
| 83 Dichlorobromomethane         | 83  | 6.586     | 6.586         | 0.000         | 99 | 112585   | 10.0         | 10.1           |       |
| 84 2-Chloroethyl vinyl ether    | 63  | 6.817     | 6.821         | -0.004        | 92 | 74683    | 10.0         | 10.2           |       |
| 85 cis-1,3-Dichloropropene      | 75  | 6.981     | 6.982         | -0.001        | 97 | 150179   | 10.0         | 10.1           |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  | 7.100     | 7.101         | -0.001        | 95 | 687608   | 50.0         | 52.3           |       |
| 88 Toluene                      | 92  | 7.271     | 7.268         | 0.003         | 98 | 241973   | 10.0         | 10.0           |       |
| 91 trans-1,3-Dichloropropene    | 75  | 7.518     | 7.519         | -0.001        | 97 | 136766   | 10.0         | 10.3           |       |
| 90 Ethyl methacrylate           | 69  | 7.528     | 7.528         | 0.000         | 88 | 142520   | 10.0         | 10.3           |       |
| 93 1,1,2-Trichloroethane        | 83  | 7.715     | 7.715         | 0.000         | 90 | 77231    | 10.0         | 10.2           |       |
| 94 Tetrachloroethene            | 166 | 7.792     | 7.792         | 0.000         | 98 | 107142   | 10.0         | 9.98           |       |
| 95 1,3-Dichloropropane          | 76  | 7.879     | 7.879         | 0.000         | 88 | 164981   | 10.0         | 10.2           |       |
| 96 2-Hexanone                   | 43  | 7.911     | 7.911         | 0.000         | 95 | 488158   | 50.0         | 52.4           |       |
| 98 Chlorodibromomethane         | 129 | 8.120     | 8.117         | 0.003         | 90 | 83833    | 10.0         | 10.1           |       |
| 101 Ethylene Dibromide          | 107 | 8.245     | 8.245         | 0.000         | 99 | 102811   | 10.0         | 10.4           |       |
| 103 Chlorobenzene               | 112 | 8.698     | 8.699         | -0.001        | 97 | 275515   | 10.0         | 10.1           |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.766         | 0.000         | 98 | 441702   | 10.0         | 10.1           |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.782     | 8.782         | 0.000         | 94 | 92463    | 10.0         | 10.4           |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 177242   | 10.0         | 10.3           |       |
| 107 o-Xylene                    | 106 | 9.316     | 9.316         | 0.000         | 95 | 175211   | 10.0         | 10.3           |       |
| 109 Styrene                     | 104 | 9.342     | 9.342         | 0.000         | 95 | 293799   | 10.0         | 10.4           |       |
| 110 Bromoform                   | 173 | 9.618     | 9.618         | 0.000         | 97 | 58644    | 10.0         | 10.2           |       |
| 111 Isopropylbenzene            | 105 | 9.689     | 9.689         | 0.000         | 95 | 455766   | 10.0         | 10.5           |       |
| 113 Bromobenzene                | 156 | 10.084    | 10.085        | -0.001        | 90 | 118816   | 10.0         | 10.4           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.097    | 10.097        | 0.000         | 94 | 147055   | 10.0         | 10.5           |       |
| 114 N-Propylbenzene             | 91  | 10.129    | 10.130        | -0.001        | 99 | 529326   | 10.0         | 10.5           |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.145    | 10.146        | -0.001        | 74 | 41940    | 10.0         | 11.1           |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.149    | 10.149        | 0.000         | 85 | 51610    | 10.0         | 10.4           |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 98 | 110717   | 10.0         | 10.6           |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.303        | 0.000         | 94 | 379970   | 10.0         | 10.6           |       |
| 119 4-Chlorotoluene             | 91  | 10.370    | 10.367        | 0.003         | 97 | 323534   | 10.0         | 10.4           |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 91 | 90460    | 10.0         | 10.9           |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.686    | 10.686        | 0.000         | 96 | 389250   | 10.0         | 10.6           |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 122 sec-Butylbenzene             | 105 | 10.843       | 10.843           | 0.000            | 93 | 488472   | 10.0            | 10.6              |       |
| 123 4-Isopropyltoluene           | 119 | 10.972       | 10.972           | 0.000            | 97 | 429649   | 10.0            | 10.8              |       |
| 124 1,3-Dichlorobenzene          | 146 | 11.001       | 11.001           | 0.000            | 97 | 227749   | 10.0            | 10.5              |       |
| 126 1,4-Dichlorobenzene          | 146 | 11.084       | 11.088           | -0.004           | 96 | 231625   | 10.0            | 10.3              |       |
| 127 n-Butylbenzene               | 91  | 11.354       | 11.355           | -0.001           | 97 | 375618   | 10.0            | 10.6              |       |
| 128 1,2-Dichlorobenzene          | 146 | 11.438       | 11.438           | 0.000            | 98 | 224185   | 10.0            | 10.4              |       |
| 129 1,2-Dibromo-3-Chloropropane  | 75  | 12.136       | 12.136           | 0.000            | 89 | 30182    | 10.0            | 10.6              |       |
| 130 1,2,4-Trichlorobenzene       | 180 | 12.763       | 12.763           | 0.000            | 94 | 169497   | 10.0            | 10.5              |       |
| 131 Hexachlorobutadiene          | 225 | 12.850       | 12.850           | 0.000            | 97 | 75510    | 10.0            | 10.8              |       |
| 132 Naphthalene                  | 128 | 12.978       | 12.978           | 0.000            | 96 | 533943   | 10.0            | 10.7              |       |
| 133 1,2,3-Trichlorobenzene       | 180 | 13.177       | 13.178           | -0.001           | 96 | 161441   | 10.0            | 10.6              |       |
| S 142 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 50.7              |       |
| S 144 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 20.5              |       |
| S 141 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 20.1              |       |
| S 143 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 20.6              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00226

Amount Added: 5.00

Units: uL

GAS CORP mix\_00517

Amount Added: 5.00

Units: uL

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18029.D

Injection Date: 07-Jul-2022 13:53:24

Instrument ID: HP5977L

Lims ID: IC 4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#:

13

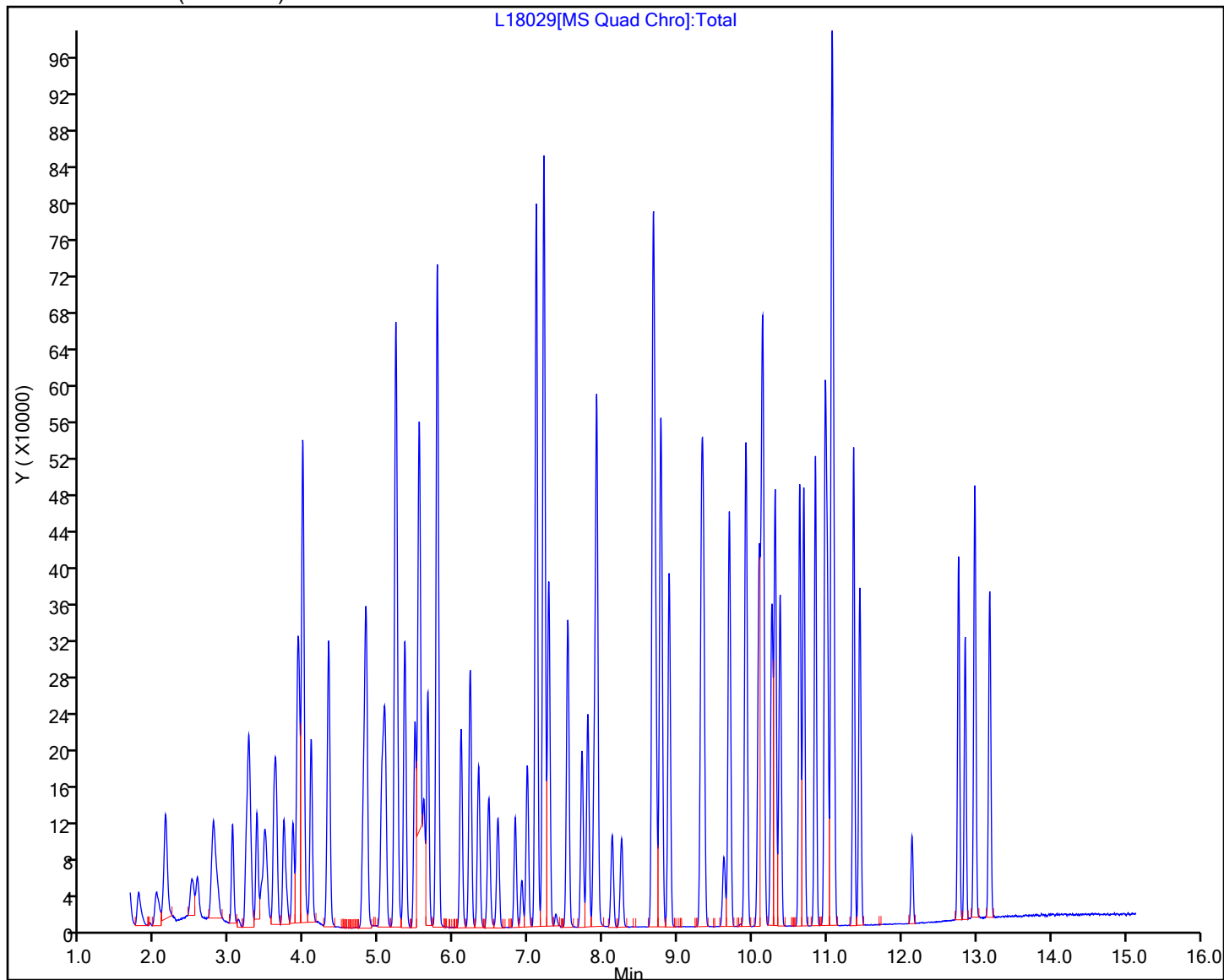
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18029.D

Injection Date: 07-Jul-2022 13:53:24

Instrument ID: HP5977L

Lims ID: IC 4

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

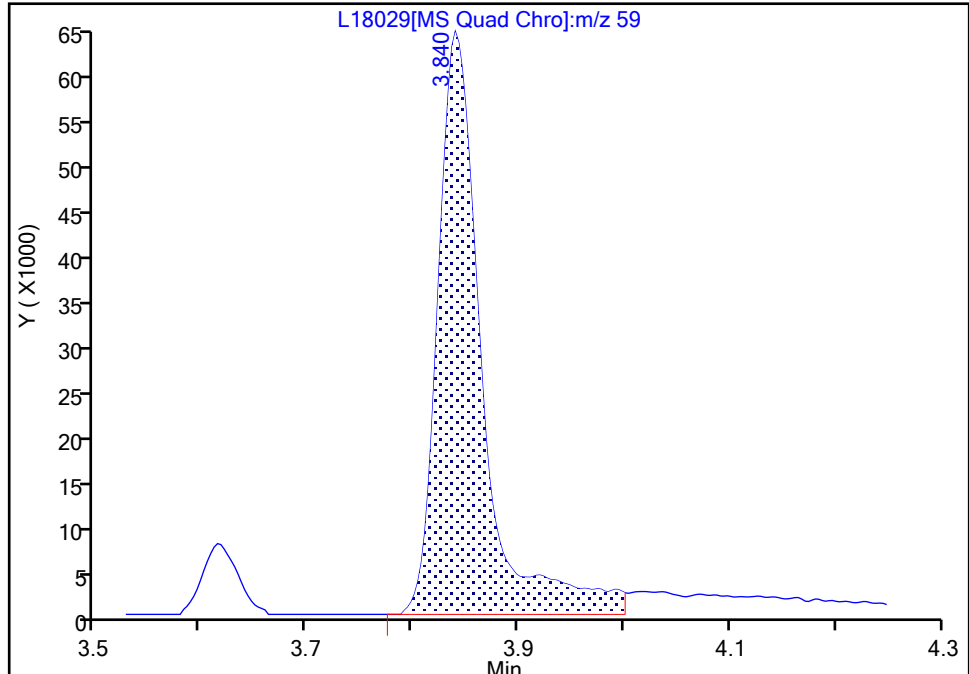
MS Quad

**40 2-Methyl-2-propanol, CAS: 75-65-0**

Signal: 1

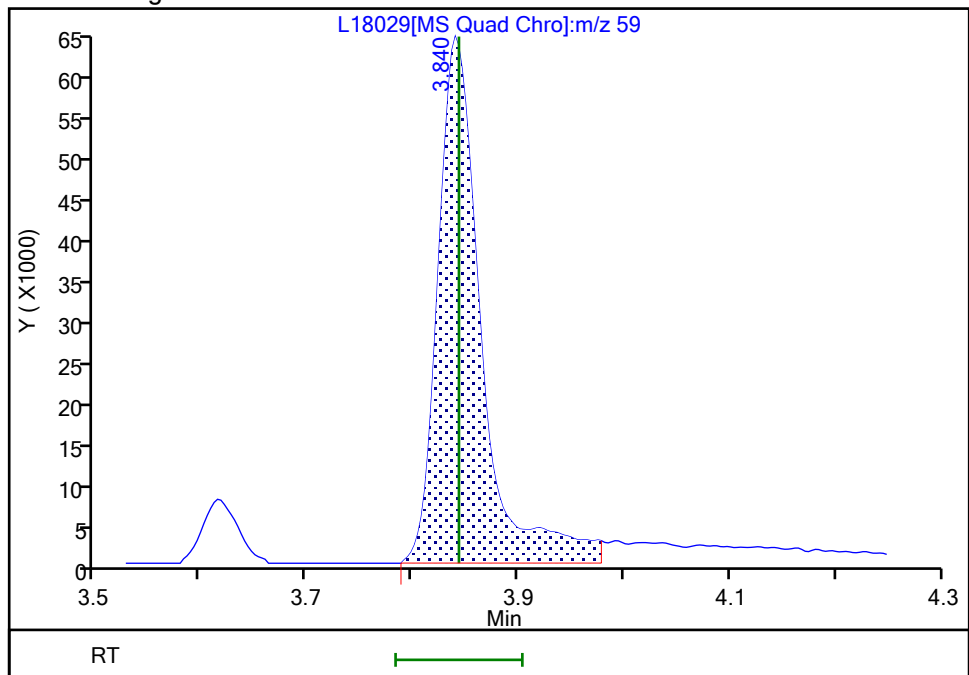
RT: 3.84  
Area: 189261  
Amount: 119.4989  
Amount Units: ug/L

## Processing Integration Results



RT: 3.84  
Area: 185489  
Amount: 114.5206  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 11-Jul-2022 09:54:53

Audit Action: Manually Integrated

Audit Reason: Poor chromatography



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18030.D  
 Lims ID: ICIS 5  
 Client ID:  
 Sample Type: ICIS Calib Level: 6  
 Inject. Date: 07-Jul-2022 14:21:12 ALS Bottle#: 0 Worklist Smp#: 14  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ICIS 5  
 Misc. Info.: 480-0106458-014  
 Operator ID: LH Instrument ID: HP5977L  
 Sublist: chrom-L-8260\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 11-Jul-2022 12:22:01 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1661

First Level Reviewer: WLL8

Date: 07-Jul-2022 14:40:42

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.776            | 0.000            | 99  | 166727   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.667        | 8.667            | 0.000            | 84  | 679053   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.065       | 11.065           | 0.000            | 93  | 363268   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226        | 5.226            | 0.000            | 94  | 213710   | 25.0            | 25.2              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.525        | 5.525            | 0.000            | 97  | 239142   | 25.0            | 24.9              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.204        | 7.204            | 0.000            | 93  | 833899   | 25.0            | 24.6              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911        | 9.911            | 0.000            | 99  | 268811   | 25.0            | 25.3              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.770        | 1.770            | 0.000            | 99  | 272903   | 25.0            | 26.5              |       |
| 13 Chloromethane                         | 50  | 2.011        | 2.011            | 0.000            | 99  | 232459   | 25.0            | 24.1              |       |
| 14 Vinyl chloride                        | 62  | 2.114        | 2.114            | 0.000            | 98  | 234548   | 25.0            | 25.6              |       |
| 15 Butadiene                             | 54  | 2.136        | 2.136            | 0.000            | 91  | 192176   | 25.0            | 25.9              |       |
| 18 Bromomethane                          | 94  | 2.483        | 2.483            | 0.000            | 89  | 165184   | 25.0            | 24.3              |       |
| 19 Chloroethane                          | 64  | 2.557        | 2.557            | 0.000            | 99  | 133927   | 25.0            | 23.9              |       |
| 20 Dichlorofluoromethane                 | 67  | 2.773        | 2.773            | 0.000            | 97  | 307530   | 25.0            | 24.2              |       |
| 21 Trichlorofluoromethane                | 101 | 2.779        | 2.779            | 0.000            | 95  | 305218   | 25.0            | 25.6              |       |
| 26 Ethyl ether                           | 59  | 3.030        | 3.030            | 0.000            | 87  | 192353   | 25.0            | 24.7              |       |
| 28 Acrolein                              | 56  | 3.213        | 3.213            | 0.000            | 100 | 193928   | 125.0           | 123.5             |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.242        | 3.242            | 0.000            | 93  | 204558   | 25.0            | 26.4              |       |
| 30 1,1-Dichloroethene                    | 96  | 3.262        | 3.262            | 0.000            | 96  | 197433   | 25.0            | 26.1              |       |
| 31 Acetone                               | 43  | 3.358        | 3.358            | 0.000            | 100 | 415832   | 125.0           | 114.1             |       |
| 33 Iodomethane                           | 142 | 3.445        | 3.445            | 0.000            | 99  | 354308   | 25.0            | 25.6              |       |
| 35 Carbon disulfide                      | 76  | 3.480        | 3.480            | 0.000            | 99  | 550957   | 25.0            | 26.3              |       |
| 37 3-Chloro-1-propene                    | 41  | 3.586        | 3.586            | 0.000            | 93  | 301034   | 25.0            | 25.4              |       |
| 38 Methyl acetate                        | 43  | 3.615        | 3.615            | 0.000            | 97  | 504868   | 50.0            | 48.5              |       |
| 39 Methylene Chloride                    | 84  | 3.721        | 3.721            | 0.000            | 88  | 240984   | 25.0            | 24.7              |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.844        | 3.844            | 0.000            | 100 | 368945   | 250.0           | 231.0             |       |
| 41 Methyl tert-butyl ether               | 73  | 3.901        | 3.901            | 0.000            | 93  | 739747   | 25.0            | 24.7              |       |
| 42 trans-1,2-Dichloroethene              | 96  | 3.927        | 3.927            | 0.000            | 98  | 237860   | 25.0            | 25.6              |       |
| 44 Acrylonitrile                         | 53  | 3.972        | 3.972            | 0.000            | 99  | 1235033  | 250.0           | 241.9             |       |
| 47 Hexane                                | 57  | 4.081        | 4.081            | 0.000            | 91  | 314585   | 25.0            | 25.5              |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 50 1,1-Dichloroethane           | 63  | 4.307     | 4.307         | 0.000         | 95 | 381793   | 25.0         | 25.2           |       |
| 49 Vinyl acetate                | 43  | 4.323     | 4.323         | 0.000         | 97 | 1008965  | 50.0         | 51.9           |       |
| 56 2,2-Dichloropropane          | 77  | 4.779     | 4.779         | 0.000         | 85 | 228434   | 25.0         | 25.1           |       |
| 58 cis-1,2-Dichloroethene       | 96  | 4.808     | 4.808         | 0.000         | 80 | 264444   | 25.0         | 25.3           |       |
| 57 2-Butanone (MEK)             | 43  | 4.824     | 4.824         | 0.000         | 99 | 821125   | 125.0        | 119.8          |       |
| 60 Chlorobromomethane           | 128 | 5.030     | 5.030         | 0.000         | 85 | 142826   | 25.0         | 25.8           |       |
| 61 Tetrahydrofuran              | 42  | 5.056     | 5.056         | 0.000         | 86 | 226675   | 50.0         | 47.2           |       |
| 62 Chloroform                   | 83  | 5.078     | 5.078         | 0.000         | 92 | 407133   | 25.0         | 24.9           |       |
| 64 1,1,1-Trichloroethane        | 97  | 5.207     | 5.207         | 0.000         | 98 | 343668   | 25.0         | 26.0           |       |
| 65 Cyclohexane                  | 56  | 5.223     | 5.223         | 0.000         | 89 | 371128   | 25.0         | 26.1           |       |
| 66 Carbon tetrachloride         | 117 | 5.339     | 5.339         | 0.000         | 97 | 289466   | 25.0         | 26.3           |       |
| 67 1,1-Dichloropropene          | 75  | 5.339     | 5.339         | 0.000         | 98 | 319837   | 25.0         | 25.6           |       |
| 69 Isobutyl alcohol             | 43  | 5.477     | 5.477         | 0.000         | 96 | 487145   | 625.0        | 662.0          | M     |
| 70 Benzene                      | 78  | 5.538     | 5.538         | 0.000         | 96 | 940393   | 25.0         | 24.9           |       |
| 72 1,2-Dichloroethane           | 62  | 5.593     | 5.593         | 0.000         | 97 | 315455   | 25.0         | 24.2           |       |
| 73 n-Heptane                    | 43  | 5.647     | 5.647         | 0.000         | 90 | 357692   | 25.0         | 25.4           |       |
| 75 Trichloroethene              | 95  | 6.094     | 6.094         | 0.000         | 97 | 250878   | 25.0         | 25.5           |       |
| 76 Methylcyclohexane            | 83  | 6.216     | 6.216         | 0.000         | 86 | 415881   | 25.0         | 26.2           |       |
| 77 1,2-Dichloropropane          | 63  | 6.329     | 6.329         | 0.000         | 96 | 229011   | 25.0         | 25.6           |       |
| 81 1,4-Dioxane                  | 88  | 6.454     | 6.454         | 0.000         | 88 | 77464    | 500.0        | 599.7          |       |
| 82 Dibromomethane               | 93  | 6.464     | 6.464         | 0.000         | 95 | 161718   | 25.0         | 25.4           |       |
| 83 Dichlorobromomethane         | 83  | 6.586     | 6.586         | 0.000         | 99 | 290934   | 25.0         | 26.4           |       |
| 84 2-Chloroethyl vinyl ether    | 63  | 6.821     | 6.821         | 0.000         | 92 | 194945   | 25.0         | 26.9           |       |
| 85 cis-1,3-Dichloropropene      | 75  | 6.982     | 6.982         | 0.000         | 97 | 389845   | 25.0         | 26.7           |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  | 7.101     | 7.101         | 0.000         | 94 | 1712107  | 125.0        | 125.4          |       |
| 88 Toluene                      | 92  | 7.268     | 7.268         | 0.000         | 99 | 611342   | 25.0         | 24.5           |       |
| 91 trans-1,3-Dichloropropene    | 75  | 7.519     | 7.519         | 0.000         | 96 | 363747   | 25.0         | 26.5           |       |
| 90 Ethyl methacrylate           | 69  | 7.528     | 7.528         | 0.000         | 88 | 378154   | 25.0         | 26.4           |       |
| 93 1,1,2-Trichloroethane        | 83  | 7.715     | 7.715         | 0.000         | 90 | 195438   | 25.0         | 25.0           |       |
| 94 Tetrachloroethene            | 166 | 7.792     | 7.792         | 0.000         | 97 | 275857   | 25.0         | 24.8           |       |
| 95 1,3-Dichloropropane          | 76  | 7.879     | 7.879         | 0.000         | 97 | 411316   | 25.0         | 24.5           |       |
| 96 2-Hexanone                   | 43  | 7.911     | 7.911         | 0.000         | 94 | 1233913  | 125.0        | 127.6          |       |
| 98 Chlorodibromomethane         | 129 | 8.117     | 8.117         | 0.000         | 89 | 229035   | 25.0         | 26.5           |       |
| 101 Ethylene Dibromide          | 107 | 8.245     | 8.245         | 0.000         | 97 | 261069   | 25.0         | 25.4           |       |
| 103 Chlorobenzene               | 112 | 8.699     | 8.699         | 0.000         | 96 | 698378   | 25.0         | 24.7           |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.766         | 0.000         | 98 | 1134922  | 25.0         | 25.1           |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.782     | 8.782         | 0.000         | 95 | 242165   | 25.0         | 26.2           |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 448973   | 25.0         | 25.1           |       |
| 107 o-Xylene                    | 106 | 9.316     | 9.316         | 0.000         | 96 | 444832   | 25.0         | 25.3           |       |
| 109 Styrene                     | 104 | 9.342     | 9.342         | 0.000         | 95 | 760420   | 25.0         | 26.0           |       |
| 110 Bromoform                   | 173 | 9.618     | 9.618         | 0.000         | 97 | 162326   | 25.0         | 27.3           |       |
| 111 Isopropylbenzene            | 105 | 9.689     | 9.689         | 0.000         | 95 | 1160174  | 25.0         | 25.1           |       |
| 113 Bromobenzene                | 156 | 10.085    | 10.085        | 0.000         | 91 | 297344   | 25.0         | 24.5           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.097    | 10.097        | 0.000         | 94 | 367842   | 25.0         | 24.7           |       |
| 114 N-Propylbenzene             | 91  | 10.130    | 10.130        | 0.000         | 98 | 1349283  | 25.0         | 25.1           |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.146    | 10.146        | 0.000         | 77 | 106989   | 25.0         | 26.6           |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.149    | 10.149        | 0.000         | 85 | 129459   | 25.0         | 24.4           |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 98 | 278169   | 25.0         | 24.9           |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.303        | 0.000         | 95 | 967945   | 25.0         | 25.4           |       |
| 119 4-Chlorotoluene             | 91  | 10.367    | 10.367        | 0.000         | 97 | 817779   | 25.0         | 24.6           |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 91 | 227315   | 25.0         | 25.8           |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.686    | 10.686        | 0.000         | 96 | 992438   | 25.0         | 25.4           |       |

| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 122 sec-Butylbenzene            | 105 | 10.843       | 10.843           | 0.000            | 94 | 1253012  | 25.0            | 25.5              |       |
| 123 4-Isopropyltoluene          | 119 | 10.972       | 10.972           | 0.000            | 97 | 1096414  | 25.0            | 25.8              |       |
| 124 1,3-Dichlorobenzene         | 146 | 11.001       | 11.001           | 0.000            | 98 | 565607   | 25.0            | 24.4              |       |
| 126 1,4-Dichlorobenzene         | 146 | 11.088       | 11.088           | 0.000            | 95 | 575519   | 25.0            | 24.1              |       |
| 127 n-Butylbenzene              | 91  | 11.355       | 11.355           | 0.000            | 96 | 965093   | 25.0            | 25.5              |       |
| 128 1,2-Dichlorobenzene         | 146 | 11.438       | 11.438           | 0.000            | 98 | 553948   | 25.0            | 24.2              |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  | 12.136       | 12.136           | 0.000            | 91 | 80880    | 25.0            | 26.7              |       |
| 130 1,2,4-Trichlorobenzene      | 180 | 12.763       | 12.763           | 0.000            | 94 | 435152   | 25.0            | 25.3              |       |
| 131 Hexachlorobutadiene         | 225 | 12.850       | 12.850           | 0.000            | 98 | 197321   | 25.0            | 26.5              |       |
| 132 Naphthalene                 | 128 | 12.978       | 12.978           | 0.000            | 97 | 1402079  | 25.0            | 26.4              |       |
| 133 1,2,3-Trichlorobenzene      | 180 | 13.178       | 13.178           | 0.000            | 96 | 425790   | 25.0            | 26.1              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00226

Amount Added: 12.50

Units: uL

GAS CORP mix\_00517

Amount Added: 12.50

Units: uL

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18030.D

Injection Date: 07-Jul-2022 14:21:12

Instrument ID: HP5977L

Lims ID: ICIS 5

Client ID:

Operator ID: LH

ALS Bottle#: 0

Worklist Smp#: 14

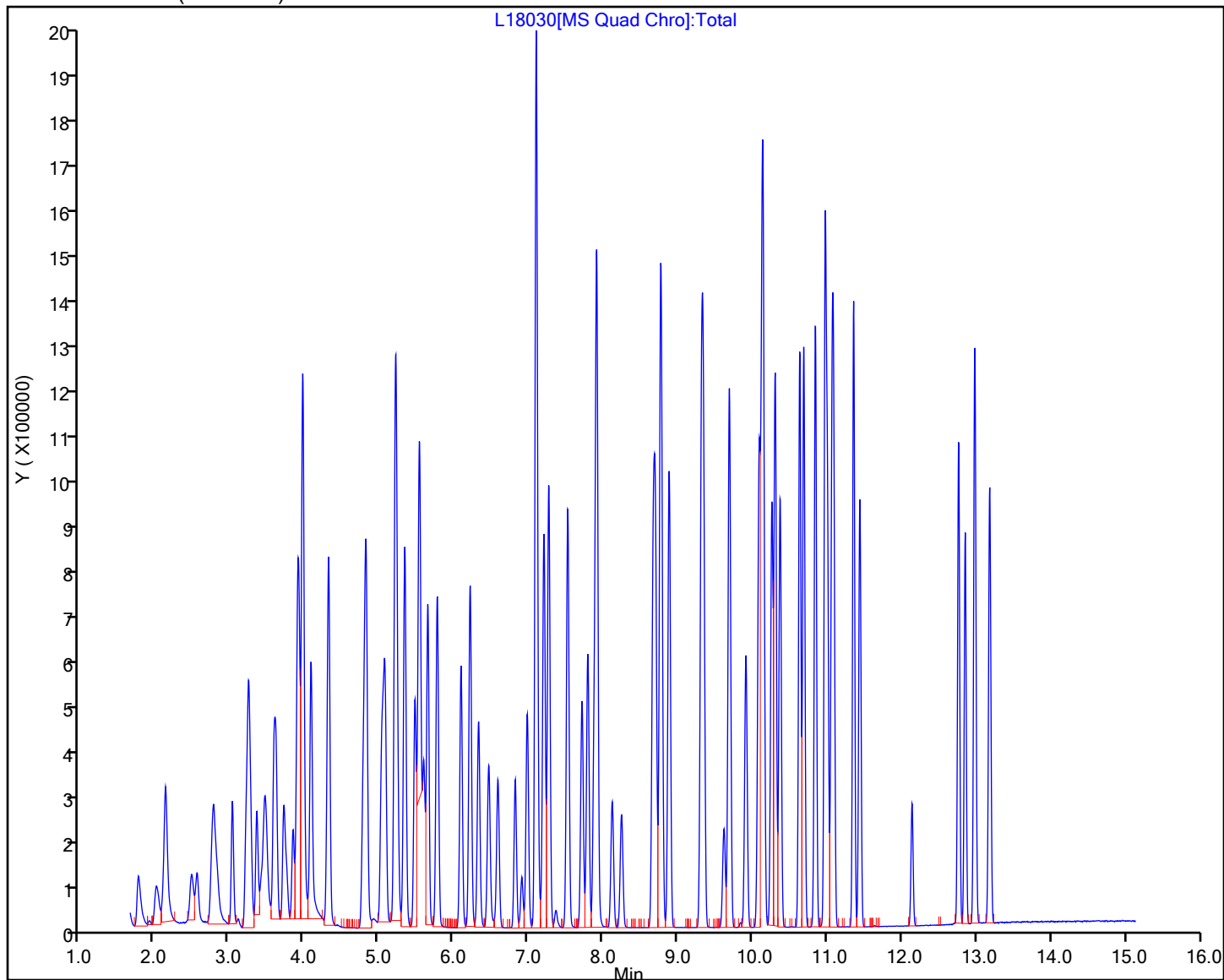
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18030.D

Injection Date: 07-Jul-2022 14:21:12

Instrument ID: HP5977L

Lims ID: ICIS 5

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

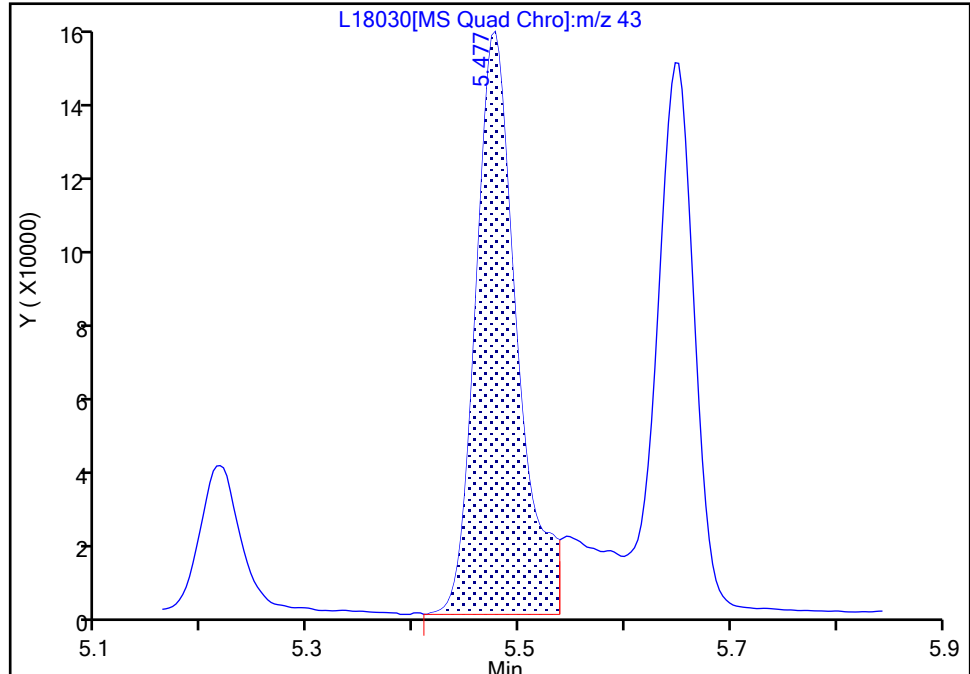
MS Quad

**69 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

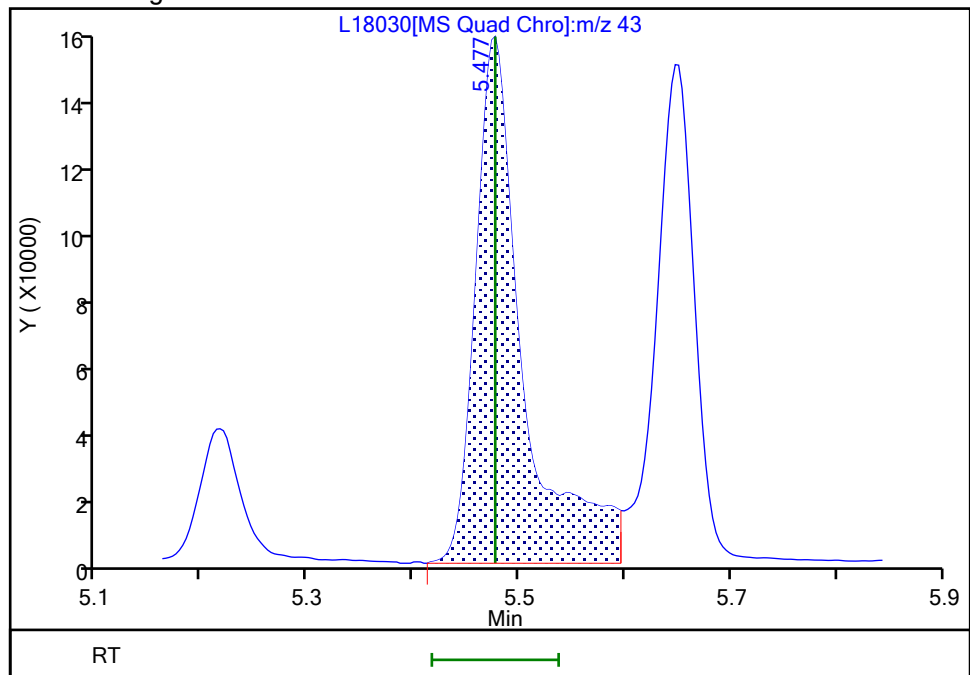
RT: 5.48  
Area: 423910  
Amount: 568.8797  
Amount Units: ug/L

## Processing Integration Results



RT: 5.48  
Area: 487145  
Amount: 661.9920  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 07-Jul-2022 14:40:23

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18031.D  
 Lims ID: IC 6  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 07-Jul-2022 14:48:59 ALS Bottle#: 0 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC 6  
 Misc. Info.: 480-0106458-015  
 Operator ID: LH Instrument ID: HP5977L  
 Sublist: chrom-L-8260\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 11-Jul-2022 12:22:05 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1661

First Level Reviewer: WLL8

Date: 11-Jul-2022 09:48:40

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.776            | 0.000            | 99  | 165426   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.670        | 8.667            | 0.003            | 85  | 677652   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.065       | 11.065           | 0.000            | 93  | 352515   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.223        | 5.226            | -0.003           | 92  | 216246   | 25.0            | 25.7              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.525        | 5.525            | 0.000            | 97  | 236490   | 25.0            | 24.9              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.203        | 7.204            | -0.001           | 92  | 831929   | 25.0            | 24.6              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.914        | 9.911            | 0.003            | 99  | 263934   | 25.0            | 24.9              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.773        | 1.770            | 0.003            | 99  | 556311   | 50.0            | 54.4              |       |
| 13 Chloromethane                         | 50  | 2.011        | 2.011            | 0.000            | 98  | 458897   | 50.0            | 47.9              |       |
| 14 Vinyl chloride                        | 62  | 2.117        | 2.114            | 0.003            | 98  | 467187   | 50.0            | 51.4              |       |
| 15 Butadiene                             | 54  | 2.139        | 2.136            | 0.003            | 89  | 390244   | 50.0            | 53.1              |       |
| 18 Bromomethane                          | 94  | 2.487        | 2.483            | 0.003            | 90  | 331515   | 50.0            | 49.2              |       |
| 19 Chloroethane                          | 64  | 2.560        | 2.557            | 0.003            | 99  | 274536   | 50.0            | 49.3              |       |
| 20 Dichlorofluoromethane                 | 67  | 2.776        | 2.773            | 0.003            | 96  | 614283   | 50.0            | 48.6              |       |
| 21 Trichlorofluoromethane                | 101 | 2.786        | 2.779            | 0.007            | 97  | 629906   | 50.0            | 53.3              |       |
| 26 Ethyl ether                           | 59  | 3.033        | 3.030            | 0.003            | 88  | 387538   | 50.0            | 50.1              |       |
| 28 Acrolein                              | 56  | 3.213        | 3.213            | 0.000            | 100 | 398607   | 250.0           | 255.8             |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.245        | 3.242            | 0.003            | 92  | 408956   | 50.0            | 53.3              |       |
| 30 1,1-Dichloroethene                    | 96  | 3.258        | 3.262            | -0.004           | 97  | 391635   | 50.0            | 52.1              |       |
| 31 Acetone                               | 43  | 3.358        | 3.358            | 0.000            | 100 | 846395   | 250.0           | 234.0             |       |
| 33 Iodomethane                           | 142 | 3.454        | 3.445            | 0.009            | 98  | 708678   | 50.0            | 51.5              |       |
| 35 Carbon disulfide                      | 76  | 3.480        | 3.480            | 0.000            | 98  | 1157011  | 50.0            | 55.6              |       |
| 37 3-Chloro-1-propene                    | 41  | 3.589        | 3.586            | 0.003            | 92  | 594807   | 50.0            | 50.5              |       |
| 38 Methyl acetate                        | 43  | 3.615        | 3.615            | 0.000            | 98  | 1027828  | 100.0           | 99.5              |       |
| 39 Methylene Chloride                    | 84  | 3.721        | 3.721            | 0.000            | 88  | 473314   | 50.0            | 49.2              |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.840        | 3.844            | -0.004           | 99  | 753702   | 500.0           | 475.7             | M     |
| 41 Methyl tert-butyl ether               | 73  | 3.904        | 3.901            | 0.003            | 93  | 1473343  | 50.0            | 49.6              |       |
| 42 trans-1,2-Dichloroethene              | 96  | 3.927        | 3.927            | 0.000            | 97  | 475647   | 50.0            | 51.7              |       |
| 44 Acrylonitrile                         | 53  | 3.972        | 3.972            | 0.000            | 99  | 2386134  | 500.0           | 471.0             |       |
| 47 Hexane                                | 57  | 4.085        | 4.081            | 0.004            | 89  | 619325   | 50.0            | 50.5              |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 50 1,1-Dichloroethane           | 63  | 4.306     | 4.307         | -0.001        | 96 | 750992   | 50.0         | 50.0           |       |
| 49 Vinyl acetate                | 43  | 4.322     | 4.323         | -0.001        | 97 | 2033591  | 100.0        | 105.4          |       |
| 56 2,2-Dichloropropane          | 77  | 4.782     | 4.779         | 0.003         | 84 | 444102   | 50.0         | 49.2           |       |
| 58 cis-1,2-Dichloroethene       | 96  | 4.808     | 4.808         | 0.000         | 81 | 519600   | 50.0         | 50.1           |       |
| 57 2-Butanone (MEK)             | 43  | 4.824     | 4.824         | 0.000         | 99 | 1625785  | 250.0        | 239.1          |       |
| 60 Chlorobromomethane           | 128 | 5.030     | 5.030         | 0.000         | 86 | 279472   | 50.0         | 50.9           |       |
| 61 Tetrahydrofuran              | 42  | 5.056     | 5.056         | 0.000         | 91 | 450079   | 100.0        | 94.4           |       |
| 62 Chloroform                   | 83  | 5.078     | 5.078         | 0.000         | 93 | 795494   | 50.0         | 49.0           |       |
| 64 1,1,1-Trichloroethane        | 97  | 5.207     | 5.207         | 0.000         | 98 | 687449   | 50.0         | 52.4           |       |
| 65 Cyclohexane                  | 56  | 5.223     | 5.223         | 0.000         | 89 | 730283   | 50.0         | 51.7           |       |
| 66 Carbon tetrachloride         | 117 | 5.339     | 5.339         | 0.000         | 95 | 591574   | 50.0         | 54.3           |       |
| 67 1,1-Dichloropropene          | 75  | 5.342     | 5.339         | 0.003         | 98 | 628307   | 50.0         | 50.7           |       |
| 69 Isobutyl alcohol             | 43  | 5.474     | 5.477         | -0.003        | 95 | 907423   | 1250.0       | 1242.8         | M     |
| 70 Benzene                      | 78  | 5.538     | 5.538         | 0.000         | 95 | 1827251  | 50.0         | 48.7           |       |
| 72 1,2-Dichloroethane           | 62  | 5.593     | 5.593         | 0.000         | 98 | 614421   | 50.0         | 47.5           |       |
| 73 n-Heptane                    | 43  | 5.650     | 5.647         | 0.003         | 90 | 678667   | 50.0         | 48.5           |       |
| 75 Trichloroethene              | 95  | 6.094     | 6.094         | 0.000         | 96 | 493705   | 50.0         | 50.6           |       |
| 76 Methylcyclohexane            | 83  | 6.216     | 6.216         | 0.000         | 86 | 831609   | 50.0         | 52.9           |       |
| 77 1,2-Dichloropropane          | 63  | 6.329     | 6.329         | 0.000         | 97 | 449880   | 50.0         | 50.6           |       |
| 81 1,4-Dioxane                  | 88  | 6.454     | 6.454         | 0.000         | 92 | 129271   | 1000.0       | 1002.9         |       |
| 82 Dibromomethane               | 93  | 6.464     | 6.464         | 0.000         | 94 | 320440   | 50.0         | 50.7           |       |
| 83 Dichlorobromomethane         | 83  | 6.589     | 6.586         | 0.003         | 99 | 593830   | 50.0         | 54.4           |       |
| 84 2-Chloroethyl vinyl ether    | 63  | 6.821     | 6.821         | 0.000         | 92 | 385730   | 50.0         | 53.7           |       |
| 85 cis-1,3-Dichloropropene      | 75  | 6.982     | 6.982         | 0.000         | 97 | 788381   | 50.0         | 54.4           |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  | 7.101     | 7.101         | 0.000         | 94 | 3278895  | 250.0        | 240.7          |       |
| 88 Toluene                      | 92  | 7.271     | 7.268         | 0.003         | 99 | 1201013  | 50.0         | 48.2           |       |
| 91 trans-1,3-Dichloropropene    | 75  | 7.519     | 7.519         | 0.000         | 97 | 736032   | 50.0         | 53.8           |       |
| 90 Ethyl methacrylate           | 69  | 7.528     | 7.528         | 0.000         | 88 | 752280   | 50.0         | 52.7           |       |
| 93 1,1,2-Trichloroethane        | 83  | 7.715     | 7.715         | 0.000         | 91 | 382997   | 50.0         | 49.1           |       |
| 94 Tetrachloroethene            | 166 | 7.792     | 7.792         | 0.000         | 98 | 541698   | 50.0         | 48.7           |       |
| 95 1,3-Dichloropropane          | 76  | 7.879     | 7.879         | 0.000         | 88 | 804212   | 50.0         | 48.0           |       |
| 96 2-Hexanone                   | 43  | 7.911     | 7.911         | 0.000         | 94 | 2353175  | 250.0        | 243.8          |       |
| 98 Chlorodibromomethane         | 129 | 8.120     | 8.117         | 0.003         | 90 | 482215   | 50.0         | 56.0           |       |
| 101 Ethylene Dibromide          | 107 | 8.245     | 8.245         | 0.000         | 98 | 513784   | 50.0         | 50.1           |       |
| 103 Chlorobenzene               | 112 | 8.699     | 8.699         | 0.000         | 98 | 1376979  | 50.0         | 48.9           |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.766         | 0.000         | 98 | 2229161  | 50.0         | 49.4           |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.782     | 8.782         | 0.000         | 96 | 490837   | 50.0         | 53.1           |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 889882   | 50.0         | 49.8           |       |
| 107 o-Xylene                    | 106 | 9.316     | 9.316         | 0.000         | 95 | 871927   | 50.0         | 49.6           |       |
| 109 Styrene                     | 104 | 9.342     | 9.342         | 0.000         | 94 | 1491537  | 50.0         | 51.1           |       |
| 110 Bromoform                   | 173 | 9.618     | 9.618         | 0.000         | 98 | 352521   | 50.0         | 59.5           |       |
| 111 Isopropylbenzene            | 105 | 9.689     | 9.689         | 0.000         | 95 | 2290441  | 50.0         | 51.0           |       |
| 113 Bromobenzene                | 156 | 10.084    | 10.085        | -0.001        | 91 | 587601   | 50.0         | 49.9           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.097    | 10.097        | 0.000         | 94 | 718495   | 50.0         | 49.8           |       |
| 114 N-Propylbenzene             | 91  | 10.129    | 10.130        | -0.001        | 99 | 2637719  | 50.0         | 50.5           |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.145    | 10.146        | -0.001        | 76 | 210600   | 50.0         | 54.0           |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.145    | 10.149        | -0.004        | 84 | 251499   | 50.0         | 48.8           |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 98 | 549694   | 50.0         | 50.7           |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.303        | 0.000         | 94 | 1899076  | 50.0         | 51.4           |       |
| 119 4-Chlorotoluene             | 91  | 10.371    | 10.367        | 0.004         | 97 | 1590362  | 50.0         | 49.2           |       |
| 120 tert-Butylbenzene           | 134 | 10.634    | 10.631        | 0.003         | 92 | 451843   | 50.0         | 52.8           |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.686    | 10.686        | 0.000         | 97 | 1934726  | 50.0         | 51.1           |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 122 sec-Butylbenzene             | 105 | 10.843       | 10.843           | 0.000            | 94 | 2452379  | 50.0            | 51.5              |       |
| 123 4-Isopropyltoluene           | 119 | 10.975       | 10.972           | 0.003            | 97 | 2154078  | 50.0            | 52.2              |       |
| 124 1,3-Dichlorobenzene          | 146 | 11.004       | 11.001           | 0.003            | 98 | 1096462  | 50.0            | 48.7              |       |
| 126 1,4-Dichlorobenzene          | 146 | 11.088       | 11.088           | 0.000            | 96 | 1118390  | 50.0            | 48.2              |       |
| 127 n-Butylbenzene               | 91  | 11.354       | 11.355           | -0.001           | 97 | 1887289  | 50.0            | 51.4              |       |
| 128 1,2-Dichlorobenzene          | 146 | 11.438       | 11.438           | 0.000            | 99 | 1079101  | 50.0            | 48.5              |       |
| 129 1,2-Dibromo-3-Chloropropane  | 75  | 12.139       | 12.136           | 0.003            | 90 | 159680   | 50.0            | 54.3              |       |
| 130 1,2,4-Trichlorobenzene       | 180 | 12.763       | 12.763           | 0.000            | 94 | 840757   | 50.0            | 50.3              |       |
| 131 Hexachlorobutadiene          | 225 | 12.850       | 12.850           | 0.000            | 98 | 382785   | 50.0            | 52.9              |       |
| 132 Naphthalene                  | 128 | 12.978       | 12.978           | 0.000            | 96 | 2656484  | 50.0            | 51.6              |       |
| 133 1,2,3-Trichlorobenzene       | 180 | 13.178       | 13.178           | 0.000            | 96 | 808356   | 50.0            | 51.1              |       |
| S 142 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 245.6             |       |
| S 144 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 108.2             |       |
| S 141 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 101.8             |       |
| S 143 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 99.4              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00226

Amount Added: 25.00

Units: uL

GAS CORP mix\_00517

Amount Added: 25.00

Units: uL

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18031.D

Injection Date: 07-Jul-2022 14:48:59

Instrument ID: HP5977L

Lims ID: IC 6

Client ID:

Operator ID: LH

ALS Bottle#: 0

Worklist Smp#: 15

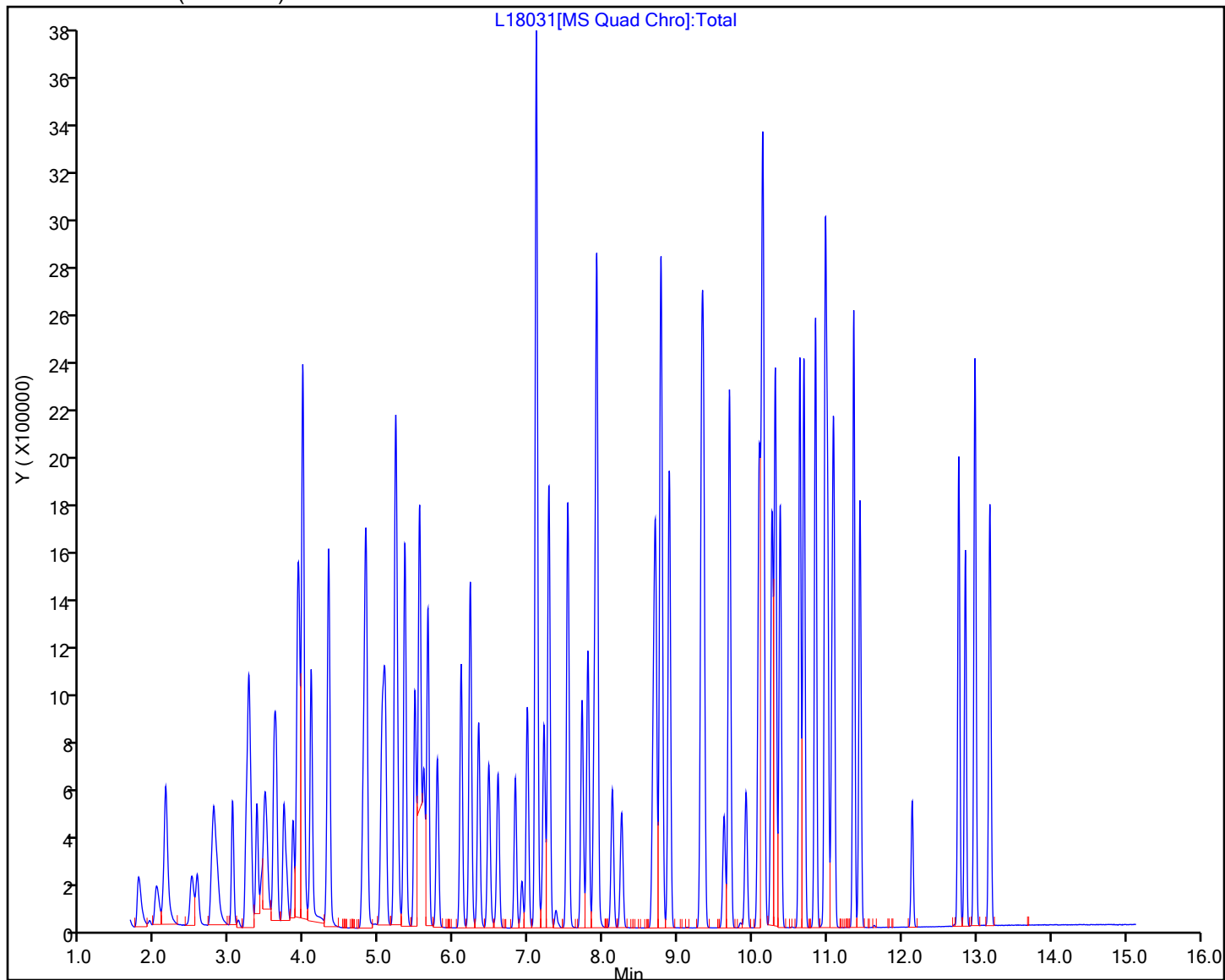
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18031.D

Injection Date: 07-Jul-2022 14:48:59

Instrument ID: HP5977L

Lims ID: IC 6

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

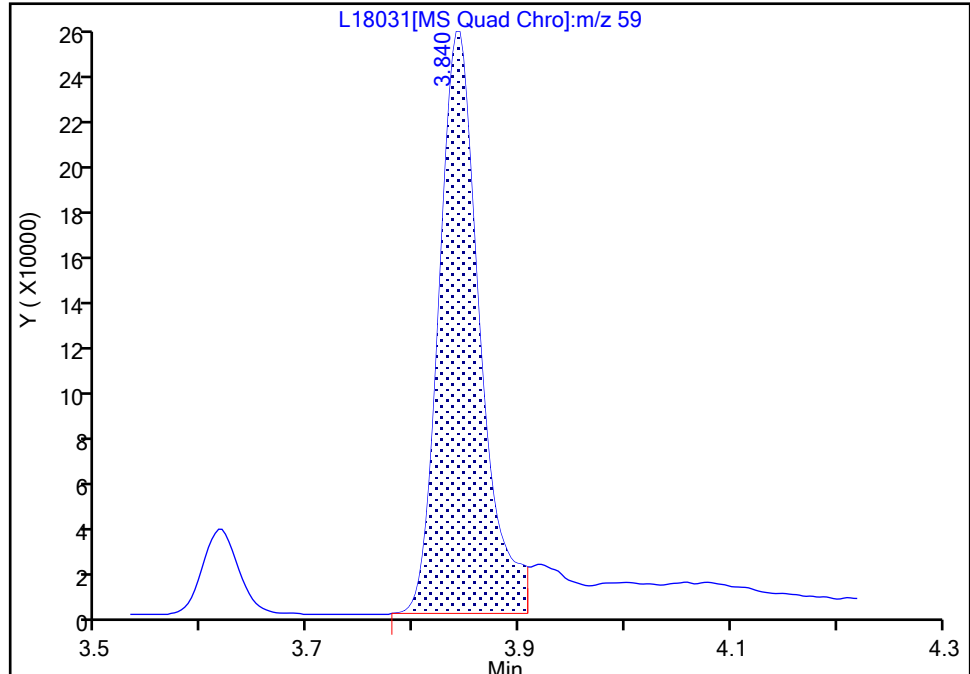
Detector: MS Quad

**40 2-Methyl-2-propanol, CAS: 75-65-0**

Signal: 1

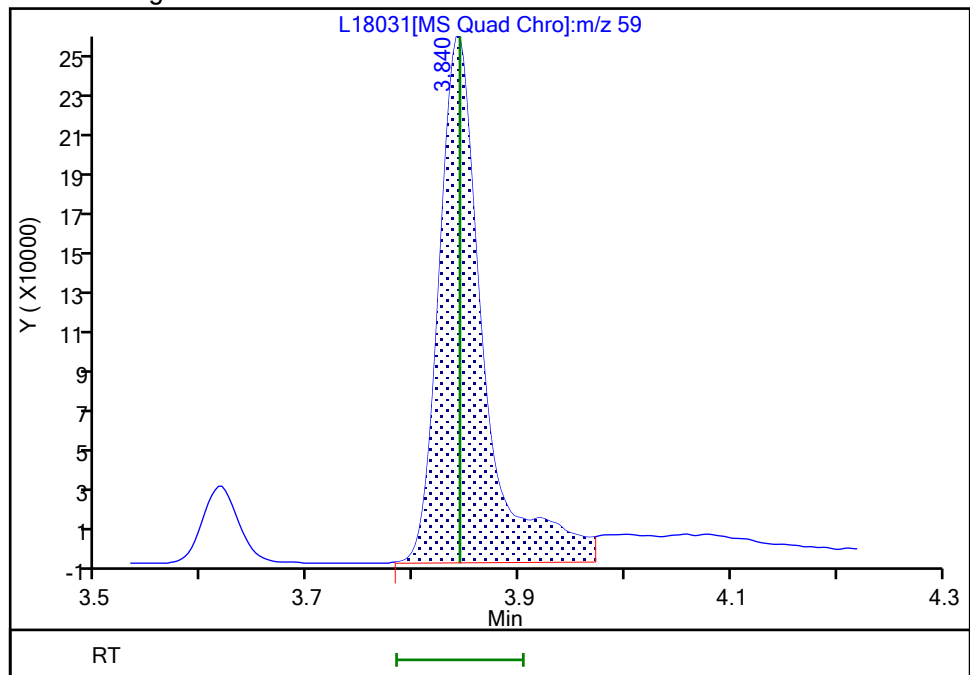
RT: 3.84  
Area: 686888  
Amount: 444.6683  
Amount Units: ug/L

## Processing Integration Results



RT: 3.84  
Area: 753702  
Amount: 475.6833  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 11-Jul-2022 09:55:23

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18031.D

Injection Date: 07-Jul-2022 14:48:59

Instrument ID: HP5977L

Lims ID: IC 6

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

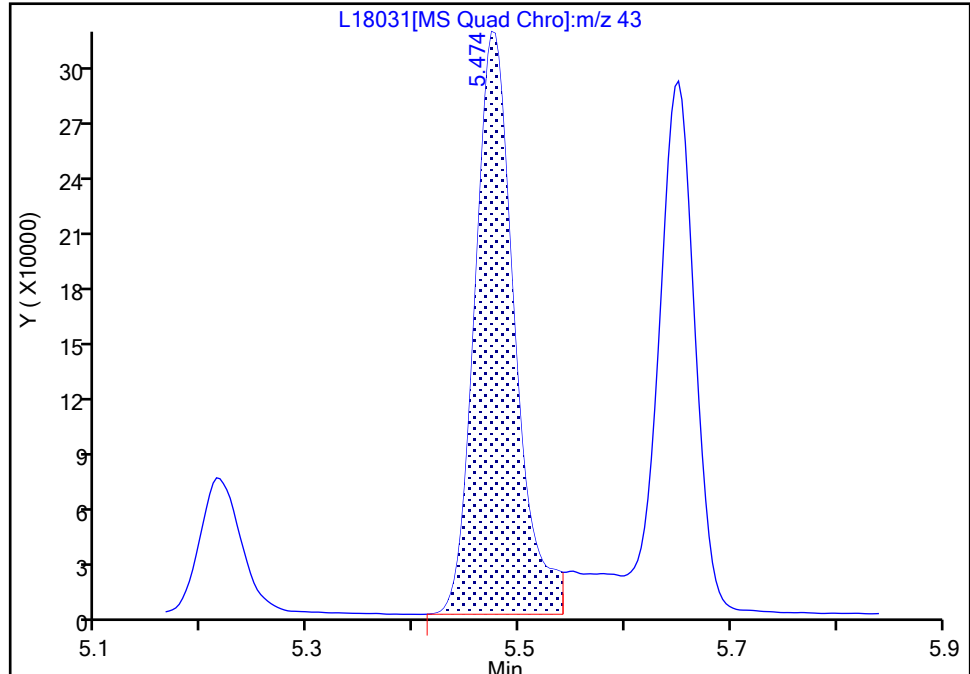
MS Quad

**69 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

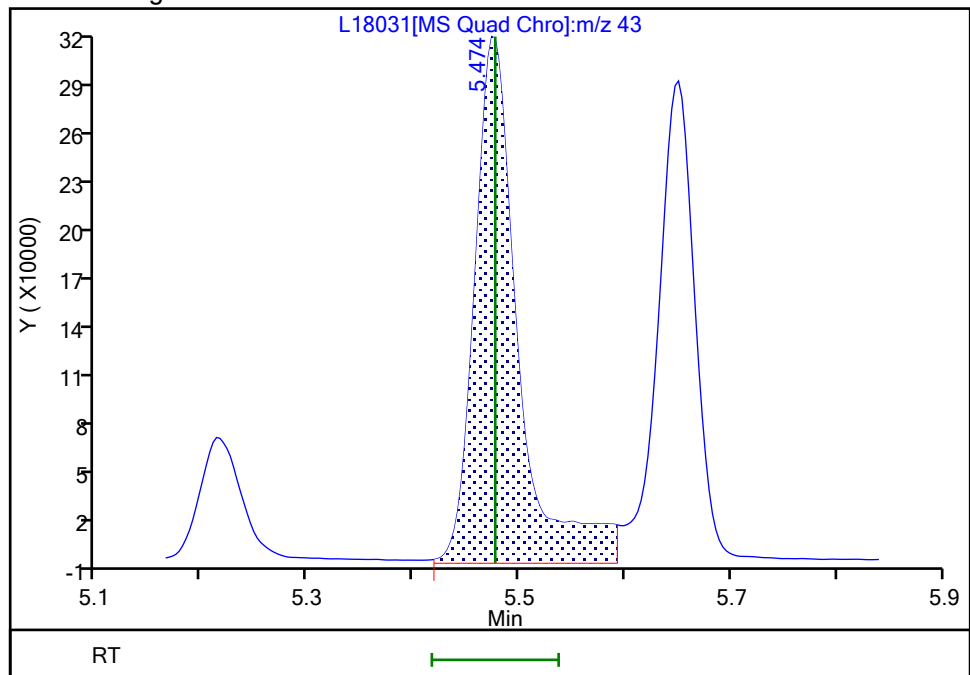
RT: 5.47  
Area: 819368  
Amount: 1135.9131  
Amount Units: ug/L

## Processing Integration Results



RT: 5.47  
Area: 907423  
Amount: 1242.8149  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 11-Jul-2022 09:50:07

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18032.D  
 Lims ID: IC 7  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 07-Jul-2022 15:16:46 ALS Bottle#: 0 Worklist Smp#: 16  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: IC 7  
 Misc. Info.: 480-0106458-016  
 Operator ID: LH Instrument ID: HP5977L  
 Sublist: chrom-L-8260\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 11-Jul-2022 12:22:10 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1661

First Level Reviewer: WLL8

Date: 11-Jul-2022 09:49:23

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.776            | 0.000            | 99  | 156035   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.670        | 8.667            | 0.003            | 83  | 636642   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.065       | 11.065           | 0.000            | 94  | 319687   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.223        | 5.226            | -0.003           | 53  | 203589   | 25.0            | 25.7              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.525        | 5.525            | 0.000            | 96  | 218817   | 25.0            | 24.4              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.204        | 7.204            | 0.000            | 92  | 790627   | 25.0            | 24.9              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.914        | 9.911            | 0.003            | 99  | 248726   | 25.0            | 25.0              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.770        | 1.770            | 0.000            | 99  | 1095476  | 100.0           | 113.5             |       |
| 13 Chloromethane                         | 50  | 2.011        | 2.011            | 0.000            | 99  | 921906   | 100.0           | 102.1             |       |
| 14 Vinyl chloride                        | 62  | 2.114        | 2.114            | 0.000            | 98  | 926206   | 100.0           | 108.1             |       |
| 15 Butadiene                             | 54  | 2.136        | 2.136            | 0.000            | 89  | 756068   | 100.0           | 109.1             |       |
| 18 Bromomethane                          | 94  | 2.483        | 2.483            | 0.000            | 90  | 658420   | 100.0           | 103.7             |       |
| 19 Chloroethane                          | 64  | 2.557        | 2.557            | 0.000            | 99  | 534290   | 100.0           | 101.7             |       |
| 20 Dichlorofluoromethane                 | 67  | 2.776        | 2.773            | 0.003            | 97  | 1229604  | 100.0           | 103.2             |       |
| 21 Trichlorofluoromethane                | 101 | 2.782        | 2.779            | 0.003            | 97  | 1264937  | 100.0           | 113.6             |       |
| 26 Ethyl ether                           | 59  | 3.030        | 3.030            | 0.000            | 88  | 750232   | 100.0           | 102.8             |       |
| 28 Acrolein                              | 56  | 3.213        | 3.213            | 0.000            | 100 | 690604   | 500.0           | 469.9             |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.245        | 3.242            | 0.003            | 93  | 805456   | 100.0           | 111.2             |       |
| 30 1,1-Dichloroethene                    | 96  | 3.262        | 3.262            | 0.000            | 96  | 769891   | 100.0           | 108.6             |       |
| 31 Acetone                               | 43  | 3.355        | 3.358            | -0.003           | 100 | 1403778  | 500.0           | 411.5             |       |
| 33 Iodomethane                           | 142 | 3.451        | 3.445            | 0.006            | 98  | 1391599  | 100.0           | 107.3             |       |
| 35 Carbon disulfide                      | 76  | 3.480        | 3.480            | 0.000            | 99  | 2332168  | 100.0           | 118.8             |       |
| 37 3-Chloro-1-propene                    | 41  | 3.590        | 3.586            | 0.004            | 93  | 1112626  | 100.0           | 100.2             |       |
| 38 Methyl acetate                        | 43  | 3.615        | 3.615            | 0.000            | 97  | 1725350  | 200.0           | 177.2             |       |
| 39 Methylene Chloride                    | 84  | 3.721        | 3.721            | 0.000            | 88  | 913251   | 100.0           | 101.0             |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.840        | 3.844            | -0.004           | 100 | 1148677  | 1000.0          | 768.6             | M     |
| 41 Methyl tert-butyl ether               | 73  | 3.901        | 3.901            | 0.000            | 96  | 2752815  | 100.0           | 98.3              |       |
| 42 trans-1,2-Dichloroethene              | 96  | 3.927        | 3.927            | 0.000            | 96  | 915055   | 100.0           | 105.4             |       |
| 44 Acrylonitrile                         | 53  | 3.972        | 3.972            | 0.000            | 99  | 4028005  | 1000.0          | 842.9             |       |
| 47 Hexane                                | 57  | 4.085        | 4.081            | 0.004            | 89  | 1168391  | 100.0           | 101.0             |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 50 1,1-Dichloroethane           | 63  | 4.307     | 4.307         | 0.000         | 96 | 1428491  | 100.0        | 100.9          |       |
| 49 Vinyl acetate                | 43  | 4.323     | 4.323         | 0.000         | 96 | 3828478  | 200.0        | 210.4          |       |
| 56 2,2-Dichloropropane          | 77  | 4.782     | 4.779         | 0.003         | 86 | 817375   | 100.0        | 95.9           |       |
| 58 cis-1,2-Dichloroethene       | 96  | 4.808     | 4.808         | 0.000         | 81 | 1006680  | 100.0        | 102.9          |       |
| 57 2-Butanone (MEK)             | 43  | 4.824     | 4.824         | 0.000         | 98 | 2863561  | 500.0        | 446.5          |       |
| 60 Chlorobromomethane           | 128 | 5.030     | 5.030         | 0.000         | 89 | 538652   | 100.0        | 103.9          |       |
| 61 Tetrahydrofuran              | 42  | 5.056     | 5.056         | 0.000         | 87 | 775986   | 200.0        | 172.5          |       |
| 62 Chloroform                   | 83  | 5.078     | 5.078         | 0.000         | 92 | 1530077  | 100.0        | 99.9           |       |
| 64 1,1,1-Trichloroethane        | 97  | 5.210     | 5.207         | 0.003         | 97 | 1334623  | 100.0        | 107.8          |       |
| 65 Cyclohexane                  | 56  | 5.226     | 5.223         | 0.003         | 89 | 1392491  | 100.0        | 104.5          |       |
| 66 Carbon tetrachloride         | 117 | 5.339     | 5.339         | 0.000         | 96 | 1165739  | 100.0        | 113.4          |       |
| 67 1,1-Dichloropropene          | 75  | 5.342     | 5.339         | 0.003         | 97 | 1210740  | 100.0        | 103.7          |       |
| 69 Isobutyl alcohol             | 43  | 5.474     | 5.477         | -0.003        | 95 | 1364497  | 2500.0       | 1981.3         |       |
| 70 Benzene                      | 78  | 5.538     | 5.538         | 0.000         | 95 | 3491877  | 100.0        | 98.7           |       |
| 72 1,2-Dichloroethane           | 62  | 5.593     | 5.593         | 0.000         | 98 | 1162449  | 100.0        | 95.3           |       |
| 73 n-Heptane                    | 43  | 5.651     | 5.647         | 0.004         | 90 | 1323784  | 100.0        | 100.4          |       |
| 75 Trichloroethene              | 95  | 6.094     | 6.094         | 0.000         | 96 | 959923   | 100.0        | 104.3          |       |
| 76 Methylcyclohexane            | 83  | 6.216     | 6.216         | 0.000         | 86 | 1608817  | 100.0        | 108.5          |       |
| 77 1,2-Dichloropropane          | 63  | 6.329     | 6.329         | 0.000         | 96 | 864872   | 100.0        | 103.1          |       |
| 81 1,4-Dioxane                  | 88  | 6.454     | 6.454         | 0.000         | 95 | 205301   | 2000.0       | 1695.4         | M     |
| 82 Dibromomethane               | 93  | 6.464     | 6.464         | 0.000         | 95 | 612437   | 100.0        | 102.7          |       |
| 83 Dichlorobromomethane         | 83  | 6.589     | 6.586         | 0.003         | 99 | 1174619  | 100.0        | 114.1          |       |
| 84 2-Chloroethyl vinyl ether    | 63  | 6.821     | 6.821         | 0.000         | 92 | 746971   | 100.0        | 110.2          |       |
| 85 cis-1,3-Dichloropropene      | 75  | 6.982     | 6.982         | 0.000         | 97 | 1550766  | 100.0        | 113.5          |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  | 7.101     | 7.101         | 0.000         | 94 | 5758415  | 500.0        | 449.9          |       |
| 88 Toluene                      | 92  | 7.271     | 7.268         | 0.003         | 99 | 2316079  | 100.0        | 98.9           |       |
| 91 trans-1,3-Dichloropropene    | 75  | 7.519     | 7.519         | 0.000         | 96 | 1439385  | 100.0        | 112.0          |       |
| 90 Ethyl methacrylate           | 69  | 7.528     | 7.528         | 0.000         | 87 | 1438769  | 100.0        | 107.2          |       |
| 93 1,1,2-Trichloroethane        | 83  | 7.715     | 7.715         | 0.000         | 90 | 729338   | 100.0        | 99.5           |       |
| 94 Tetrachloroethene            | 166 | 7.792     | 7.792         | 0.000         | 97 | 1048008  | 100.0        | 100.4          |       |
| 95 1,3-Dichloropropane          | 76  | 7.879     | 7.879         | 0.000         | 91 | 1532207  | 100.0        | 97.4           |       |
| 96 2-Hexanone                   | 43  | 7.911     | 7.911         | 0.000         | 93 | 4227869  | 500.0        | 466.2          |       |
| 98 Chlorodibromomethane         | 129 | 8.120     | 8.117         | 0.003         | 94 | 970534   | 100.0        | 119.9          |       |
| 101 Ethylene Dibromide          | 107 | 8.245     | 8.245         | 0.000         | 99 | 985619   | 100.0        | 102.4          |       |
| 103 Chlorobenzene               | 112 | 8.699     | 8.699         | 0.000         | 99 | 2655473  | 100.0        | 100.3          |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.766         | 0.000         | 98 | 4259844  | 100.0        | 100.4          |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.782     | 8.782         | 0.000         | 96 | 937136   | 100.0        | 108.0          |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 1712613  | 100.0        | 101.9          |       |
| 107 o-Xylene                    | 106 | 9.316     | 9.316         | 0.000         | 96 | 1654780  | 100.0        | 100.2          |       |
| 109 Styrene                     | 104 | 9.342     | 9.342         | 0.000         | 94 | 2834473  | 100.0        | 103.3          |       |
| 110 Bromoform                   | 173 | 9.618     | 9.618         | 0.000         | 98 | 707200   | 100.0        | 127.0          |       |
| 111 Isopropylbenzene            | 105 | 9.689     | 9.689         | 0.000         | 95 | 4292630  | 100.0        | 105.4          |       |
| 113 Bromobenzene                | 156 | 10.085    | 10.085        | 0.000         | 95 | 1108547  | 100.0        | 103.9          |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.097    | 10.097        | 0.000         | 96 | 1289303  | 100.0        | 98.5           |       |
| 114 N-Propylbenzene             | 91  | 10.130    | 10.130        | 0.000         | 99 | 4905030  | 100.0        | 103.6          |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.146    | 10.146        | 0.000         | 78 | 386362   | 100.0        | 109.1          |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.149    | 10.149        | 0.000         | 84 | 443642   | 100.0        | 95.0           |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 98 | 1028224  | 100.0        | 104.6          |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.303        | 0.000         | 95 | 3464716  | 100.0        | 103.5          |       |
| 119 4-Chlorotoluene             | 91  | 10.371    | 10.367        | 0.004         | 97 | 2986711  | 100.0        | 102.0          |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 91 | 821674   | 100.0        | 105.8          |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.689    | 10.686        | 0.003         | 97 | 3519807  | 100.0        | 102.4          |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 122 sec-Butylbenzene             | 105 | 10.843       | 10.843           | 0.000            | 95 | 4409071  | 100.0           | 102.1             |       |
| 123 4-Isopropyltoluene           | 119 | 10.972       | 10.972           | 0.000            | 97 | 3835676  | 100.0           | 102.5             |       |
| 124 1,3-Dichlorobenzene          | 146 | 11.004       | 11.001           | 0.003            | 98 | 2027579  | 100.0           | 99.3              |       |
| 126 1,4-Dichlorobenzene          | 146 | 11.088       | 11.088           | 0.000            | 96 | 2063825  | 100.0           | 98.1              |       |
| 127 n-Butylbenzene               | 91  | 11.355       | 11.355           | 0.000            | 97 | 3360943  | 100.0           | 100.9             |       |
| 128 1,2-Dichlorobenzene          | 146 | 11.438       | 11.438           | 0.000            | 99 | 1950482  | 100.0           | 96.7              |       |
| 129 1,2-Dibromo-3-Chloropropane  | 75  | 12.136       | 12.136           | 0.000            | 95 | 275308   | 100.0           | 103.3             |       |
| 130 1,2,4-Trichlorobenzene       | 180 | 12.763       | 12.763           | 0.000            | 94 | 1397428  | 100.0           | 92.2              |       |
| 131 Hexachlorobutadiene          | 225 | 12.850       | 12.850           | 0.000            | 98 | 636037   | 100.0           | 96.9              |       |
| 132 Naphthalene                  | 128 | 12.978       | 12.978           | 0.000            | 97 | 4278261  | 100.0           | 91.6              |       |
| 133 1,2,3-Trichlorobenzene       | 180 | 13.178       | 13.178           | 0.000            | 96 | 1307272  | 100.0           | 91.1              |       |
| S 142 Total BTEX                 | 1   |              |                  |                  | 0  |          |                 | 500.1             |       |
| S 144 1,3-Dichloropropene, Total | 1   |              |                  |                  | 0  |          |                 | 225.5             |       |
| S 141 1,2-Dichloroethene, Total  | 1   |              |                  |                  | 0  |          |                 | 208.3             |       |
| S 143 Xylenes, Total             | 1   |              |                  |                  | 0  |          |                 | 202.2             |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

8260 CORP mix\_00226

Amount Added: 50.00

Units: uL

GAS CORP mix\_00517

Amount Added: 50.00

Units: uL

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18032.D

Injection Date: 07-Jul-2022 15:16:46

Instrument ID: HP5977L

Lims ID: IC 7

Client ID:

Operator ID: LH

ALS Bottle#: 0

Worklist Smp#: 16

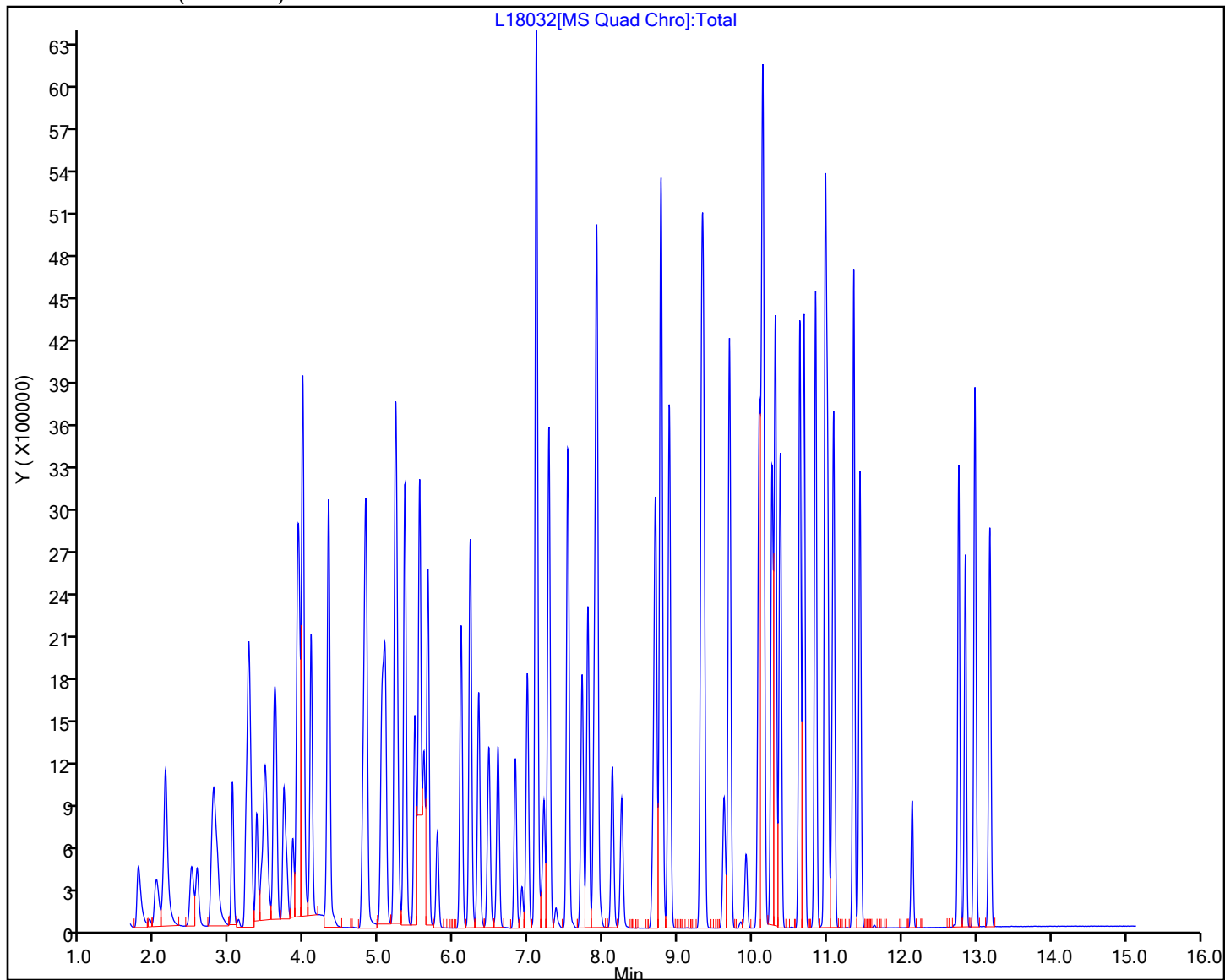
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



## Eurofins Buffalo

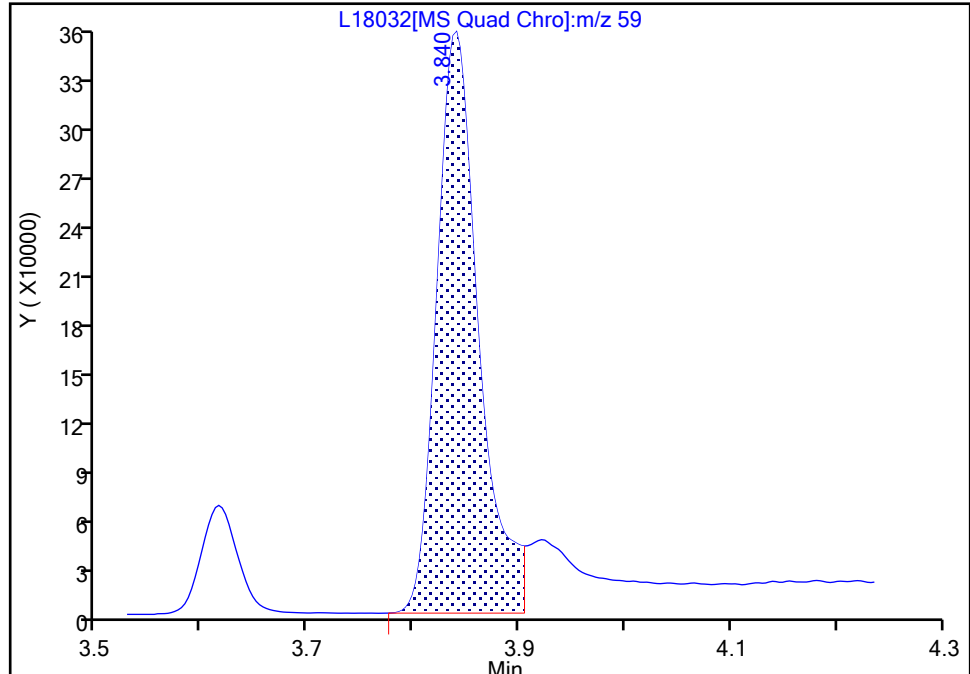
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18032.D  
Injection Date: 07-Jul-2022 15:16:46 Instrument ID: HP5977L  
Lims ID: IC 7  
Client ID:  
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector MS Quad

**40 2-Methyl-2-propanol, CAS: 75-65-0**

Signal: 1

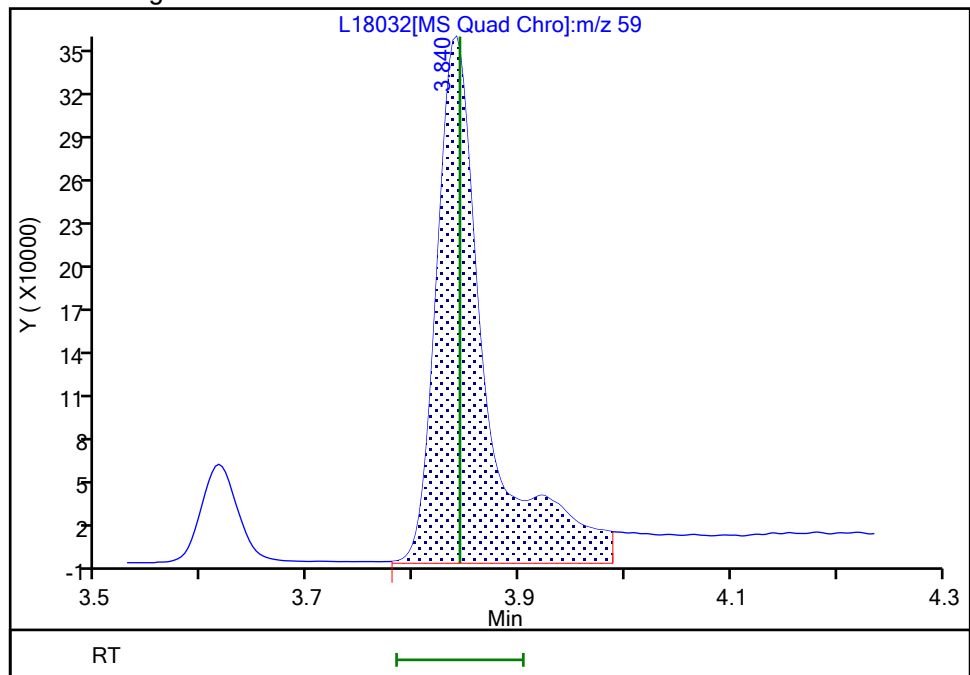
RT: 3.84  
Area: 974835  
Amount: 661.8996  
Amount Units: ug/L

## Processing Integration Results



RT: 3.84  
Area: 1148677  
Amount: 768.5957  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 11-Jul-2022 09:55:44  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 474 of 733



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18032.D

Injection Date: 07-Jul-2022 15:16:46

Instrument ID: HP5977L

Lims ID: IC 7

Client ID:

Operator ID: LH

ALS Bottle#:

0

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

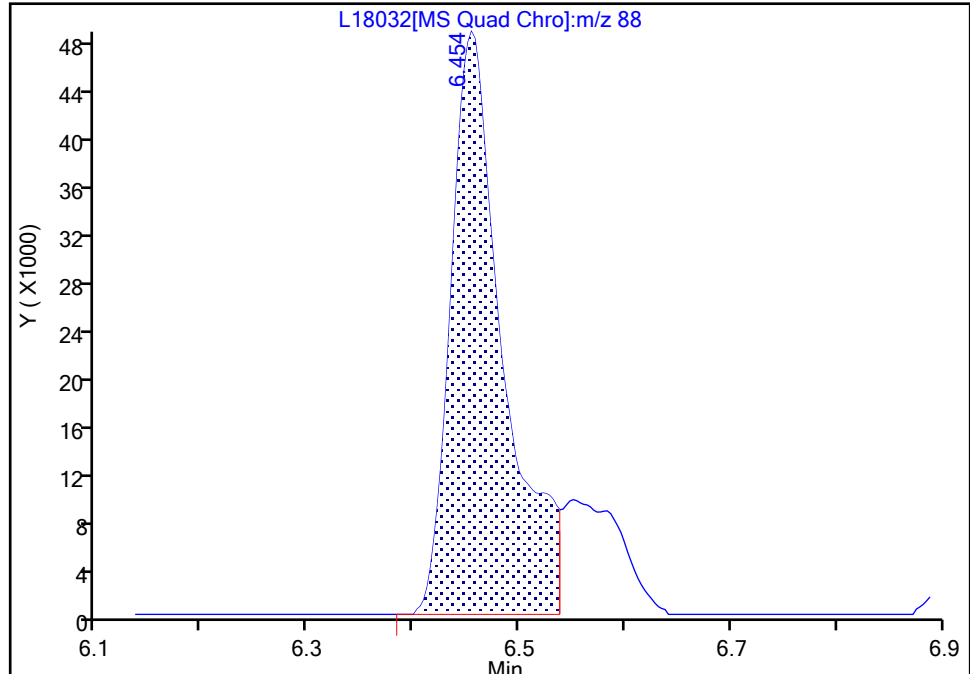
Detector: MS Quad

**81 1,4-Dioxane, CAS: 123-91-1**

Signal: 1

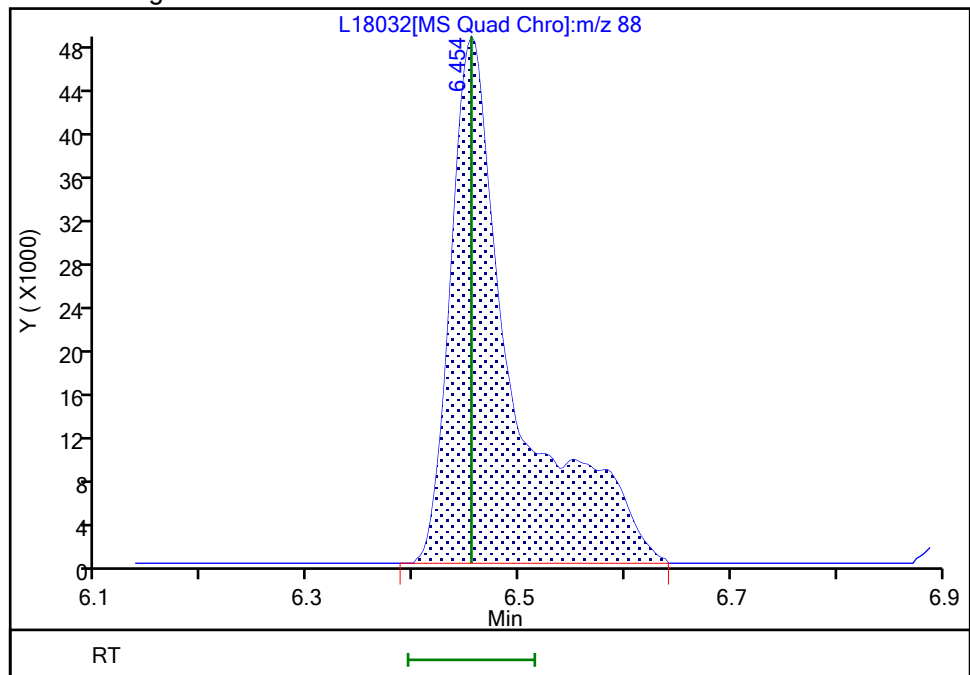
RT: 6.45  
Area: 168602  
Amount: 2019.9927  
Amount Units: ug/L

## Processing Integration Results



RT: 6.45  
Area: 205301  
Amount: 1695.3791  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 11-Jul-2022 09:49:07

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Calibration

/ Dichlorodifluoromethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

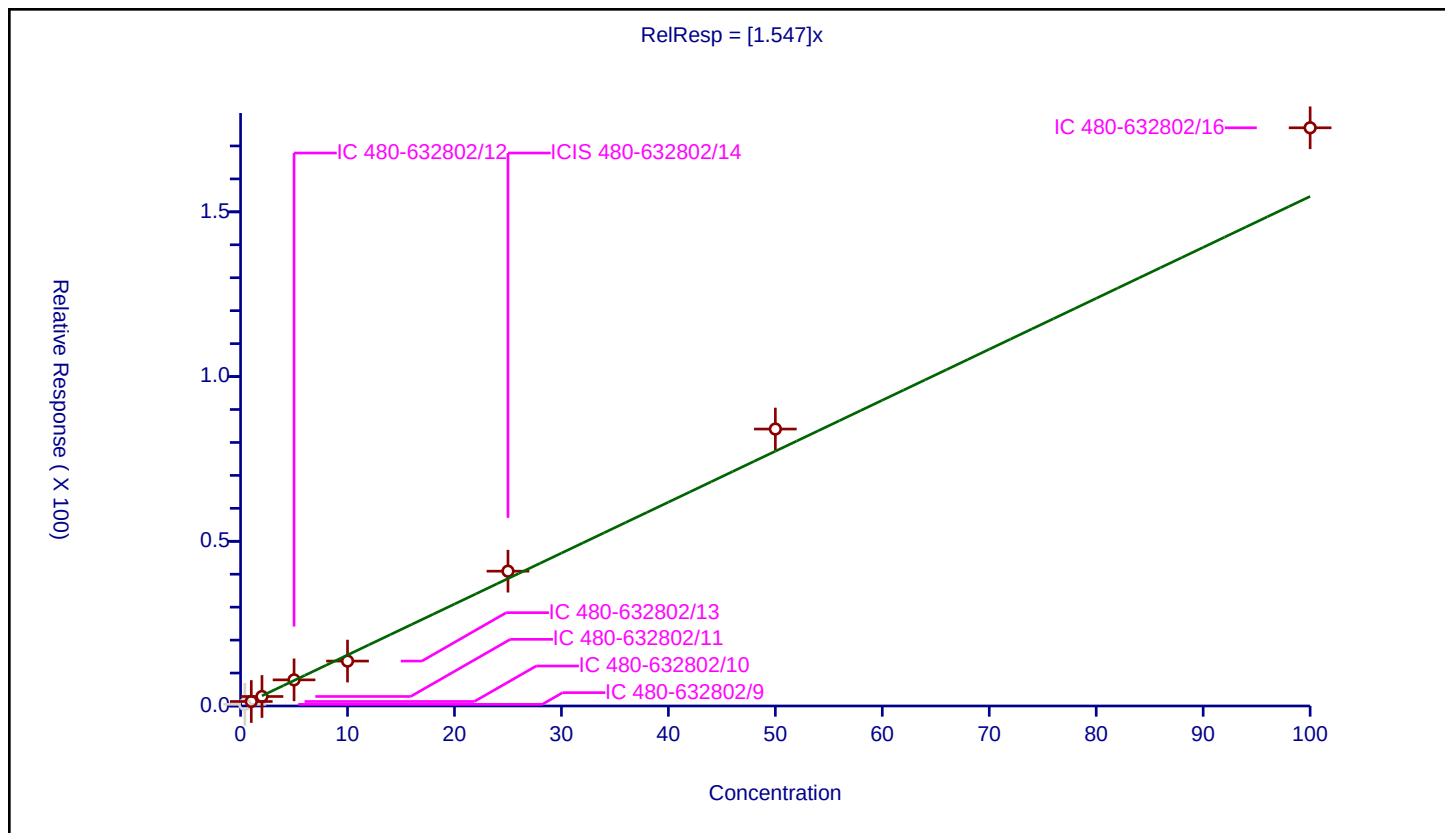
## Curve Coefficients

Intercept: 0  
Slope: 1.547

## Error Coefficients

Standard Error: 516000  
Relative Standard Error: 10.2  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.987

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.500513   | 25.0      | 172673.0    | 1.251281 | N    |
| 2  | IC 480-632802/10   | 1.0           | 1.361661   | 25.0      | 176237.0    | 1.361661 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.886263   | 25.0      | 170991.0    | 1.443132 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 7.930966   | 25.0      | 172624.0    | 1.586193 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 13.632359  | 25.0      | 169105.0    | 1.363236 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 40.920637  | 25.0      | 166727.0    | 1.636825 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 84.072486  | 25.0      | 165426.0    | 1.68145  | Y    |
| 8  | IC 480-632802/16   | 100.0         | 175.517672 | 25.0      | 156035.0    | 1.755177 | Y    |



# Calibration

/ Chloromethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

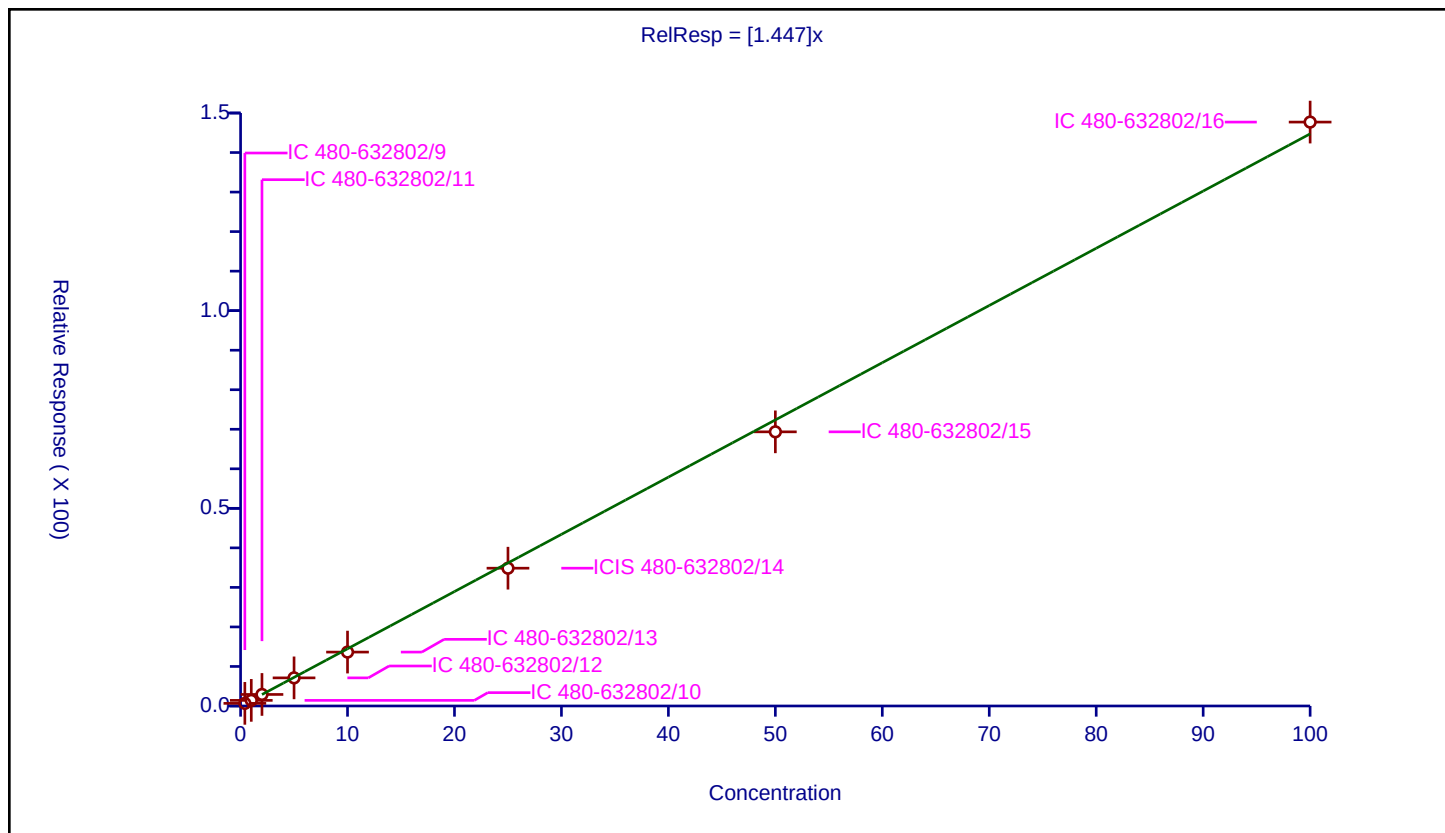
## Curve Coefficients

Intercept: 0  
 Slope: 1.447

## Error Coefficients

Standard Error: 401000  
 Relative Standard Error: 6.4  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.662814   | 25.0      | 172673.0    | 1.657034 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.418686   | 25.0      | 176237.0    | 1.418686 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.915212   | 25.0      | 170991.0    | 1.457606 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 7.114596   | 25.0      | 172624.0    | 1.422919 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 13.636646  | 25.0      | 169105.0    | 1.363665 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 34.856232  | 25.0      | 166727.0    | 1.394249 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 69.350797  | 25.0      | 165426.0    | 1.387016 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 147.708206 | 25.0      | 156035.0    | 1.477082 | Y    |



# Calibration

/ Vinyl chloride

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

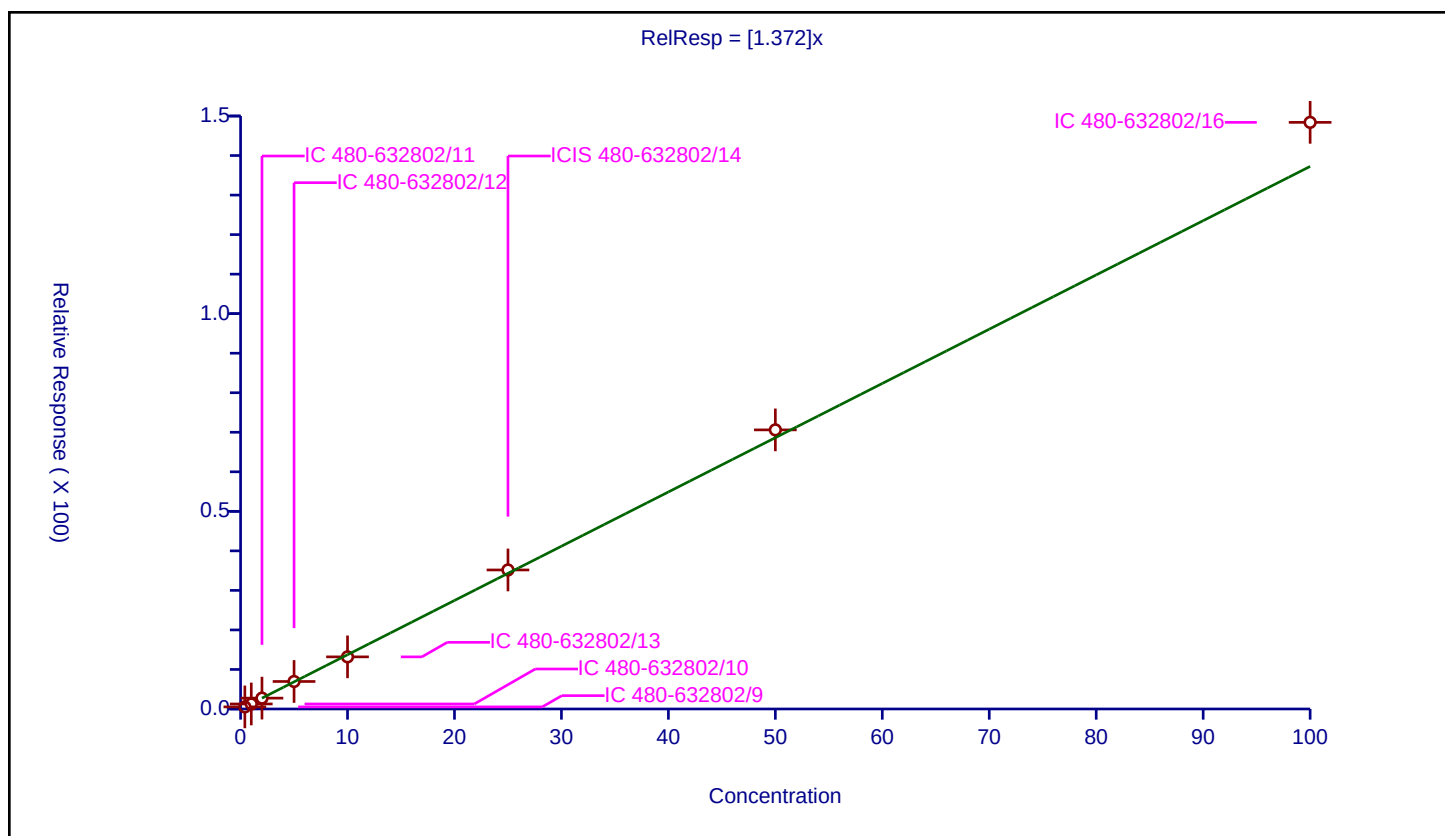
## Curve Coefficients

Intercept: 0  
 Slope: 1.372

## Error Coefficients

Standard Error: 404000  
 Relative Standard Error: 4.9  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.528311   | 25.0      | 172673.0    | 1.320777 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.271299   | 25.0      | 176237.0    | 1.271299 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.751168   | 25.0      | 170991.0    | 1.375584 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 6.95558    | 25.0      | 172624.0    | 1.391116 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 13.183229  | 25.0      | 169105.0    | 1.318323 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 35.169469  | 25.0      | 166727.0    | 1.406779 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 70.603623  | 25.0      | 165426.0    | 1.412072 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 148.397154 | 25.0      | 156035.0    | 1.483972 | Y    |



## Calibration

/ Butadiene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

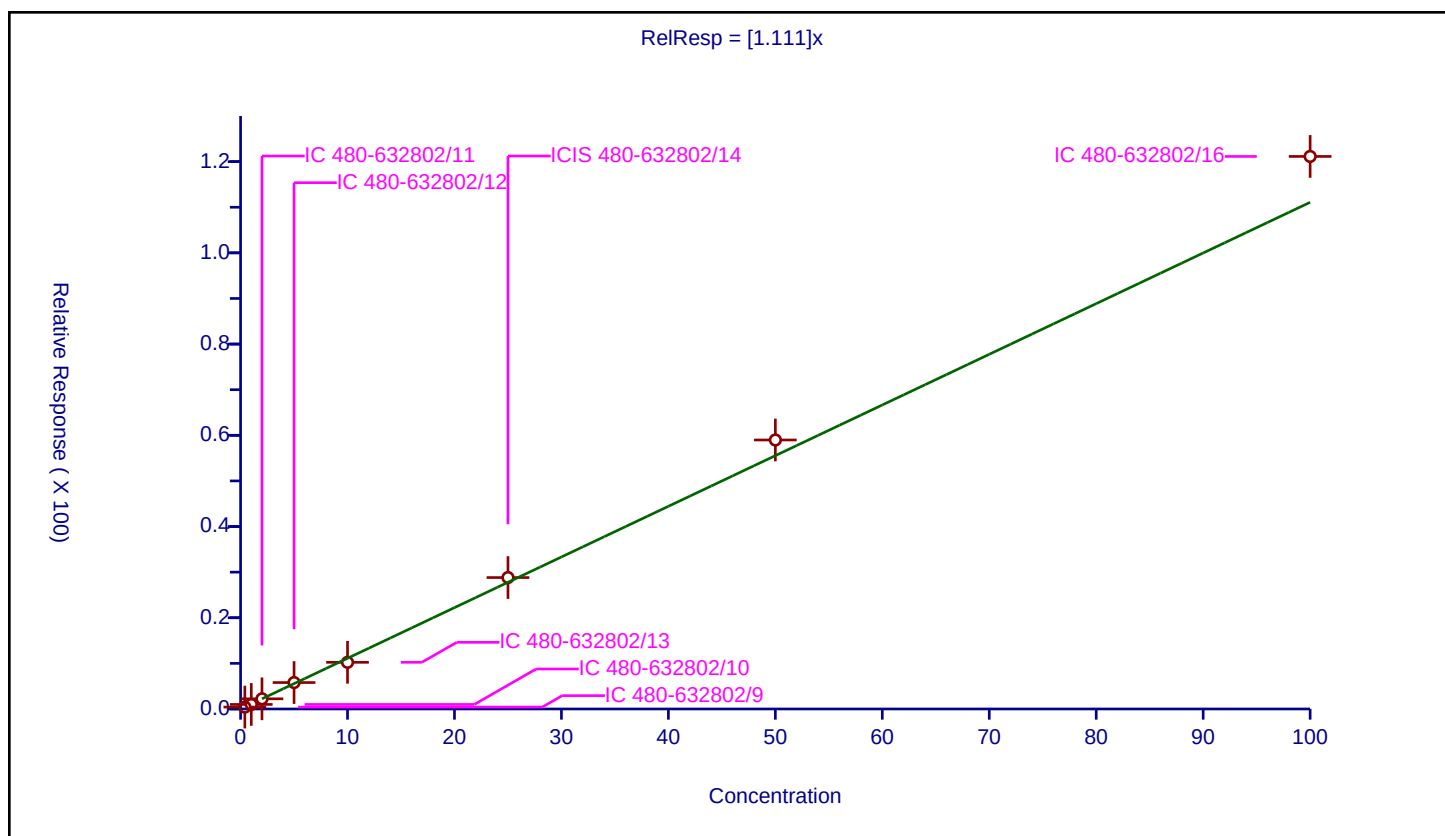
## Curve Coefficients

Intercept: 0  
Slope: 1.111

## Error Coefficients

Standard Error: 331000  
Relative Standard Error: 7.1  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.418276   | 25.0      | 172673.0    | 1.04569  | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.99823    | 25.0      | 176237.0    | 0.99823  | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.232866   | 25.0      | 170991.0    | 1.116433 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 5.796413   | 25.0      | 172624.0    | 1.159283 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 10.2324    | 25.0      | 169105.0    | 1.02324  | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 28.815969  | 25.0      | 166727.0    | 1.152639 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 58.975614  | 25.0      | 165426.0    | 1.179512 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 121.137565 | 25.0      | 156035.0    | 1.211376 | Y    |



## Calibration

/ Bromomethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

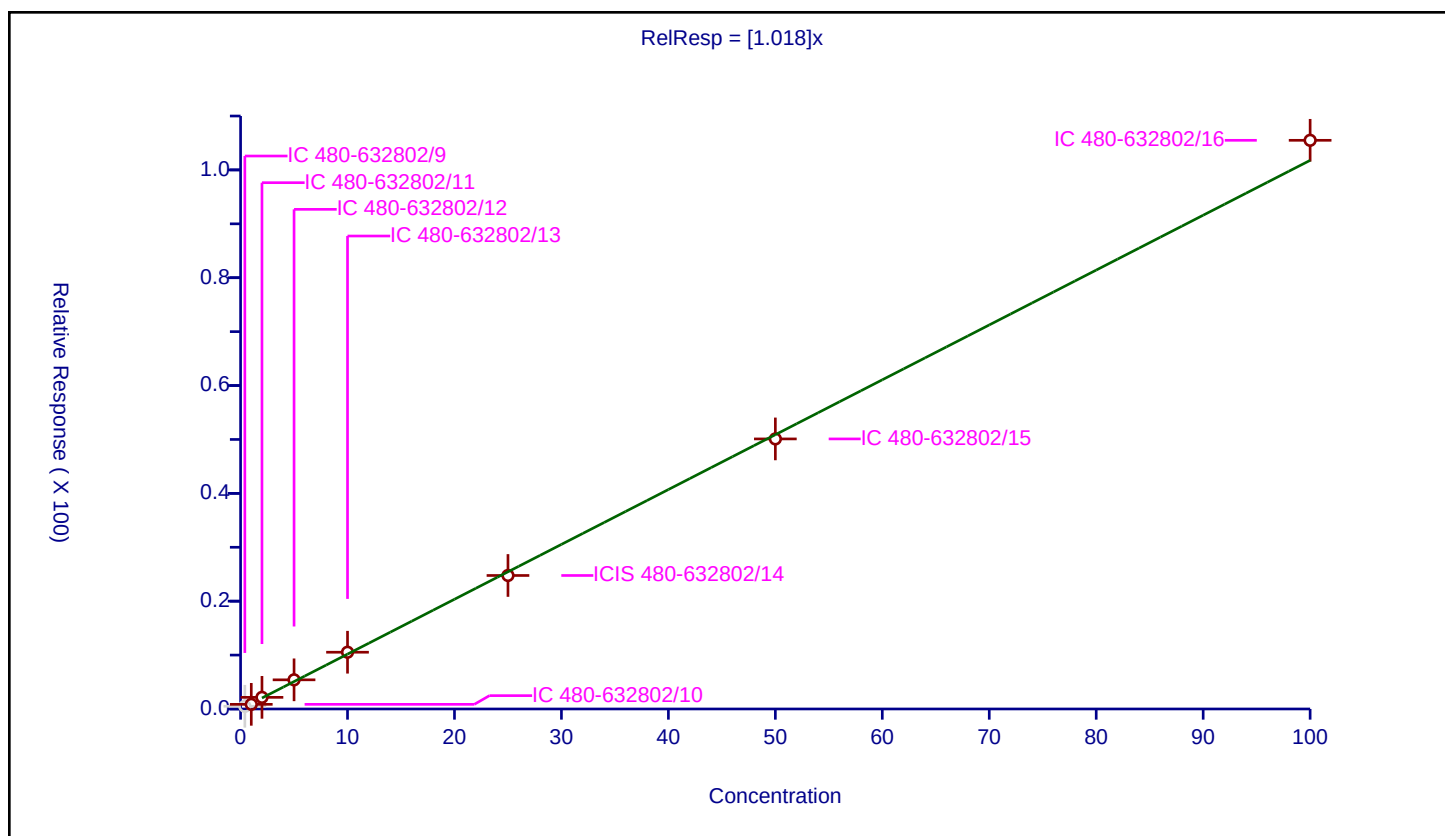
## Curve Coefficients

Intercept: 0  
Slope: 1.018

## Error Coefficients

Standard Error: 310000  
Relative Standard Error: 7.6  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.499644   | 25.0      | 172673.0    | 1.24911  | N    |
| 2  | IC 480-632802/10   | 1.0           | 0.862759   | 25.0      | 176237.0    | 0.862759 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.158008   | 25.0      | 170991.0    | 1.079004 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 5.408431   | 25.0      | 172624.0    | 1.081686 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 10.530144  | 25.0      | 169105.0    | 1.053014 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 24.768634  | 25.0      | 166727.0    | 0.990745 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 50.100196  | 25.0      | 165426.0    | 1.002004 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 105.492357 | 25.0      | 156035.0    | 1.054924 | Y    |



## Calibration

/ Chloroethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

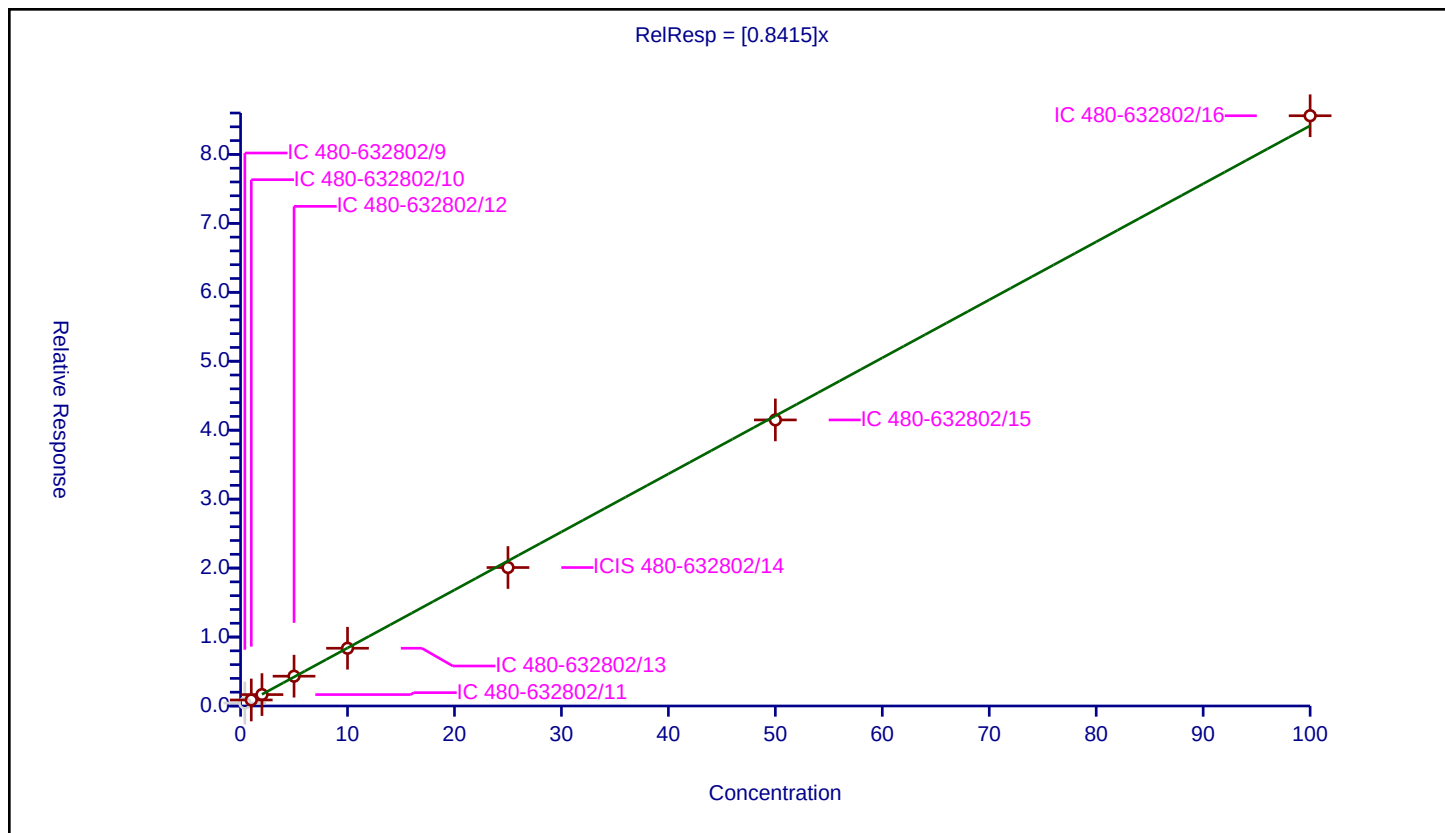
## Curve Coefficients

Intercept: 0  
Slope: 0.8415

## Error Coefficients

Standard Error: 253000  
Relative Standard Error: 2.9  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.999

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.423344   | 25.0      | 172673.0    | 1.058359 | N    |
| 2  | IC 480-632802/10   | 1.0           | 0.873965   | 25.0      | 176237.0    | 0.873965 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 1.651841   | 25.0      | 170991.0    | 0.825921 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 4.320952   | 25.0      | 172624.0    | 0.86419  | Y    |
| 5  | IC 480-632802/13   | 10.0          | 8.374531   | 25.0      | 169105.0    | 0.837453 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 20.08178   | 25.0      | 166727.0    | 0.803271 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 41.489246  | 25.0      | 165426.0    | 0.829785 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 85.604191  | 25.0      | 156035.0    | 0.856042 | Y    |



## Calibration

/ Dichlorofluoromethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

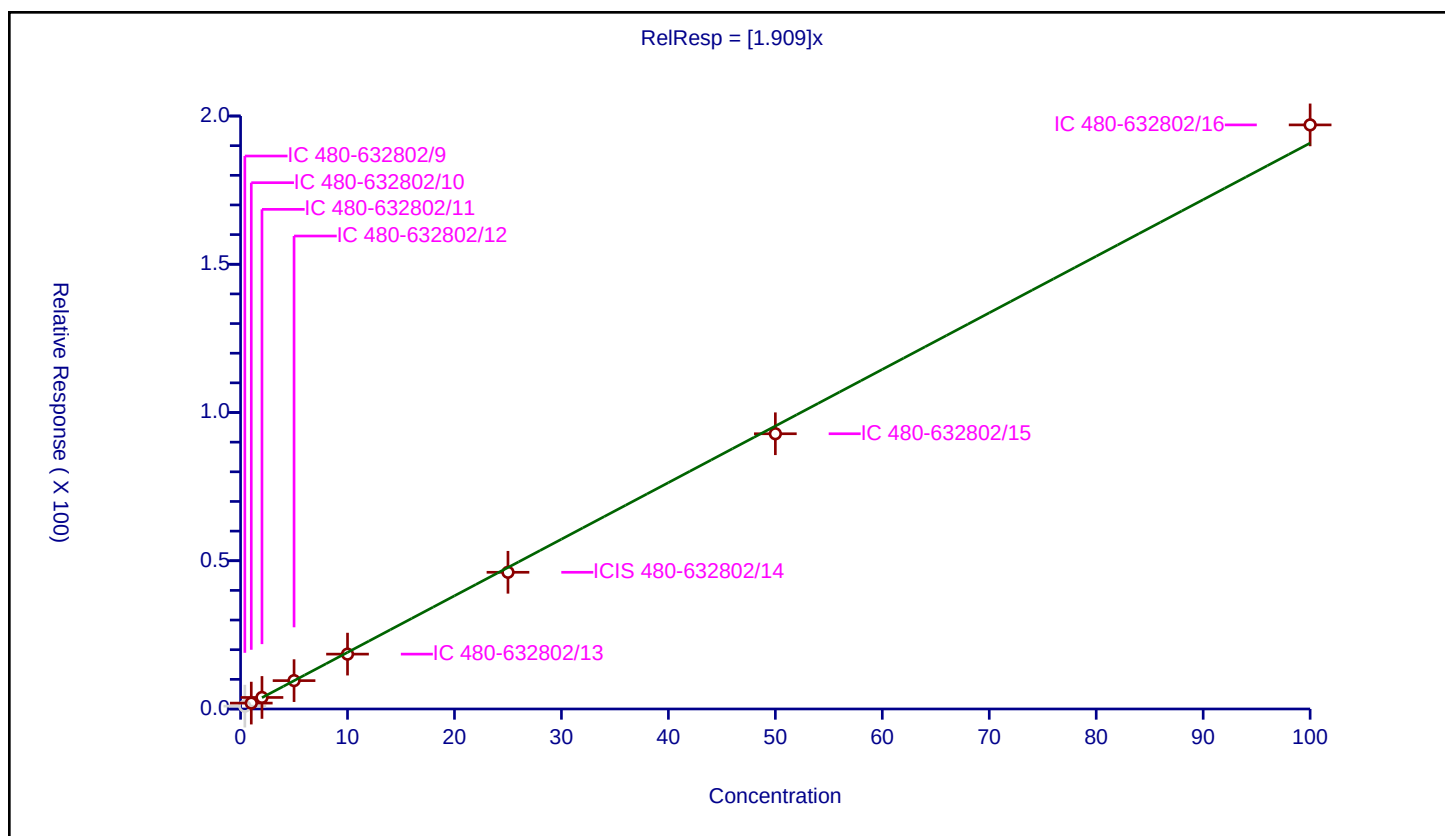
## Curve Coefficients

Intercept: 0  
Slope: 1.909

## Error Coefficients

Standard Error: 578000  
Relative Standard Error: 3.1  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.999

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.953971   | 25.0      | 172673.0    | 2.384927 | N    |
| 2  | IC 480-632802/10   | 1.0           | 1.983125   | 25.0      | 176237.0    | 1.983125 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.886462   | 25.0      | 170991.0    | 1.943231 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 9.565877   | 25.0      | 172624.0    | 1.913175 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 18.504332  | 25.0      | 169105.0    | 1.850433 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 46.112807  | 25.0      | 166727.0    | 1.844512 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 92.833503  | 25.0      | 165426.0    | 1.85667  | Y    |
| 8  | IC 480-632802/16   | 100.0         | 197.007723 | 25.0      | 156035.0    | 1.970077 | Y    |





# Calibration

/ Trichlorofluoromethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

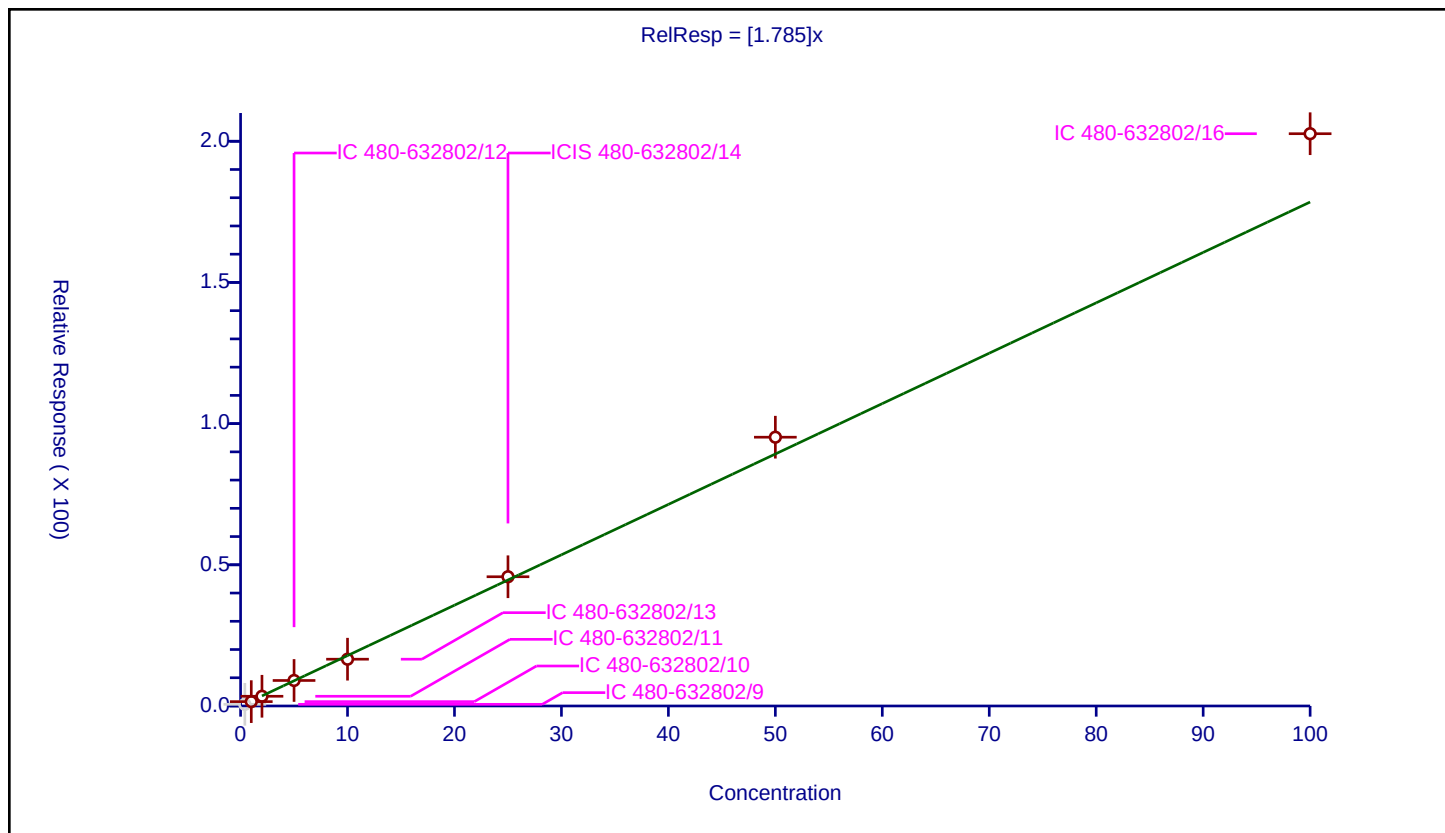
## Curve Coefficients

Intercept: 0  
 Slope: 1.785

## Error Coefficients

Standard Error: 593000  
 Relative Standard Error: 8.9  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.990

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.588685   | 25.0      | 172673.0    | 1.471712 | N    |
| 2  | IC 480-632802/10   | 1.0           | 1.546781   | 25.0      | 176237.0    | 1.546781 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.443456   | 25.0      | 170991.0    | 1.721728 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 9.034375   | 25.0      | 172624.0    | 1.806875 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 16.5687    | 25.0      | 169105.0    | 1.65687  | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 45.766133  | 25.0      | 166727.0    | 1.830645 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 95.194528  | 25.0      | 165426.0    | 1.903891 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 202.668792 | 25.0      | 156035.0    | 2.026688 | Y    |



# Calibration

/ Ethyl ether

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

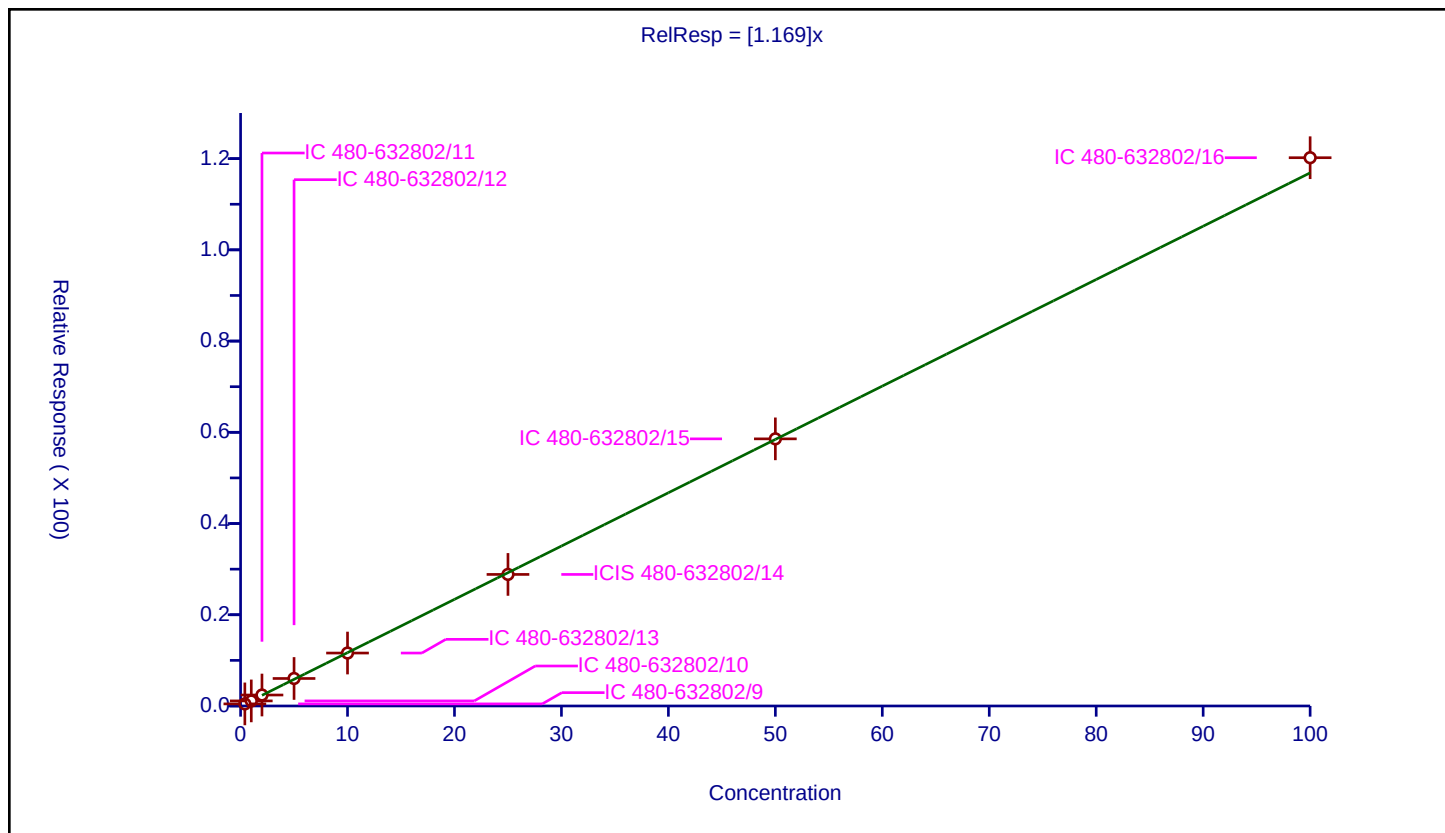
## Curve Coefficients

Intercept: 0  
 Slope: 1.169

## Error Coefficients

Standard Error: 329000  
 Relative Standard Error: 2.9  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.999

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.456933   | 25.0      | 172673.0    | 1.142333 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.111713   | 25.0      | 176237.0    | 1.111713 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.404659   | 25.0      | 170991.0    | 1.202329 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 6.030882   | 25.0      | 172624.0    | 1.206176 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 11.606546  | 25.0      | 169105.0    | 1.160655 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 28.842509  | 25.0      | 166727.0    | 1.1537   | Y    |
| 7  | IC 480-632802/15   | 50.0          | 58.56667   | 25.0      | 165426.0    | 1.171333 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 120.202519 | 25.0      | 156035.0    | 1.202025 | Y    |



## Calibration

/ Acrolein

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ISTD  
**Response Base:** AREA  
**RF Rounding:** 0

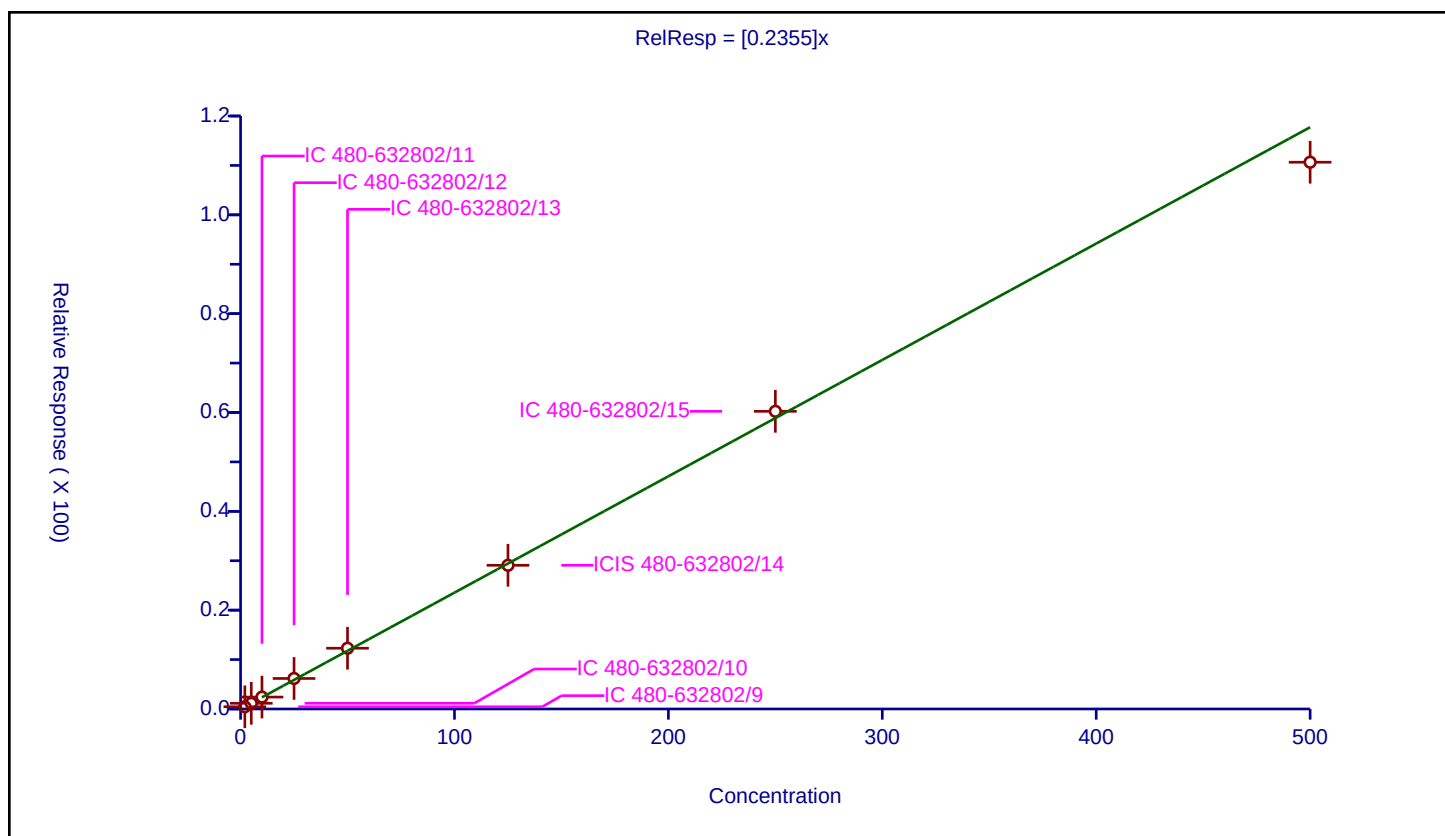
### Curve Coefficients

**Intercept:** 0  
**Slope:** 0.2355

### Error Coefficients

**Standard Error:** 312000  
**Relative Standard Error:** 4.1  
**Correlation Coefficient:** 0.995  
**Coefficient of Determination (Adjusted):** 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 2.0           | 0.449115   | 25.0      | 172673.0    | 0.224557 | Y    |
| 2  | IC 480-632802/10   | 5.0           | 1.152425   | 25.0      | 176237.0    | 0.230485 | Y    |
| 3  | IC 480-632802/11   | 10.0          | 2.406998   | 25.0      | 170991.0    | 0.2407   | Y    |
| 4  | IC 480-632802/12   | 25.0          | 6.177588   | 25.0      | 172624.0    | 0.247104 | Y    |
| 5  | IC 480-632802/13   | 50.0          | 12.293989  | 25.0      | 169105.0    | 0.24588  | Y    |
| 6  | ICIS 480-632802/14 | 125.0         | 29.078674  | 25.0      | 166727.0    | 0.232629 | Y    |
| 7  | IC 480-632802/15   | 250.0         | 60.239473  | 25.0      | 165426.0    | 0.240958 | Y    |
| 8  | IC 480-632802/16   | 500.0         | 110.648893 | 25.0      | 156035.0    | 0.221298 | Y    |



# Calibration

/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

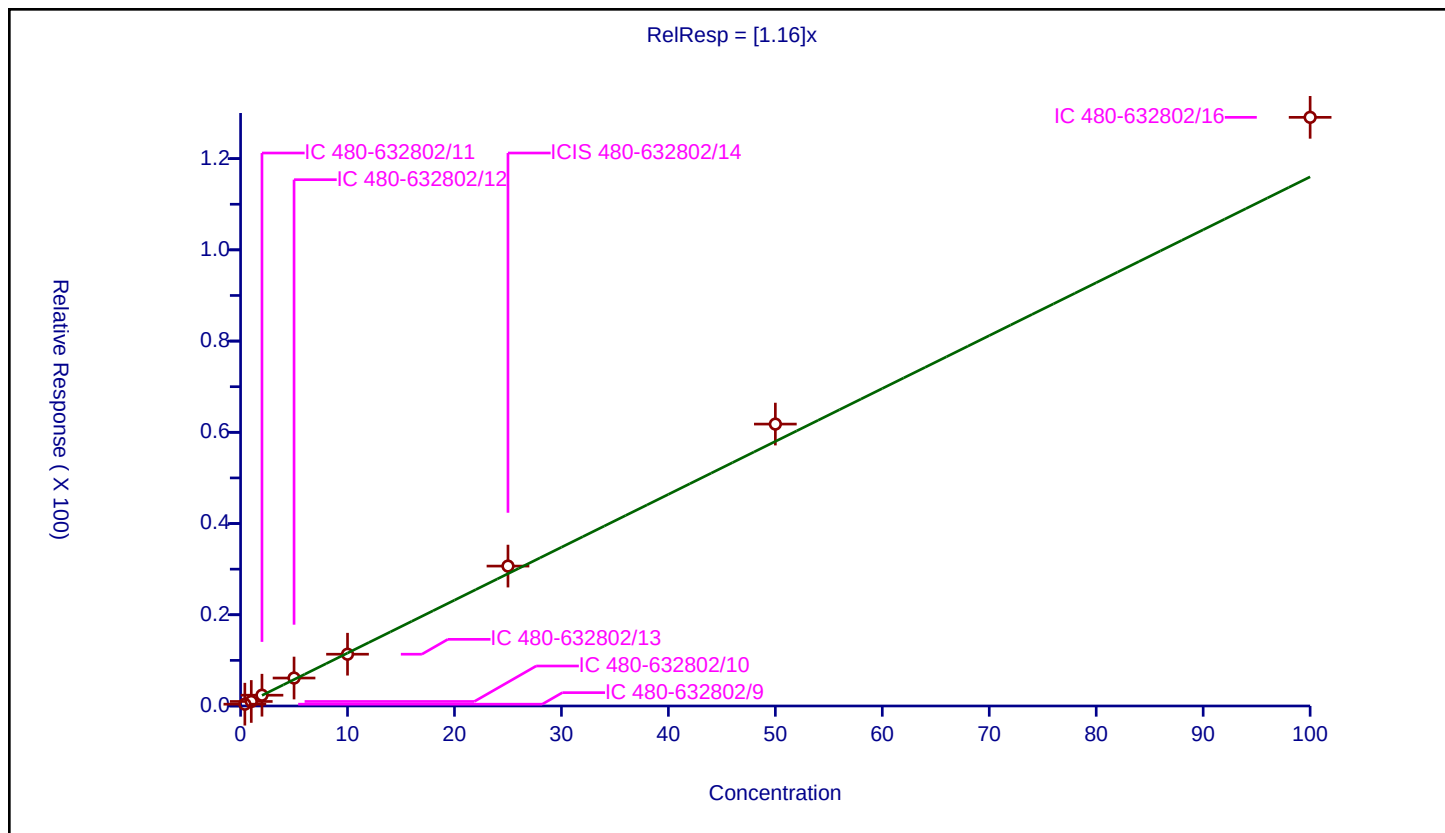
## Curve Coefficients

Intercept: 0  
Slope: 1.16

## Error Coefficients

Standard Error: 352000  
Relative Standard Error: 9.8  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.989

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.397138   | 25.0      | 172673.0    | 0.992845 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.989009   | 25.0      | 176237.0    | 0.989009 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.367668   | 25.0      | 170991.0    | 1.183834 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 6.129362   | 25.0      | 172624.0    | 1.225872 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 11.350936  | 25.0      | 169105.0    | 1.135094 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 30.672597  | 25.0      | 166727.0    | 1.226904 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 61.803465  | 25.0      | 165426.0    | 1.236069 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 129.050534 | 25.0      | 156035.0    | 1.290505 | Y    |



# Calibration

/ 1,1-Dichloroethene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

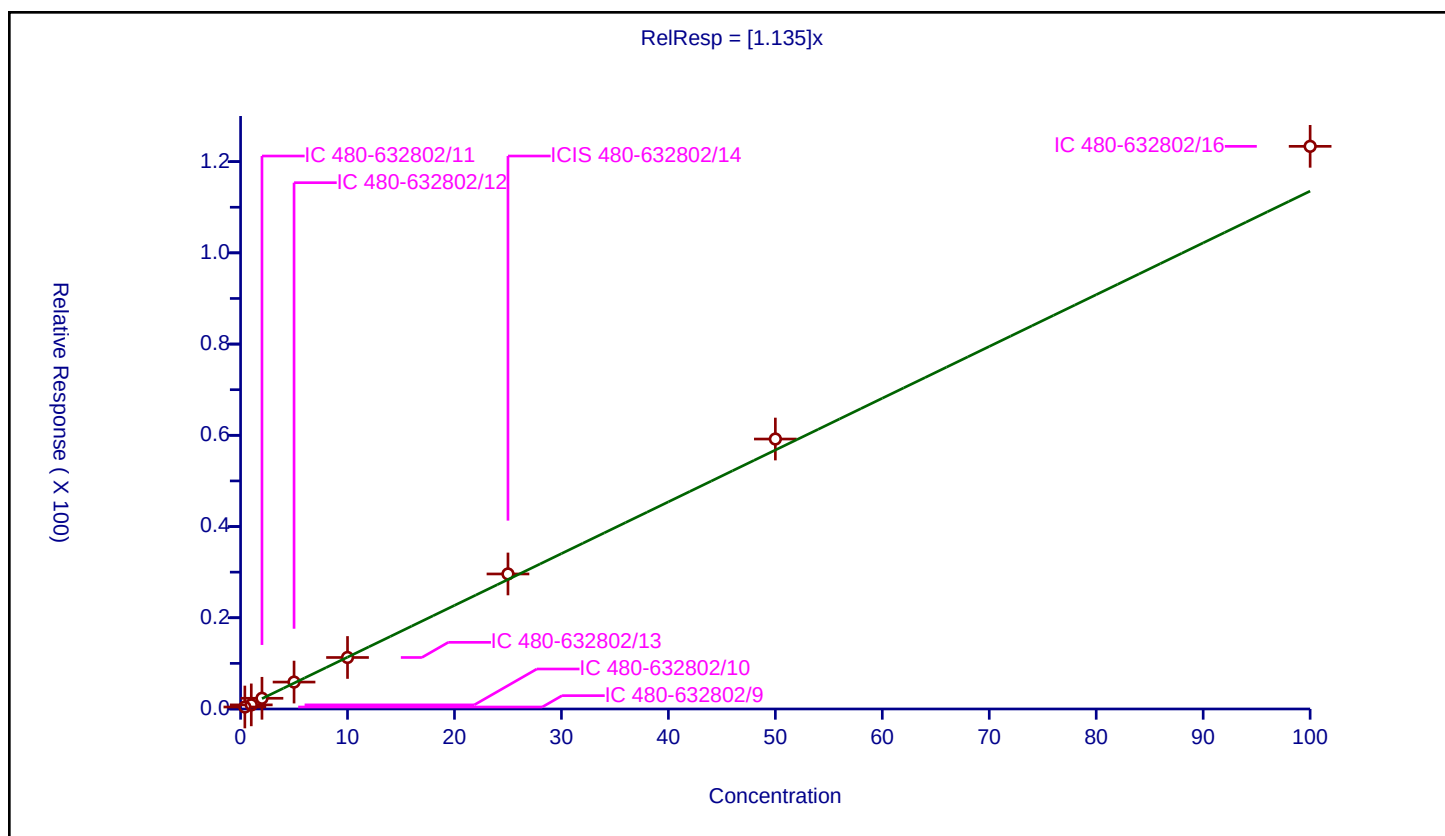
## Curve Coefficients

Intercept: 0  
 Slope: 1.135

## Error Coefficients

Standard Error: 337000  
 Relative Standard Error: 8.9  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.990

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.437532   | 25.0      | 172673.0    | 1.093831 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.905741   | 25.0      | 176237.0    | 0.905741 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.344568   | 25.0      | 170991.0    | 1.172284 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 5.900251   | 25.0      | 172624.0    | 1.18005  | Y    |
| 5  | IC 480-632802/13   | 10.0          | 11.29461   | 25.0      | 169105.0    | 1.129461 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 29.604233  | 25.0      | 166727.0    | 1.184169 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 59.185829  | 25.0      | 165426.0    | 1.183717 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 123.352293 | 25.0      | 156035.0    | 1.233523 | Y    |



# Calibration

/ Acetone

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

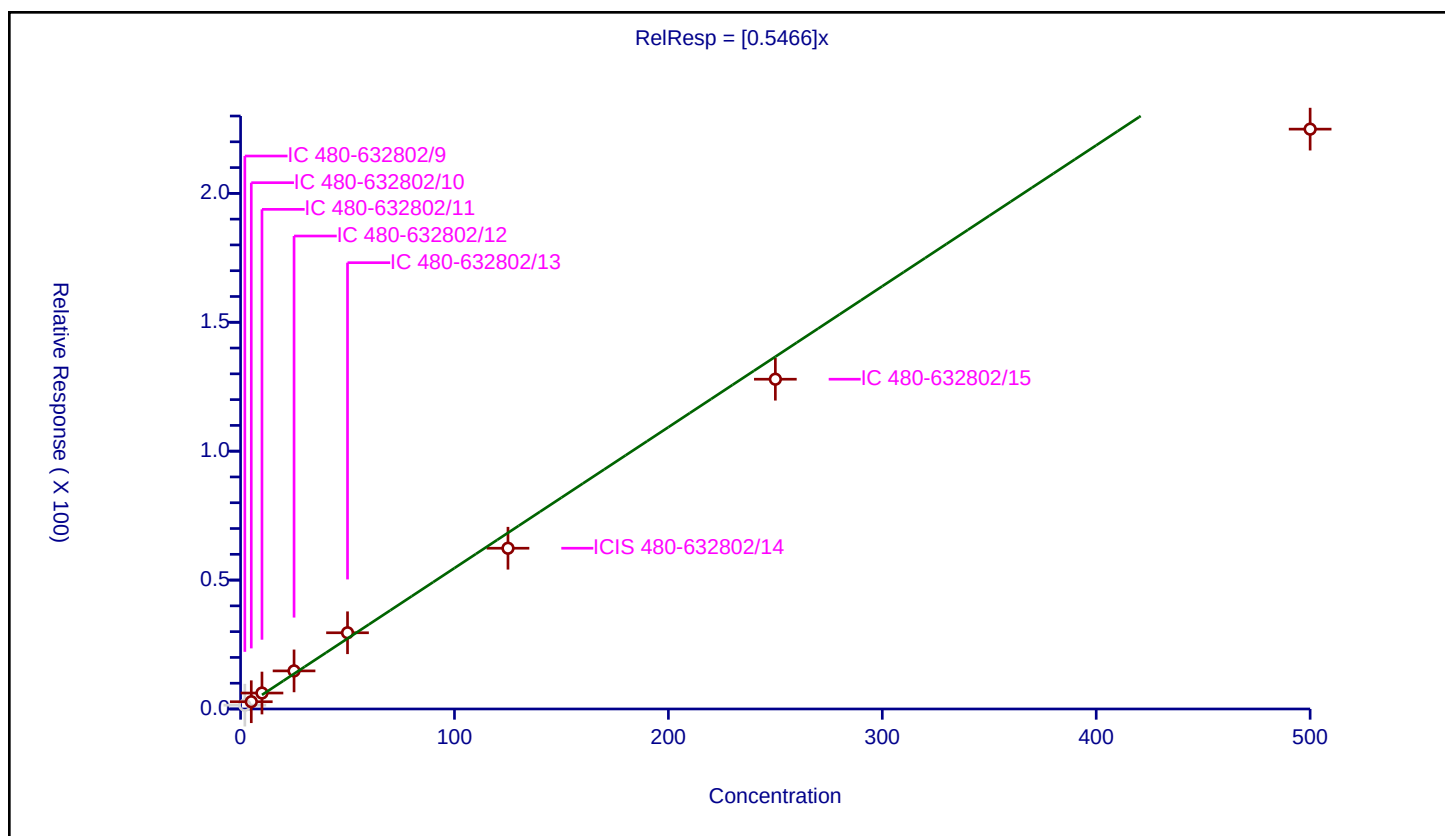
## Curve Coefficients

Intercept: 0  
 Slope: 0.5466

## Error Coefficients

Standard Error: 697000  
 Relative Standard Error: 11.2  
 Correlation Coefficient: 0.991  
 Coefficient of Determination (Adjusted): 0.981

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 2.0           | 1.48648    | 25.0      | 172673.0    | 0.74324  | N    |
| 2  | IC 480-632802/10   | 5.0           | 2.823471   | 25.0      | 176237.0    | 0.564694 | Y    |
| 3  | IC 480-632802/11   | 10.0          | 6.187606   | 25.0      | 170991.0    | 0.618761 | Y    |
| 4  | IC 480-632802/12   | 25.0          | 14.775755  | 25.0      | 172624.0    | 0.59103  | Y    |
| 5  | IC 480-632802/13   | 50.0          | 29.565359  | 25.0      | 169105.0    | 0.591307 | Y    |
| 6  | ICIS 480-632802/14 | 125.0         | 62.352228  | 25.0      | 166727.0    | 0.498818 | Y    |
| 7  | IC 480-632802/15   | 250.0         | 127.911423 | 25.0      | 165426.0    | 0.511646 | Y    |
| 8  | IC 480-632802/16   | 500.0         | 224.913962 | 25.0      | 156035.0    | 0.449828 | Y    |



# Calibration

/ Iodomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

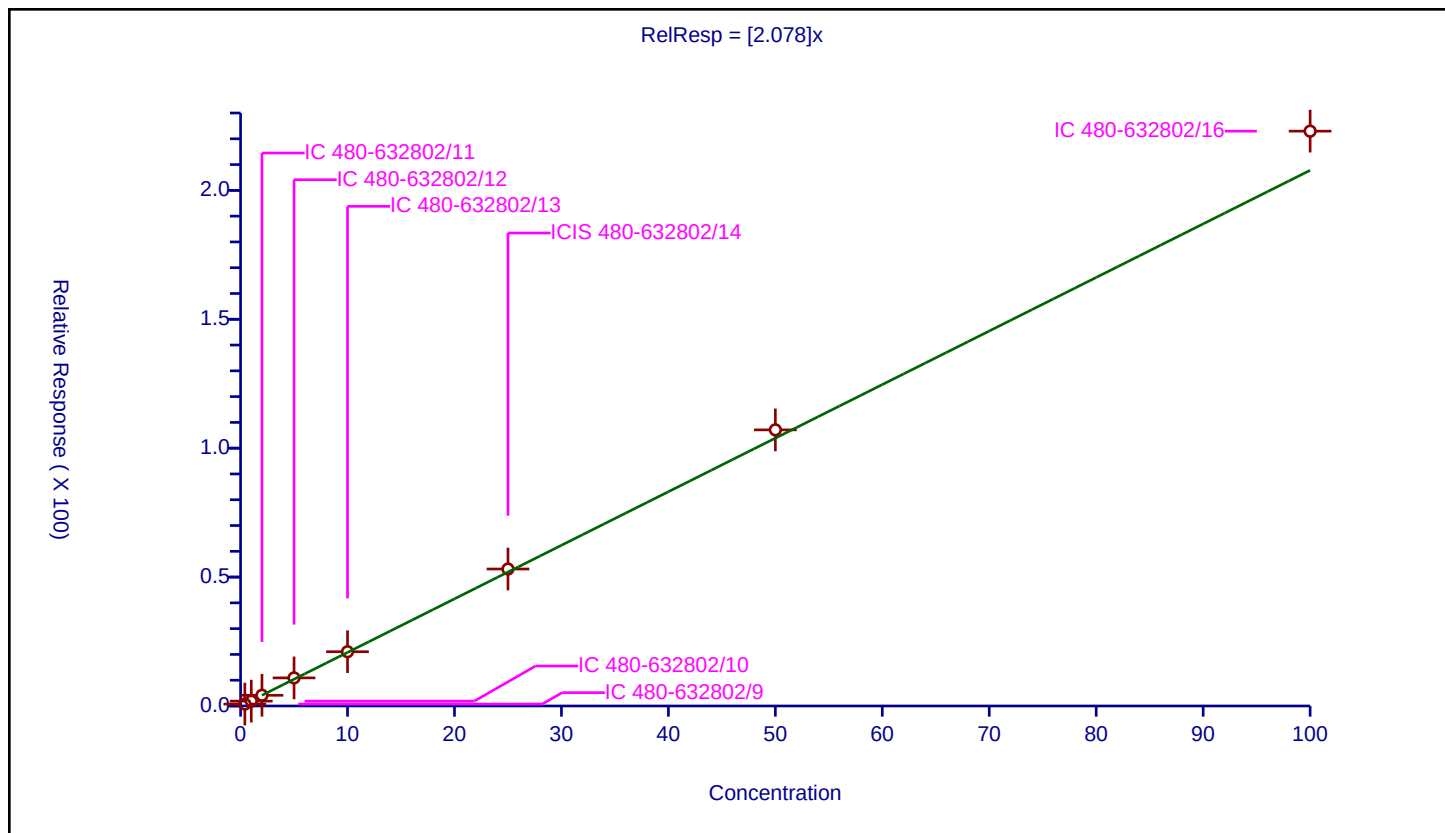
## Curve Coefficients

Intercept: 0  
 Slope: 2.078

## Error Coefficients

Standard Error: 608000  
 Relative Standard Error: 6.3  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.748525   | 25.0      | 172673.0    | 1.871312 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.890636   | 25.0      | 176237.0    | 1.890636 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 4.156213   | 25.0      | 170991.0    | 2.078106 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 10.900136  | 25.0      | 172624.0    | 2.180027 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 21.051122  | 25.0      | 169105.0    | 2.105112 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 53.126968  | 25.0      | 166727.0    | 2.125079 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 107.098945 | 25.0      | 165426.0    | 2.141979 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 222.962637 | 25.0      | 156035.0    | 2.229626 | Y    |



# Calibration

/ Carbon disulfide

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

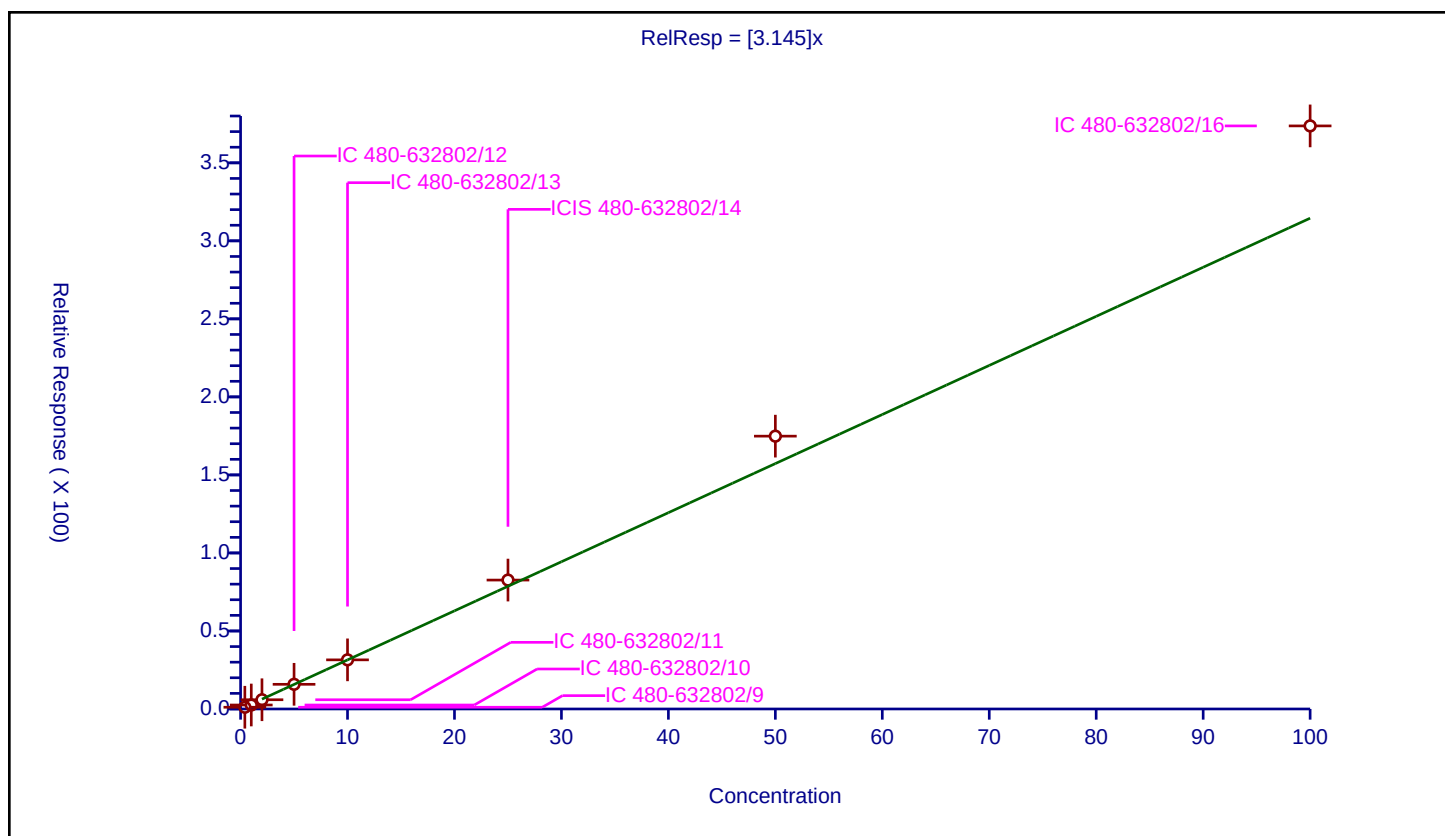
## Curve Coefficients

Intercept: 0  
 Slope: 3.145

## Error Coefficients

Standard Error: 1010000  
 Relative Standard Error: 12.1  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.983

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 1.119167   | 25.0      | 172673.0    | 2.797919 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 2.551536   | 25.0      | 176237.0    | 2.551536 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 5.922973   | 25.0      | 170991.0    | 2.961486 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 15.817905  | 25.0      | 172624.0    | 3.163581 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 31.489607  | 25.0      | 169105.0    | 3.148961 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 82.613644  | 25.0      | 166727.0    | 3.304546 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 174.853258 | 25.0      | 165426.0    | 3.497065 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 373.661038 | 25.0      | 156035.0    | 3.73661  | Y    |





# Calibration

/ 3-Chloro-1-propene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

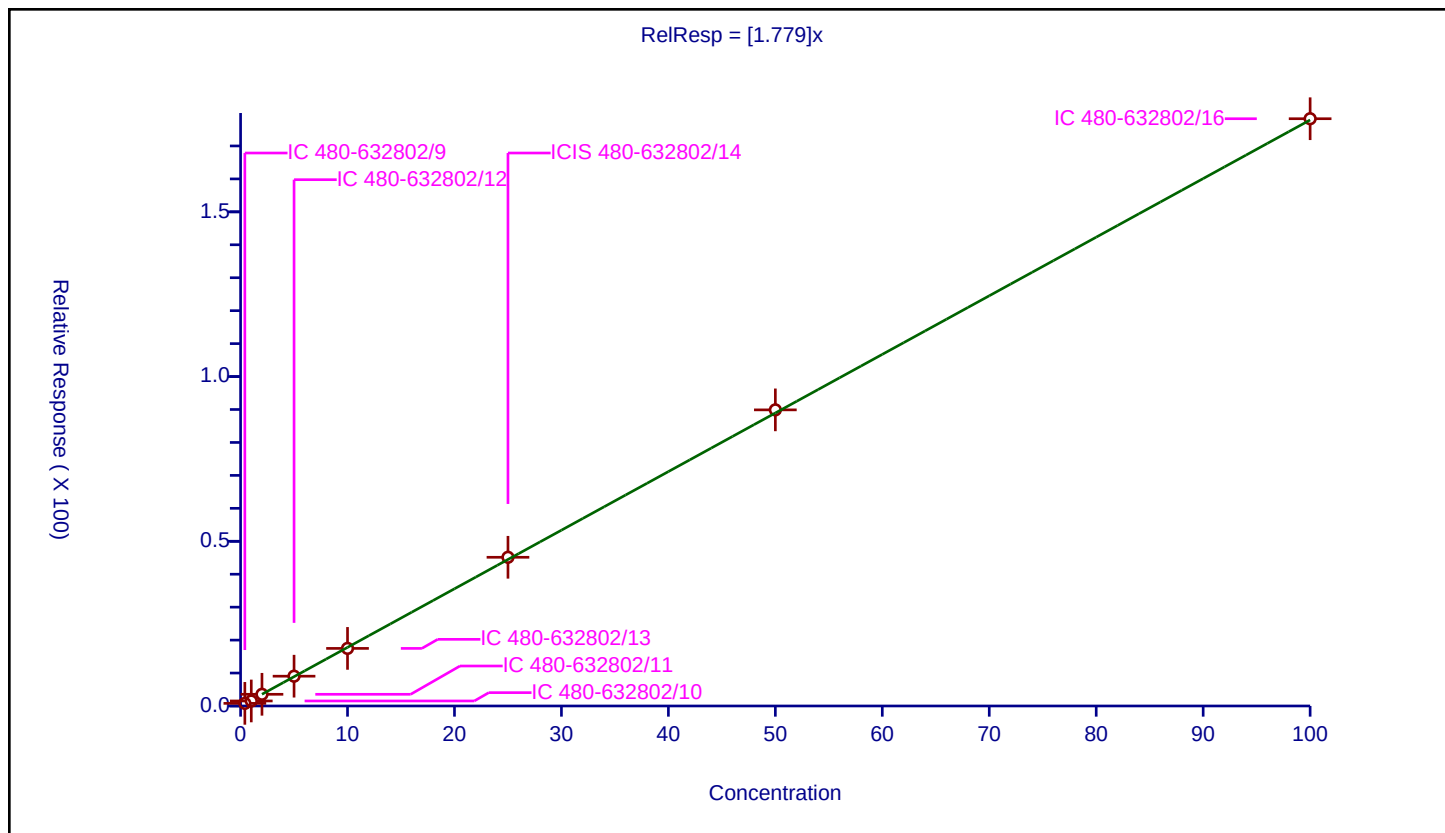
## Curve Coefficients

Intercept: 0  
 Slope: 1.779

## Error Coefficients

Standard Error: 493000  
 Relative Standard Error: 7.1  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.795579   | 25.0      | 172673.0    | 1.988947 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.523233   | 25.0      | 176237.0    | 1.523233 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.550625   | 25.0      | 170991.0    | 1.775313 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 9.047409   | 25.0      | 172624.0    | 1.809482 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 17.477603  | 25.0      | 169105.0    | 1.74776  | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 45.13876   | 25.0      | 166727.0    | 1.80555  | Y    |
| 7  | IC 480-632802/15   | 50.0          | 89.890193  | 25.0      | 165426.0    | 1.797804 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 178.265453 | 25.0      | 156035.0    | 1.782655 | Y    |



## Calibration

/ Methyl acetate

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

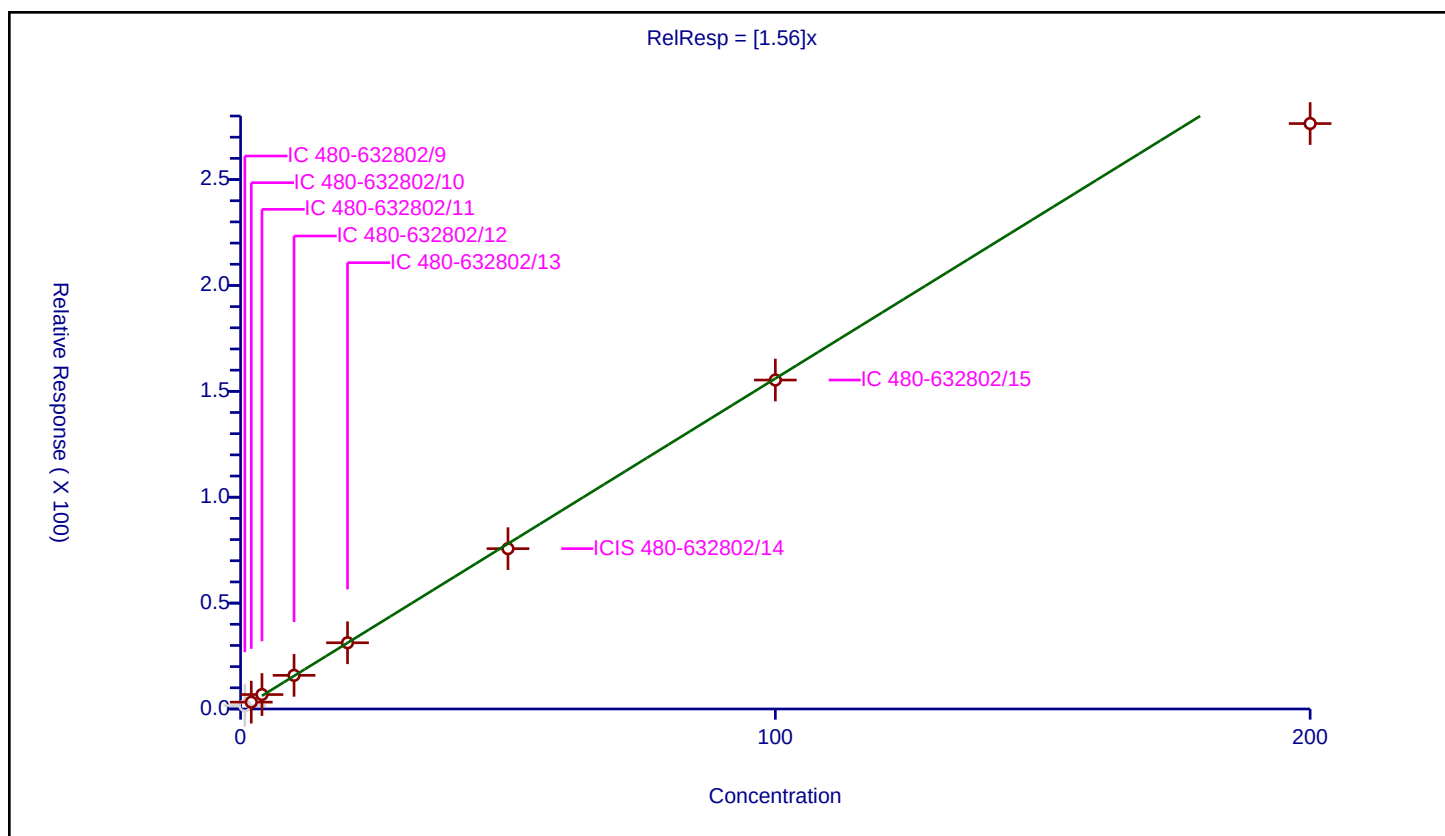
## Curve Coefficients

Intercept: 0  
Slope: 1.56

## Error Coefficients

Standard Error: 851000  
Relative Standard Error: 6.3  
Correlation Coefficient: 0.992  
Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.8           | 1.622576   | 25.0      | 172673.0    | 2.02822  | N    |
| 2  | IC 480-632802/10   | 2.0           | 3.232295   | 25.0      | 176237.0    | 1.616148 | Y    |
| 3  | IC 480-632802/11   | 4.0           | 6.820388   | 25.0      | 170991.0    | 1.705097 | Y    |
| 4  | IC 480-632802/12   | 10.0          | 15.88713   | 25.0      | 172624.0    | 1.588713 | Y    |
| 5  | IC 480-632802/13   | 20.0          | 31.26726   | 25.0      | 169105.0    | 1.563363 | Y    |
| 6  | ICIS 480-632802/14 | 50.0          | 75.702796  | 25.0      | 166727.0    | 1.514056 | Y    |
| 7  | IC 480-632802/15   | 100.0         | 155.33048  | 25.0      | 165426.0    | 1.553305 | Y    |
| 8  | IC 480-632802/16   | 200.0         | 276.436376 | 25.0      | 156035.0    | 1.382182 | Y    |



# Calibration

/ Methylene Chloride

Curve Type: Linear  
 Weighting: Conc  
 Origin: None  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

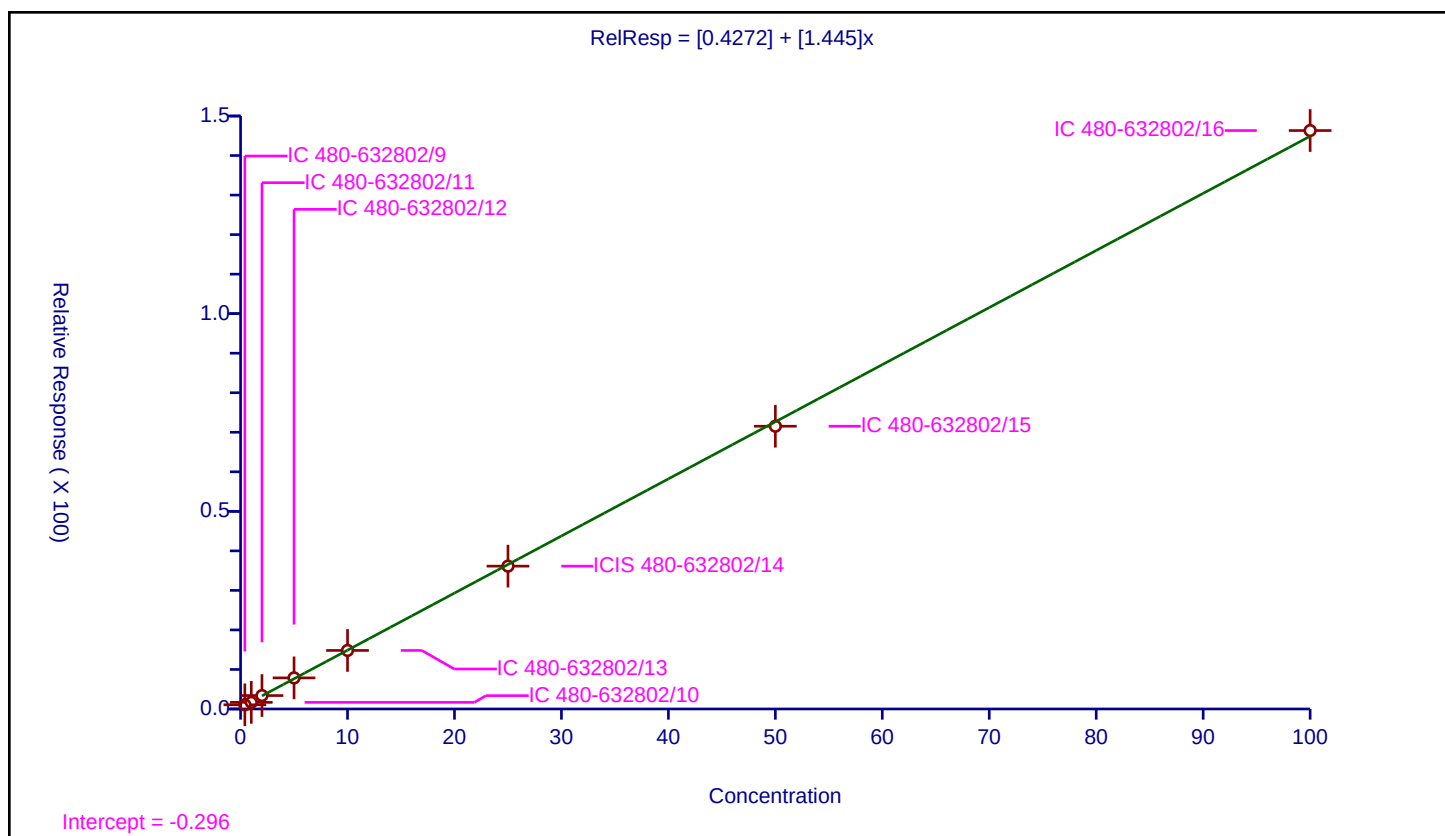
## Curve Coefficients

Intercept: 0.4272  
 Slope: 1.445

## Error Coefficients

Standard Error: 434000  
 Relative Standard Error: 7.1  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 1.000

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 1.062413   | 25.0      | 172673.0    | 2.656032 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.677003   | 25.0      | 176237.0    | 1.677003 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.393161   | 25.0      | 170991.0    | 1.696581 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 7.866954   | 25.0      | 172624.0    | 1.573391 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 14.810916  | 25.0      | 169105.0    | 1.481092 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 36.134519  | 25.0      | 166727.0    | 1.445381 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 71.529566  | 25.0      | 165426.0    | 1.430591 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 146.321498 | 25.0      | 156035.0    | 1.463215 | Y    |



## Calibration

/ 2-Methyl-2-propanol

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

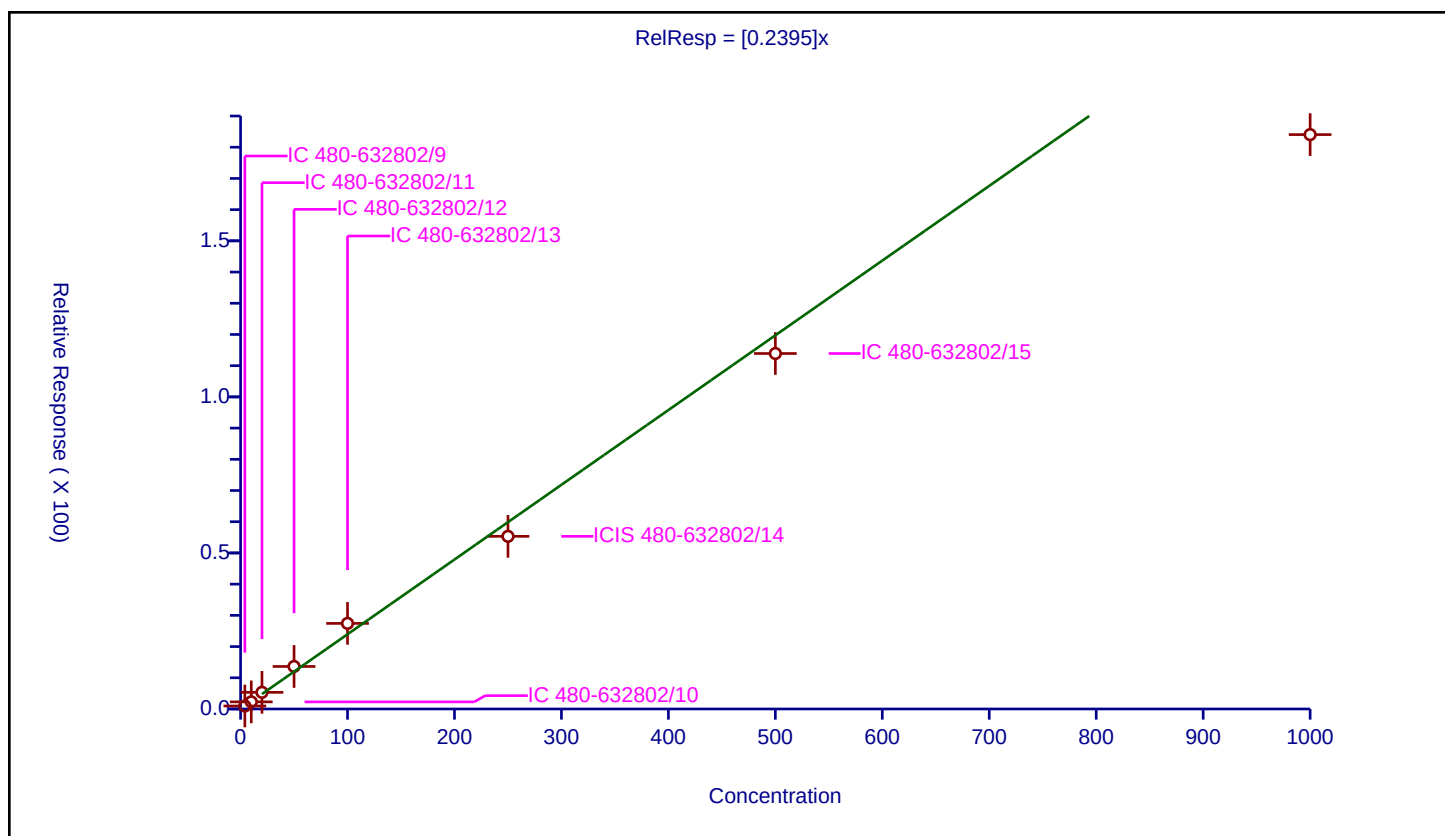
## Curve Coefficients

Intercept: 0  
Slope: 0.2395

## Error Coefficients

Standard Error: 544000  
Relative Standard Error: 12.9  
Correlation Coefficient: 0.979  
Coefficient of Determination (Adjusted): 0.979

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 4.0           | 0.963816   | 25.0      | 172673.0    | 0.240954 | Y    |
| 2  | IC 480-632802/10   | 10.0          | 2.281161   | 25.0      | 176237.0    | 0.228116 | Y    |
| 3  | IC 480-632802/11   | 20.0          | 5.332591   | 25.0      | 170991.0    | 0.26663  | Y    |
| 4  | IC 480-632802/12   | 50.0          | 13.627885  | 25.0      | 172624.0    | 0.272558 | Y    |
| 5  | IC 480-632802/13   | 100.0         | 27.422164  | 25.0      | 169105.0    | 0.274222 | Y    |
| 6  | ICIS 480-632802/14 | 250.0         | 55.321724  | 25.0      | 166727.0    | 0.221287 | Y    |
| 7  | IC 480-632802/15   | 500.0         | 113.903195 | 25.0      | 165426.0    | 0.227806 | Y    |
| 8  | IC 480-632802/16   | 1000.0        | 184.041561 | 25.0      | 156035.0    | 0.184042 | Y    |



## Calibration

/ Methyl tert-butyl ether

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

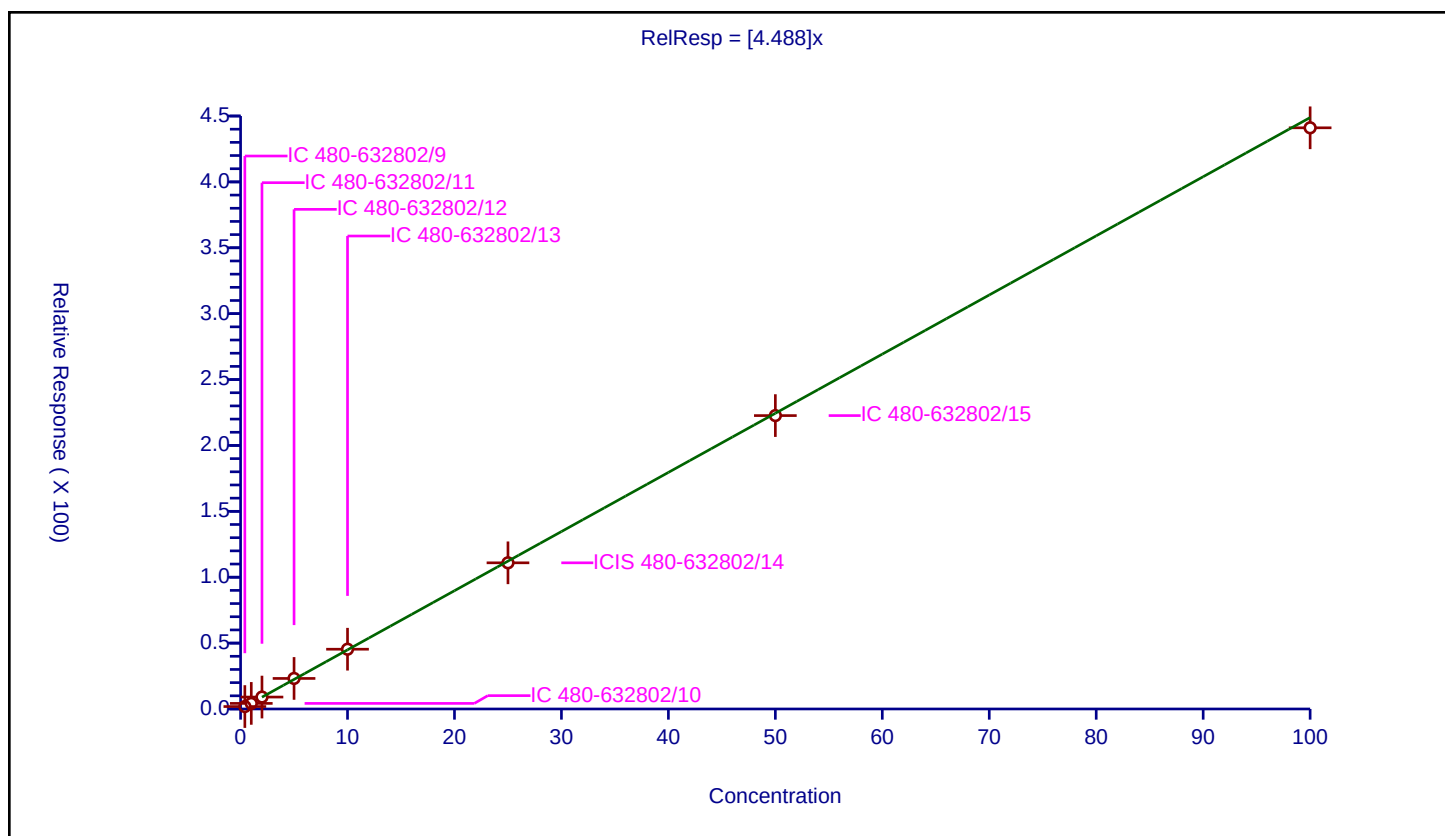
## Curve Coefficients

Intercept: 0  
Slope: 4.488

## Error Coefficients

Standard Error: 1220000  
Relative Standard Error: 2.9  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.999

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 1.861322   | 25.0      | 172673.0    | 4.653304 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 4.247973   | 25.0      | 176237.0    | 4.247973 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 9.06305    | 25.0      | 170991.0    | 4.531525 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 23.188404  | 25.0      | 172624.0    | 4.637681 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 45.355844  | 25.0      | 169105.0    | 4.535584 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 110.921896 | 25.0      | 166727.0    | 4.436876 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 222.658923 | 25.0      | 165426.0    | 4.453178 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 441.057295 | 25.0      | 156035.0    | 4.410573 | Y    |



## Calibration

/ trans-1,2-Dichloroethene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

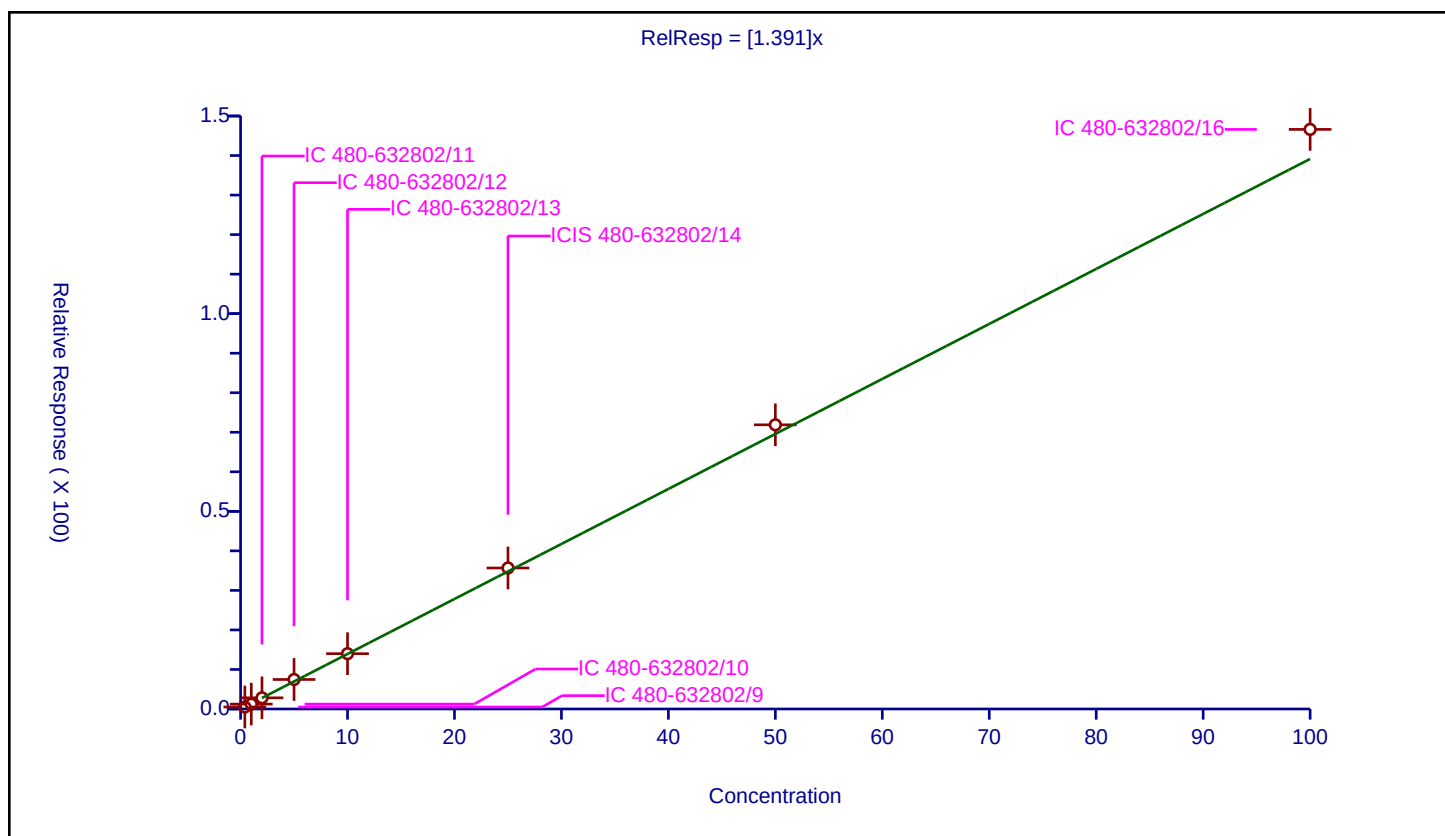
## Curve Coefficients

Intercept: 0  
Slope: 1.391

## Error Coefficients

Standard Error: 402000  
Relative Standard Error: 6.7  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.503843   | 25.0      | 172673.0    | 1.259606 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.238957   | 25.0      | 176237.0    | 1.238957 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.820909   | 25.0      | 170991.0    | 1.410454 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 7.46391    | 25.0      | 172624.0    | 1.492782 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 13.995447  | 25.0      | 169105.0    | 1.399545 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 35.666089  | 25.0      | 166727.0    | 1.426644 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 71.882141  | 25.0      | 165426.0    | 1.437643 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 146.610536 | 25.0      | 156035.0    | 1.466105 | Y    |



# Calibration

/ Acrylonitrile

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

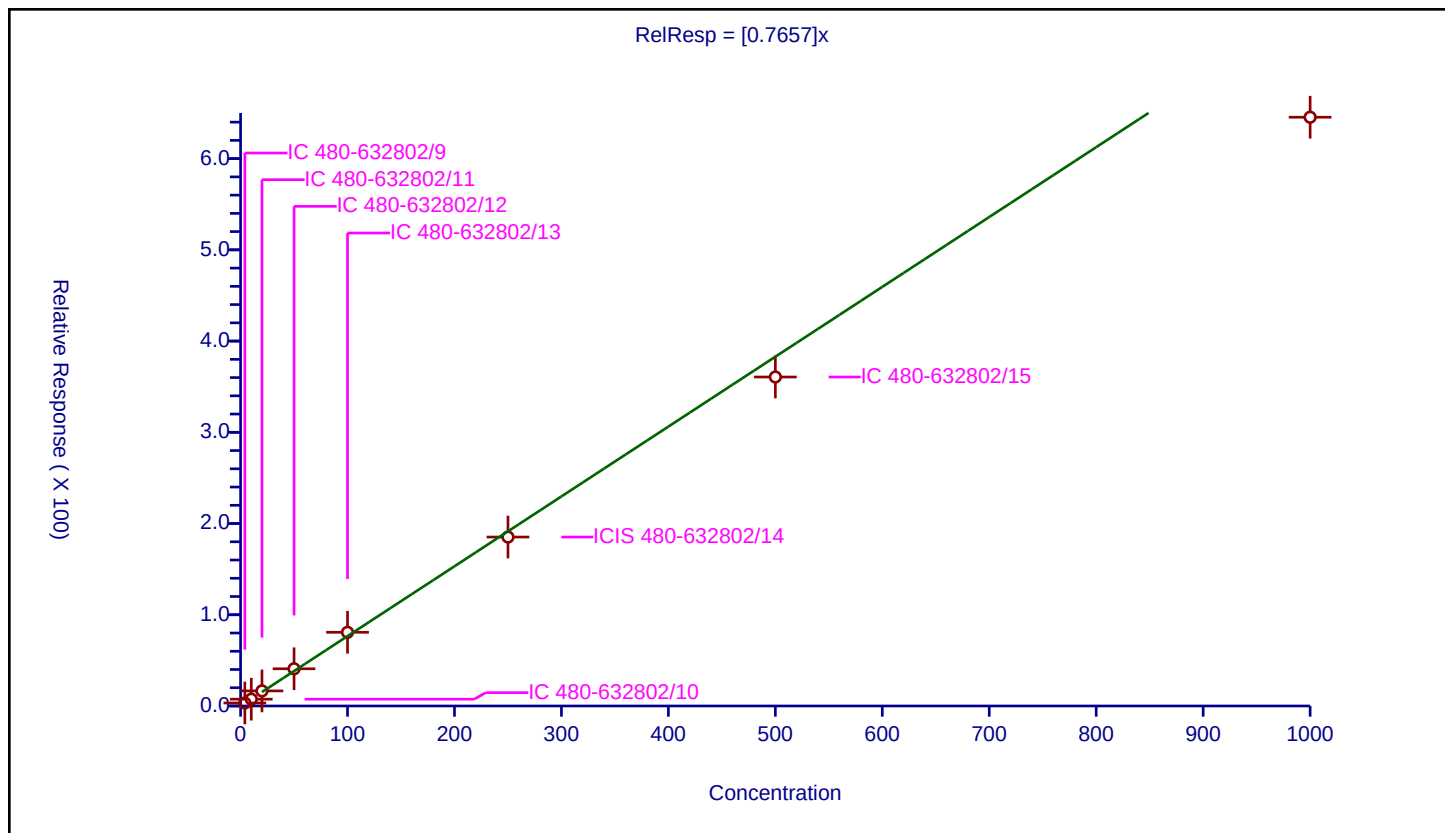
## Curve Coefficients

Intercept: 0  
 Slope: 0.7657

## Error Coefficients

Standard Error: 1850000  
 Relative Standard Error: 8.3  
 Correlation Coefficient: 0.992  
 Coefficient of Determination (Adjusted): 0.991

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 4.0           | 3.280189   | 25.0      | 172673.0    | 0.820047 | Y    |
| 2  | IC 480-632802/10   | 10.0          | 7.482396   | 25.0      | 176237.0    | 0.74824  | Y    |
| 3  | IC 480-632802/11   | 20.0          | 16.52894   | 25.0      | 170991.0    | 0.826447 | Y    |
| 4  | IC 480-632802/12   | 50.0          | 40.78923   | 25.0      | 172624.0    | 0.815785 | Y    |
| 5  | IC 480-632802/13   | 100.0         | 80.76831   | 25.0      | 169105.0    | 0.807683 | Y    |
| 6  | ICIS 480-632802/14 | 250.0         | 185.187912 | 25.0      | 166727.0    | 0.740752 | Y    |
| 7  | IC 480-632802/15   | 500.0         | 360.604439 | 25.0      | 165426.0    | 0.721209 | Y    |
| 8  | IC 480-632802/16   | 1000.0        | 645.368828 | 25.0      | 156035.0    | 0.645369 | Y    |



# Calibration

/ Hexane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

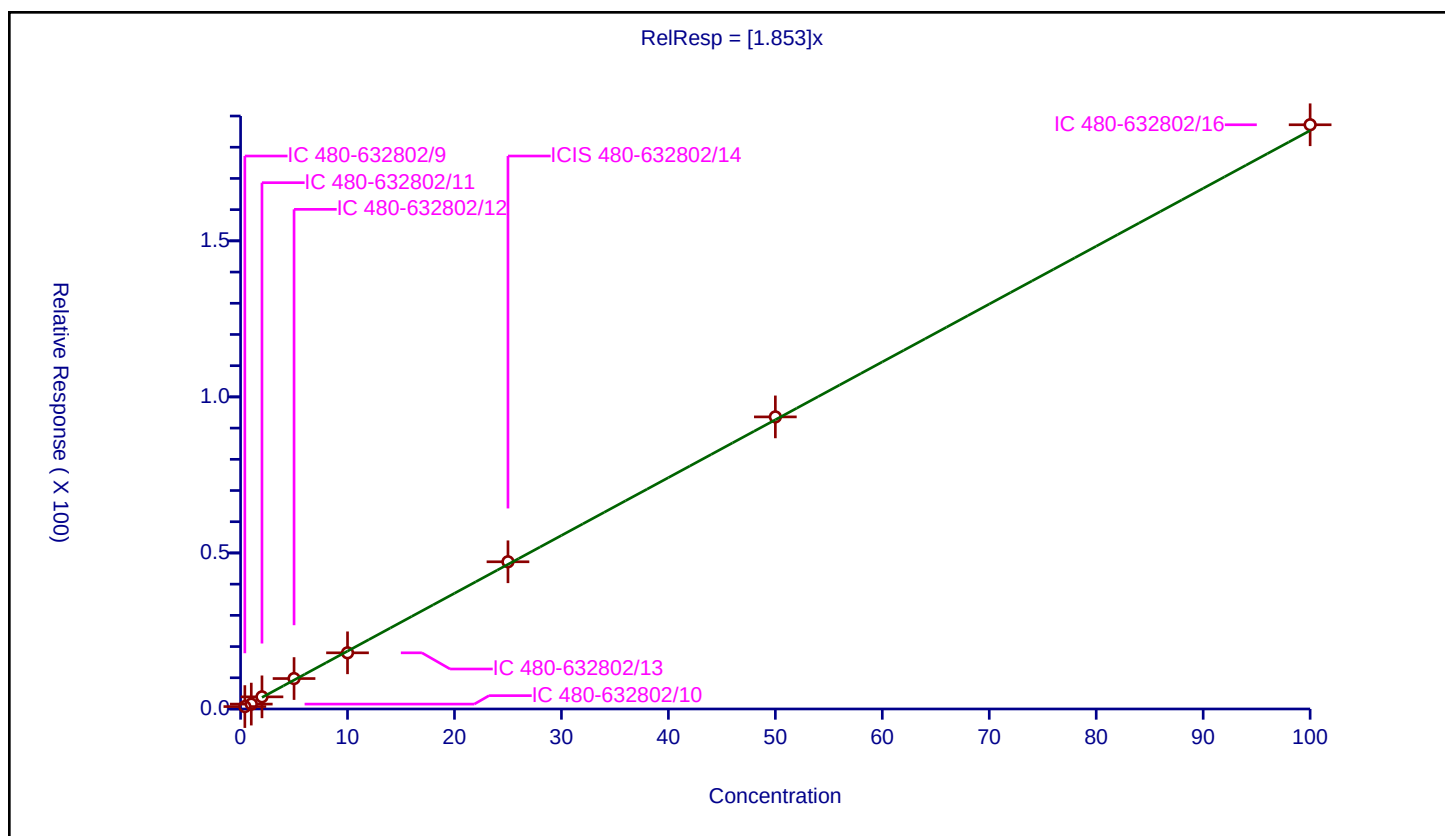
## Curve Coefficients

Intercept: 0  
 Slope: 1.853

## Error Coefficients

Standard Error: 516000  
 Relative Standard Error: 6.7  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.772993   | 25.0      | 172673.0    | 1.932482 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.570329   | 25.0      | 176237.0    | 1.570329 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.887924   | 25.0      | 170991.0    | 1.943962 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 9.750382   | 25.0      | 172624.0    | 1.950076 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 17.999911  | 25.0      | 169105.0    | 1.799991 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 47.170674  | 25.0      | 166727.0    | 1.886827 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 93.595475  | 25.0      | 165426.0    | 1.871909 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 187.200147 | 25.0      | 156035.0    | 1.872001 | Y    |





# Calibration

/ 1,1-Dichloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

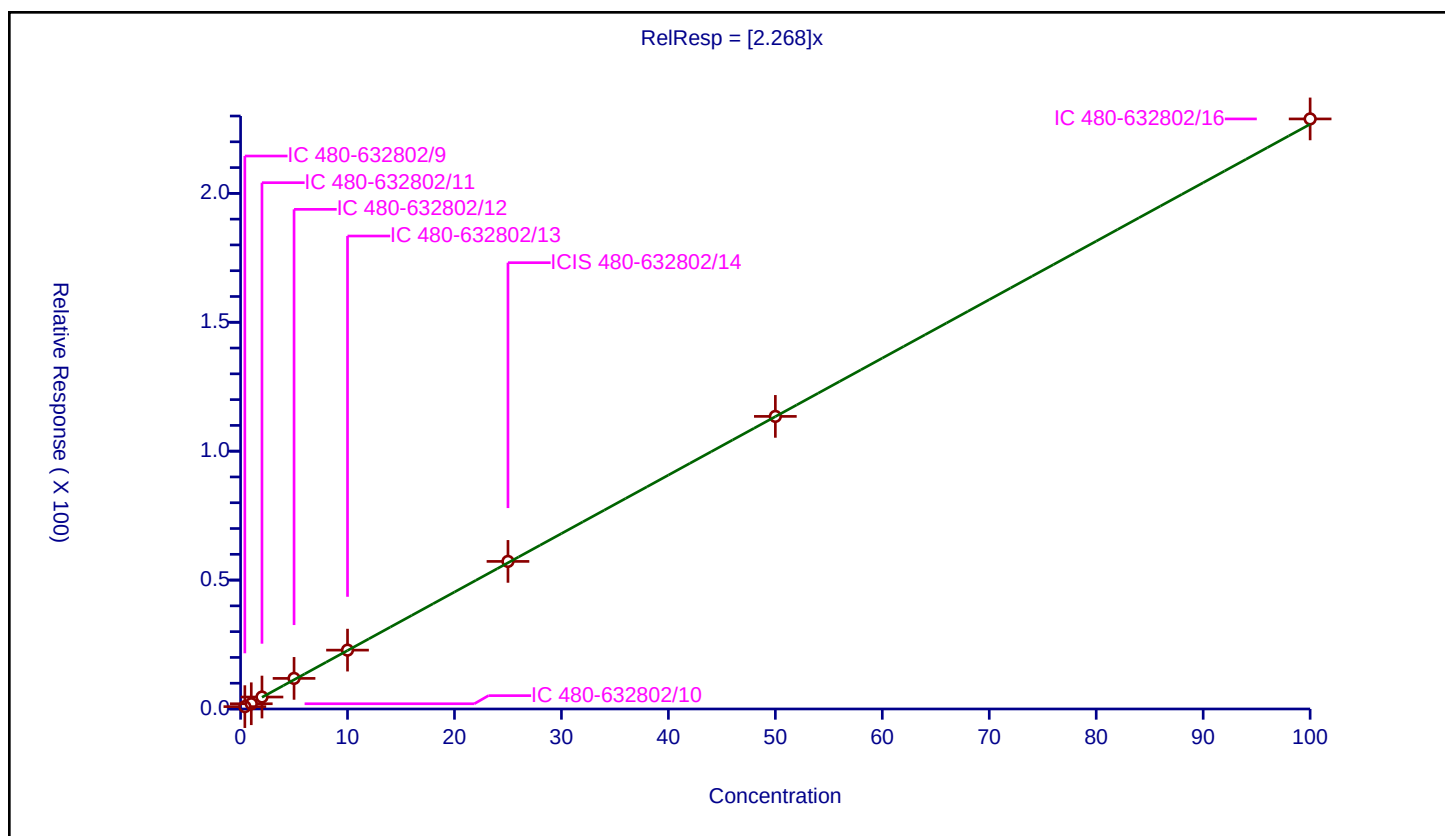
## Curve Coefficients

Intercept: 0  
 Slope: 2.268

## Error Coefficients

Standard Error: 630000  
 Relative Standard Error: 4.4  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.914735   | 25.0      | 172673.0    | 2.286837 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 2.032065   | 25.0      | 176237.0    | 2.032065 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 4.641765   | 25.0      | 170991.0    | 2.320882 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 11.866542  | 25.0      | 172624.0    | 2.373308 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 22.836699  | 25.0      | 169105.0    | 2.28367  | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 57.248226  | 25.0      | 166727.0    | 2.289929 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 113.493647 | 25.0      | 165426.0    | 2.269873 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 228.87349  | 25.0      | 156035.0    | 2.288735 | Y    |



# Calibration

/ Vinyl acetate

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

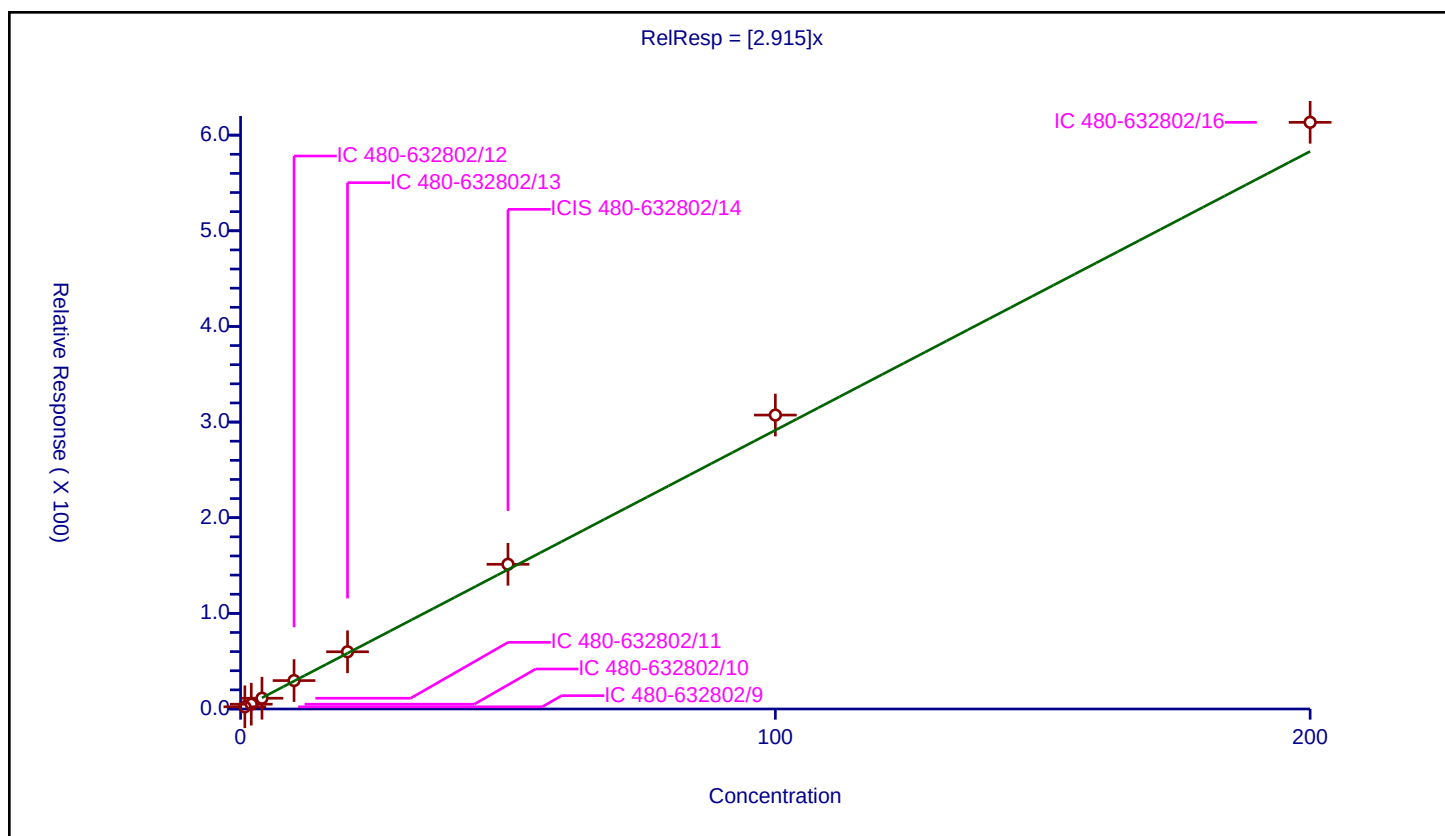
## Curve Coefficients

Intercept: 0  
Slope: 2.915

## Error Coefficients

Standard Error: 1690000  
Relative Standard Error: 6.5  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.8           | 2.299143   | 25.0      | 172673.0    | 2.873929 | Y    |
| 2  | IC 480-632802/10   | 2.0           | 5.004341   | 25.0      | 176237.0    | 2.50217  | Y    |
| 3  | IC 480-632802/11   | 4.0           | 11.258049  | 25.0      | 170991.0    | 2.814512 | Y    |
| 4  | IC 480-632802/12   | 10.0          | 29.718782  | 25.0      | 172624.0    | 2.971878 | Y    |
| 5  | IC 480-632802/13   | 20.0          | 59.823335  | 25.0      | 169105.0    | 2.991167 | Y    |
| 6  | ICIS 480-632802/14 | 50.0          | 151.289983 | 25.0      | 166727.0    | 3.0258   | Y    |
| 7  | IC 480-632802/15   | 100.0         | 307.326388 | 25.0      | 165426.0    | 3.073264 | Y    |
| 8  | IC 480-632802/16   | 200.0         | 613.400519 | 25.0      | 156035.0    | 3.067003 | Y    |



## Calibration

/ 2,2-Dichloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

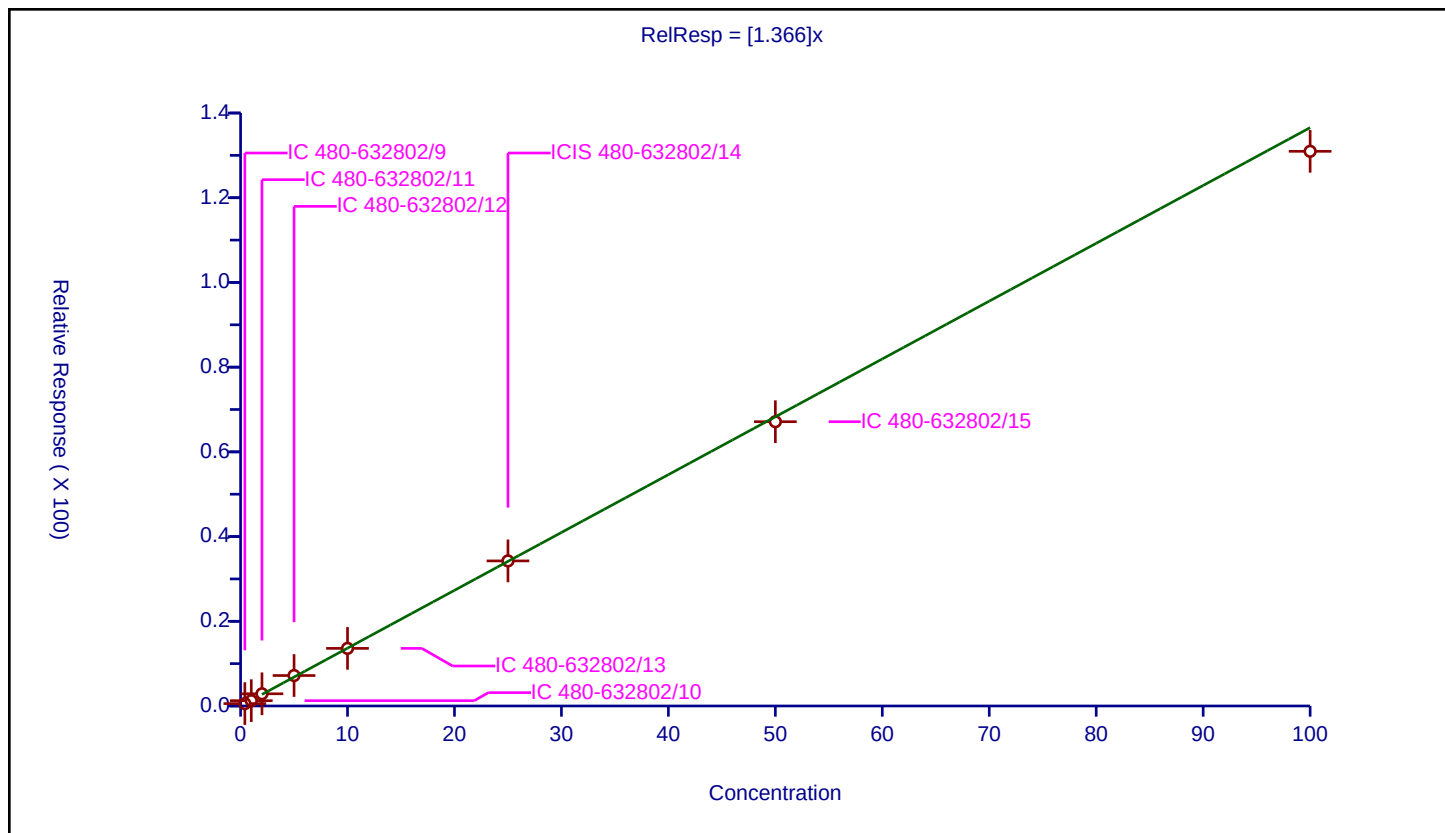
### Curve Coefficients

Intercept: 0  
 Slope: 1.366

### Error Coefficients

Standard Error: 364000  
 Relative Standard Error: 4.7  
 Correlation Coefficient: 0.998  
 Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.563782   | 25.0      | 172673.0    | 1.409456 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.254844   | 25.0      | 176237.0    | 1.254844 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.878222   | 25.0      | 170991.0    | 1.439111 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 7.190918   | 25.0      | 172624.0    | 1.438184 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 13.604861  | 25.0      | 169105.0    | 1.360486 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 34.252701  | 25.0      | 166727.0    | 1.370108 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 67.114903  | 25.0      | 165426.0    | 1.342298 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 130.960201 | 25.0      | 156035.0    | 1.309602 | Y    |



## Calibration

/ cis-1,2-Dichloroethene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

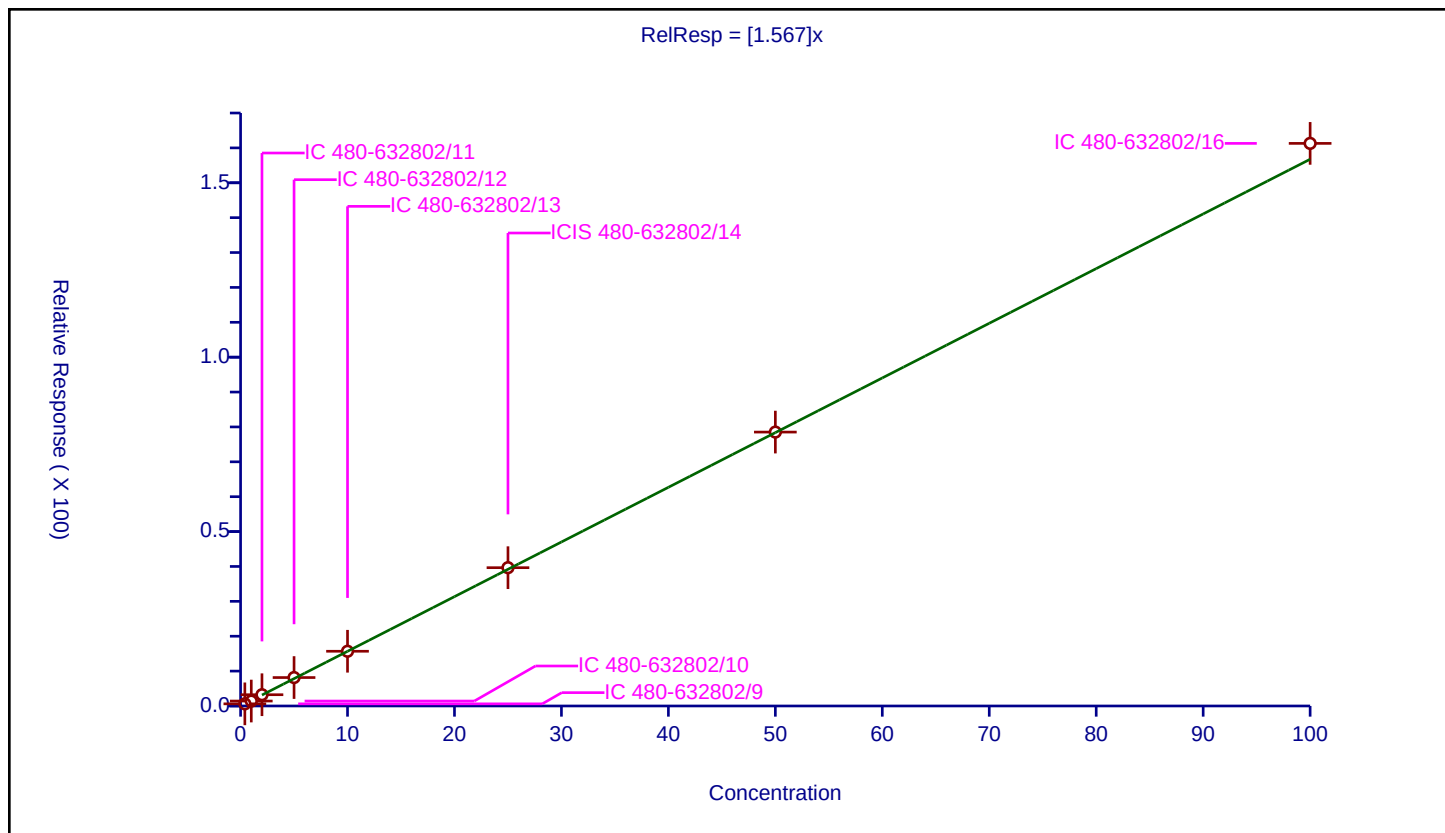
## Curve Coefficients

Intercept: 0  
Slope: 1.567

## Error Coefficients

Standard Error: 442000  
Relative Standard Error: 4.4  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.616338   | 25.0      | 172673.0    | 1.540846 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.414856   | 25.0      | 176237.0    | 1.414856 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.22824    | 25.0      | 170991.0    | 1.61412  | Y    |
| 4  | IC 480-632802/12   | 5.0           | 8.155876   | 25.0      | 172624.0    | 1.631175 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 15.688034  | 25.0      | 169105.0    | 1.568803 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 39.652246  | 25.0      | 166727.0    | 1.58609  | Y    |
| 7  | IC 480-632802/15   | 50.0          | 78.524537  | 25.0      | 165426.0    | 1.570491 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 161.290736 | 25.0      | 156035.0    | 1.612907 | Y    |



## Calibration

/ 2-Butanone (MEK)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

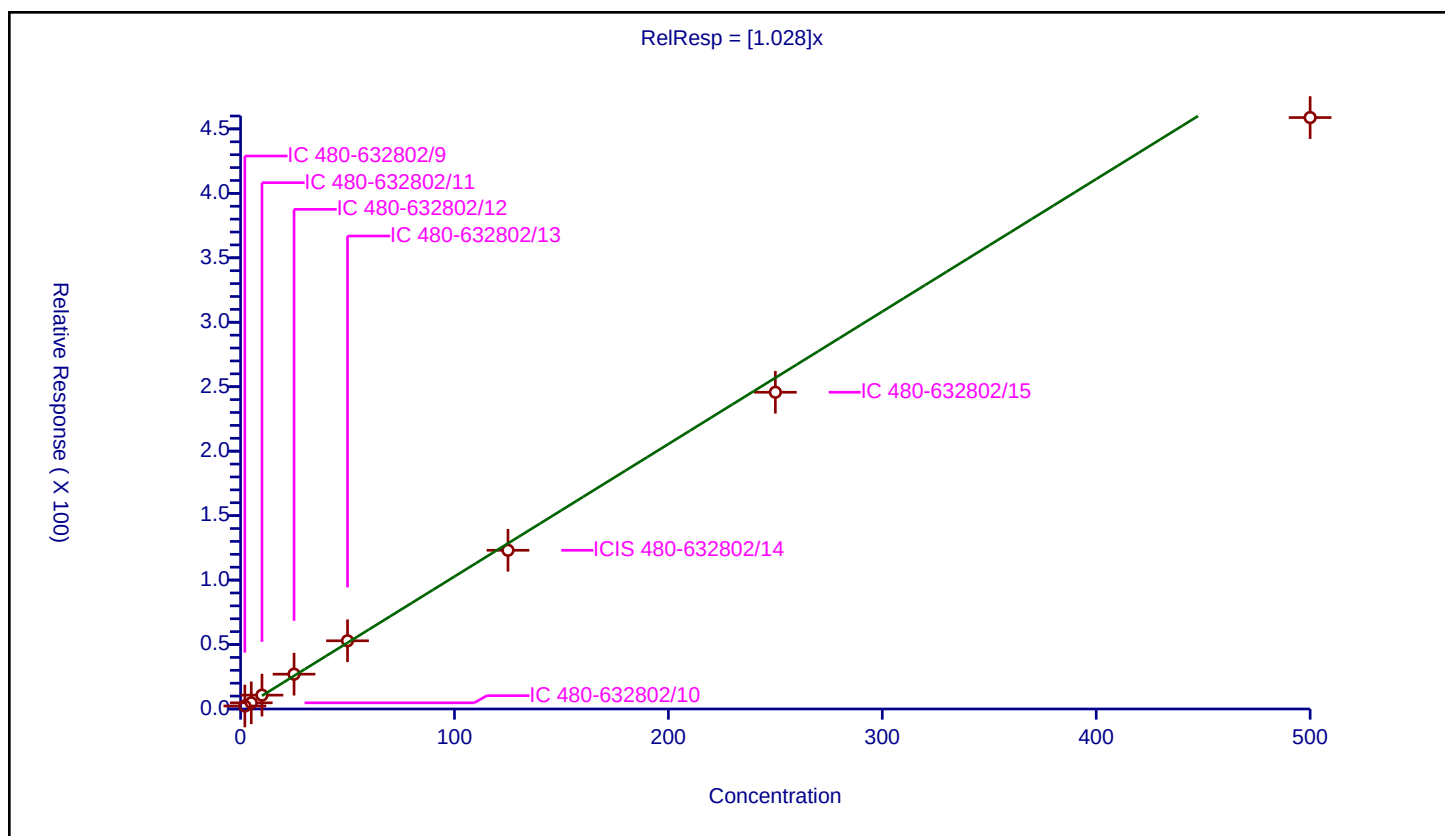
### Curve Coefficients

Intercept: 0  
 Slope: 1.028

### Error Coefficients

Standard Error: 1290000  
 Relative Standard Error: 7.9  
 Correlation Coefficient: 0.996  
 Coefficient of Determination (Adjusted): 0.991

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 2.0           | 2.334615   | 25.0      | 172673.0    | 1.167308 | Y    |
| 2  | IC 480-632802/10   | 5.0           | 4.782055   | 25.0      | 176237.0    | 0.956411 | Y    |
| 3  | IC 480-632802/11   | 10.0          | 10.74077   | 25.0      | 170991.0    | 1.074077 | Y    |
| 4  | IC 480-632802/12   | 25.0          | 26.998998  | 25.0      | 172624.0    | 1.07996  | Y    |
| 5  | IC 480-632802/13   | 50.0          | 52.908991  | 25.0      | 169105.0    | 1.05818  | Y    |
| 6  | ICIS 480-632802/14 | 125.0         | 123.124179 | 25.0      | 166727.0    | 0.984993 | Y    |
| 7  | IC 480-632802/15   | 250.0         | 245.696716 | 25.0      | 165426.0    | 0.982787 | Y    |
| 8  | IC 480-632802/16   | 500.0         | 458.80107  | 25.0      | 156035.0    | 0.917602 | Y    |



## Calibration

/ Chlorobromomethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

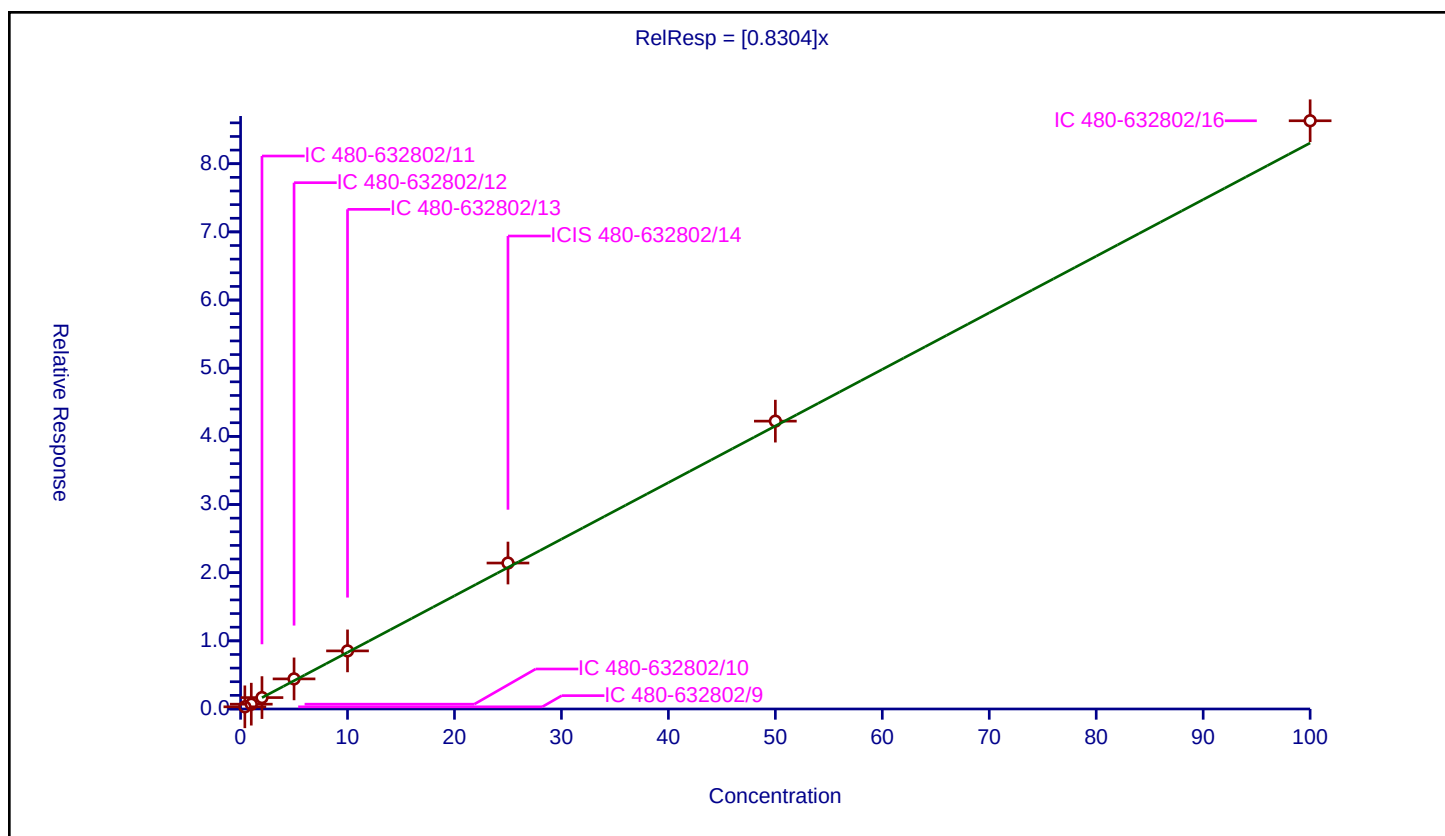
## Curve Coefficients

Intercept: 0  
Slope: 0.8304

## Error Coefficients

Standard Error: 237000  
Relative Standard Error: 6.7  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.319679   | 25.0      | 172673.0    | 0.799198 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.706861   | 25.0      | 176237.0    | 0.706861 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 1.674357   | 25.0      | 170991.0    | 0.837179 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 4.417115   | 25.0      | 172624.0    | 0.883423 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 8.522516   | 25.0      | 169105.0    | 0.852252 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 21.416147  | 25.0      | 166727.0    | 0.856646 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 42.235199  | 25.0      | 165426.0    | 0.844704 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 86.303073  | 25.0      | 156035.0    | 0.863031 | Y    |



## Calibration

/ Tetrahydrofuran

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

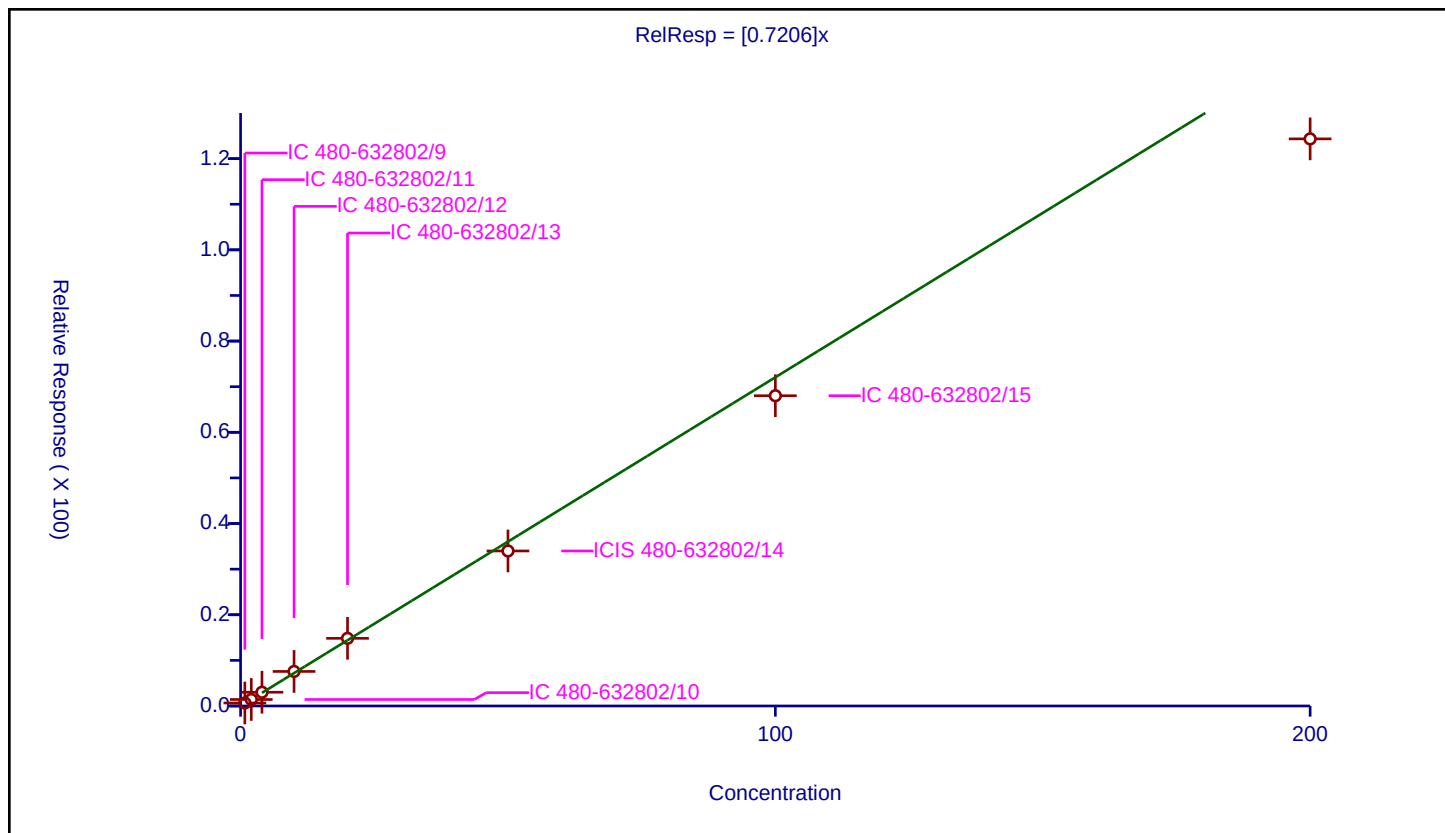
## Curve Coefficients

Intercept: 0  
Slope: 0.7206

## Error Coefficients

Standard Error: 352000  
Relative Standard Error: 8.4  
Correlation Coefficient: 0.994  
Coefficient of Determination (Adjusted): 0.990

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.8           | 0.655719   | 25.0      | 172673.0    | 0.819649 | Y    |
| 2  | IC 480-632802/10   | 2.0           | 1.422516   | 25.0      | 176237.0    | 0.711258 | Y    |
| 3  | IC 480-632802/11   | 4.0           | 3.013463   | 25.0      | 170991.0    | 0.753366 | Y    |
| 4  | IC 480-632802/12   | 10.0          | 7.572817   | 25.0      | 172624.0    | 0.757282 | Y    |
| 5  | IC 480-632802/13   | 20.0          | 14.836788  | 25.0      | 169105.0    | 0.741839 | Y    |
| 6  | ICIS 480-632802/14 | 50.0          | 33.988946  | 25.0      | 166727.0    | 0.679779 | Y    |
| 7  | IC 480-632802/15   | 100.0         | 68.018177  | 25.0      | 165426.0    | 0.680182 | Y    |
| 8  | IC 480-632802/16   | 200.0         | 124.328836 | 25.0      | 156035.0    | 0.621644 | Y    |



# Calibration

/ Chloroform

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

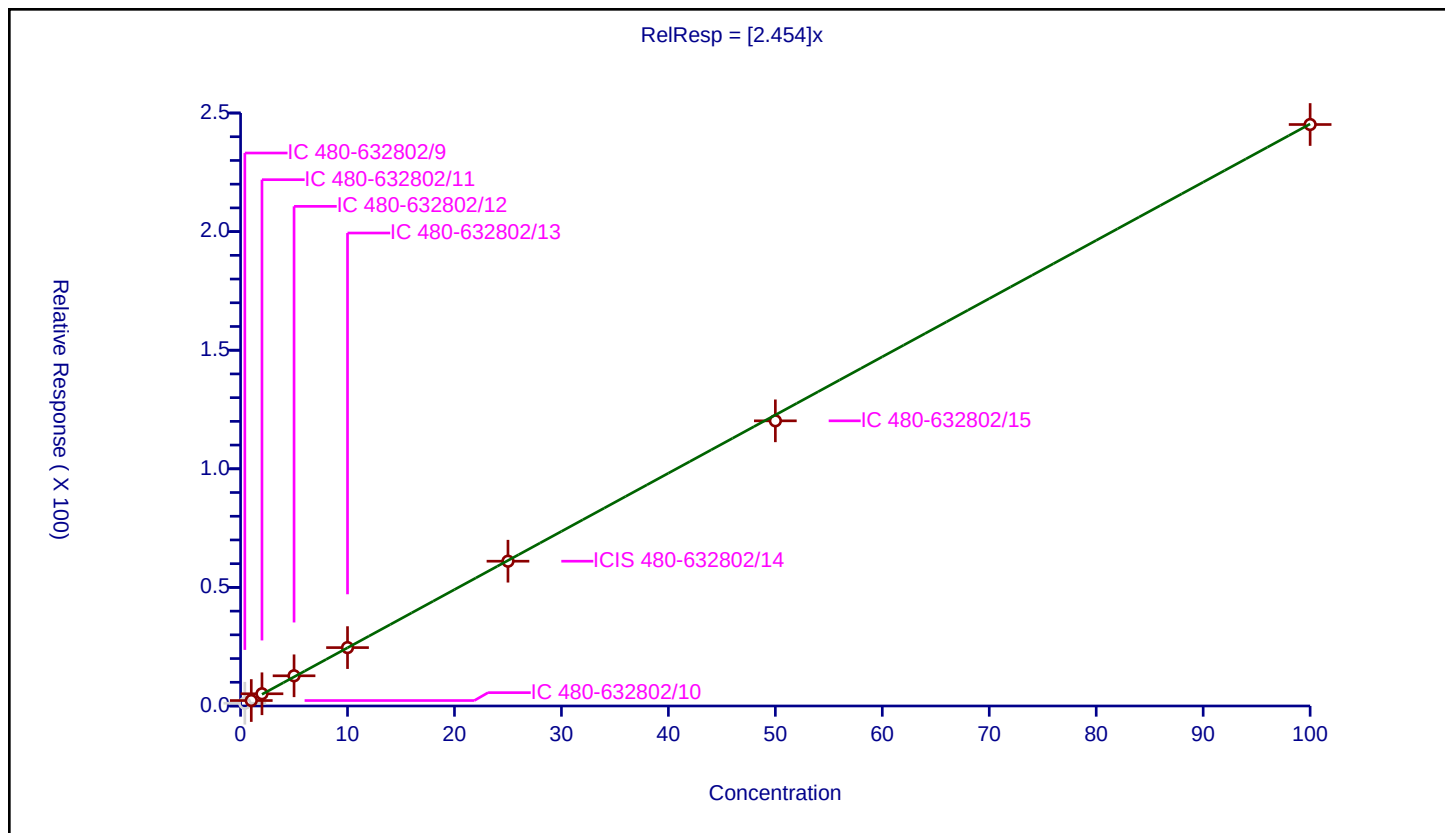
## Curve Coefficients

Intercept: 0  
 Slope: 2.454

## Error Coefficients

Standard Error: 728000  
 Relative Standard Error: 3.8  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 1.162023   | 25.0      | 172673.0    | 2.905058 | N    |
| 2  | IC 480-632802/10   | 1.0           | 2.295347   | 25.0      | 176237.0    | 2.295347 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 5.151587   | 25.0      | 170991.0    | 2.575793 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 12.731138  | 25.0      | 172624.0    | 2.546228 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 24.612371  | 25.0      | 169105.0    | 2.461237 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 61.047851  | 25.0      | 166727.0    | 2.441914 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 120.21901  | 25.0      | 165426.0    | 2.40438  | Y    |
| 8  | IC 480-632802/16   | 100.0         | 245.149646 | 25.0      | 156035.0    | 2.451496 | Y    |





# Calibration

/ 1,1,1-Trichloroethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

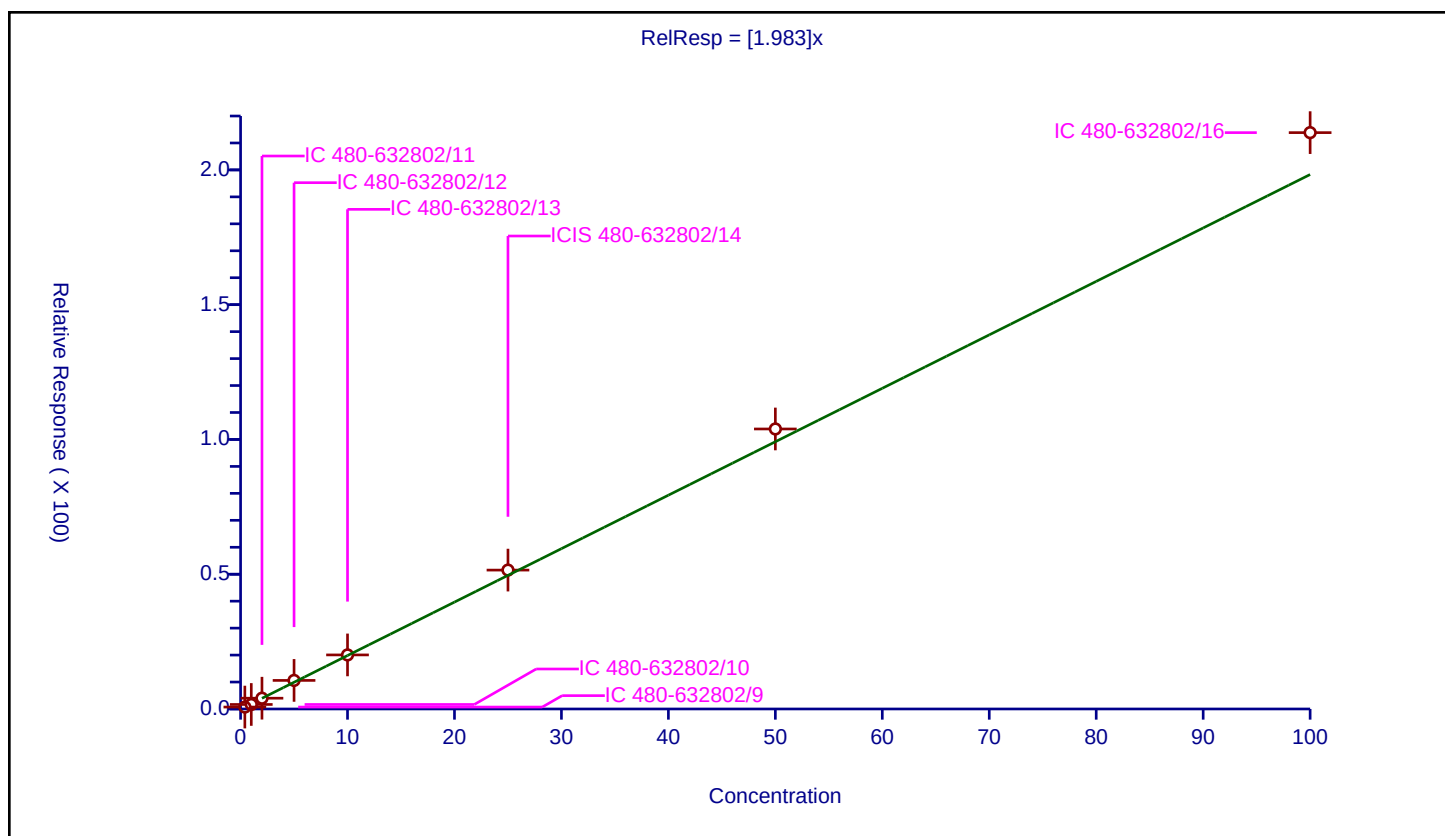
## Curve Coefficients

Intercept: 0  
Slope: 1.983

## Error Coefficients

Standard Error: 585000  
Relative Standard Error: 8.4  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.992

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.715225   | 25.0      | 172673.0    | 1.788062 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.673599   | 25.0      | 176237.0    | 1.673599 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.997433   | 25.0      | 170991.0    | 1.998716 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 10.601799  | 25.0      | 172624.0    | 2.12036  | Y    |
| 5  | IC 480-632802/13   | 10.0          | 20.054552  | 25.0      | 169105.0    | 2.005455 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 51.531546  | 25.0      | 166727.0    | 2.061262 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 103.890712 | 25.0      | 165426.0    | 2.077814 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 213.833915 | 25.0      | 156035.0    | 2.138339 | Y    |



## Calibration

/ Cyclohexane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

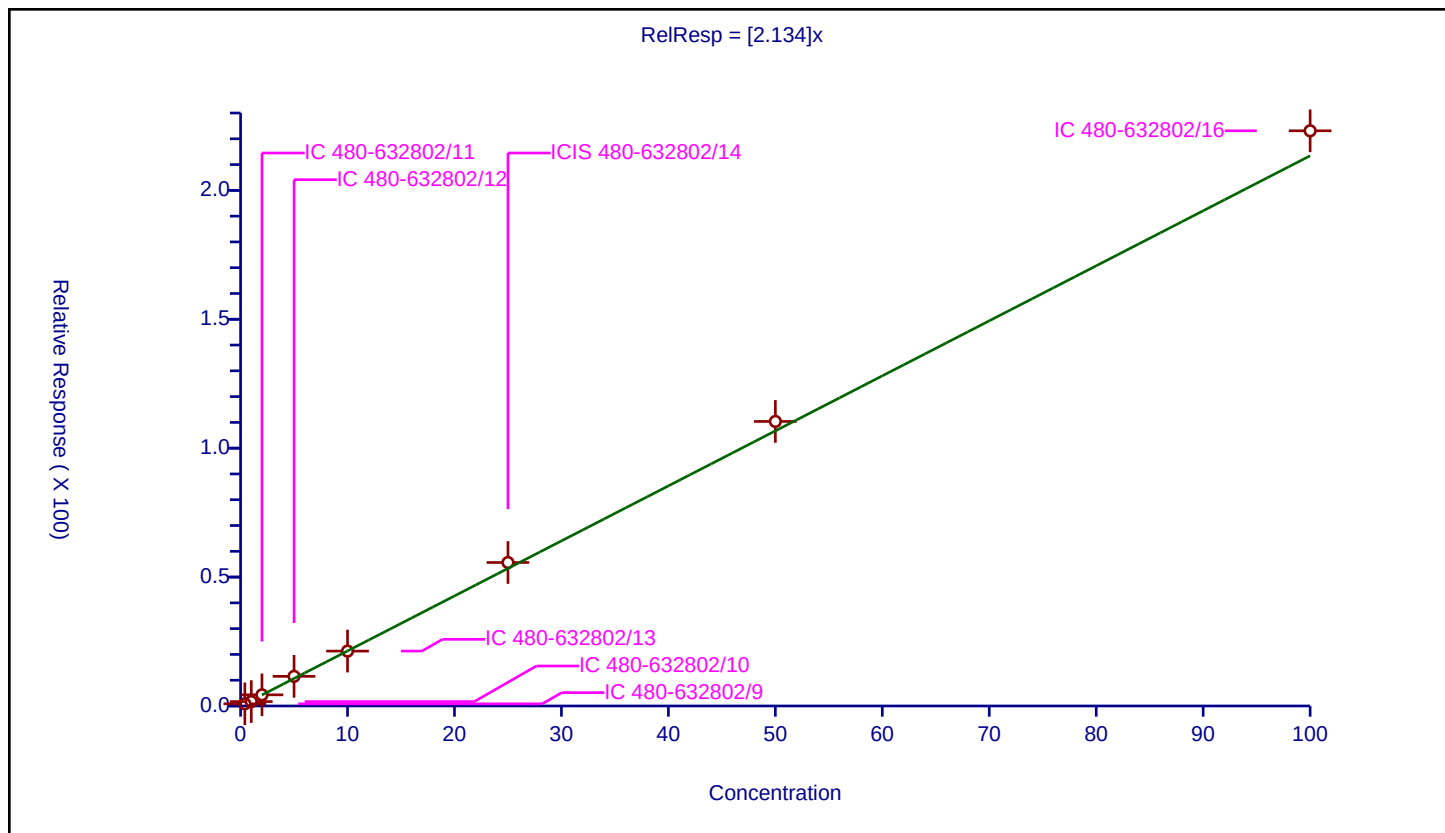
## Curve Coefficients

Intercept: 0  
Slope: 2.134

## Error Coefficients

Standard Error: 614000  
Relative Standard Error: 8.5  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.991

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.842923   | 25.0      | 172673.0    | 2.107307 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.712041   | 25.0      | 176237.0    | 1.712041 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 4.32435    | 25.0      | 170991.0    | 2.162175 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 11.493622  | 25.0      | 172624.0    | 2.298724 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 21.289731  | 25.0      | 169105.0    | 2.128973 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 55.649055  | 25.0      | 166727.0    | 2.225962 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 110.364    | 25.0      | 165426.0    | 2.20728  | Y    |
| 8  | IC 480-632802/16   | 100.0         | 223.105553 | 25.0      | 156035.0    | 2.231056 | Y    |



# Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

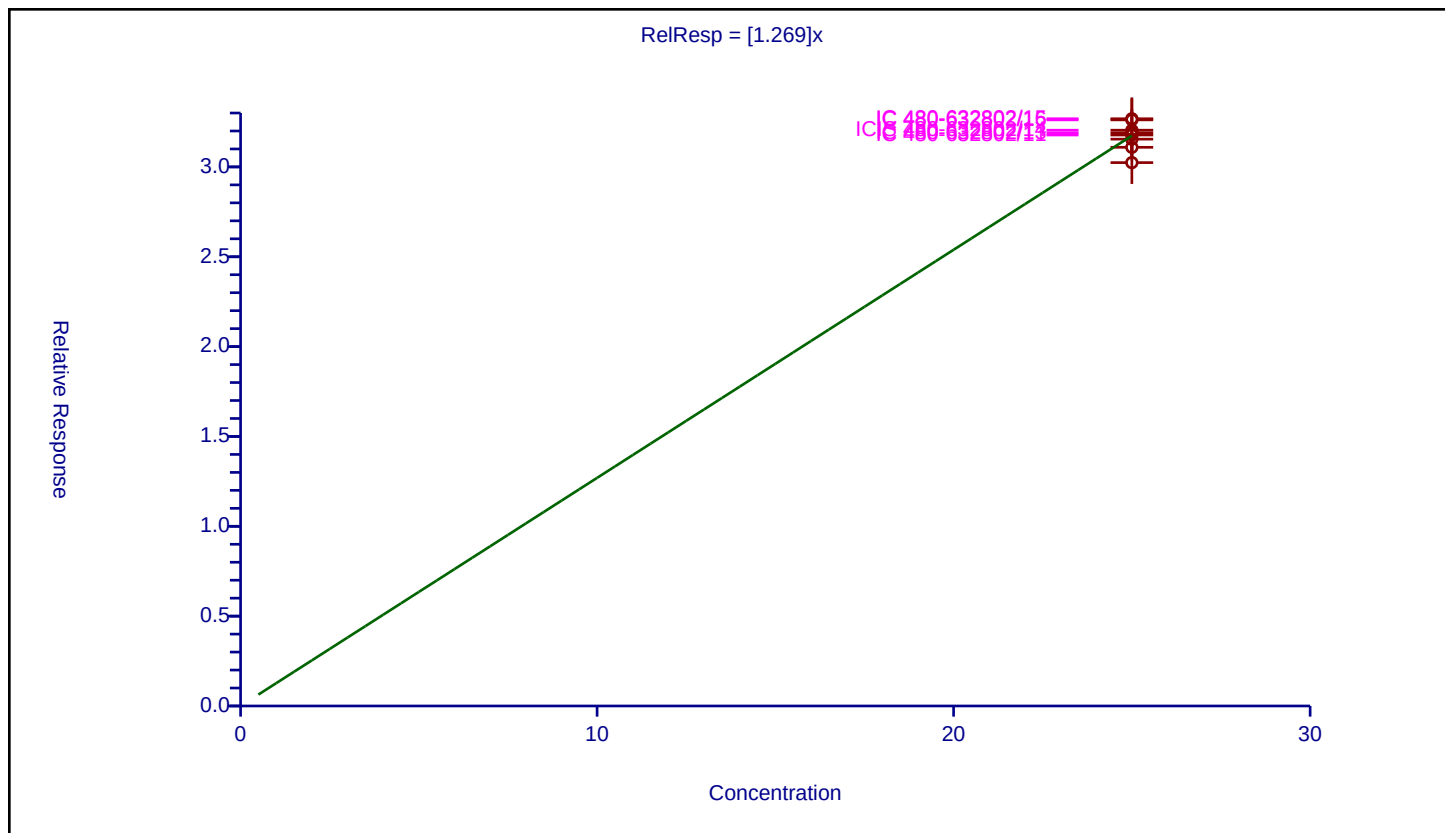
## Curve Coefficients

Intercept: 0  
 Slope: 1.269

## Error Coefficients

Standard Error: 229000  
 Relative Standard Error: 2.5  
 Correlation Coefficient: NA  
 Coefficient of Determination (Adjusted): 0

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 25.0          | 30.239383  | 25.0      | 172673.0    | 1.209575 | Y    |
| 2  | IC 480-632802/10   | 25.0          | 31.545164  | 25.0      | 176237.0    | 1.261807 | Y    |
| 3  | IC 480-632802/11   | 25.0          | 31.775064  | 25.0      | 170991.0    | 1.271003 | Y    |
| 4  | IC 480-632802/12   | 25.0          | 31.091129  | 25.0      | 172624.0    | 1.243645 | Y    |
| 5  | IC 480-632802/13   | 25.0          | 31.895568  | 25.0      | 169105.0    | 1.275823 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 32.0449    | 25.0      | 166727.0    | 1.281796 | Y    |
| 7  | IC 480-632802/15   | 25.0          | 32.680171  | 25.0      | 165426.0    | 1.307207 | Y    |
| 8  | IC 480-632802/16   | 25.0          | 32.619124  | 25.0      | 156035.0    | 1.304765 | Y    |



# Calibration

/ Carbon tetrachloride

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

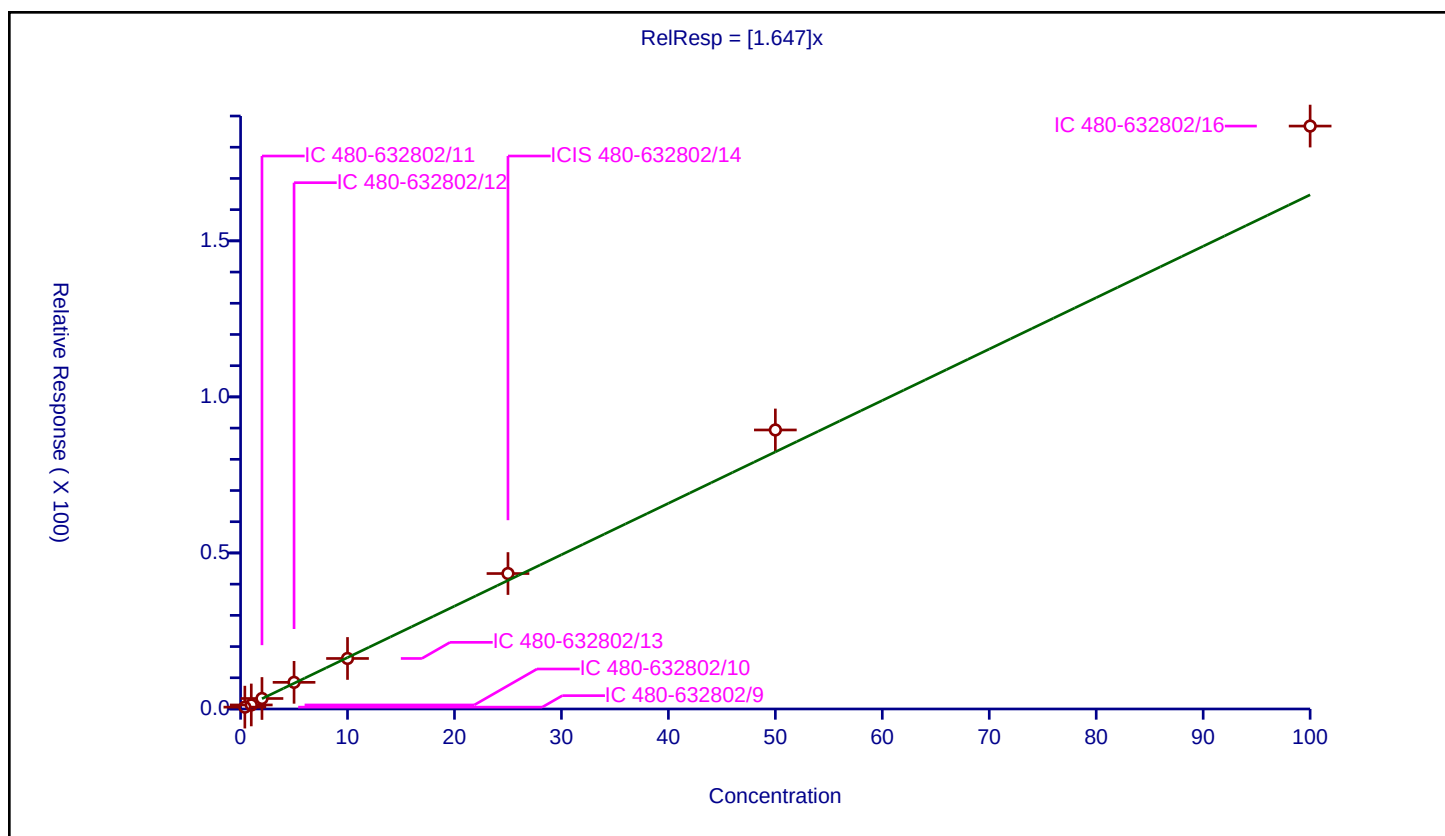
## Curve Coefficients

Intercept: 0  
 Slope: 1.647

## Error Coefficients

Standard Error: 508000  
 Relative Standard Error: 11.1  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.986

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.593608   | 25.0      | 172673.0    | 1.484019 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.294705   | 25.0      | 176237.0    | 1.294705 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.363627   | 25.0      | 170991.0    | 1.681814 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 8.543424   | 25.0      | 172624.0    | 1.708685 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 16.185802  | 25.0      | 169105.0    | 1.61858  | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 43.404188  | 25.0      | 166727.0    | 1.736168 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 89.401606  | 25.0      | 165426.0    | 1.788032 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 186.775243 | 25.0      | 156035.0    | 1.867752 | Y    |



# Calibration

/ 1,1-Dichloropropene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

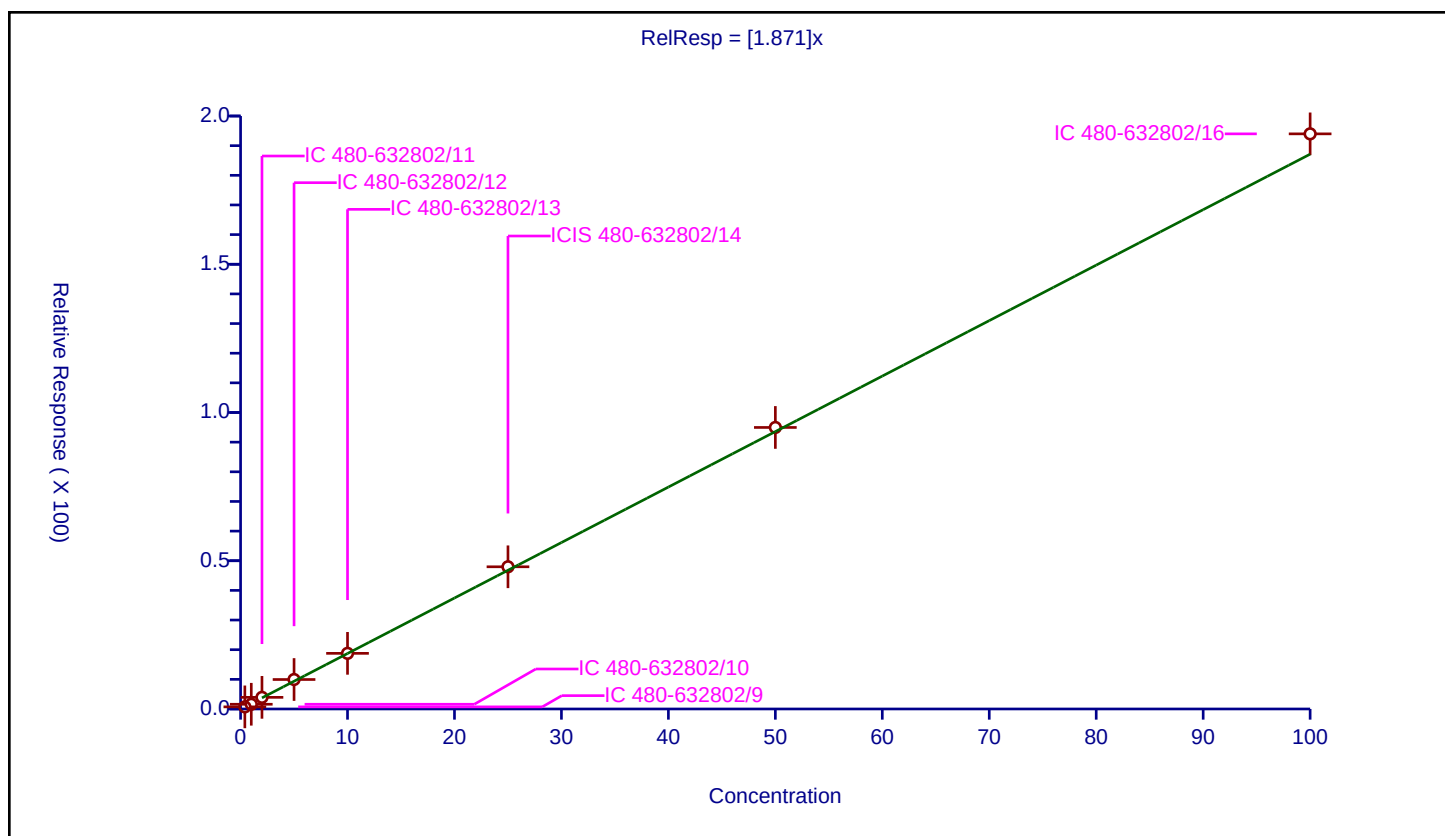
## Curve Coefficients

Intercept: 0  
 Slope: 1.871

## Error Coefficients

Standard Error: 532000  
 Relative Standard Error: 6.8  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.71508    | 25.0      | 172673.0    | 1.7877   | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.597281   | 25.0      | 176237.0    | 1.597281 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.924622   | 25.0      | 170991.0    | 1.962311 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 9.943577   | 25.0      | 172624.0    | 1.988715 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 18.768812  | 25.0      | 169105.0    | 1.876881 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 47.958189  | 25.0      | 166727.0    | 1.918328 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 94.952879  | 25.0      | 165426.0    | 1.899058 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 193.985324 | 25.0      | 156035.0    | 1.939853 | Y    |



## Calibration

/ Isobutyl alcohol

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

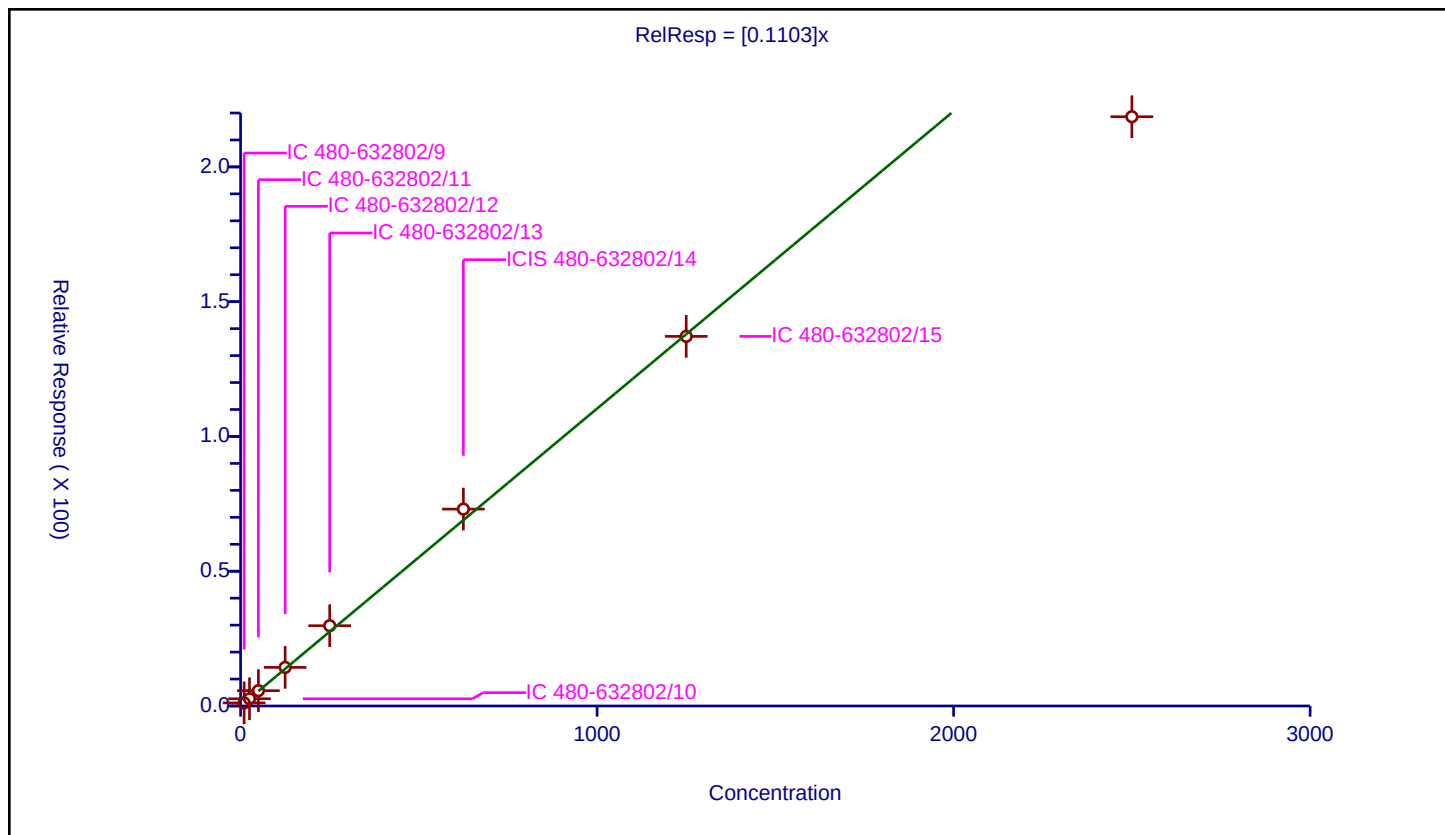
### Curve Coefficients

Intercept: 0  
 Slope: 0.1103

### Error Coefficients

Standard Error: 652000  
 Relative Standard Error: 9.1  
 Correlation Coefficient: 0.974  
 Coefficient of Determination (Adjusted): 0.989

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 10.0          | 1.142912   | 25.0      | 172673.0    | 0.114291 | Y    |
| 2  | IC 480-632802/10   | 25.0          | 2.67424    | 25.0      | 176237.0    | 0.10697  | Y    |
| 3  | IC 480-632802/11   | 50.0          | 5.687434   | 25.0      | 170991.0    | 0.113749 | Y    |
| 4  | IC 480-632802/12   | 125.0         | 14.320431  | 25.0      | 172624.0    | 0.114563 | Y    |
| 5  | IC 480-632802/13   | 250.0         | 29.783123  | 25.0      | 169105.0    | 0.119132 | Y    |
| 6  | ICIS 480-632802/14 | 625.0         | 73.045308  | 25.0      | 166727.0    | 0.116872 | Y    |
| 7  | IC 480-632802/15   | 1250.0        | 137.134278 | 25.0      | 165426.0    | 0.109707 | Y    |
| 8  | IC 480-632802/16   | 2500.0        | 218.620342 | 25.0      | 156035.0    | 0.087448 | Y    |



# Calibration

/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

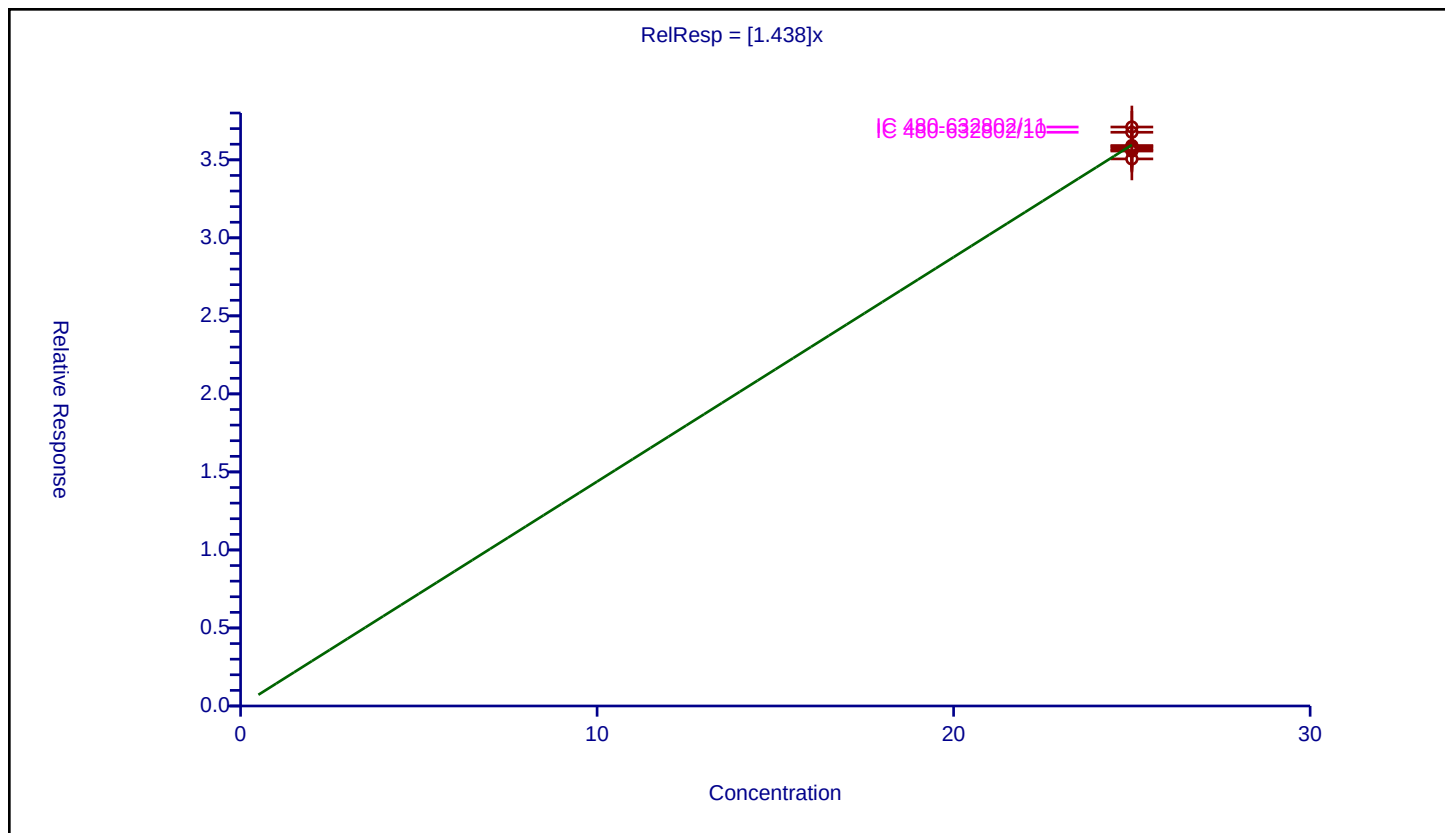
## Curve Coefficients

Intercept: 0  
Slope: 1.438

## Error Coefficients

Standard Error: 260000  
Relative Standard Error: 1.8  
Correlation Coefficient: 0  
Coefficient of Determination (Adjusted): 0

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 25.0          | 35.562595  | 25.0      | 172673.0    | 1.422504 | Y    |
| 2  | IC 480-632802/10   | 25.0          | 36.766116  | 25.0      | 176237.0    | 1.470645 | Y    |
| 3  | IC 480-632802/11   | 25.0          | 37.103415  | 25.0      | 170991.0    | 1.484137 | Y    |
| 4  | IC 480-632802/12   | 25.0          | 35.629461  | 25.0      | 172624.0    | 1.425178 | Y    |
| 5  | IC 480-632802/13   | 25.0          | 35.916147  | 25.0      | 169105.0    | 1.436646 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 35.858319  | 25.0      | 166727.0    | 1.434333 | Y    |
| 7  | IC 480-632802/15   | 25.0          | 35.739545  | 25.0      | 165426.0    | 1.429582 | Y    |
| 8  | IC 480-632802/16   | 25.0          | 35.058961  | 25.0      | 156035.0    | 1.402358 | Y    |



## Calibration

/ Benzene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

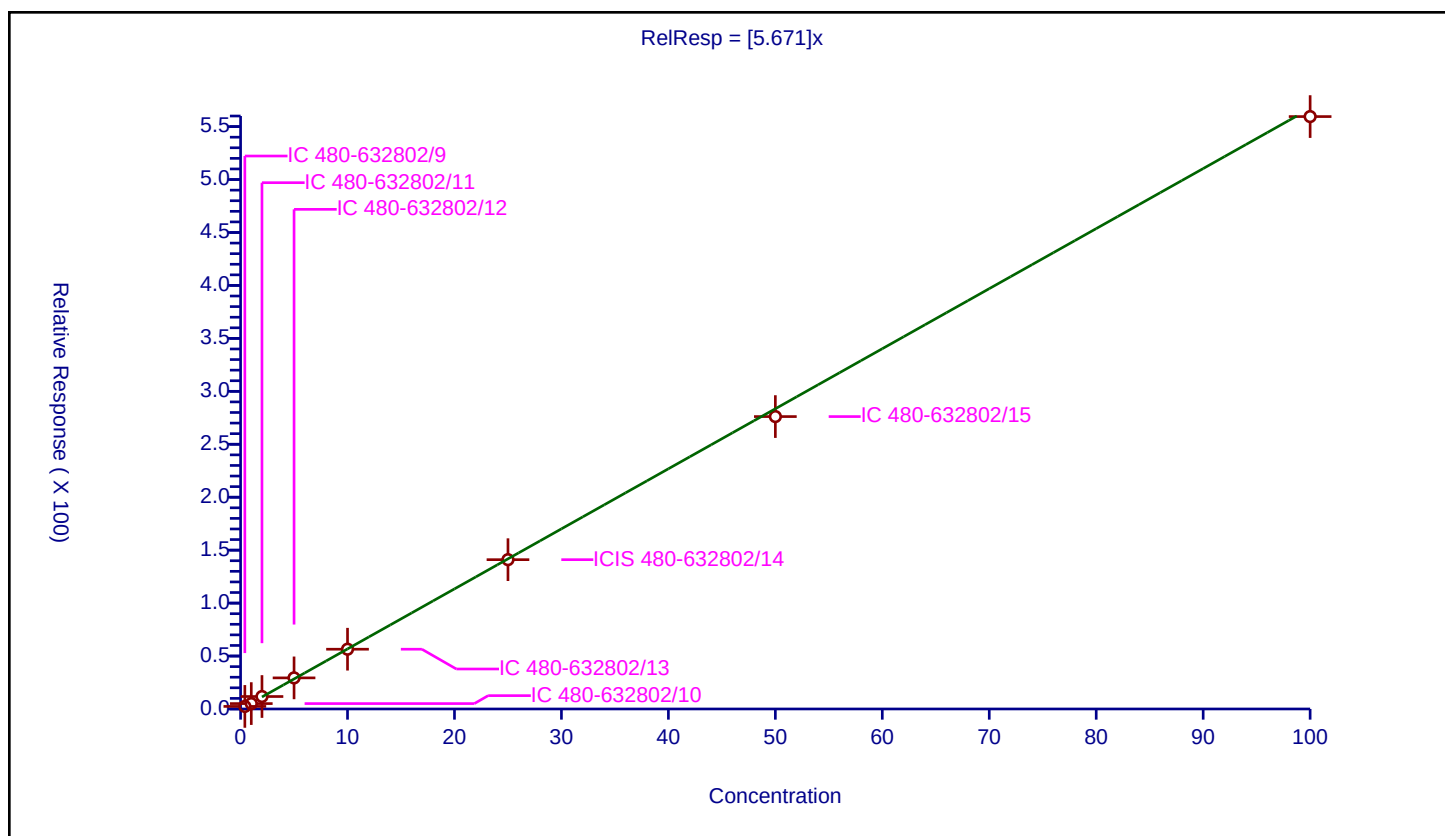
## Curve Coefficients

Intercept: 0  
Slope: 5.671

## Error Coefficients

Standard Error: 1540000  
Relative Standard Error: 5.2  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 2.4377     | 25.0      | 172673.0    | 6.09425  | Y    |
| 2  | IC 480-632802/10   | 1.0           | 5.105057   | 25.0      | 176237.0    | 5.105057 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 11.77752   | 25.0      | 170991.0    | 5.88876  | Y    |
| 4  | IC 480-632802/12   | 5.0           | 29.378881  | 25.0      | 172624.0    | 5.875776 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 56.444221  | 25.0      | 169105.0    | 5.644422 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 141.007905 | 25.0      | 166727.0    | 5.640316 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 276.14326  | 25.0      | 165426.0    | 5.522865 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 559.470151 | 25.0      | 156035.0    | 5.594702 | Y    |





# Calibration

/ 1,2-Dichloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

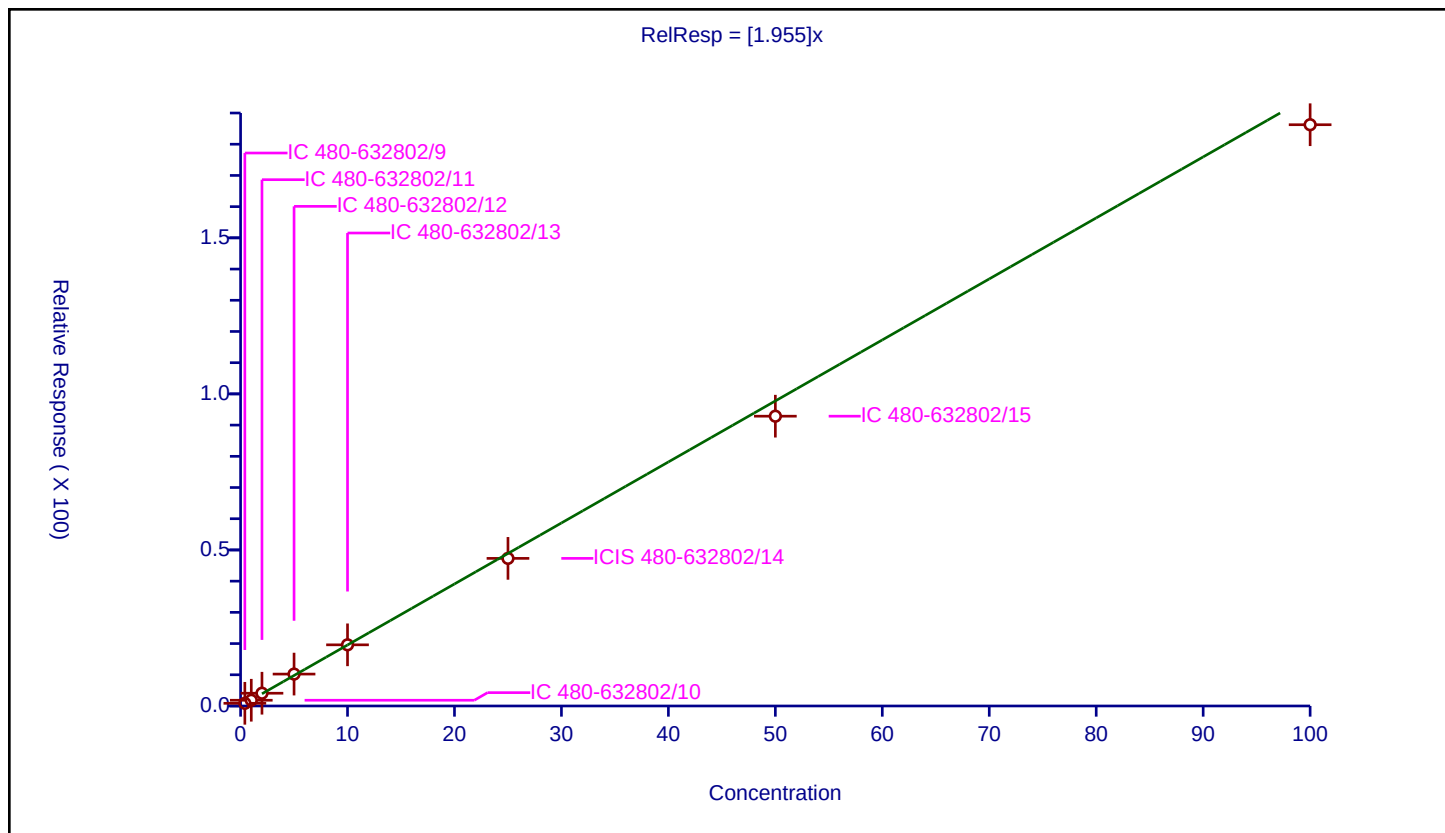
## Curve Coefficients

Intercept: 0  
 Slope: 1.955

## Error Coefficients

Standard Error: 514000  
 Relative Standard Error: 5.7  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.855664   | 25.0      | 172673.0    | 2.139159 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.837866   | 25.0      | 176237.0    | 1.837866 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 4.091882   | 25.0      | 170991.0    | 2.045941 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 10.220334  | 25.0      | 172624.0    | 2.044067 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 19.59877   | 25.0      | 169105.0    | 1.959877 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 47.301127  | 25.0      | 166727.0    | 1.892045 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 92.854358  | 25.0      | 165426.0    | 1.857087 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 186.248117 | 25.0      | 156035.0    | 1.862481 | Y    |



# Calibration

/ n-Heptane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

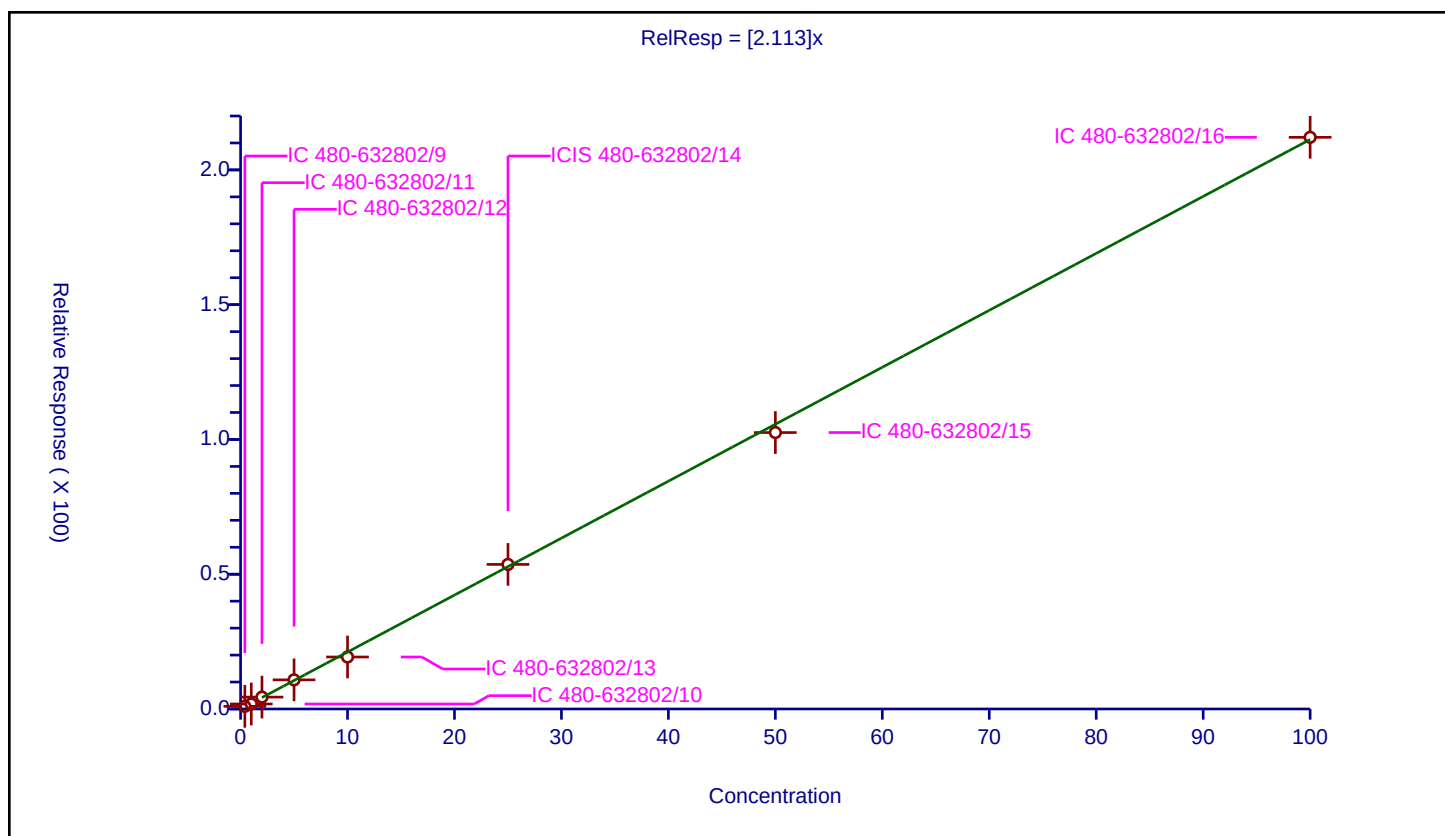
## Curve Coefficients

Intercept: 0  
 Slope: 2.113

## Error Coefficients

Standard Error: 581000  
 Relative Standard Error: 8.4  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.990

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.975399   | 25.0      | 172673.0    | 2.438496 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.853754   | 25.0      | 176237.0    | 1.853754 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 4.408273   | 25.0      | 170991.0    | 2.204136 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 10.807304  | 25.0      | 172624.0    | 2.161461 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 19.282694  | 25.0      | 169105.0    | 1.928269 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 53.634384  | 25.0      | 166727.0    | 2.145375 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 102.563533 | 25.0      | 165426.0    | 2.051271 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 212.097286 | 25.0      | 156035.0    | 2.120973 | Y    |



# Calibration

/ Trichloroethene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

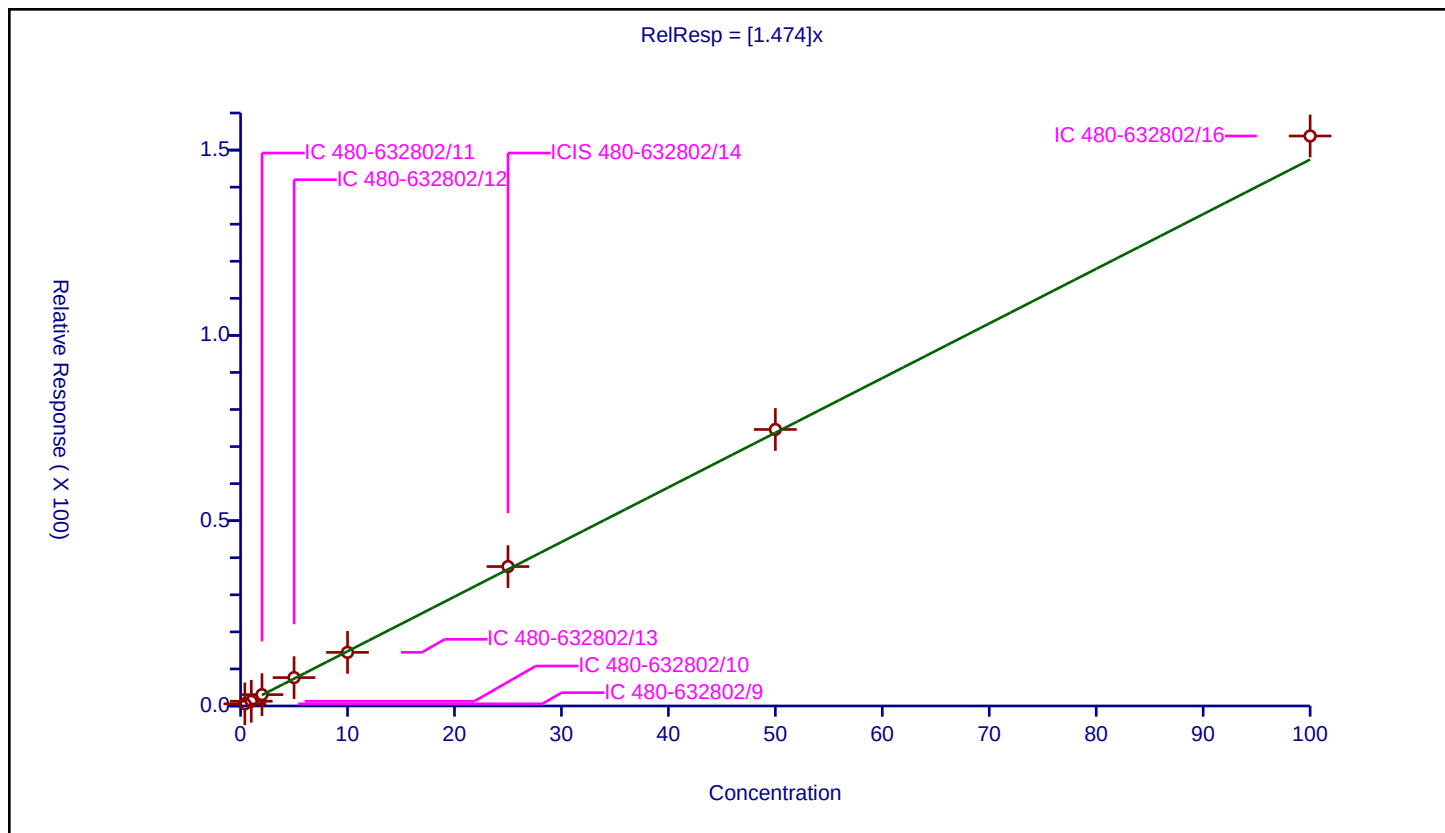
## Curve Coefficients

Intercept: 0  
 Slope: 1.474

## Error Coefficients

Standard Error: 421000  
 Relative Standard Error: 5.9  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.589409   | 25.0      | 172673.0    | 1.473522 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.275697   | 25.0      | 176237.0    | 1.275697 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.064927   | 25.0      | 170991.0    | 1.532464 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 7.662608   | 25.0      | 172624.0    | 1.532522 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 14.464682  | 25.0      | 169105.0    | 1.446468 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 37.618082  | 25.0      | 166727.0    | 1.504723 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 74.611155  | 25.0      | 165426.0    | 1.492223 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 153.799308 | 25.0      | 156035.0    | 1.537993 | Y    |



# Calibration

/ Methylcyclohexane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

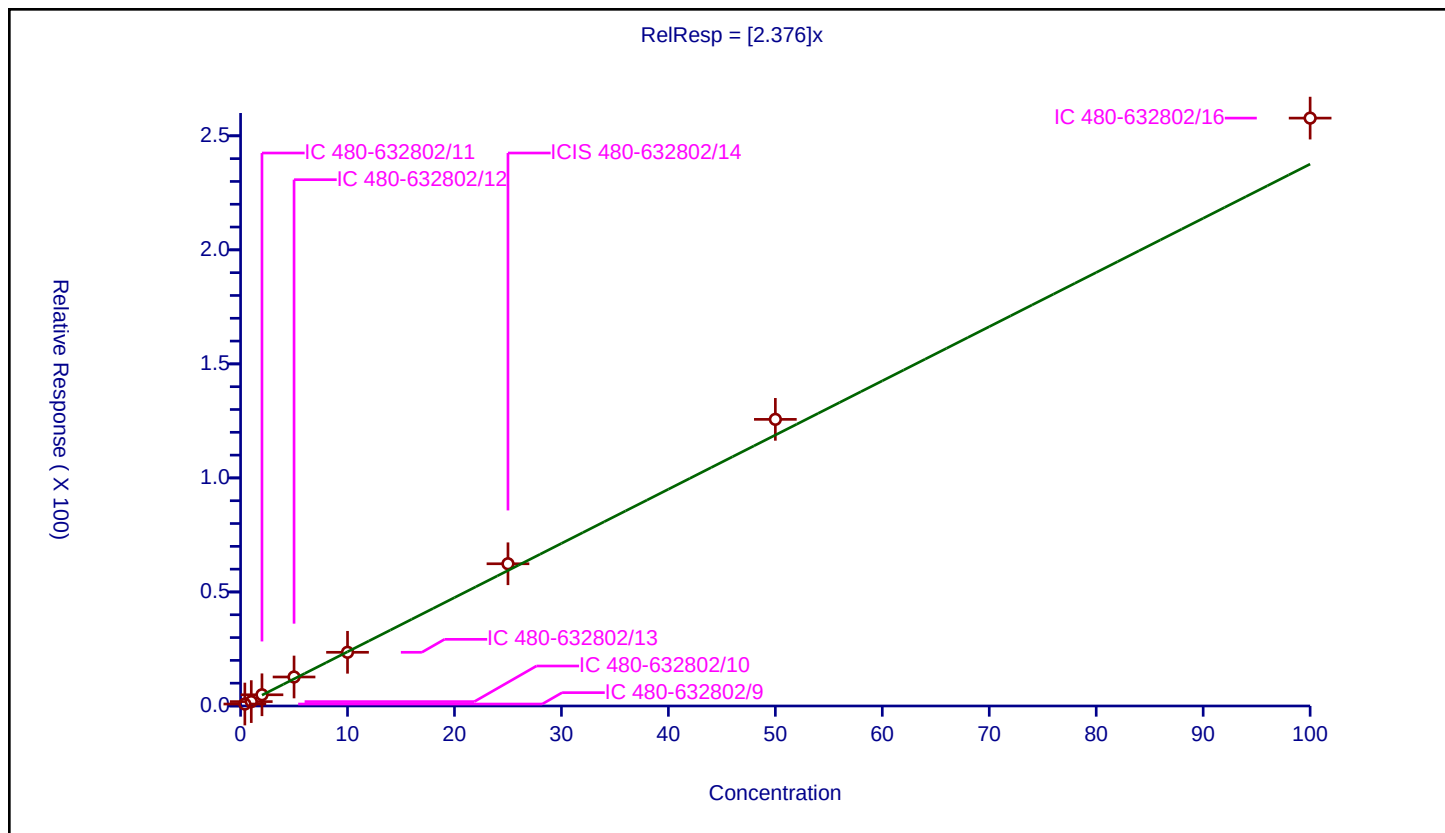
## Curve Coefficients

Intercept: 0  
 Slope: 2.376

## Error Coefficients

Standard Error: 706000  
 Relative Standard Error: 9.7  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.989

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.858559   | 25.0      | 172673.0    | 2.146398 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.92       | 25.0      | 176237.0    | 1.92     | Y    |
| 3  | IC 480-632802/11   | 2.0           | 4.918972   | 25.0      | 170991.0    | 2.459486 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 12.711442  | 25.0      | 172624.0    | 2.542288 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 23.542178  | 25.0      | 169105.0    | 2.354218 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 62.359576  | 25.0      | 166727.0    | 2.494383 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 125.676889 | 25.0      | 165426.0    | 2.513538 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 257.765405 | 25.0      | 156035.0    | 2.577654 | Y    |



# Calibration

/ 1,2-Dichloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

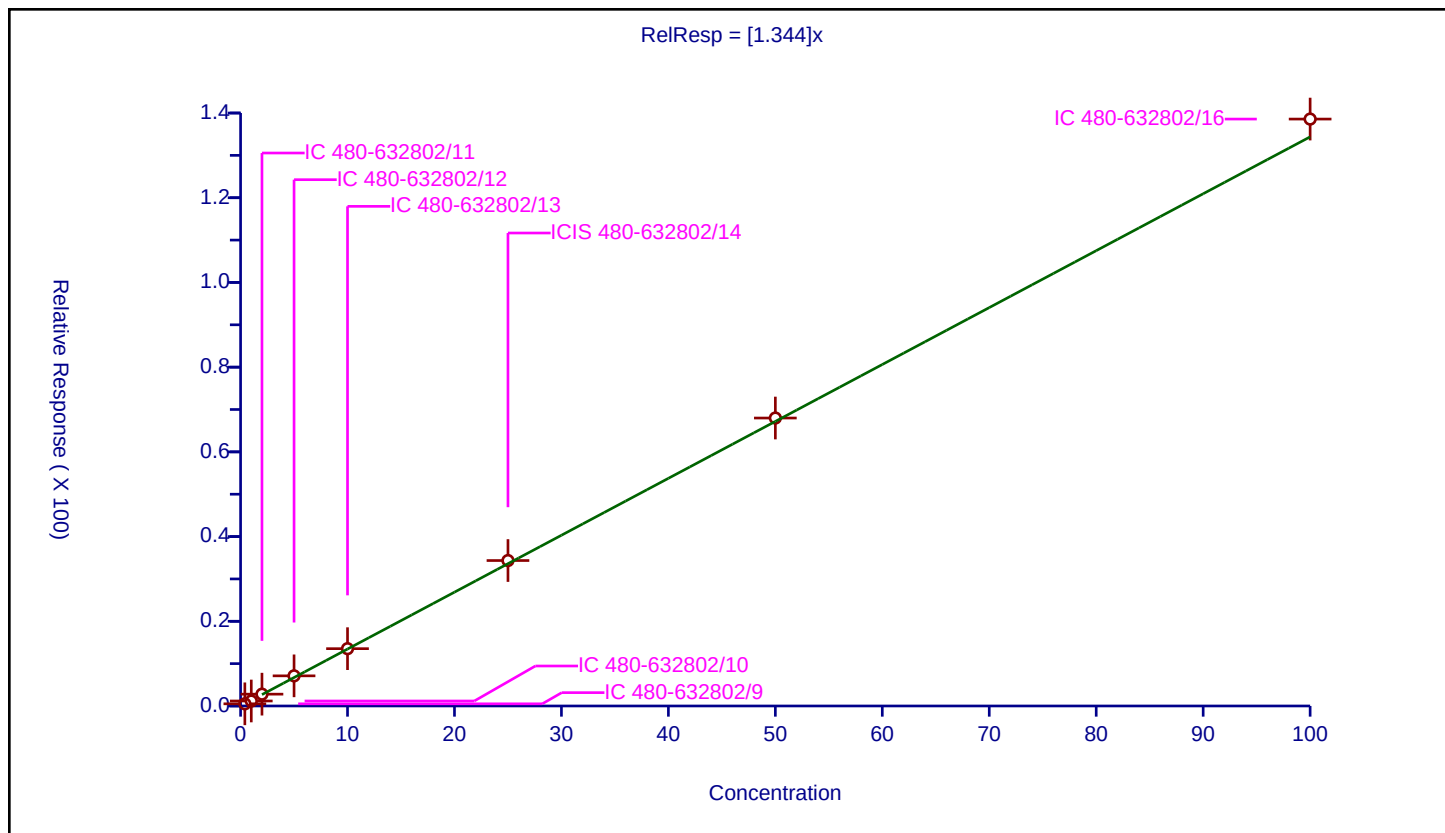
## Curve Coefficients

Intercept: 0  
 Slope: 1.344

## Error Coefficients

Standard Error: 381000  
 Relative Standard Error: 5.9  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.511226   | 25.0      | 172673.0    | 1.278066 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.17952    | 25.0      | 176237.0    | 1.17952  | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.794007   | 25.0      | 170991.0    | 1.397003 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 7.11503    | 25.0      | 172624.0    | 1.423006 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 13.532273  | 25.0      | 169105.0    | 1.353227 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 34.339219  | 25.0      | 166727.0    | 1.373569 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 67.988103  | 25.0      | 165426.0    | 1.359762 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 138.570193 | 25.0      | 156035.0    | 1.385702 | Y    |



# Calibration

/ 1,4-Dioxane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

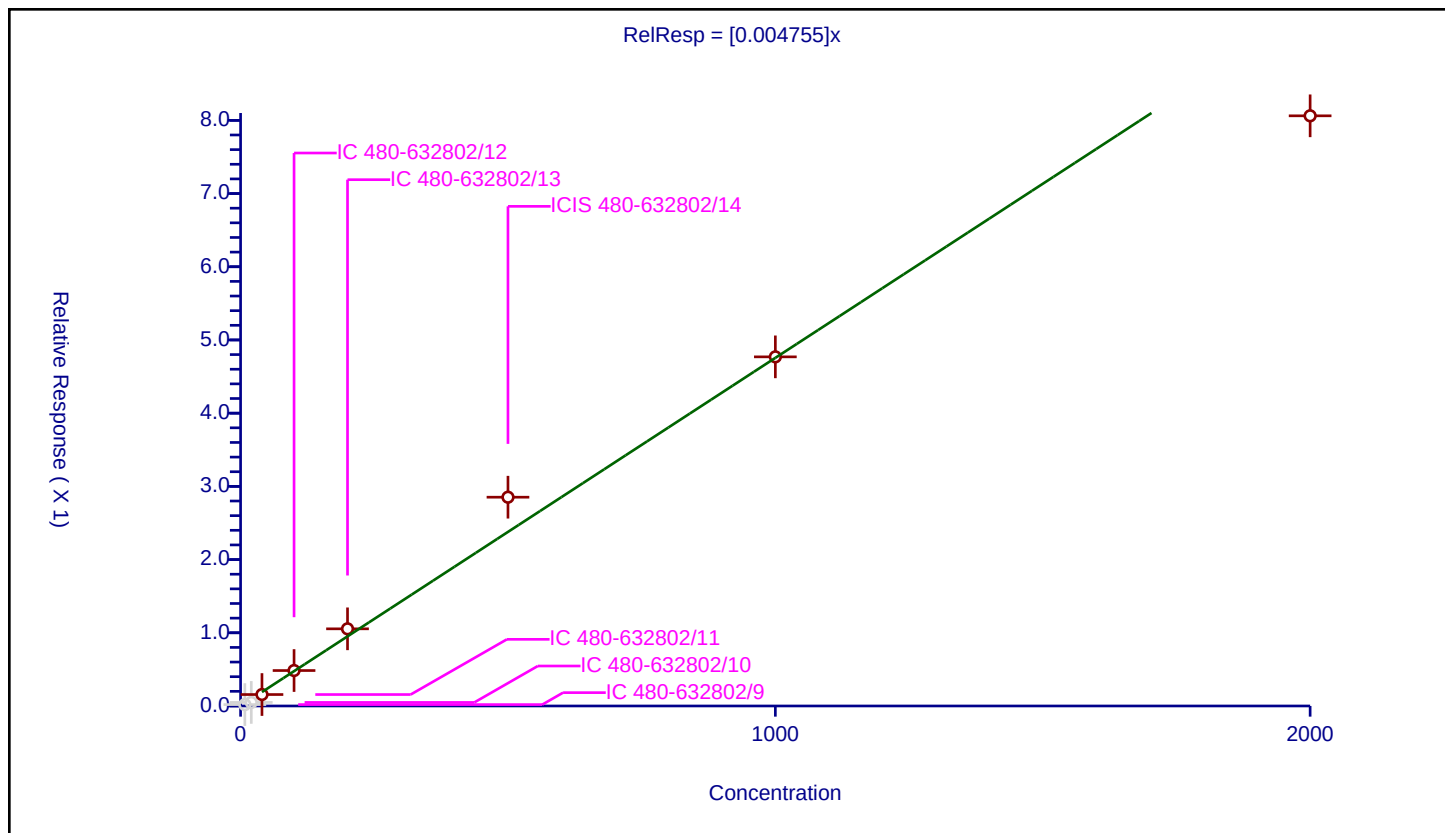
## Curve Coefficients

Intercept: 0  
Slope: 0.004755

## Error Coefficients

Standard Error: 115000  
Relative Standard Error: 14.6  
Correlation Coefficient: 0.974  
Coefficient of Determination (Adjusted): 0.973

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 8.0           | 0.018947   | 25.0      | 671593.0    | 0.002368 | N    |
| 2  | IC 480-632802/10   | 20.0          | 0.04864    | 25.0      | 681018.0    | 0.002432 | N    |
| 3  | IC 480-632802/11   | 40.0          | 0.156527   | 25.0      | 668893.0    | 0.003913 | Y    |
| 4  | IC 480-632802/12   | 100.0         | 0.484389   | 25.0      | 672600.0    | 0.004844 | Y    |
| 5  | IC 480-632802/13   | 200.0         | 1.05406    | 25.0      | 654564.0    | 0.00527  | Y    |
| 6  | ICIS 480-632802/14 | 500.0         | 2.851913   | 25.0      | 679053.0    | 0.005704 | Y    |
| 7  | IC 480-632802/15   | 1000.0        | 4.769078   | 25.0      | 677652.0    | 0.004769 | Y    |
| 8  | IC 480-632802/16   | 2000.0        | 8.06187    | 25.0      | 636642.0    | 0.004031 | Y    |



# Calibration

/ Dibromomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

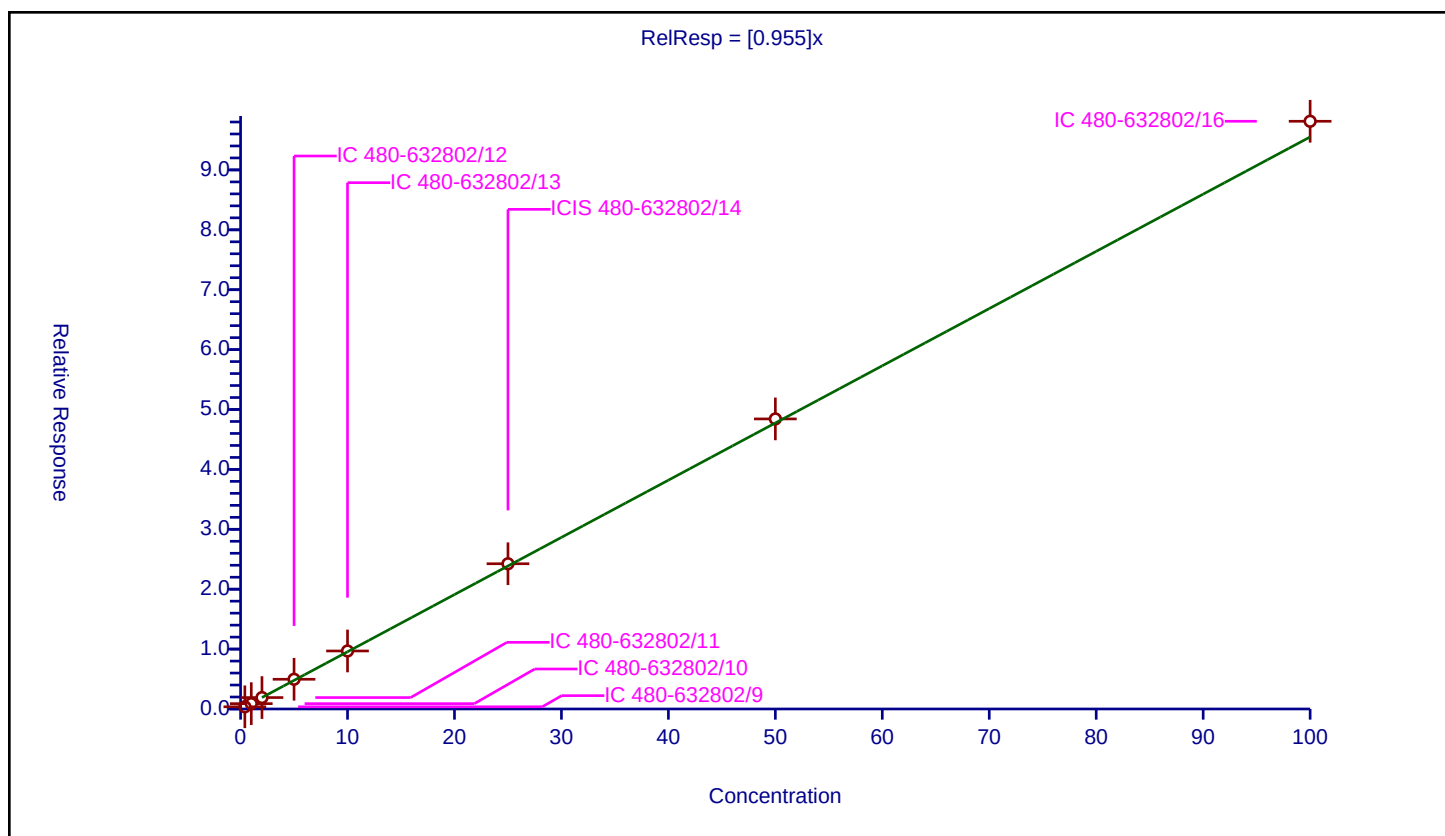
## Curve Coefficients

Intercept: 0  
 Slope: 0.955

## Error Coefficients

Standard Error: 270000  
 Relative Standard Error: 3.6  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.365431   | 25.0      | 172673.0    | 0.913577 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.891271   | 25.0      | 176237.0    | 0.891271 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 1.909457   | 25.0      | 170991.0    | 0.954729 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 4.961796   | 25.0      | 172624.0    | 0.992359 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 9.686733   | 25.0      | 169105.0    | 0.968673 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 24.248922  | 25.0      | 166727.0    | 0.969957 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 48.426487  | 25.0      | 165426.0    | 0.96853  | Y    |
| 8  | IC 480-632802/16   | 100.0         | 98.12494   | 25.0      | 156035.0    | 0.981249 | Y    |



# Calibration

/ Dichlorobromomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

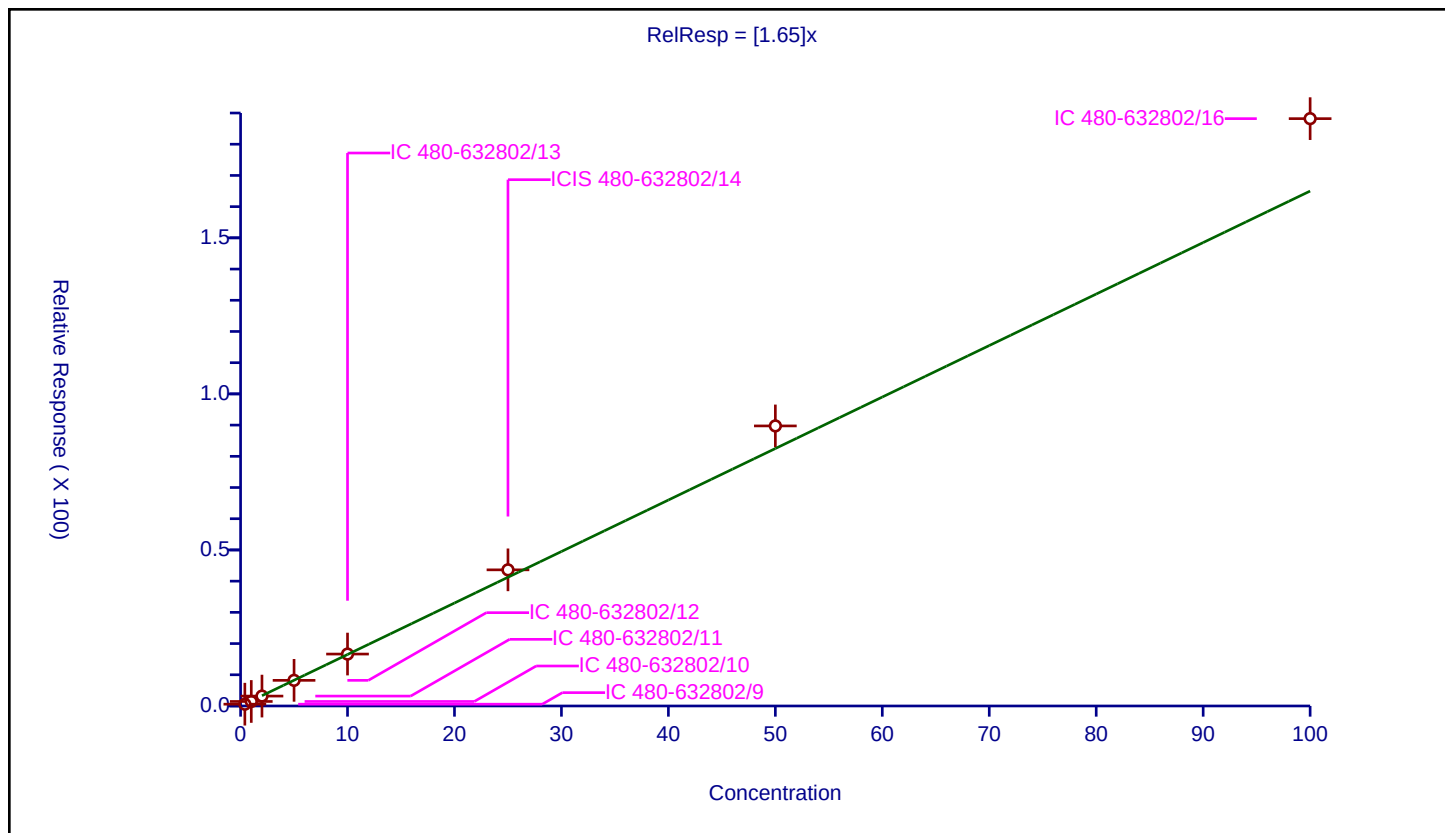
## Curve Coefficients

Intercept: 0  
 Slope: 1.65

## Error Coefficients

Standard Error: 512000  
 Relative Standard Error: 9.6  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.989

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.57551    | 25.0      | 172673.0    | 1.438774 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.444078   | 25.0      | 176237.0    | 1.444078 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.172682   | 25.0      | 170991.0    | 1.586341 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 8.219309   | 25.0      | 172624.0    | 1.643862 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 16.644245  | 25.0      | 169105.0    | 1.664424 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 43.624308  | 25.0      | 166727.0    | 1.744972 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 89.742543  | 25.0      | 165426.0    | 1.794851 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 188.198    | 25.0      | 156035.0    | 1.88198  | Y    |





## Calibration

/ 2-Chloroethyl vinyl ether

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

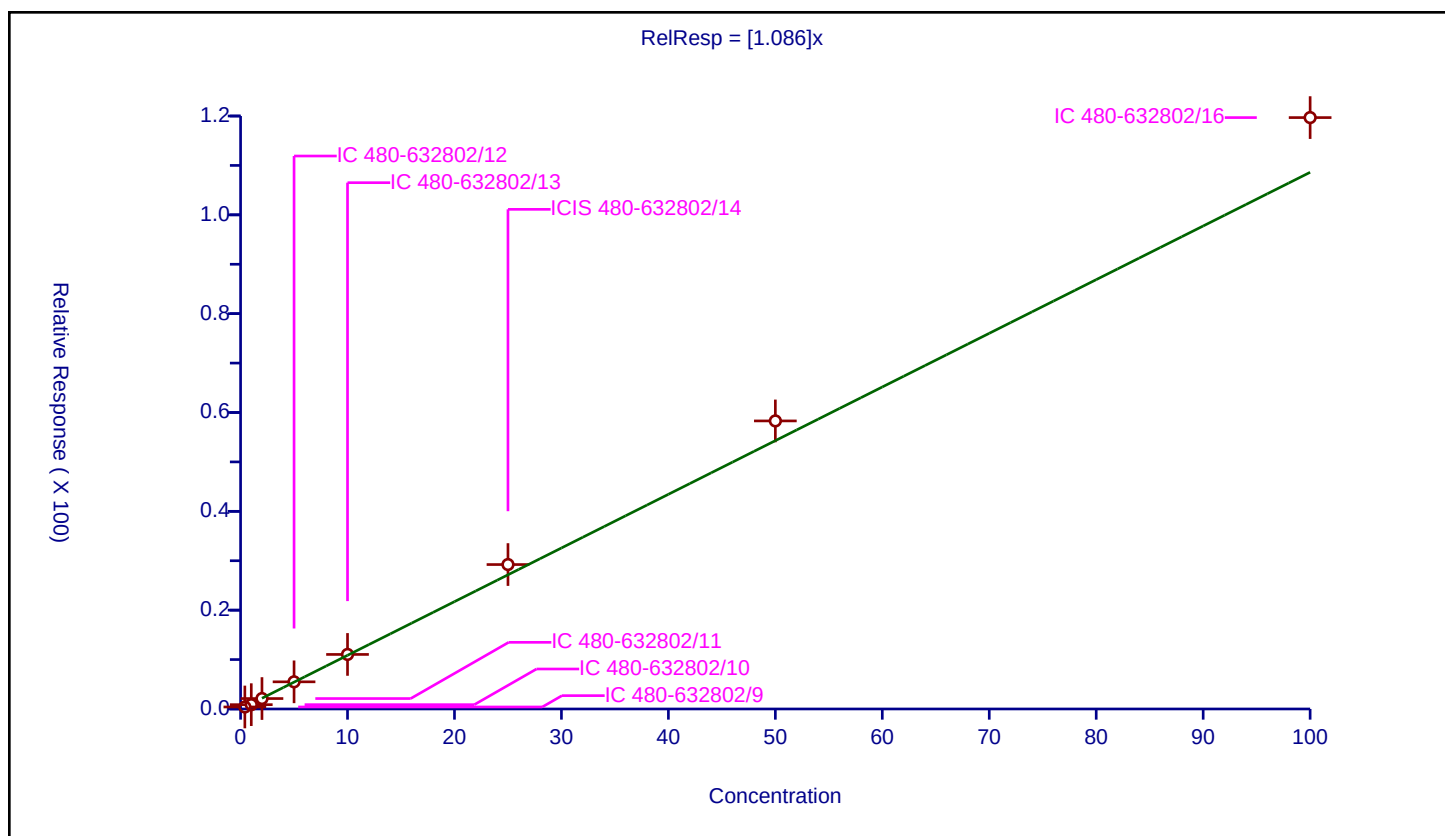
## Curve Coefficients

Intercept: 0  
Slope: 1.086

## Error Coefficients

Standard Error: 328000  
Relative Standard Error: 9.6  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.989

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.408865   | 25.0      | 172673.0    | 1.022163 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.874533   | 25.0      | 176237.0    | 0.874533 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.112246   | 25.0      | 170991.0    | 1.056123 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 5.498946   | 25.0      | 172624.0    | 1.099789 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 11.040921  | 25.0      | 169105.0    | 1.104092 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 29.231168  | 25.0      | 166727.0    | 1.169247 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 58.293436  | 25.0      | 165426.0    | 1.165869 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 119.68004  | 25.0      | 156035.0    | 1.1968   | Y    |



## Calibration

/ cis-1,3-Dichloropropene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

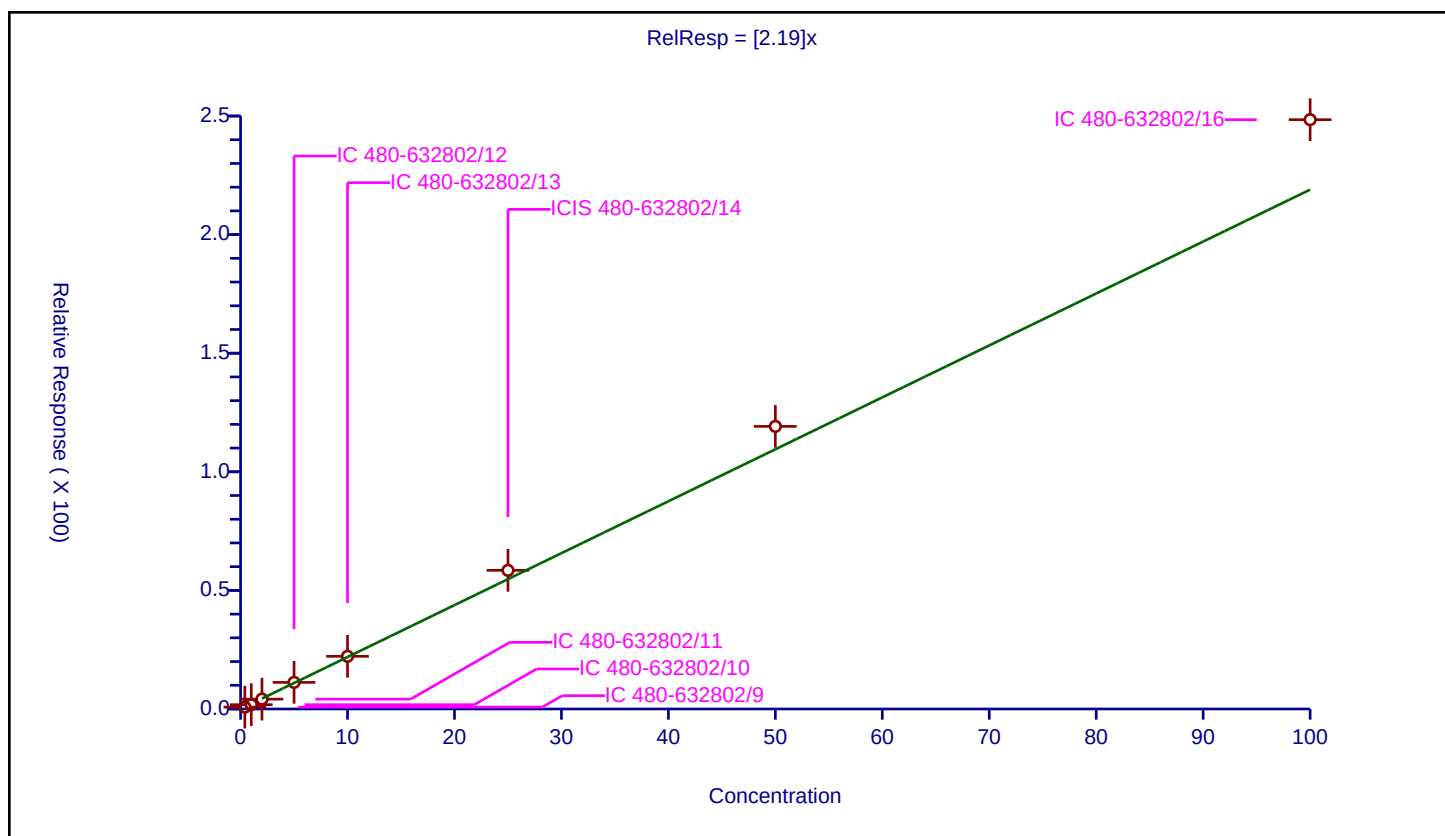
### Curve Coefficients

Intercept: 0  
 Slope: 2.19

### Error Coefficients

Standard Error: 677000  
 Relative Standard Error: 10.3  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.988

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.781245   | 25.0      | 172673.0    | 1.953114 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.815737   | 25.0      | 176237.0    | 1.815737 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 4.158552   | 25.0      | 170991.0    | 2.079276 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 11.213533  | 25.0      | 172624.0    | 2.242707 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 22.202034  | 25.0      | 169105.0    | 2.220203 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 58.455589  | 25.0      | 166727.0    | 2.338224 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 119.144058 | 25.0      | 165426.0    | 2.382881 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 248.464447 | 25.0      | 156035.0    | 2.484644 | Y    |



# Calibration

/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

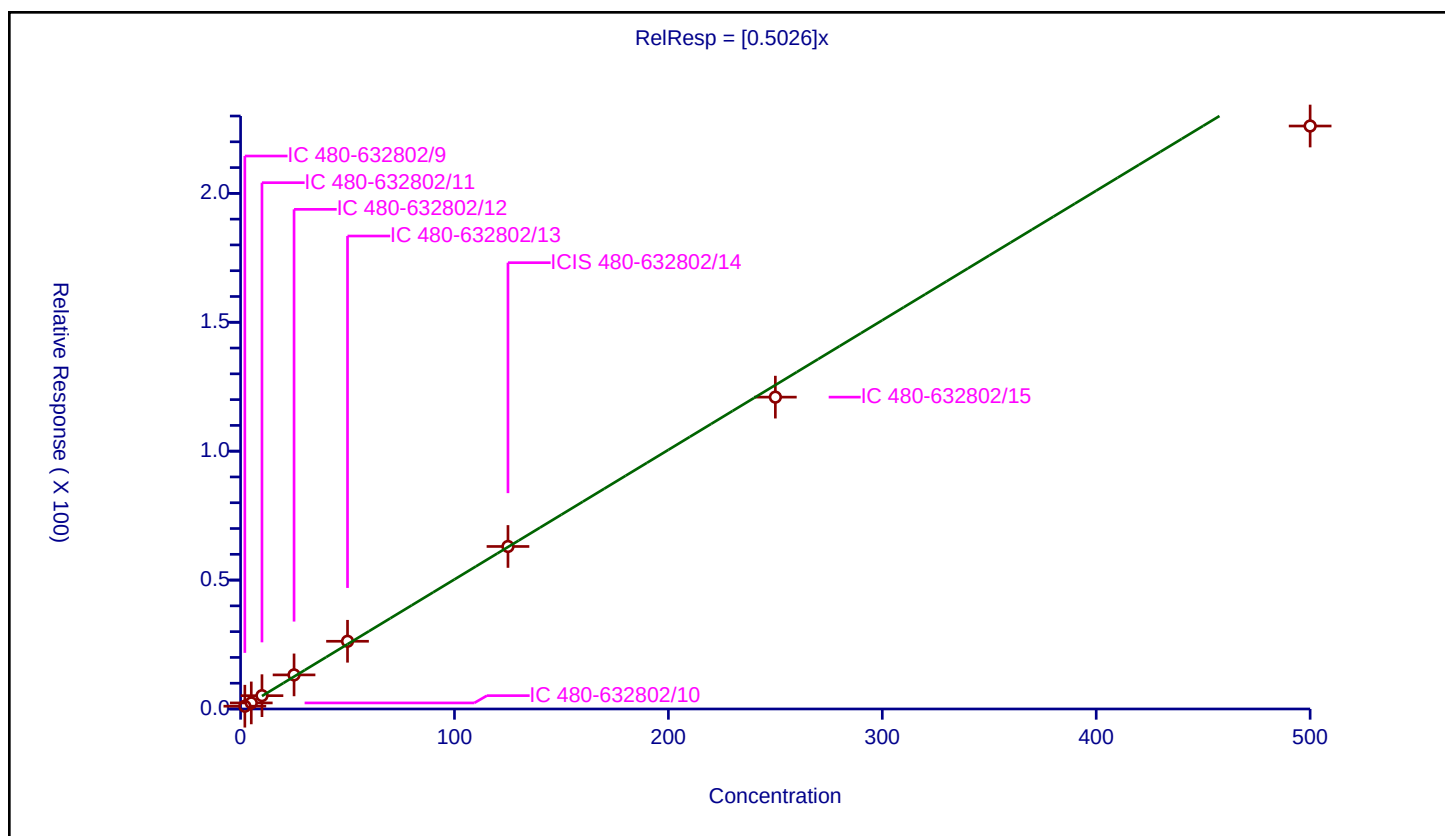
## Curve Coefficients

Intercept: 0  
 Slope: 0.5026

## Error Coefficients

Standard Error: 2600000  
 Relative Standard Error: 6.1  
 Correlation Coefficient: 0.995  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 2.0           | 1.077252   | 25.0      | 671593.0    | 0.538626 | Y    |
| 2  | IC 480-632802/10   | 5.0           | 2.355665   | 25.0      | 681018.0    | 0.471133 | Y    |
| 3  | IC 480-632802/11   | 10.0          | 5.166447   | 25.0      | 668893.0    | 0.516645 | Y    |
| 4  | IC 480-632802/12   | 25.0          | 13.219596  | 25.0      | 672600.0    | 0.528784 | Y    |
| 5  | IC 480-632802/13   | 50.0          | 26.262061  | 25.0      | 654564.0    | 0.525241 | Y    |
| 6  | ICIS 480-632802/14 | 125.0         | 63.032893  | 25.0      | 679053.0    | 0.504263 | Y    |
| 7  | IC 480-632802/15   | 250.0         | 120.965296 | 25.0      | 677652.0    | 0.483861 | Y    |
| 8  | IC 480-632802/16   | 500.0         | 226.124533 | 25.0      | 636642.0    | 0.452249 | Y    |



## Calibration

/ Toluene-d8 (Surr)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

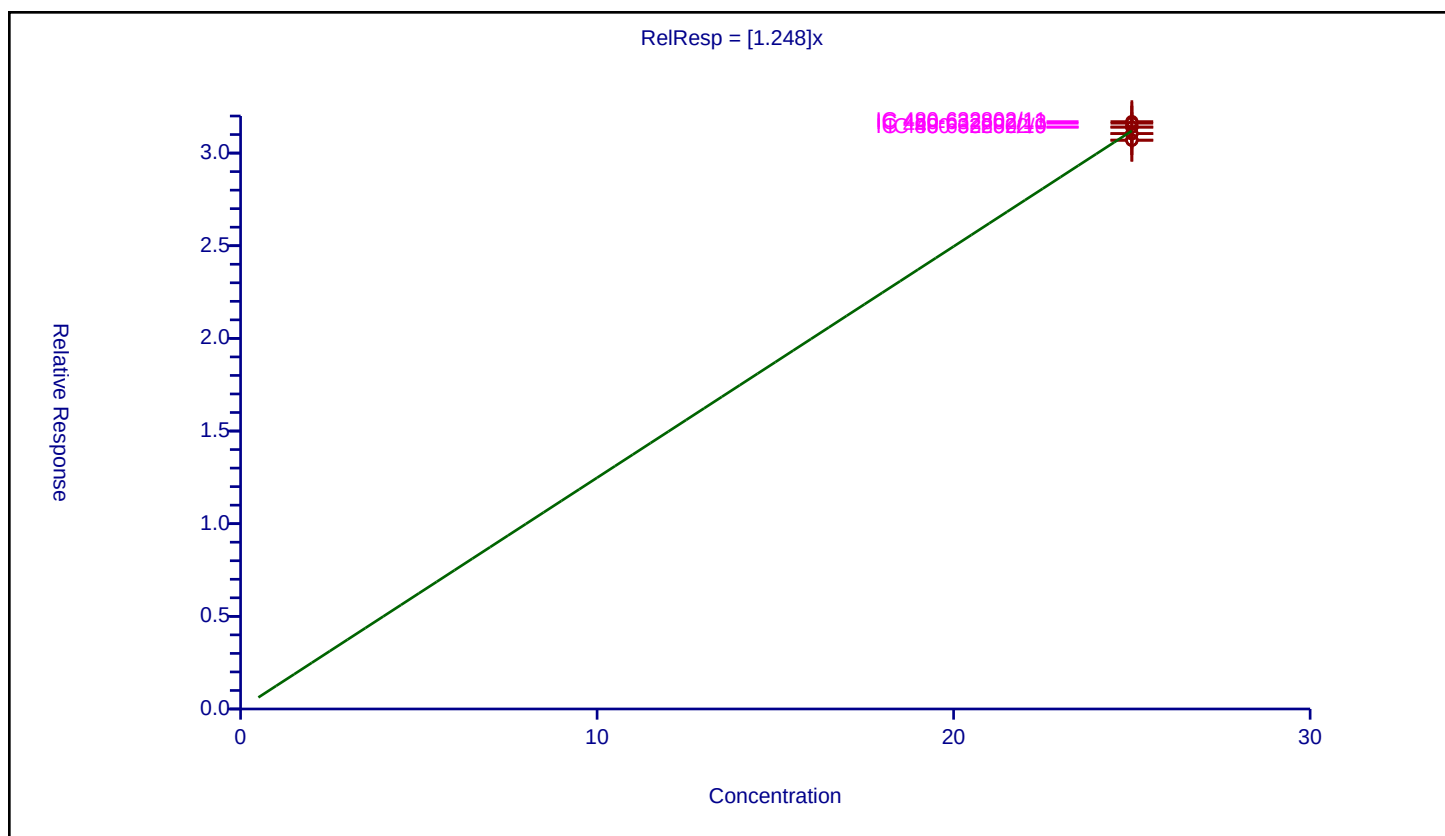
### Curve Coefficients

Intercept: 0  
 Slope: 1.248

### Error Coefficients

Standard Error: 891000  
 Relative Standard Error: 1.2  
 Correlation Coefficient: 0  
 Coefficient of Determination (Adjusted): 0.000000000000000111

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 25.0          | 31.398146  | 25.0      | 671593.0    | 1.255926 | Y    |
| 2  | IC 480-632802/10   | 25.0          | 31.406218  | 25.0      | 681018.0    | 1.256249 | Y    |
| 3  | IC 480-632802/11   | 25.0          | 31.699128  | 25.0      | 668893.0    | 1.267965 | Y    |
| 4  | IC 480-632802/12   | 25.0          | 31.049918  | 25.0      | 672600.0    | 1.241997 | Y    |
| 5  | IC 480-632802/13   | 25.0          | 31.611768  | 25.0      | 654564.0    | 1.264471 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 30.700807  | 25.0      | 679053.0    | 1.228032 | Y    |
| 7  | IC 480-632802/15   | 25.0          | 30.691601  | 25.0      | 677652.0    | 1.227664 | Y    |
| 8  | IC 480-632802/16   | 25.0          | 31.046766  | 25.0      | 636642.0    | 1.241871 | Y    |



## Calibration

/ Toluene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

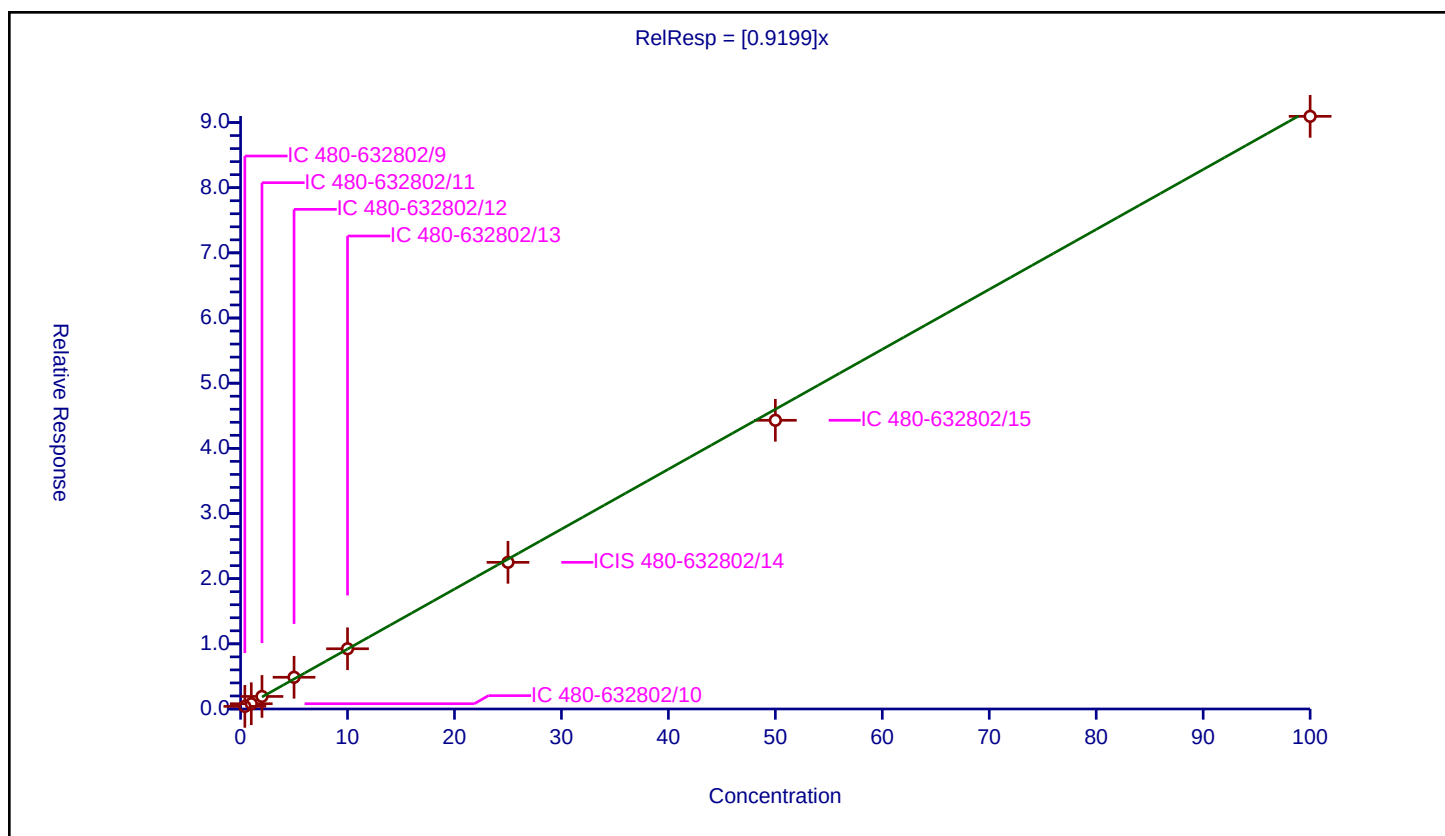
## Curve Coefficients

Intercept: 0  
Slope: 0.9199

## Error Coefficients

Standard Error: 1020000  
Relative Standard Error: 6.5  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.398046   | 25.0      | 671593.0    | 0.995115 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.807137   | 25.0      | 681018.0    | 0.807137 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 1.927214   | 25.0      | 668893.0    | 0.963607 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 4.866674   | 25.0      | 672600.0    | 0.973335 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 9.241762   | 25.0      | 654564.0    | 0.924176 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 22.507153  | 25.0      | 679053.0    | 0.900286 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 44.307882  | 25.0      | 677652.0    | 0.886158 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 90.949034  | 25.0      | 636642.0    | 0.90949  | Y    |



# Calibration

/ trans-1,3-Dichloropropene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

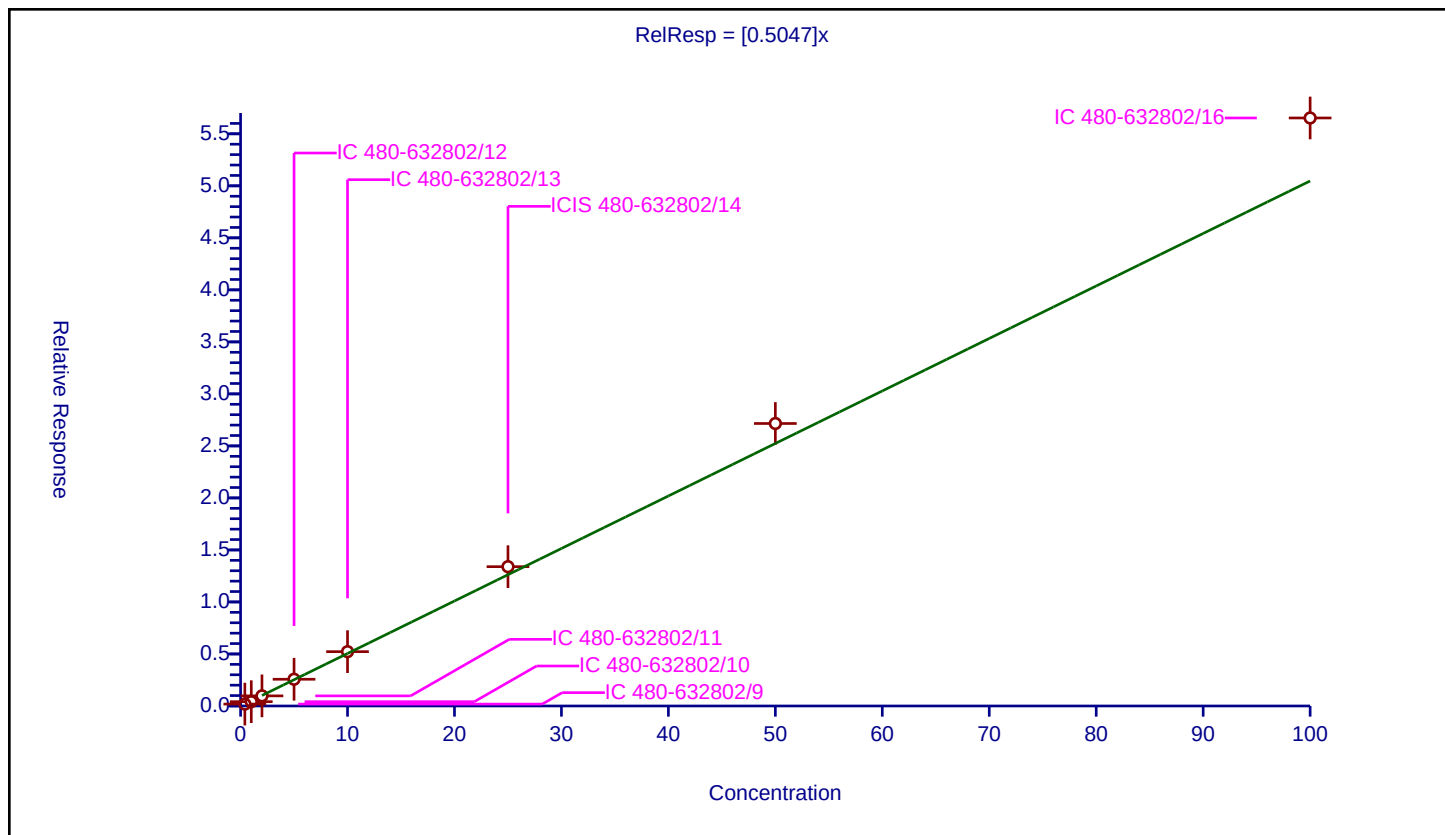
## Curve Coefficients

Intercept: 0  
 Slope: 0.5047

## Error Coefficients

Standard Error: 629000  
 Relative Standard Error: 9.8  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.989

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.182514   | 25.0      | 671593.0    | 0.456285 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.415004   | 25.0      | 681018.0    | 0.415004 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 0.971755   | 25.0      | 668893.0    | 0.485877 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 2.570213   | 25.0      | 672600.0    | 0.514043 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 5.223553   | 25.0      | 654564.0    | 0.522355 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 13.391701  | 25.0      | 679053.0    | 0.535668 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 27.15376   | 25.0      | 677652.0    | 0.543075 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 56.522543  | 25.0      | 636642.0    | 0.565225 | Y    |



# Calibration

/ Ethyl methacrylate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

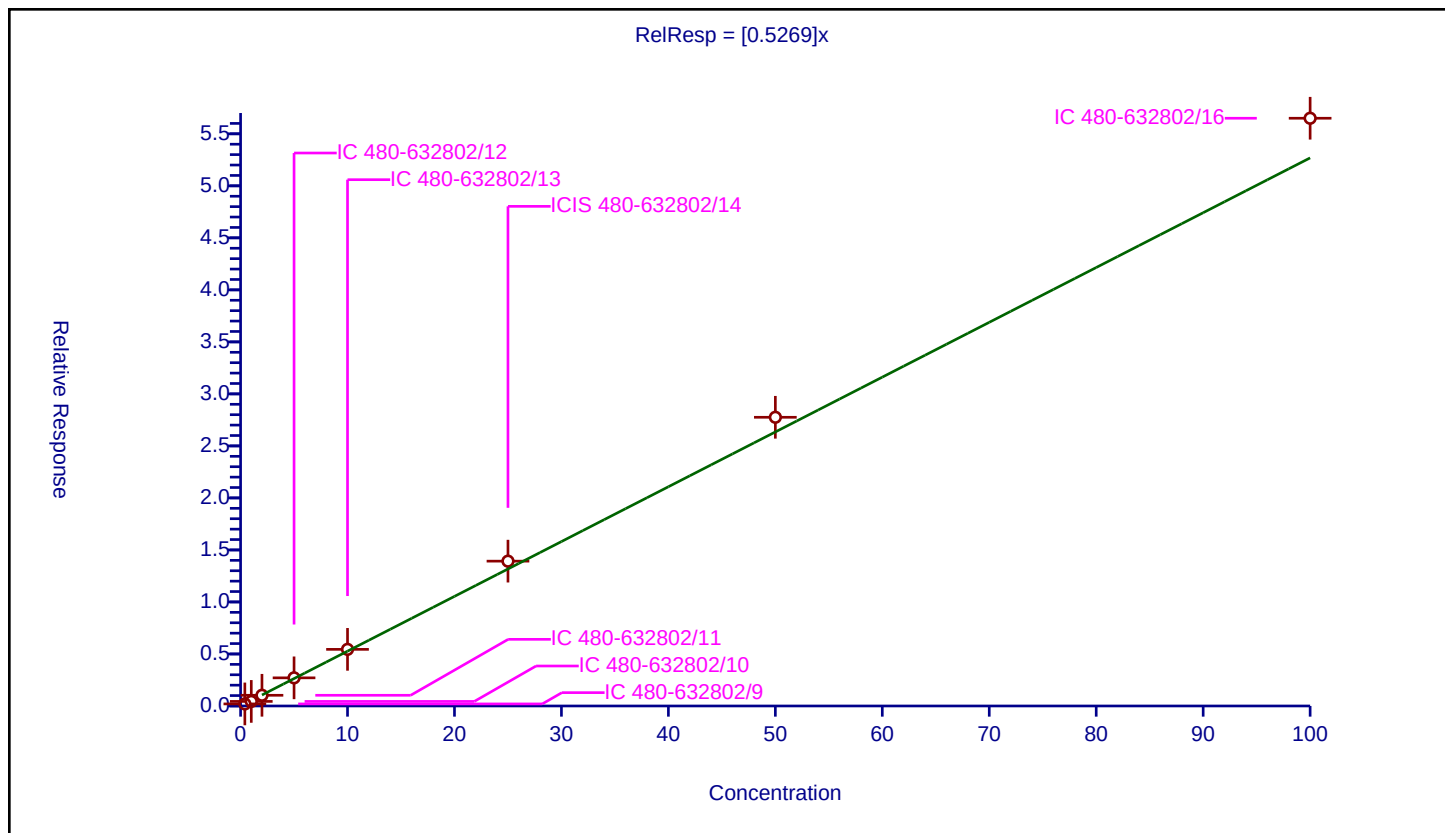
## Curve Coefficients

Intercept: 0  
 Slope: 0.5269

## Error Coefficients

Standard Error: 633000  
 Relative Standard Error: 7.9  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.992

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.199042   | 25.0      | 671593.0    | 0.497604 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.440003   | 25.0      | 681018.0    | 0.440003 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 1.029686   | 25.0      | 668893.0    | 0.514843 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 2.705583   | 25.0      | 672600.0    | 0.541117 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 5.443318   | 25.0      | 654564.0    | 0.544332 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 13.922109  | 25.0      | 679053.0    | 0.556884 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 27.753183  | 25.0      | 677652.0    | 0.555064 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 56.498354  | 25.0      | 636642.0    | 0.564984 | Y    |



## Calibration

/ 1,1,2-Trichloroethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

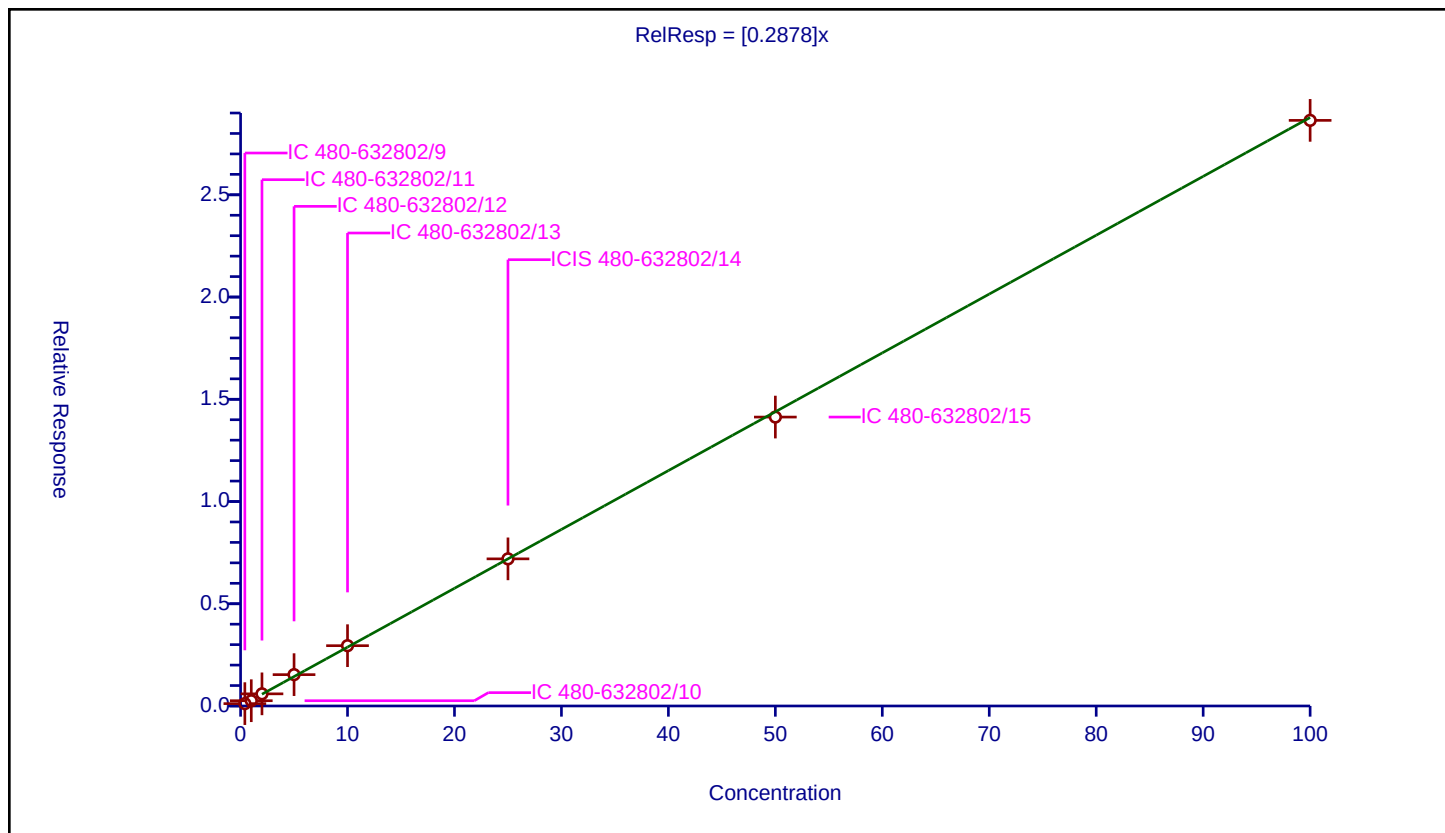
## Curve Coefficients

Intercept: 0  
Slope: 0.2878

## Error Coefficients

Standard Error: 322000  
Relative Standard Error: 4.9  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.115434   | 25.0      | 671593.0    | 0.288586 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.258216   | 25.0      | 681018.0    | 0.258216 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 0.594116   | 25.0      | 668893.0    | 0.297058 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 1.533675   | 25.0      | 672600.0    | 0.306735 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 2.949712   | 25.0      | 654564.0    | 0.294971 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 7.195241   | 25.0      | 679053.0    | 0.28781  | Y    |
| 7  | IC 480-632802/15   | 50.0          | 14.129561  | 25.0      | 677652.0    | 0.282591 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 28.640036  | 25.0      | 636642.0    | 0.2864   | Y    |





# Calibration

/ Tetrachloroethene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

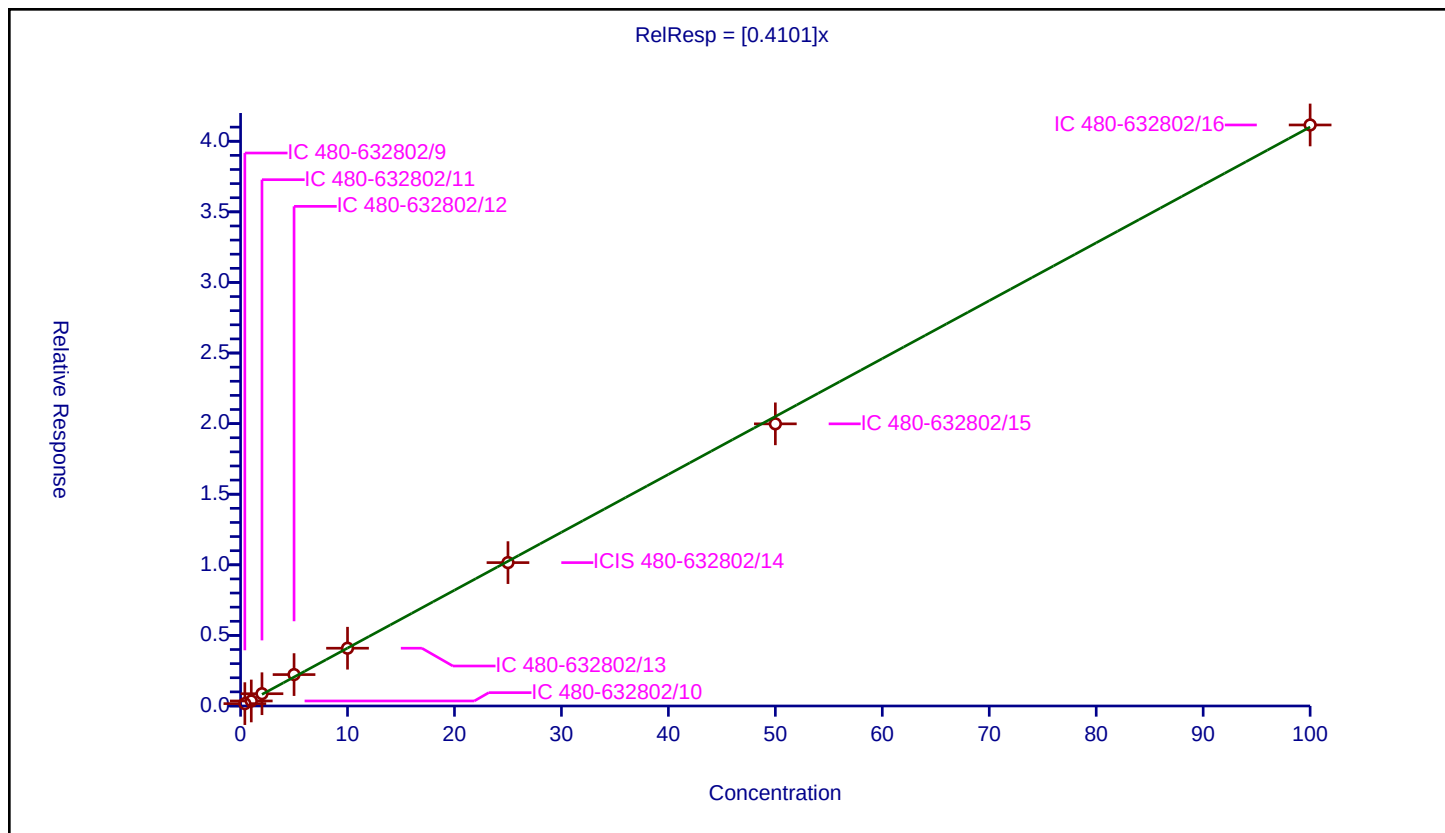
## Curve Coefficients

Intercept: 0  
 Slope: 0.4101

## Error Coefficients

Standard Error: 460000  
 Relative Standard Error: 6.5  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.167103   | 25.0      | 671593.0    | 0.417757 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.356342   | 25.0      | 681018.0    | 0.356342 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 0.869907   | 25.0      | 668893.0    | 0.434954 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 2.224688   | 25.0      | 672600.0    | 0.444938 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 4.092113   | 25.0      | 654564.0    | 0.409211 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 10.155945  | 25.0      | 679053.0    | 0.406238 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 19.984373  | 25.0      | 677652.0    | 0.399687 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 41.153741  | 25.0      | 636642.0    | 0.411537 | Y    |



# Calibration

/ 1,3-Dichloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

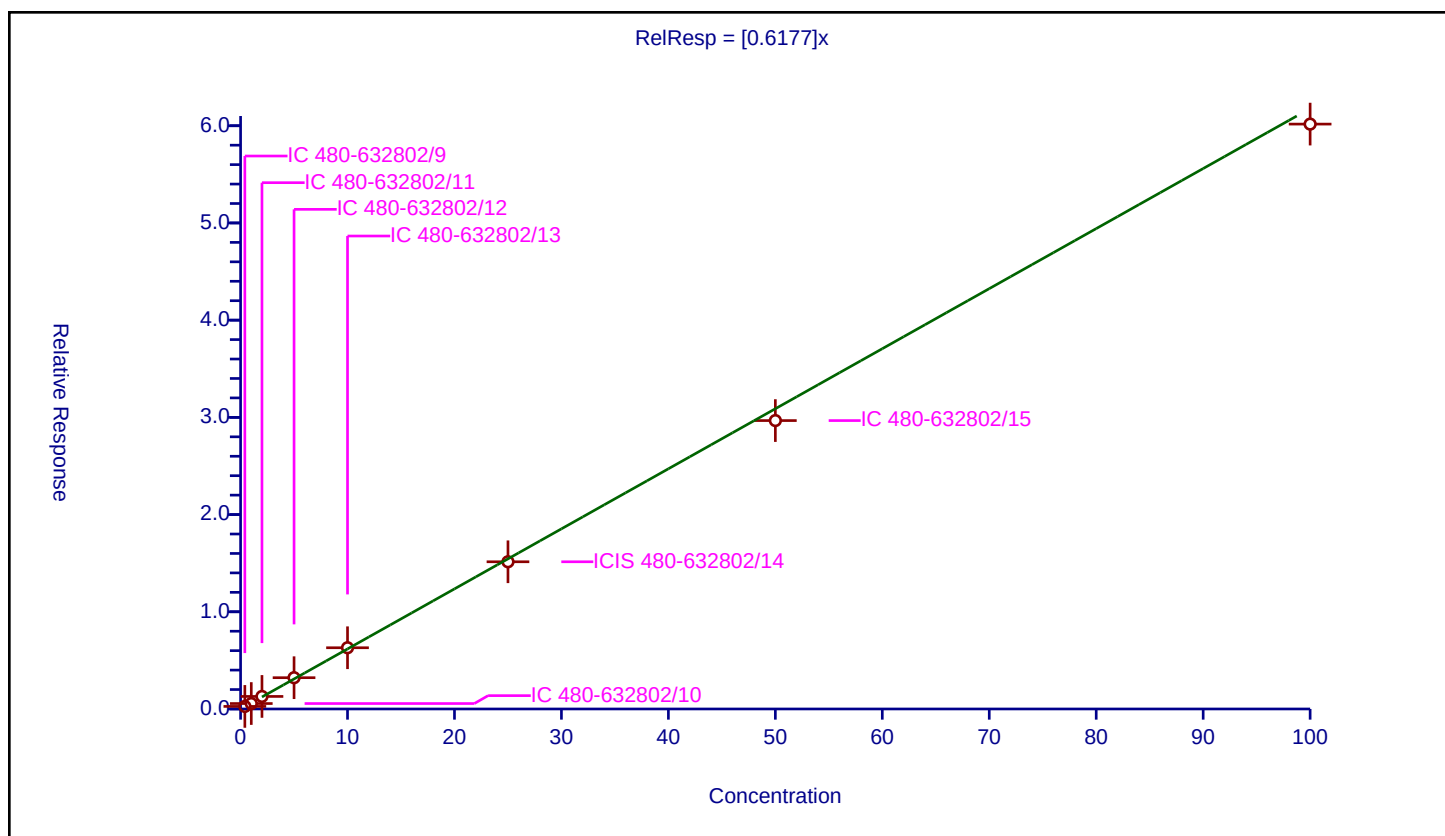
## Curve Coefficients

Intercept: 0  
 Slope: 0.6177

## Error Coefficients

Standard Error: 676000  
 Relative Standard Error: 5.4  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.264706   | 25.0      | 671593.0    | 0.661766 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.559677   | 25.0      | 681018.0    | 0.559677 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 1.291462   | 25.0      | 668893.0    | 0.645731 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 3.218852   | 25.0      | 672600.0    | 0.64377  | Y    |
| 5  | IC 480-632802/13   | 10.0          | 6.301179   | 25.0      | 654564.0    | 0.630118 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 15.143001  | 25.0      | 679053.0    | 0.60572  | Y    |
| 7  | IC 480-632802/15   | 50.0          | 29.669063  | 25.0      | 677652.0    | 0.593381 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 60.167527  | 25.0      | 636642.0    | 0.601675 | Y    |



## Calibration

/ 2-Hexanone

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

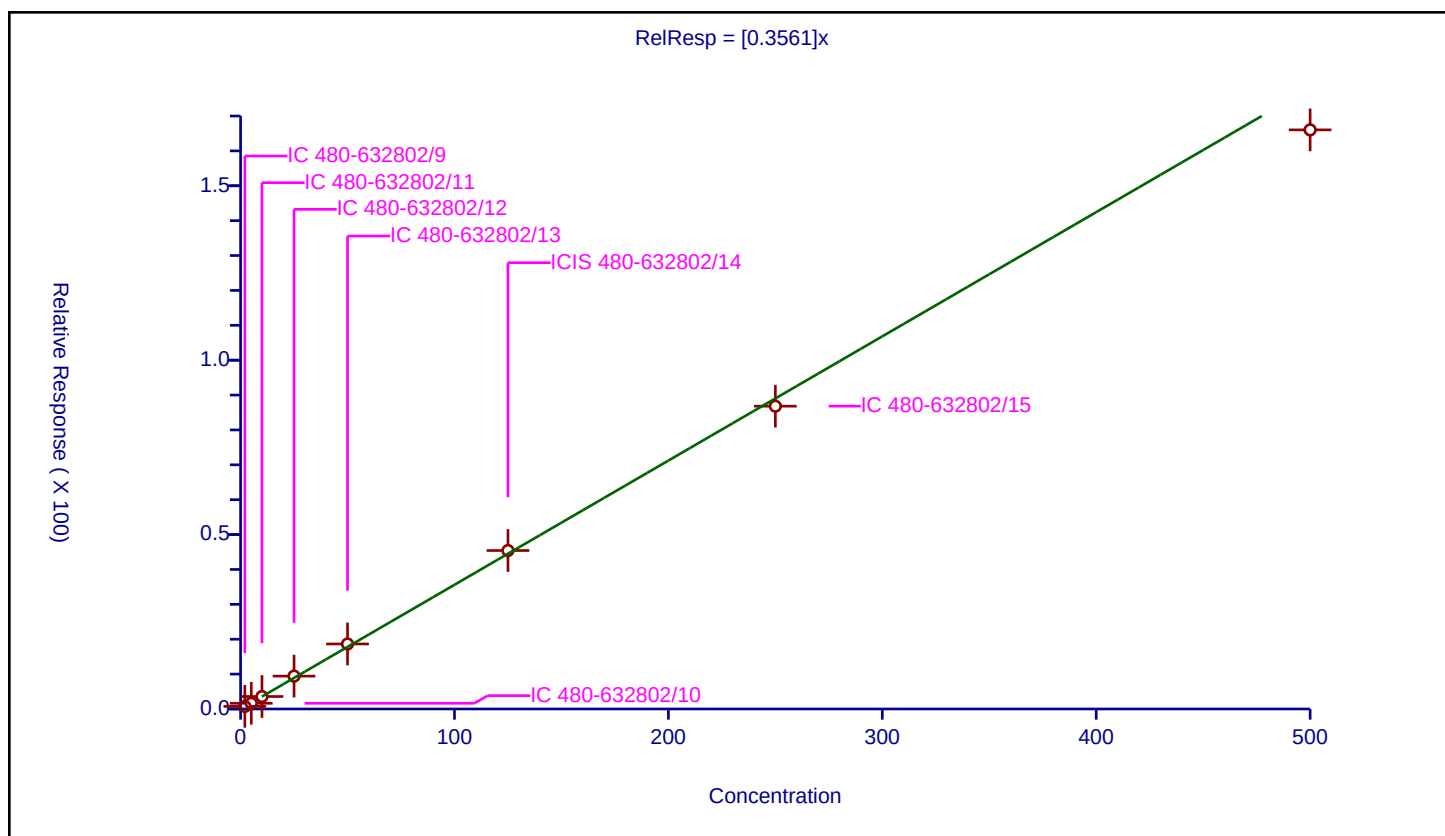
## Curve Coefficients

Intercept: 0  
Slope: 0.3561

## Error Coefficients

Standard Error: 1900000  
Relative Standard Error: 5.4  
Correlation Coefficient: 0.996  
Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 2.0           | 0.746025   | 25.0      | 671593.0    | 0.373012 | Y    |
| 2  | IC 480-632802/10   | 5.0           | 1.629032   | 25.0      | 681018.0    | 0.325806 | Y    |
| 3  | IC 480-632802/11   | 10.0          | 3.573255   | 25.0      | 668893.0    | 0.357325 | Y    |
| 4  | IC 480-632802/12   | 25.0          | 9.424324   | 25.0      | 672600.0    | 0.376973 | Y    |
| 5  | IC 480-632802/13   | 50.0          | 18.644395  | 25.0      | 654564.0    | 0.372888 | Y    |
| 6  | ICIS 480-632802/14 | 125.0         | 45.427713  | 25.0      | 679053.0    | 0.363422 | Y    |
| 7  | IC 480-632802/15   | 250.0         | 86.813549  | 25.0      | 677652.0    | 0.347254 | Y    |
| 8  | IC 480-632802/16   | 500.0         | 166.022231 | 25.0      | 636642.0    | 0.332044 | Y    |



# Calibration

/ Chlorodibromomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

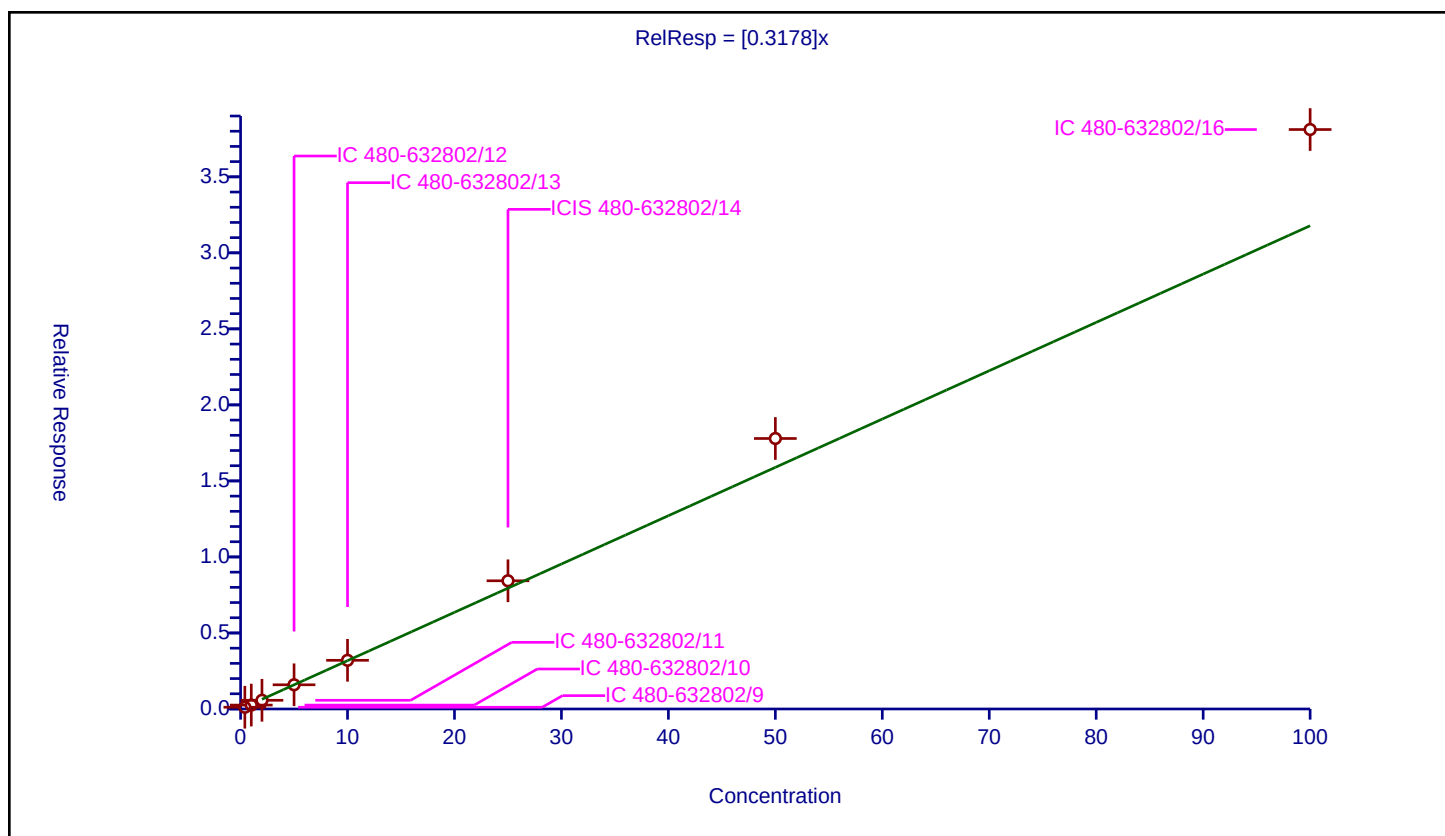
## Curve Coefficients

Intercept: 0  
 Slope: 0.3178

## Error Coefficients

Standard Error: 420000  
 Relative Standard Error: 12.8  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.981

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.114876   | 25.0      | 671593.0    | 0.28719  | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.256307   | 25.0      | 681018.0    | 0.256307 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 0.572588   | 25.0      | 668893.0    | 0.286294 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 1.592068   | 25.0      | 672600.0    | 0.318414 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 3.201864   | 25.0      | 654564.0    | 0.320186 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 8.432147   | 25.0      | 679053.0    | 0.337286 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 17.78992   | 25.0      | 677652.0    | 0.355798 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 38.11145   | 25.0      | 636642.0    | 0.381115 | Y    |



# Calibration

/ Ethylene Dibromide

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

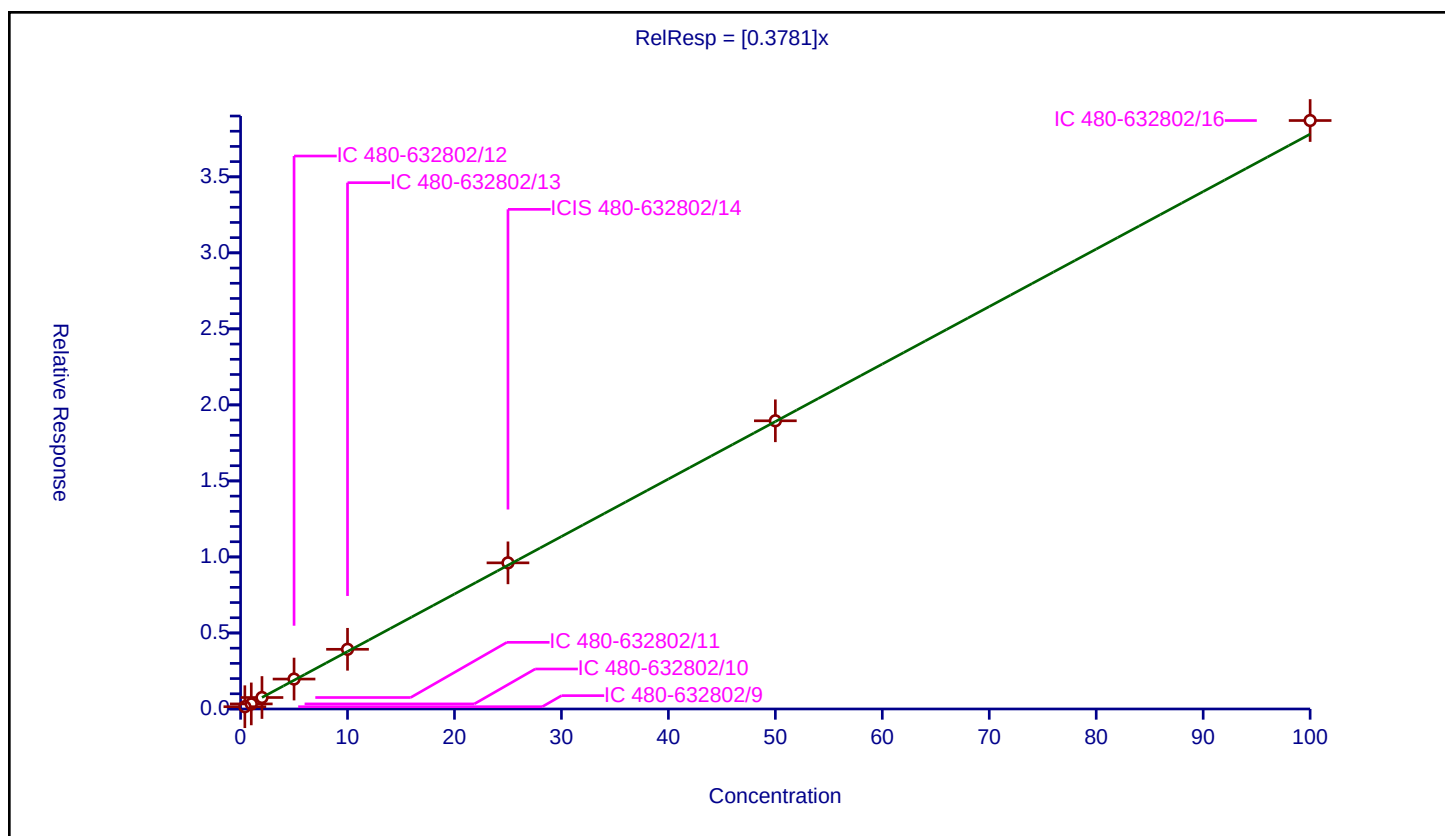
## Curve Coefficients

Intercept: 0  
 Slope: 0.3781

## Error Coefficients

Standard Error: 434000  
 Relative Standard Error: 5.0  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.150761   | 25.0      | 671593.0    | 0.376902 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.333802   | 25.0      | 681018.0    | 0.333802 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 0.754269   | 25.0      | 668893.0    | 0.377134 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 1.968481   | 25.0      | 672600.0    | 0.393696 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 3.926698   | 25.0      | 654564.0    | 0.39267  | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 9.61151    | 25.0      | 679053.0    | 0.38446  | Y    |
| 7  | IC 480-632802/15   | 50.0          | 18.954567  | 25.0      | 677652.0    | 0.379091 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 38.703816  | 25.0      | 636642.0    | 0.387038 | Y    |



# Calibration

/ Chlorobenzene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

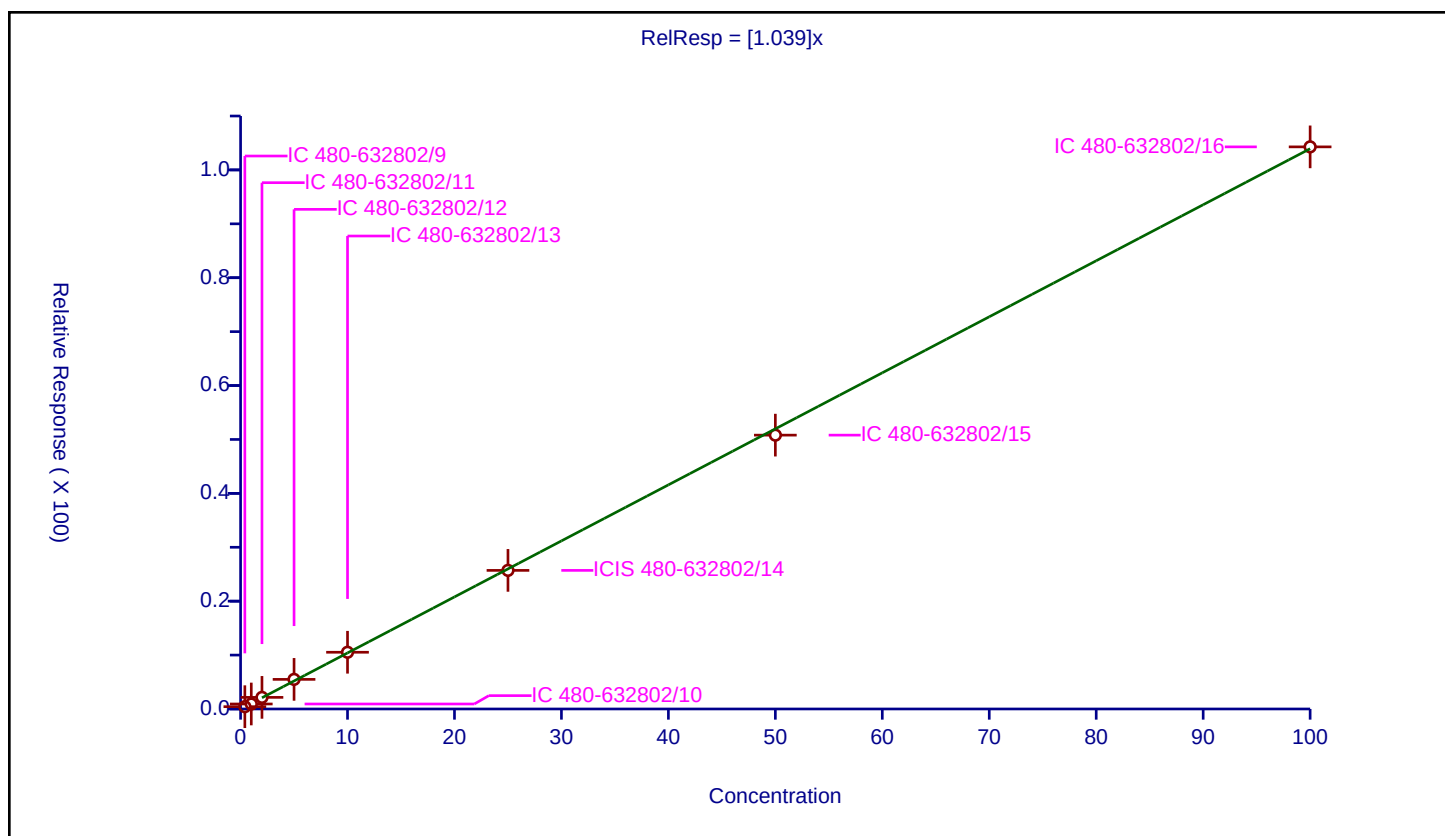
## Curve Coefficients

Intercept: 0  
Slope: 1.039

## Error Coefficients

Standard Error: 1170000  
Relative Standard Error: 5.0  
Correlation Coefficient: 1.000  
Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.428645   | 25.0      | 671593.0    | 1.071613 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.928279   | 25.0      | 681018.0    | 0.928279 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.153857   | 25.0      | 668893.0    | 1.076929 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 5.493124   | 25.0      | 672600.0    | 1.098625 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 10.522844  | 25.0      | 654564.0    | 1.052284 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 25.711469  | 25.0      | 679053.0    | 1.028459 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 50.799636  | 25.0      | 677652.0    | 1.015993 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 104.27654  | 25.0      | 636642.0    | 1.042765 | Y    |



## Calibration

/ Ethylbenzene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

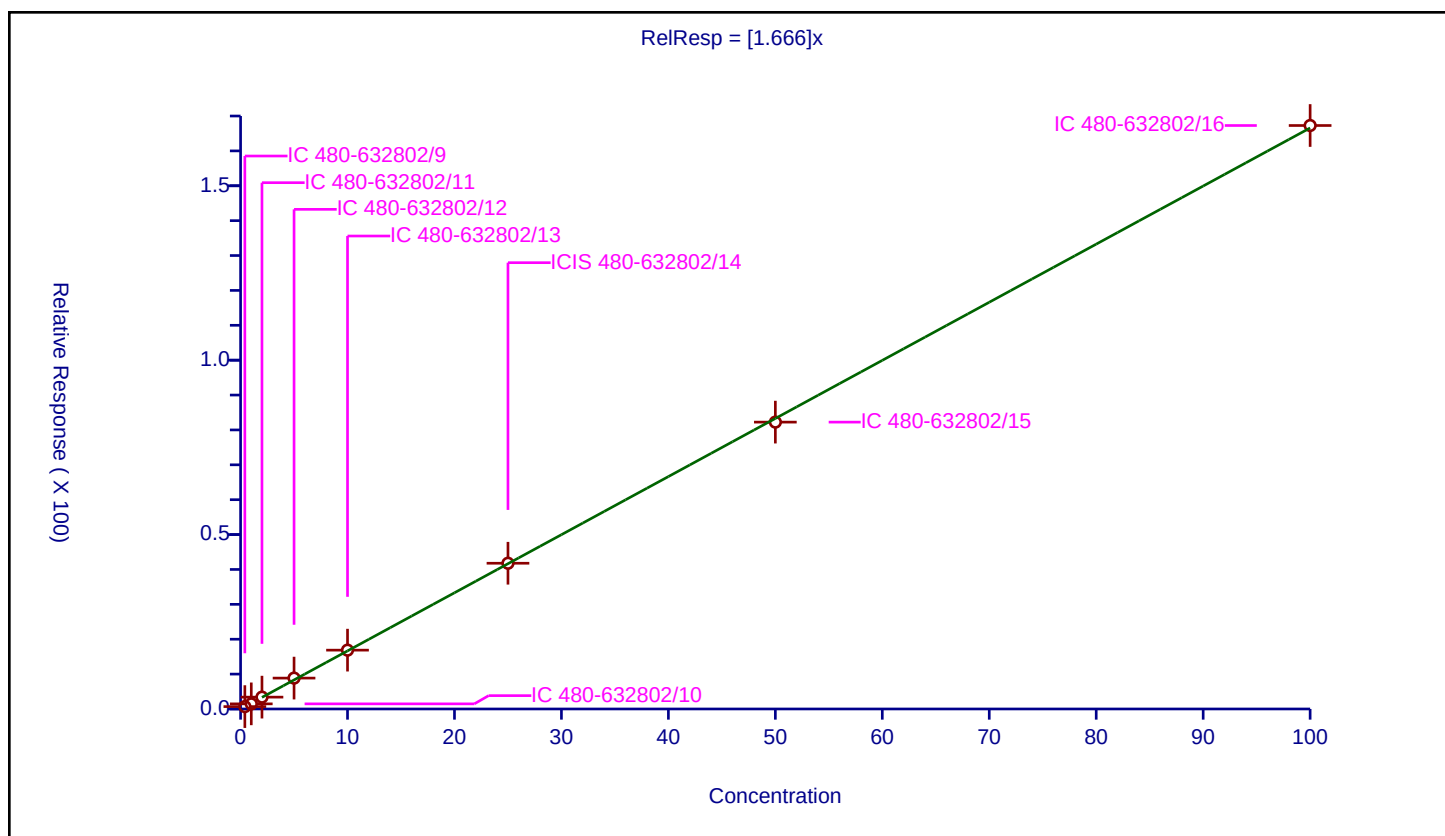
## Curve Coefficients

Intercept: 0  
Slope: 1.666

## Error Coefficients

Standard Error: 1880000  
Relative Standard Error: 5.2  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.683673   | 25.0      | 671593.0    | 1.709182 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.472428   | 25.0      | 681018.0    | 1.472428 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.395648   | 25.0      | 668893.0    | 1.697824 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 8.85675    | 25.0      | 672600.0    | 1.77135  | Y    |
| 5  | IC 480-632802/13   | 10.0          | 16.870085  | 25.0      | 654564.0    | 1.687008 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 41.783263  | 25.0      | 679053.0    | 1.671331 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 82.238413  | 25.0      | 677652.0    | 1.644768 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 167.277842 | 25.0      | 636642.0    | 1.672778 | Y    |



# Calibration

/ 1,1,1,2-Tetrachloroethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

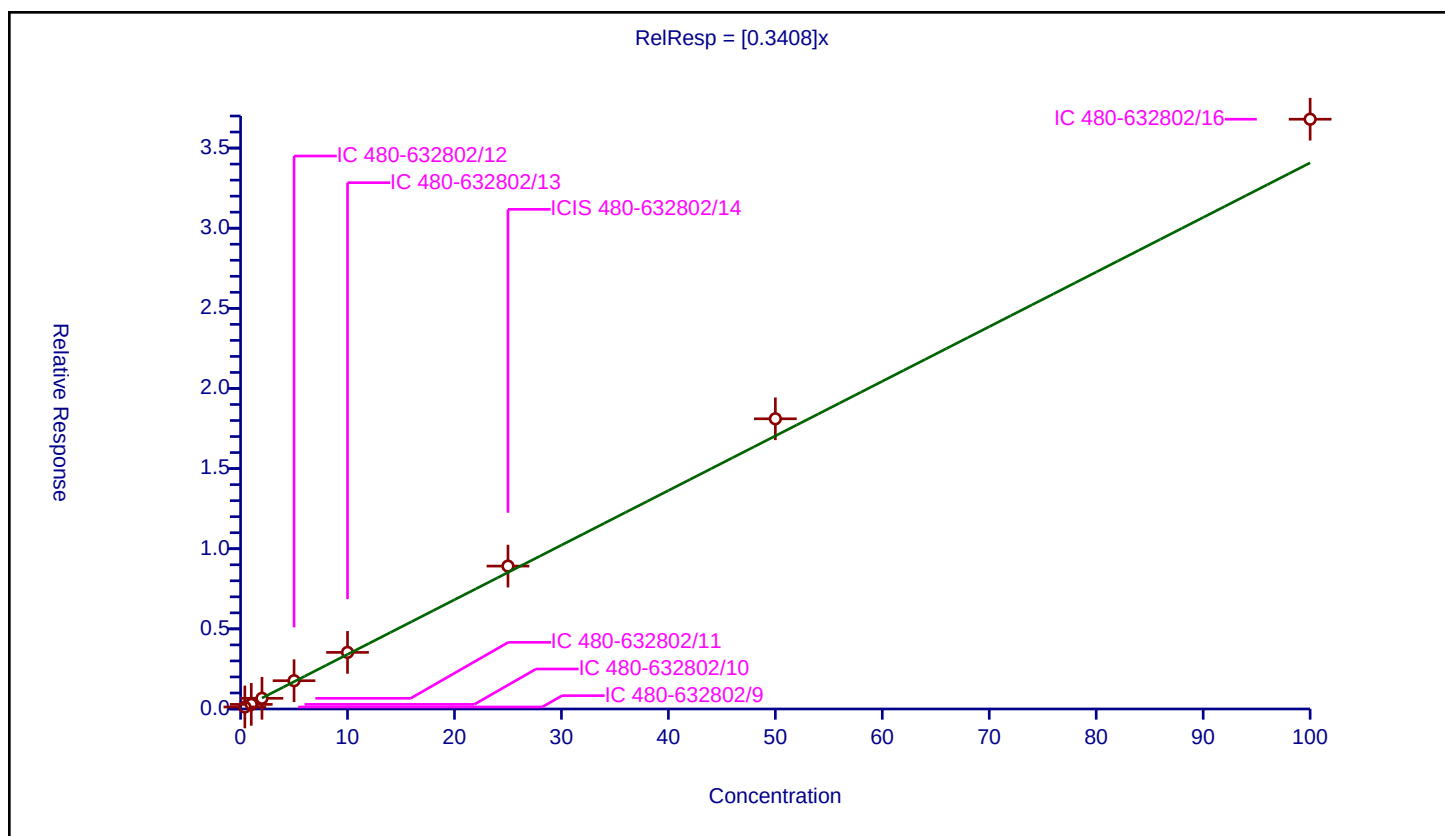
## Curve Coefficients

Intercept: 0  
Slope: 0.3408

## Error Coefficients

Standard Error: 412000  
Relative Standard Error: 8.2  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.992

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.124964   | 25.0      | 671593.0    | 0.31241  | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.287768   | 25.0      | 681018.0    | 0.287768 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 0.666549   | 25.0      | 668893.0    | 0.333275 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 1.764645   | 25.0      | 672600.0    | 0.352929 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 3.531473   | 25.0      | 654564.0    | 0.353147 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 8.915541   | 25.0      | 679053.0    | 0.356622 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 18.108004  | 25.0      | 677652.0    | 0.36216  | Y    |
| 8  | IC 480-632802/16   | 100.0         | 36.79996   | 25.0      | 636642.0    | 0.368    | Y    |





## Calibration

/ m-Xylene & p-Xylene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

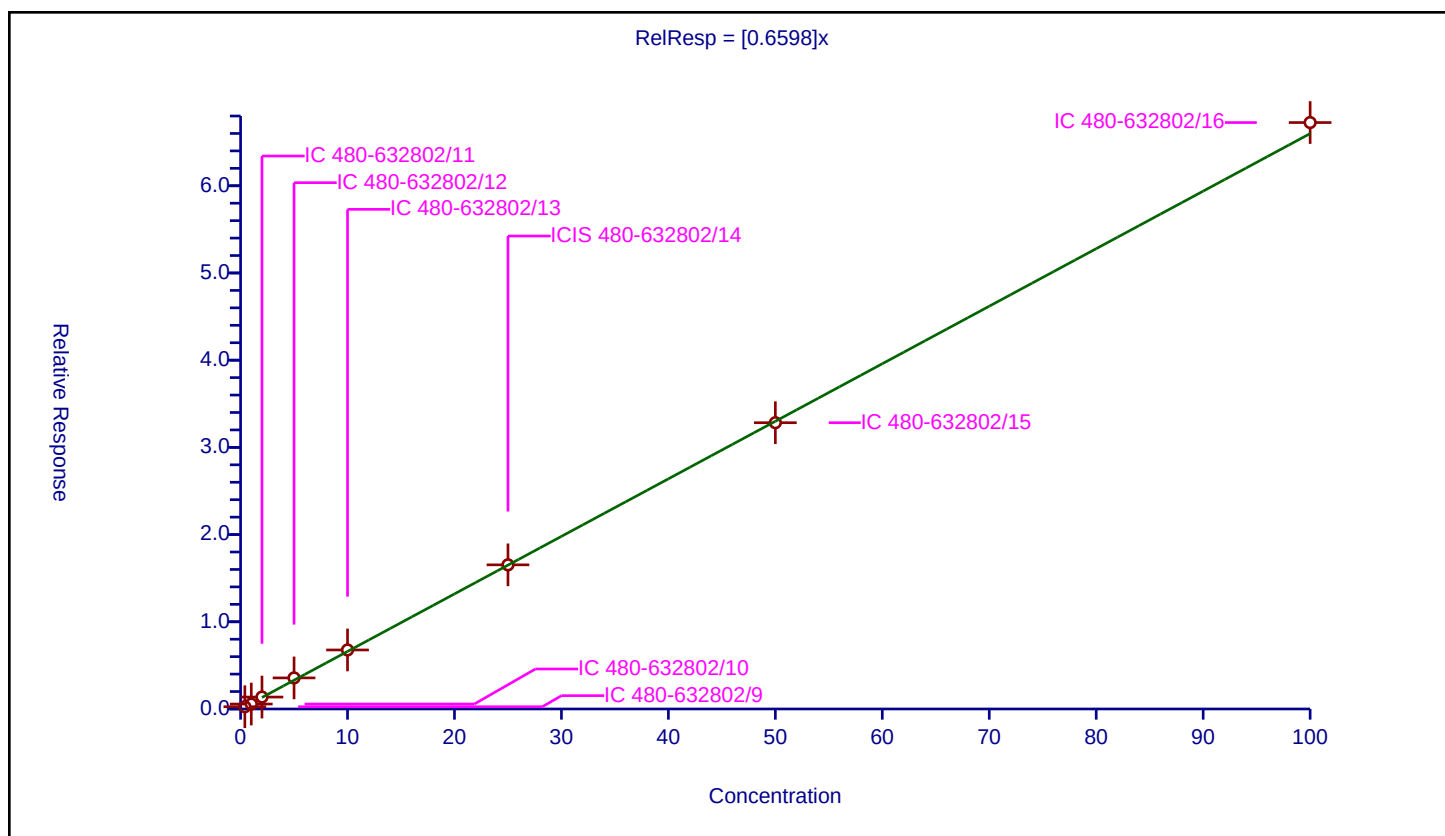
### Curve Coefficients

Intercept: 0  
 Slope: 0.6598

### Error Coefficients

Standard Error: 753000  
 Relative Standard Error: 6.5  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.259234   | 25.0      | 671593.0    | 0.648086 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.566358   | 25.0      | 681018.0    | 0.566358 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 1.368978   | 25.0      | 668893.0    | 0.684489 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 3.562779   | 25.0      | 672600.0    | 0.712556 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 6.769468   | 25.0      | 654564.0    | 0.676947 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 16.52938   | 25.0      | 679053.0    | 0.661175 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 32.829609  | 25.0      | 677652.0    | 0.656592 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 67.251807  | 25.0      | 636642.0    | 0.672518 | Y    |



## Calibration

/ o-Xylene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

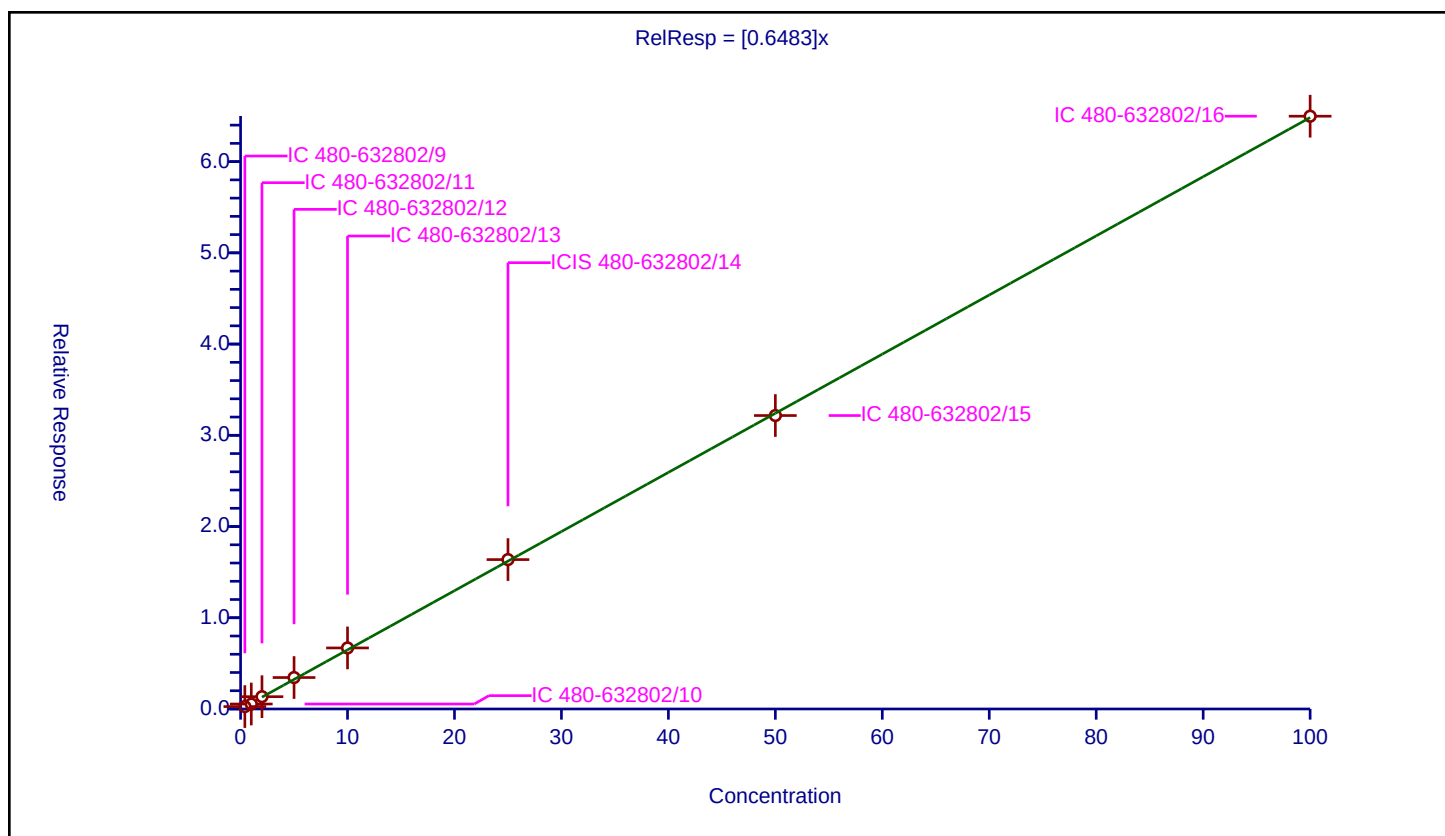
## Curve Coefficients

Intercept: 0  
Slope: 0.6483

## Error Coefficients

Standard Error: 731000  
Relative Standard Error: 6.9  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.264297   | 25.0      | 671593.0    | 0.660742 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.544149   | 25.0      | 681018.0    | 0.544149 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 1.349169   | 25.0      | 668893.0    | 0.674585 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 3.447183   | 25.0      | 672600.0    | 0.689437 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 6.691897   | 25.0      | 654564.0    | 0.66919  | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 16.376925  | 25.0      | 679053.0    | 0.655077 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 32.167211  | 25.0      | 677652.0    | 0.643344 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 64.98079   | 25.0      | 636642.0    | 0.649808 | Y    |



# Calibration

/ Styrene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

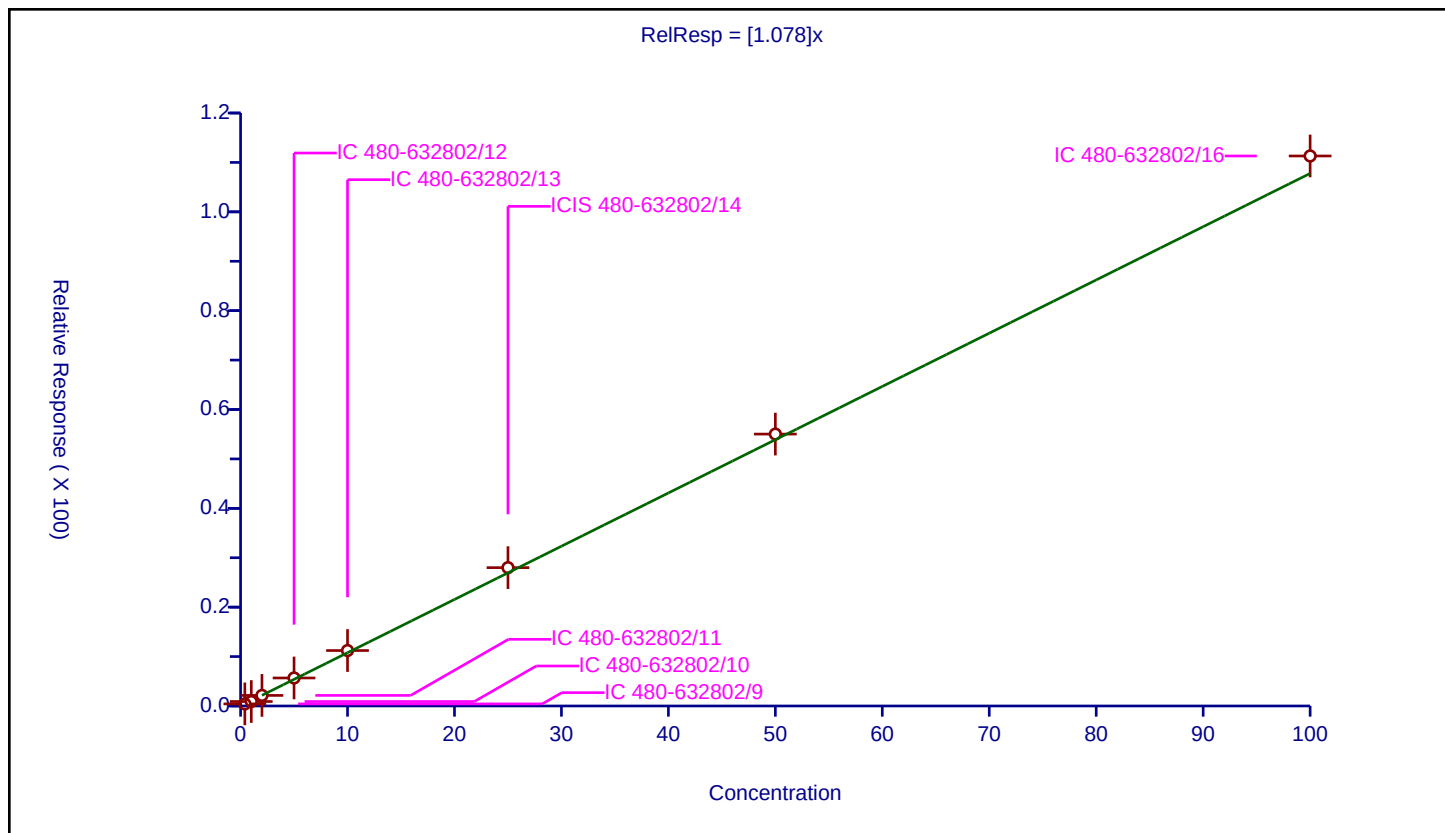
## Curve Coefficients

Intercept: 0  
 Slope: 1.078

## Error Coefficients

Standard Error: 1250000  
 Relative Standard Error: 7.0  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.423434   | 25.0      | 671593.0    | 1.058584 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.90306    | 25.0      | 681018.0    | 0.90306  | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.141      | 25.0      | 668893.0    | 1.0705   | Y    |
| 4  | IC 480-632802/12   | 5.0           | 5.671276   | 25.0      | 672600.0    | 1.134255 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 11.221172  | 25.0      | 654564.0    | 1.122117 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 27.995606  | 25.0      | 679053.0    | 1.119824 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 55.02592   | 25.0      | 677652.0    | 1.100518 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 111.305608 | 25.0      | 636642.0    | 1.113056 | Y    |



## Calibration

/ Bromoform

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

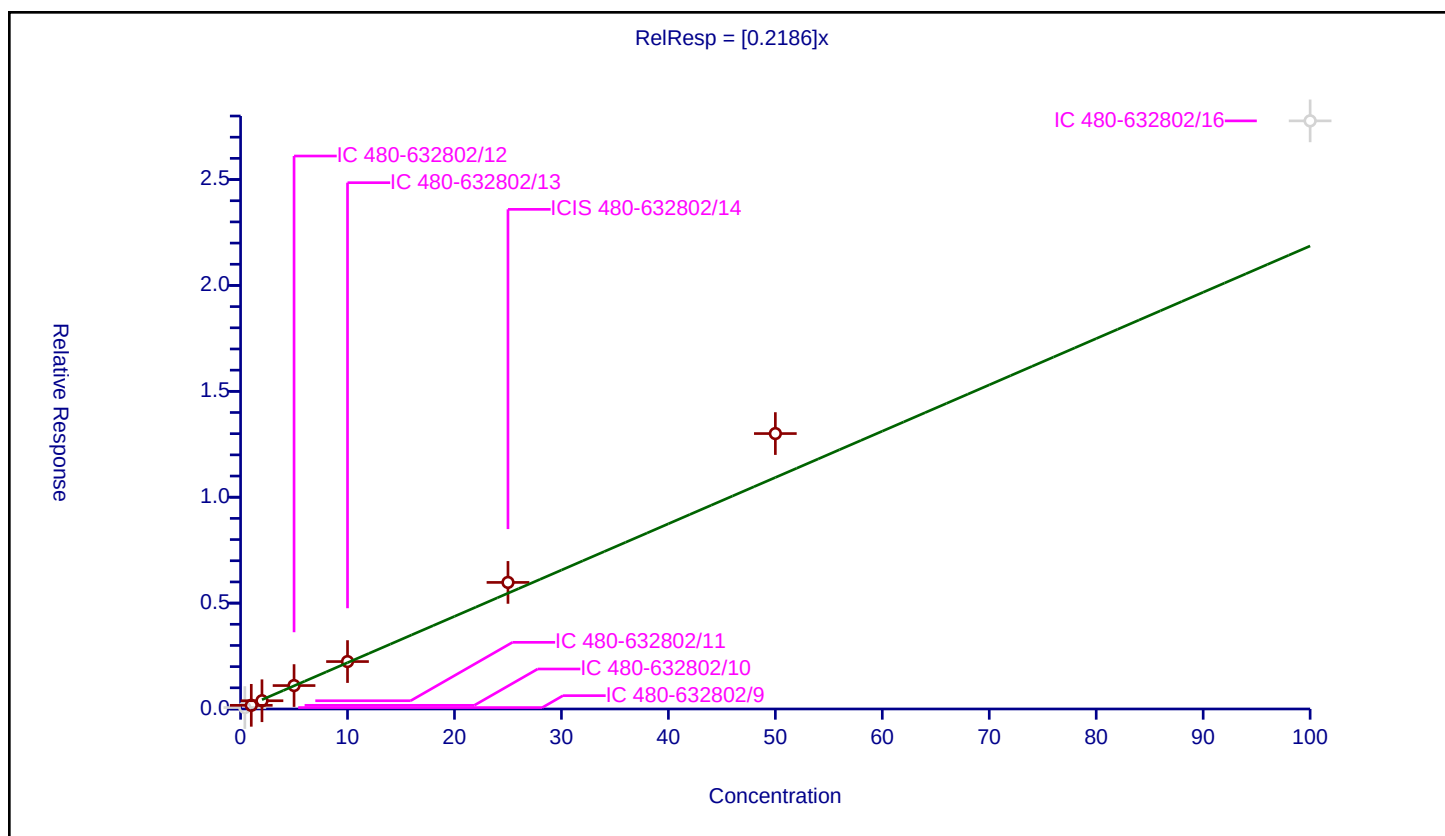
## Curve Coefficients

Intercept: 0  
Slope: 0.2186

## Error Coefficients

Standard Error: 176000  
Relative Standard Error: 14.3  
Correlation Coefficient: 0.998  
Coefficient of Determination (Adjusted): 0.975

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.067861   | 25.0      | 671593.0    | 0.169653 | N    |
| 2  | IC 480-632802/10   | 1.0           | 0.172646   | 25.0      | 681018.0    | 0.172646 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 0.389599   | 25.0      | 668893.0    | 0.194799 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 1.105932   | 25.0      | 672600.0    | 0.221186 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 2.239812   | 25.0      | 654564.0    | 0.223981 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 5.97619    | 25.0      | 679053.0    | 0.239048 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 13.005237  | 25.0      | 677652.0    | 0.260105 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 27.770709  | 25.0      | 636642.0    | 0.277707 | N    |



## Calibration

/ Isopropylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

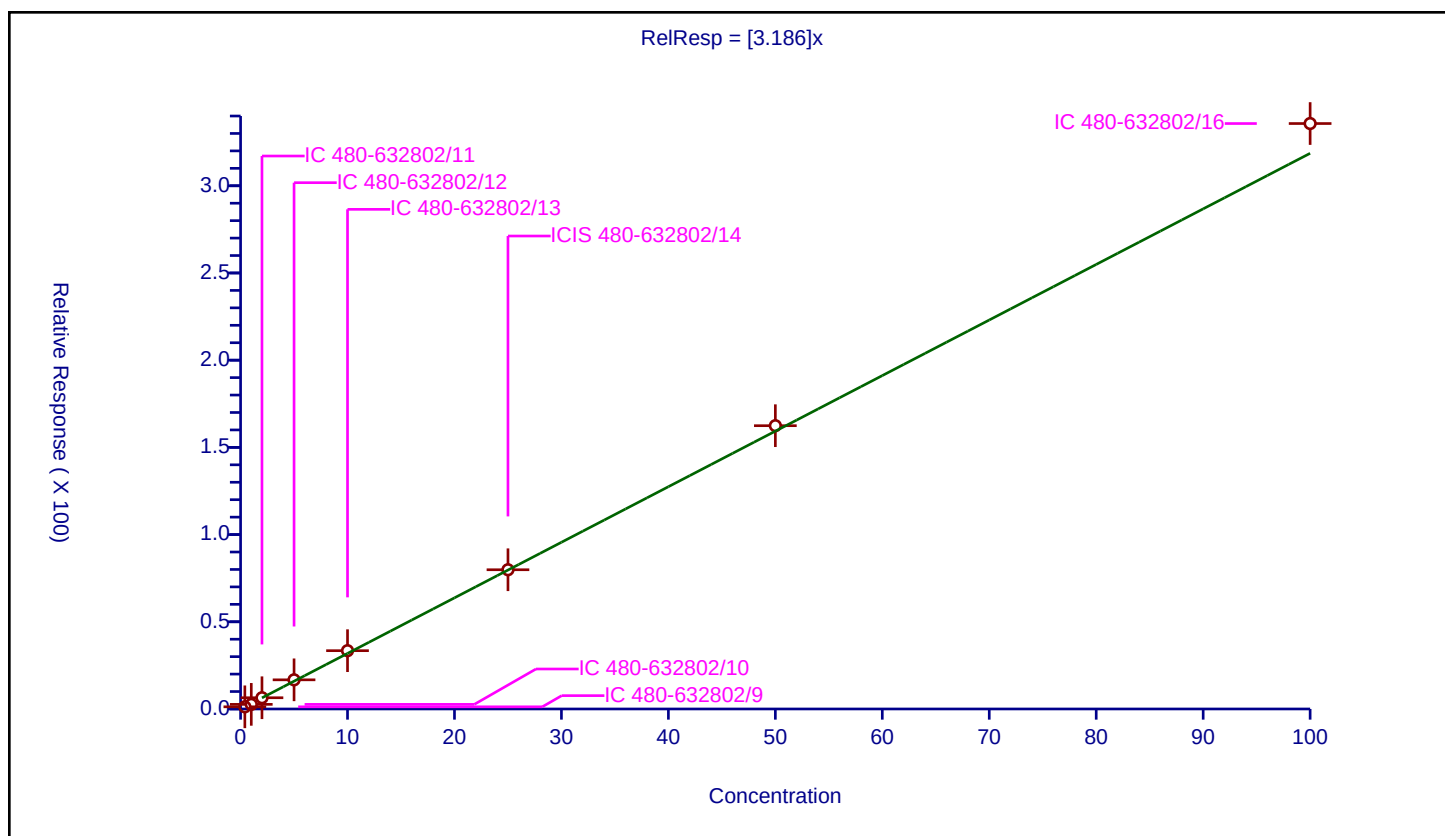
### Curve Coefficients

Intercept: 0  
 Slope: 3.186

### Error Coefficients

Standard Error: 1900000  
 Relative Standard Error: 7.3  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 1.250316   | 25.0      | 360269.0    | 3.125789 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 2.65018    | 25.0      | 366145.0    | 2.65018  | Y    |
| 3  | IC 480-632802/11   | 2.0           | 6.451948   | 25.0      | 360705.0    | 3.225974 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 16.720302  | 25.0      | 360768.0    | 3.34406  | Y    |
| 5  | IC 480-632802/13   | 10.0          | 33.438935  | 25.0      | 340745.0    | 3.343894 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 79.842843  | 25.0      | 363268.0    | 3.193714 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 162.435712 | 25.0      | 352515.0    | 3.248714 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 335.690066 | 25.0      | 319687.0    | 3.356901 | Y    |



## Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

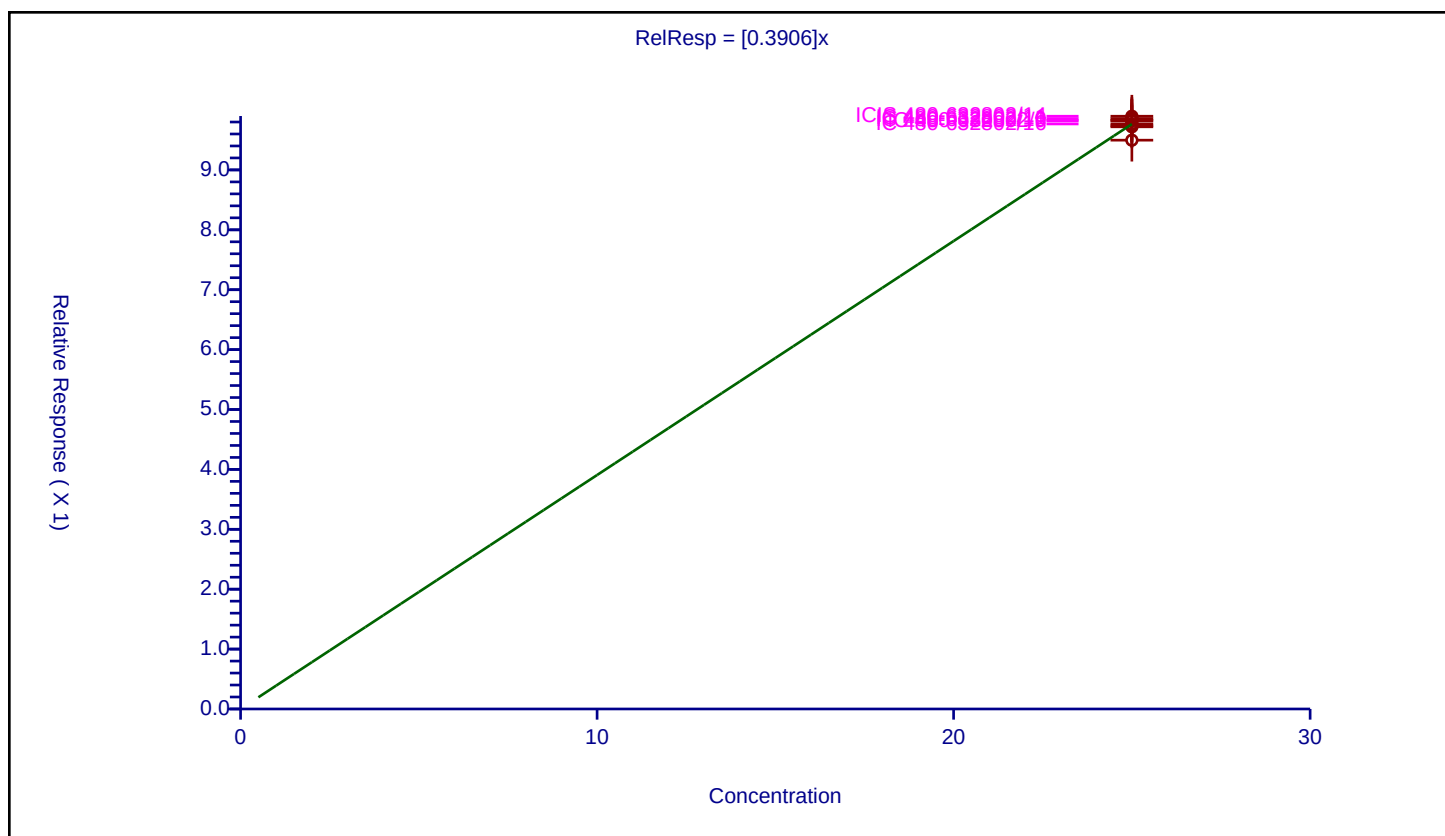
### Curve Coefficients

Intercept: 0  
 Slope: 0.3906

### Error Coefficients

Standard Error: 279000  
 Relative Standard Error: 1.3  
 Correlation Coefficient: NA  
 Coefficient of Determination (Adjusted): 0

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 25.0          | 9.817218   | 25.0      | 671593.0    | 0.392689 | Y    |
| 2  | IC 480-632802/10   | 25.0          | 9.830467   | 25.0      | 681018.0    | 0.393219 | Y    |
| 3  | IC 480-632802/11   | 25.0          | 9.857145   | 25.0      | 668893.0    | 0.394286 | Y    |
| 4  | IC 480-632802/12   | 25.0          | 9.719856   | 25.0      | 672600.0    | 0.388794 | Y    |
| 5  | IC 480-632802/13   | 25.0          | 9.49655    | 25.0      | 654564.0    | 0.379862 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 9.89654    | 25.0      | 679053.0    | 0.395862 | Y    |
| 7  | IC 480-632802/15   | 25.0          | 9.737077   | 25.0      | 677652.0    | 0.389483 | Y    |
| 8  | IC 480-632802/16   | 25.0          | 9.767106   | 25.0      | 636642.0    | 0.390684 | Y    |



# Calibration

/ Bromobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

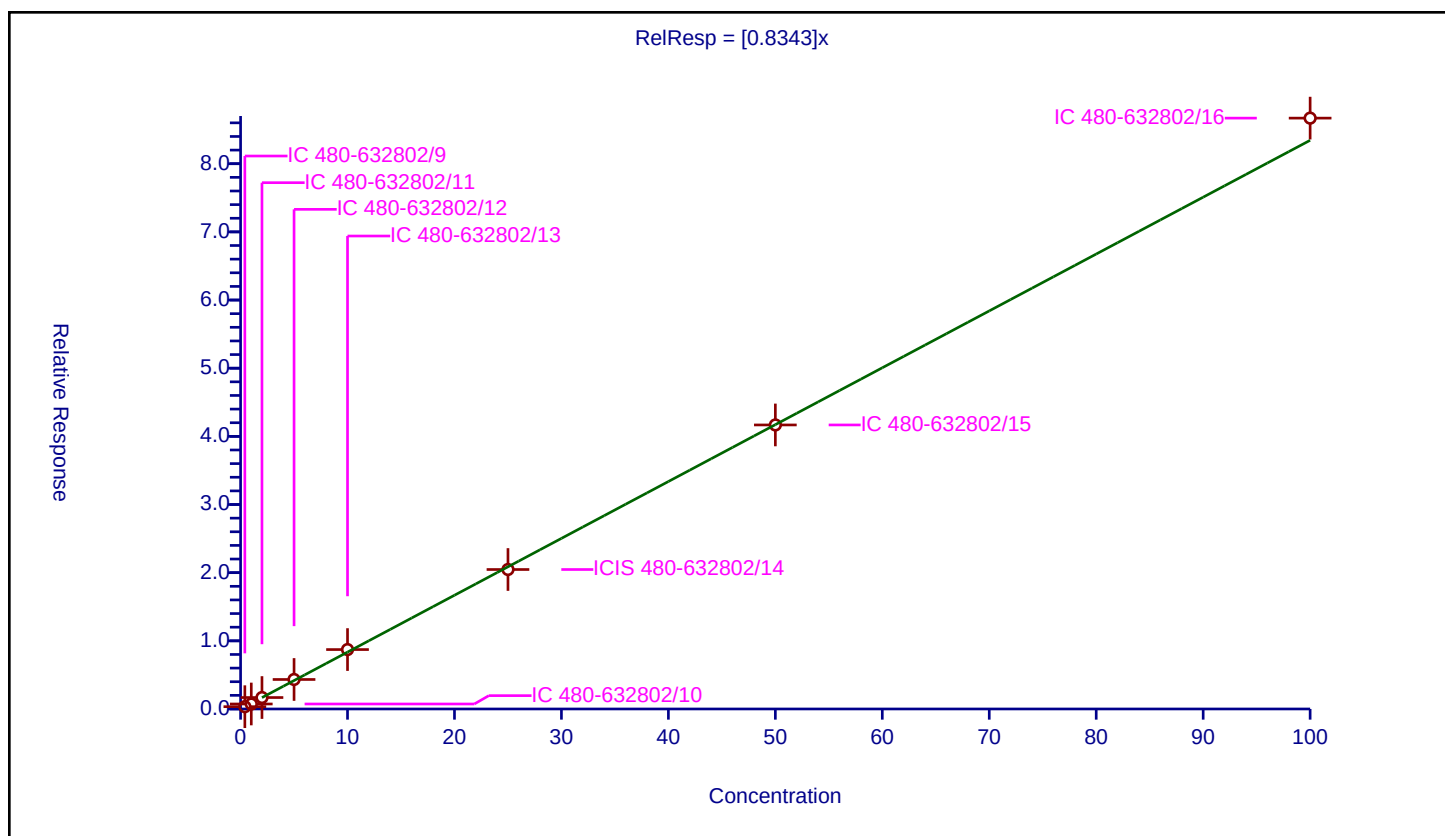
## Curve Coefficients

Intercept: 0  
 Slope: 0.8343

## Error Coefficients

Standard Error: 490000  
 Relative Standard Error: 5.3  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.337109   | 25.0      | 360269.0    | 0.842773 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.735091   | 25.0      | 366145.0    | 0.735091 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 1.680875   | 25.0      | 360705.0    | 0.840437 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 4.329237   | 25.0      | 360768.0    | 0.865847 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 8.717369   | 25.0      | 340745.0    | 0.871737 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 20.463129  | 25.0      | 363268.0    | 0.818525 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 41.672057  | 25.0      | 352515.0    | 0.833441 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 86.690028  | 25.0      | 319687.0    | 0.8669   | Y    |



# Calibration

/ 1,1,2,2-Tetrachloroethane

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

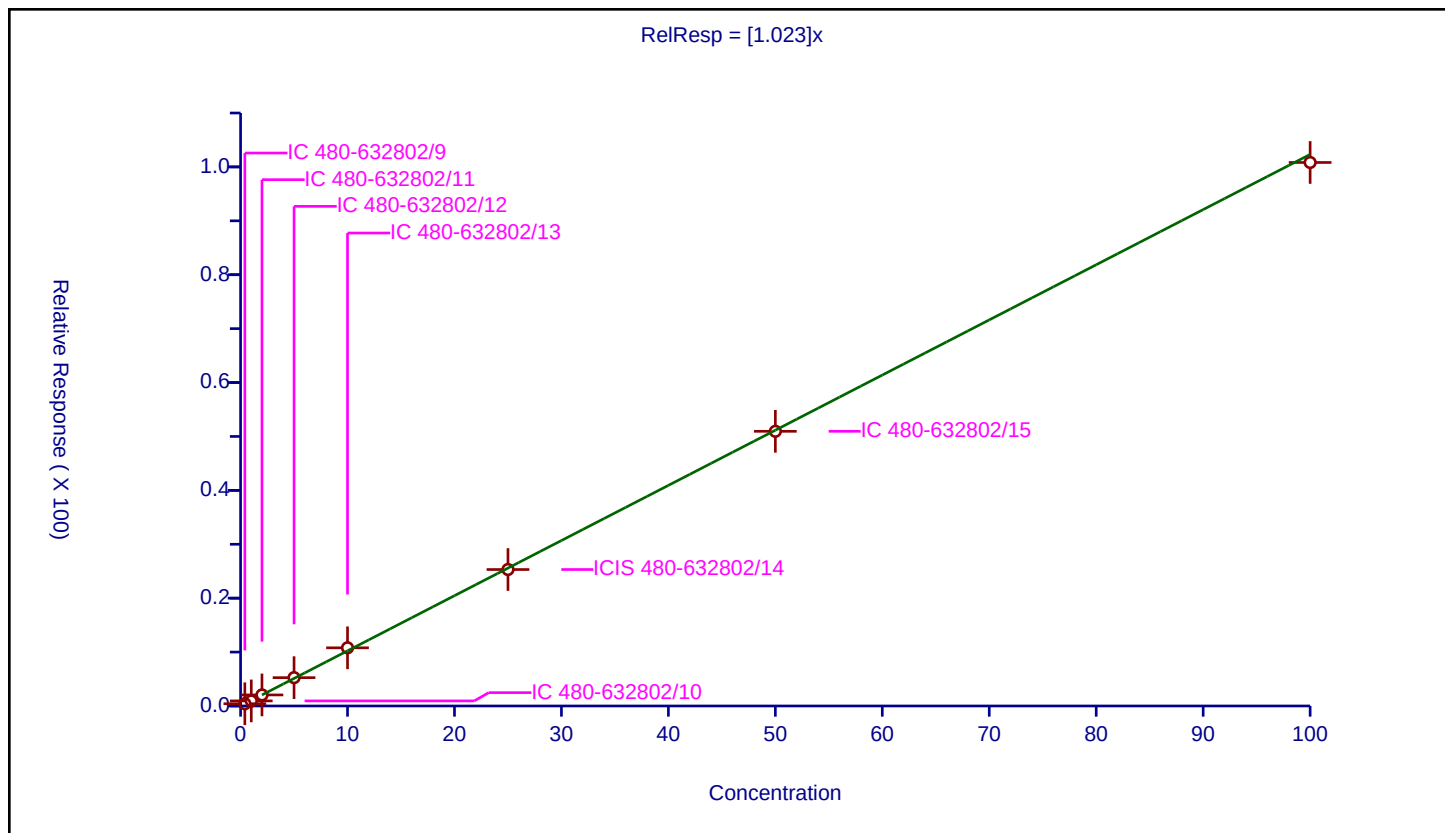
## Curve Coefficients

Intercept: 0  
Slope: 1.023

## Error Coefficients

Standard Error: 578000  
Relative Standard Error: 3.9  
Correlation Coefficient: 0.997  
Coefficient of Determination (Adjusted): 0.998

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.418368   | 25.0      | 360269.0    | 1.04592  | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.943888   | 25.0      | 366145.0    | 0.943888 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.049805   | 25.0      | 360705.0    | 1.024903 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 5.258365   | 25.0      | 360768.0    | 1.051673 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 10.789227  | 25.0      | 340745.0    | 1.078923 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 25.314781  | 25.0      | 363268.0    | 1.012591 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 50.954924  | 25.0      | 352515.0    | 1.019098 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 100.825417 | 25.0      | 319687.0    | 1.008254 | Y    |





## Calibration

/ N-Propylbenzene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

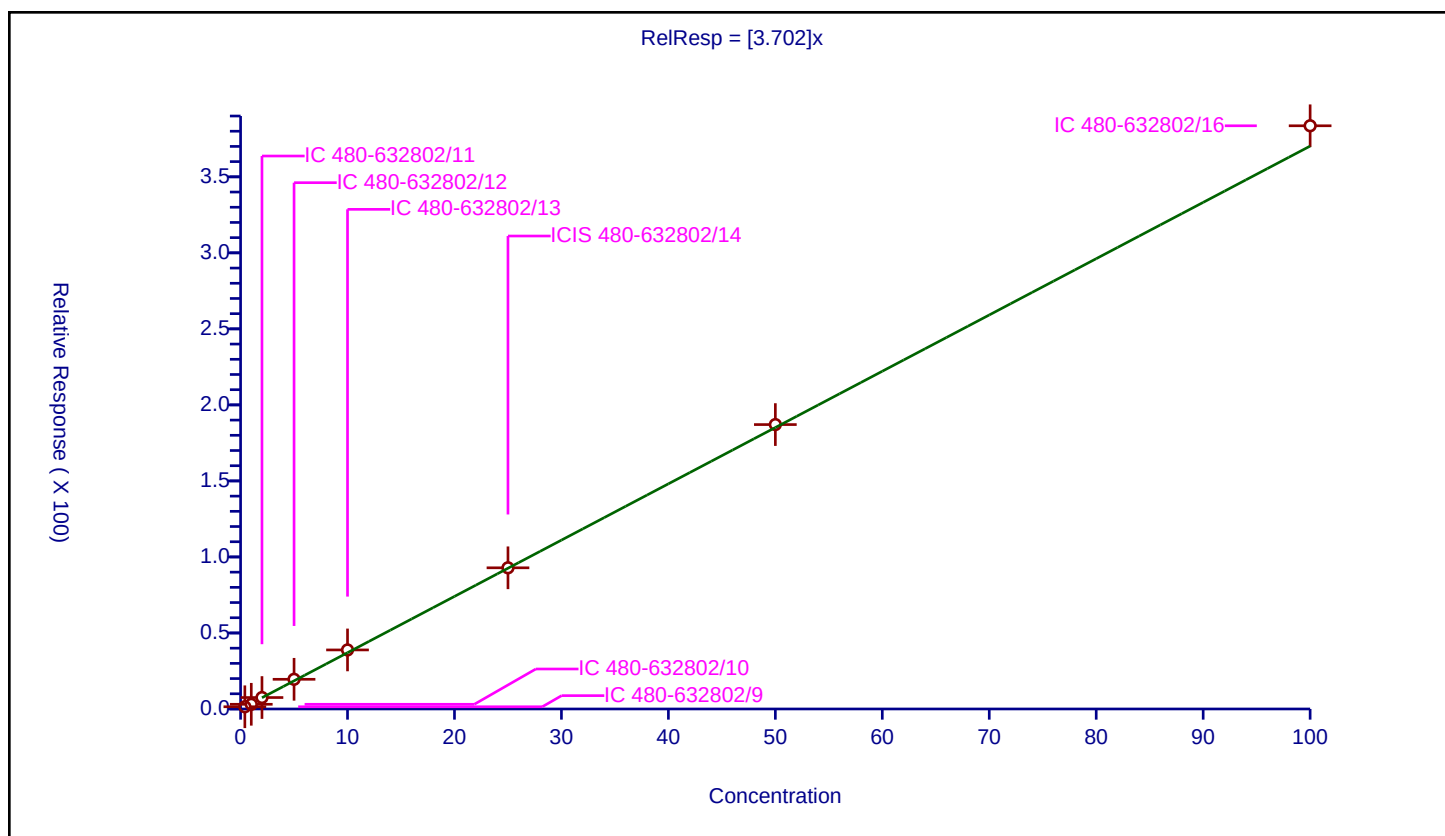
## Curve Coefficients

Intercept: 0  
Slope: 3.702

## Error Coefficients

Standard Error: 2180000  
Relative Standard Error: 6.9  
Correlation Coefficient: 0.998  
Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 1.467584   | 25.0      | 360269.0    | 3.66896  | Y    |
| 2  | IC 480-632802/10   | 1.0           | 3.102869   | 25.0      | 366145.0    | 3.102869 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 7.528659   | 25.0      | 360705.0    | 3.76433  | Y    |
| 4  | IC 480-632802/12   | 5.0           | 19.530904  | 25.0      | 360768.0    | 3.906181 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 38.835933  | 25.0      | 340745.0    | 3.883593 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 92.857271  | 25.0      | 363268.0    | 3.714291 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 187.064309 | 25.0      | 352515.0    | 3.741286 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 383.580659 | 25.0      | 319687.0    | 3.835807 | Y    |



## Calibration

/ trans-1,4-Dichloro-2-butene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

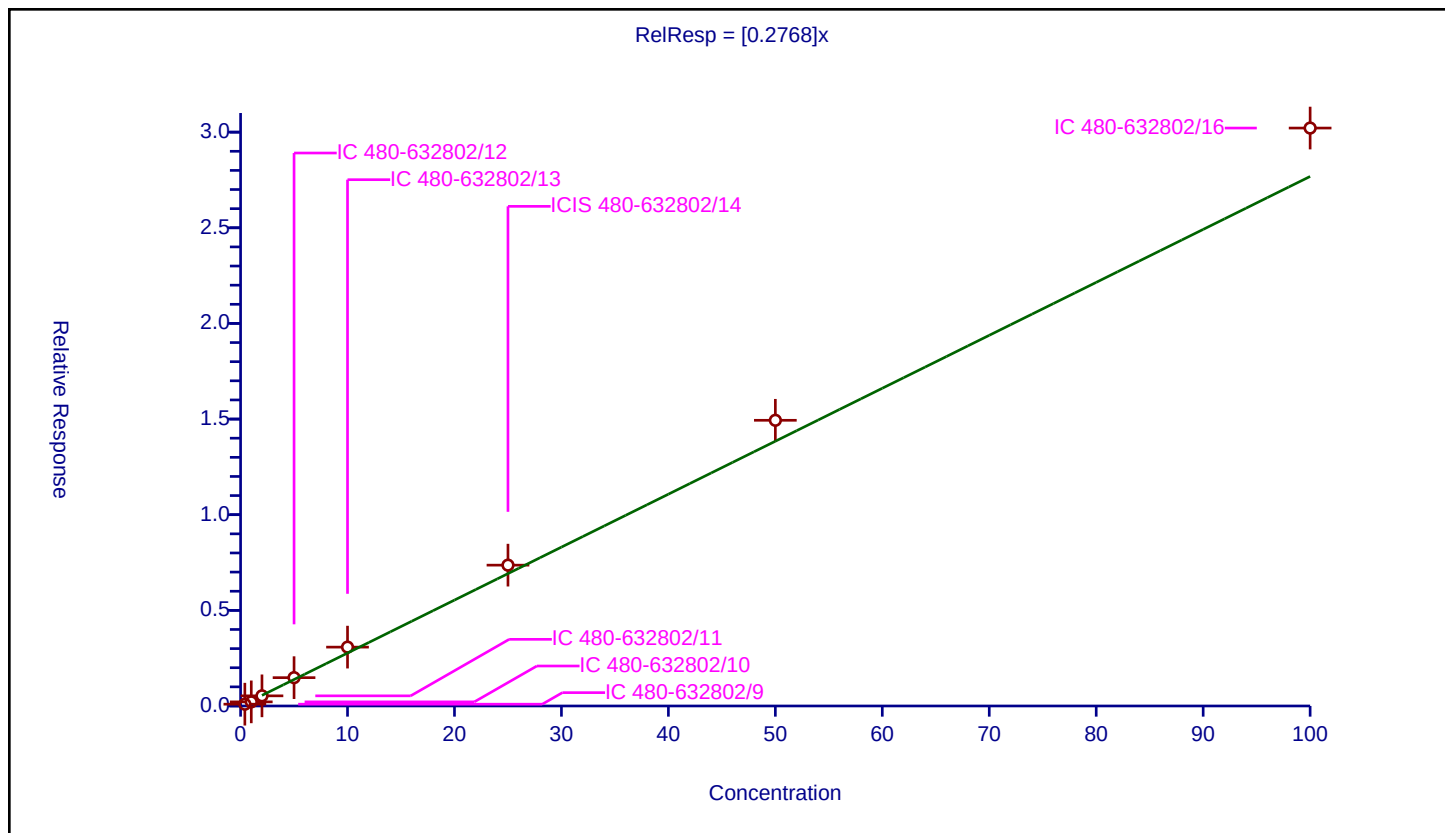
## Curve Coefficients

Intercept: 0  
Slope: 0.2768

## Error Coefficients

Standard Error: 172000  
Relative Standard Error: 12.6  
Correlation Coefficient: 0.998  
Coefficient of Determination (Adjusted): 0.982

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.093749   | 25.0      | 360269.0    | 0.234373 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.21542    | 25.0      | 366145.0    | 0.21542  | Y    |
| 3  | IC 480-632802/11   | 2.0           | 0.530974   | 25.0      | 360705.0    | 0.265487 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 1.481492   | 25.0      | 360768.0    | 0.296298 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 3.077081   | 25.0      | 340745.0    | 0.307708 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 7.362952   | 25.0      | 363268.0    | 0.294518 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 14.935535  | 25.0      | 352515.0    | 0.298711 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 30.214084  | 25.0      | 319687.0    | 0.302141 | Y    |



# Calibration

/ 1,2,3-Trichloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

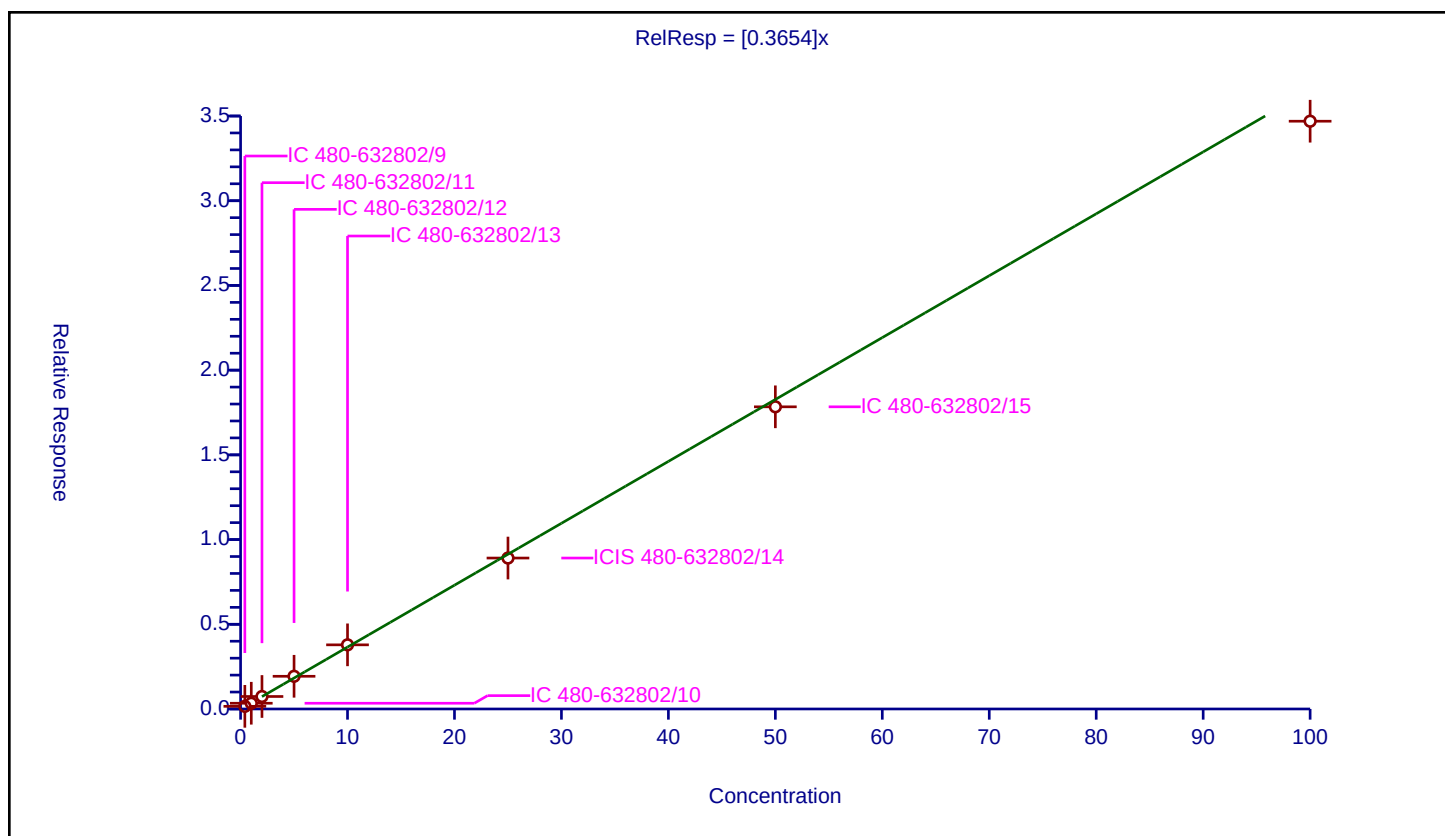
## Curve Coefficients

Intercept: 0  
 Slope: 0.3654

## Error Coefficients

Standard Error: 200000  
 Relative Standard Error: 5.1  
 Correlation Coefficient: 0.996  
 Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.156203   | 25.0      | 360269.0    | 0.390507 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.3388     | 25.0      | 366145.0    | 0.3388   | Y    |
| 3  | IC 480-632802/11   | 2.0           | 0.737514   | 25.0      | 360705.0    | 0.368757 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 1.930465   | 25.0      | 360768.0    | 0.386093 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 3.786556   | 25.0      | 340745.0    | 0.378656 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 8.909331   | 25.0      | 363268.0    | 0.356373 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 17.83605   | 25.0      | 352515.0    | 0.356721 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 34.693466  | 25.0      | 319687.0    | 0.346935 | Y    |



## Calibration

## / 2-Chlorotoluene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

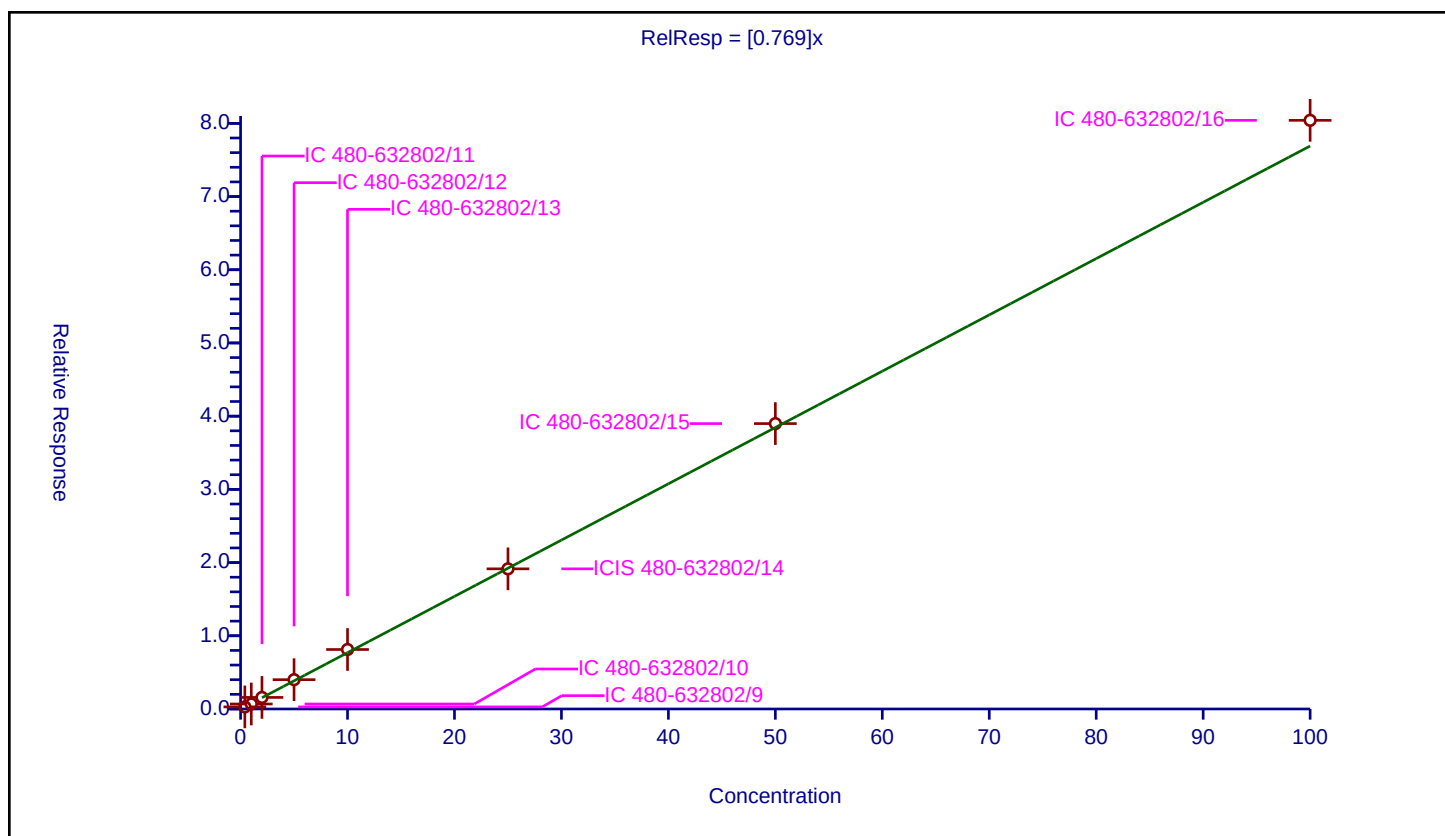
## Curve Coefficients

Intercept: 0  
Slope: 0.769

## Error Coefficients

Standard Error: 456000  
Relative Standard Error: 6.0  
Correlation Coefficient: 0.999  
Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.28673    | 25.0      | 360269.0    | 0.716825 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.682858   | 25.0      | 366145.0    | 0.682858 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 1.579476   | 25.0      | 360705.0    | 0.789738 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 4.005206   | 25.0      | 360768.0    | 0.801041 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 8.123157   | 25.0      | 340745.0    | 0.812316 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 19.143511  | 25.0      | 363268.0    | 0.76574  | Y    |
| 7  | IC 480-632802/15   | 50.0          | 38.983731  | 25.0      | 352515.0    | 0.779675 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 80.40865   | 25.0      | 319687.0    | 0.804086 | Y    |



## Calibration

/ 1,3,5-Trimethylbenzene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

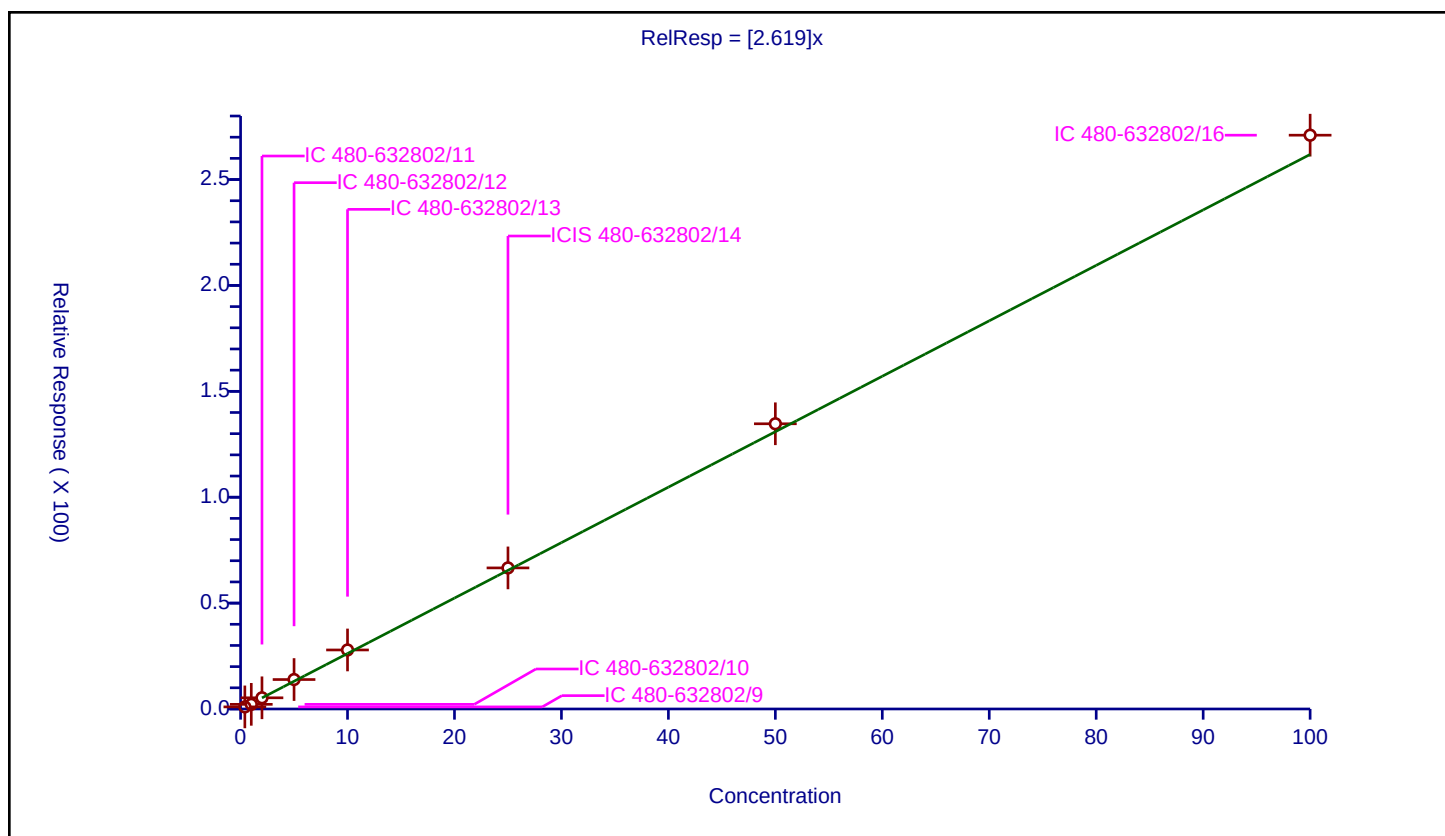
## Curve Coefficients

Intercept: 0  
Slope: 2.619

## Error Coefficients

Standard Error: 1550000  
Relative Standard Error: 7.5  
Correlation Coefficient: 0.998  
Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.985999   | 25.0      | 360269.0    | 2.464998 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 2.202952   | 25.0      | 366145.0    | 2.202952 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 5.285483   | 25.0      | 360705.0    | 2.642741 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 13.910394  | 25.0      | 360768.0    | 2.782079 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 27.877885  | 25.0      | 340745.0    | 2.787789 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 66.613698  | 25.0      | 363268.0    | 2.664548 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 134.68051  | 25.0      | 352515.0    | 2.69361  | Y    |
| 8  | IC 480-632802/16   | 100.0         | 270.945957 | 25.0      | 319687.0    | 2.70946  | Y    |



# Calibration

/ 4-Chlorotoluene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

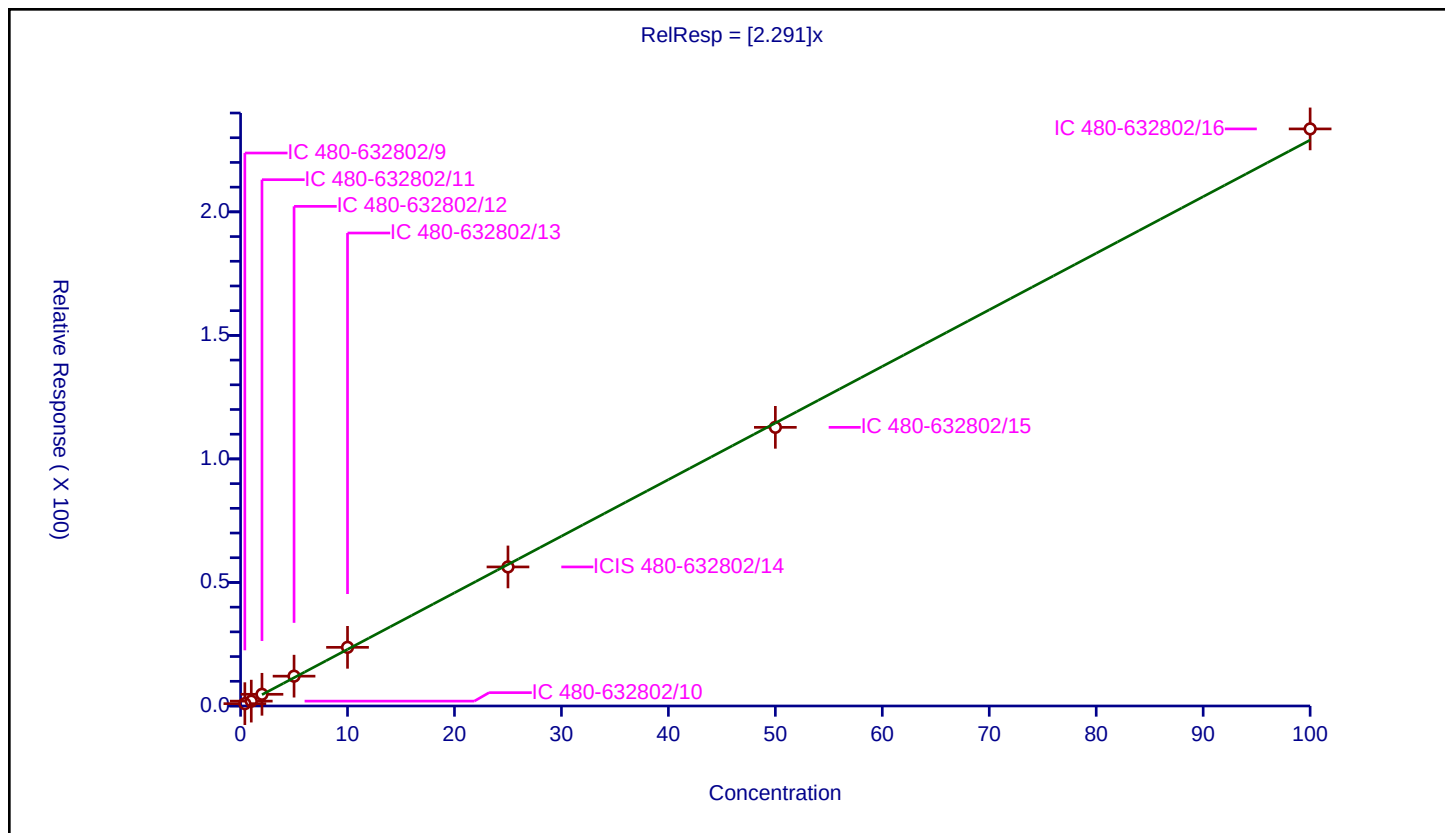
## Curve Coefficients

Intercept: 0  
 Slope: 2.291

## Error Coefficients

Standard Error: 1320000  
 Relative Standard Error: 6.2  
 Correlation Coefficient: 0.999  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.942698   | 25.0      | 360269.0    | 2.356746 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.968482   | 25.0      | 366145.0    | 1.968482 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 4.737667   | 25.0      | 360705.0    | 2.368833 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 12.069599  | 25.0      | 360768.0    | 2.41392  | Y    |
| 5  | IC 480-632802/13   | 10.0          | 23.737252  | 25.0      | 340745.0    | 2.373725 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 56.279317  | 25.0      | 363268.0    | 2.251173 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 112.786832 | 25.0      | 352515.0    | 2.255737 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 233.565253 | 25.0      | 319687.0    | 2.335653 | Y    |



## Calibration

/ tert-Butylbenzene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

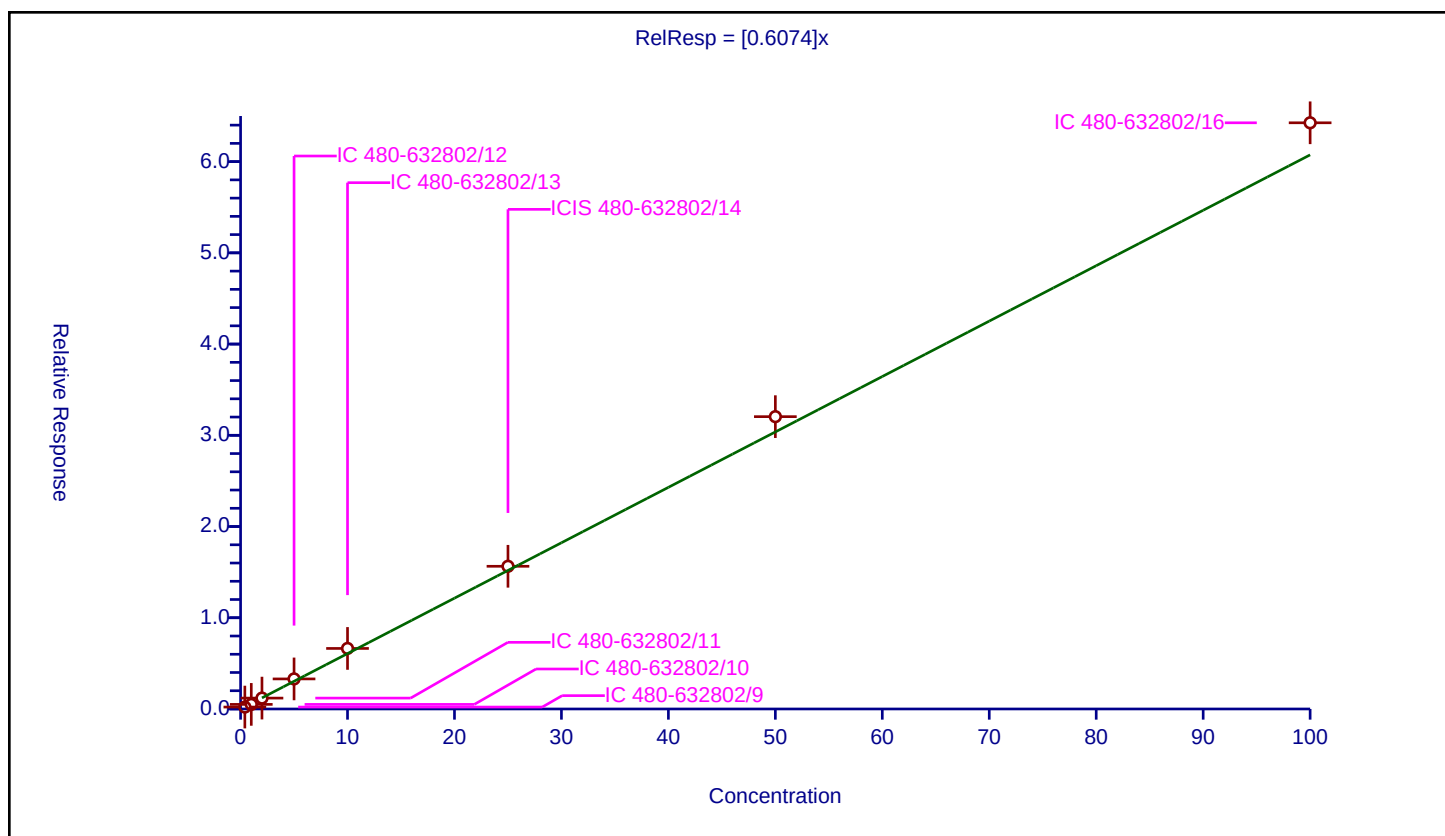
## Curve Coefficients

Intercept: 0  
Slope: 0.6074

## Error Coefficients

Standard Error: 367000  
Relative Standard Error: 10.0  
Correlation Coefficient: 0.998  
Coefficient of Determination (Adjusted): 0.988

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.211023   | 25.0      | 360269.0    | 0.527557 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.502875   | 25.0      | 366145.0    | 0.502875 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 1.193219   | 25.0      | 360705.0    | 0.596609 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 3.296509   | 25.0      | 360768.0    | 0.659302 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 6.636928   | 25.0      | 340745.0    | 0.663693 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 15.643753  | 25.0      | 363268.0    | 0.62575  | Y    |
| 7  | IC 480-632802/15   | 50.0          | 32.044239  | 25.0      | 352515.0    | 0.640885 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 64.256132  | 25.0      | 319687.0    | 0.642561 | Y    |



# Calibration

/ 1,2,4-Trimethylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

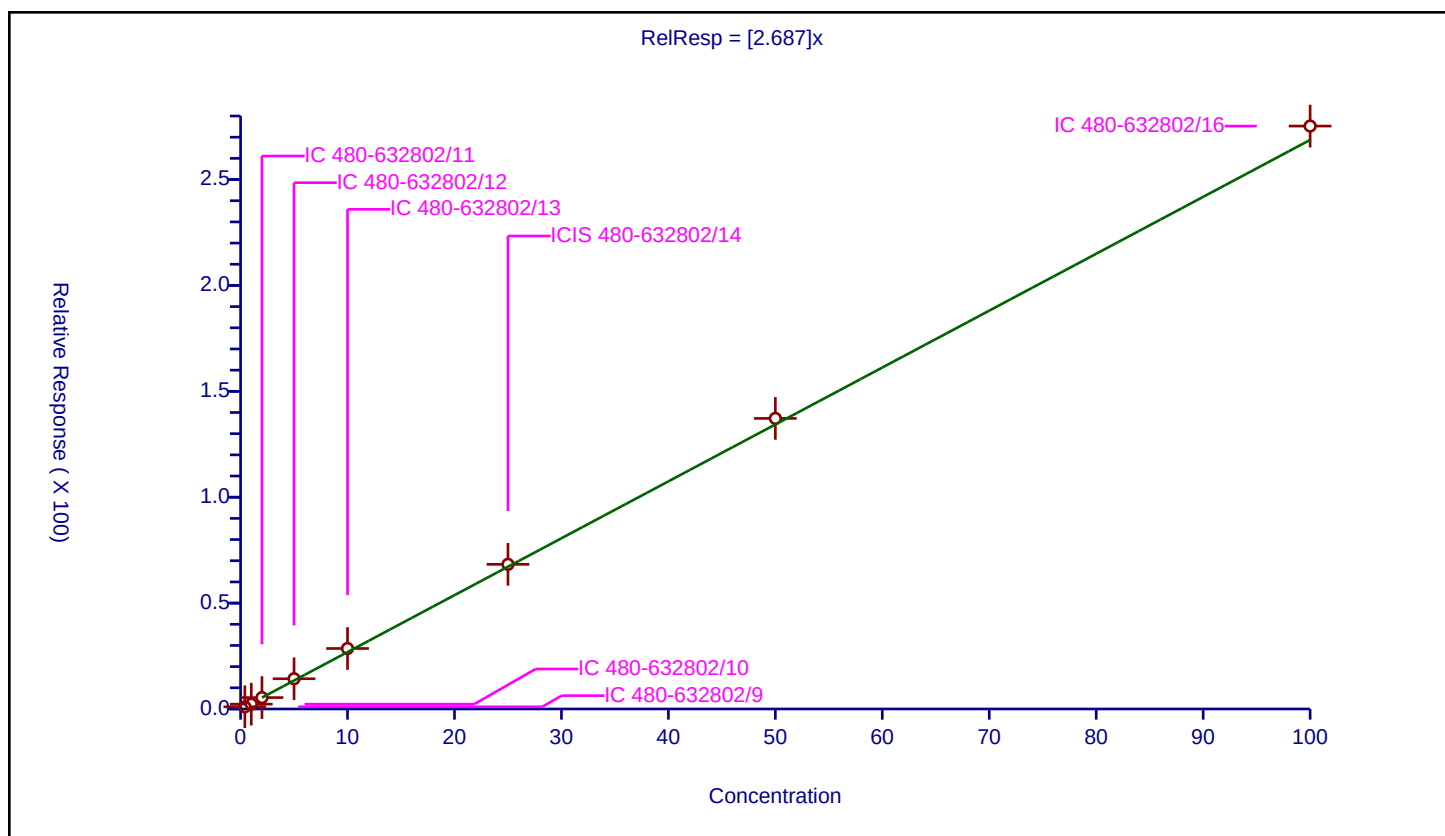
## Curve Coefficients

Intercept: 0  
 Slope: 2.687

## Error Coefficients

Standard Error: 1570000  
 Relative Standard Error: 6.9  
 Correlation Coefficient: 0.997  
 Coefficient of Determination (Adjusted): 0.994

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 1.034088   | 25.0      | 360269.0    | 2.585221 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 2.282566   | 25.0      | 366145.0    | 2.282566 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 5.379881   | 25.0      | 360705.0    | 2.689941 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 14.26935   | 25.0      | 360768.0    | 2.85387  | Y    |
| 5  | IC 480-632802/13   | 10.0          | 28.558746  | 25.0      | 340745.0    | 2.855875 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 68.2993    | 25.0      | 363268.0    | 2.731972 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 137.208771 | 25.0      | 352515.0    | 2.744175 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 275.254155 | 25.0      | 319687.0    | 2.752542 | Y    |





# Calibration

/ sec-Butylbenzene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

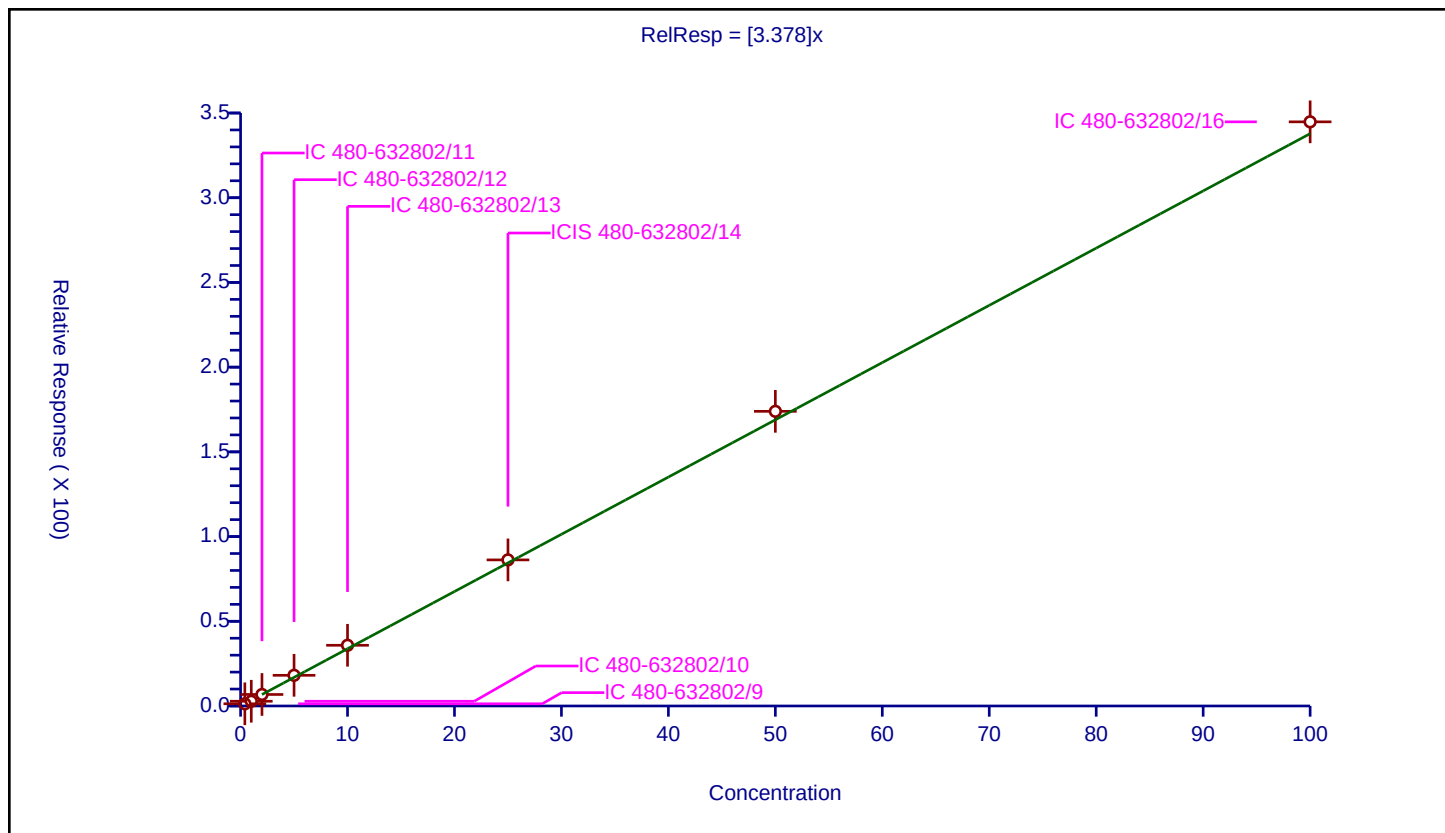
## Curve Coefficients

Intercept: 0  
Slope: 3.378

## Error Coefficients

Standard Error: 1980000  
Relative Standard Error: 7.8  
Correlation Coefficient: 0.997  
Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 1.304234   | 25.0      | 360269.0    | 3.260584 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 2.787079   | 25.0      | 366145.0    | 2.787079 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 6.794264   | 25.0      | 360705.0    | 3.397132 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 18.102978  | 25.0      | 360768.0    | 3.620596 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 35.83853   | 25.0      | 340745.0    | 3.583853 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 86.231928  | 25.0      | 363268.0    | 3.449277 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 173.920188 | 25.0      | 352515.0    | 3.478404 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 344.795925 | 25.0      | 319687.0    | 3.447959 | Y    |



## Calibration

## / 4-Isopropyltoluene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

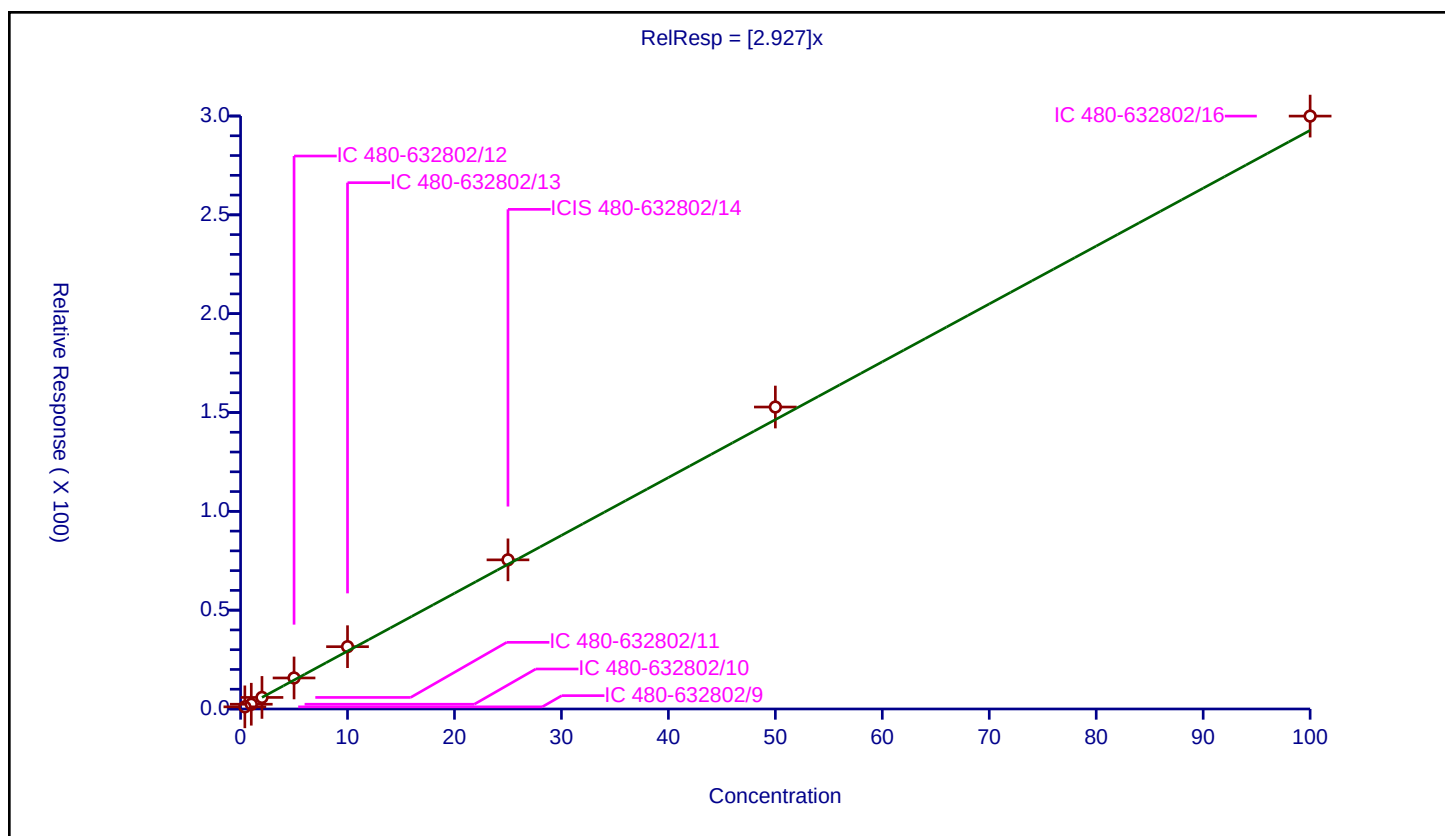
## Curve Coefficients

Intercept: 0  
Slope: 2.927

## Error Coefficients

Standard Error: 1720000  
Relative Standard Error: 8.6  
Correlation Coefficient: 0.996  
Coefficient of Determination (Adjusted): 0.991

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 1.092031   | 25.0      | 360269.0    | 2.730078 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 2.402737   | 25.0      | 366145.0    | 2.402737 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 5.847091   | 25.0      | 360705.0    | 2.923546 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 15.691109  | 25.0      | 360768.0    | 3.138222 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 31.522766  | 25.0      | 340745.0    | 3.152277 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 75.454898  | 25.0      | 363268.0    | 3.018196 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 152.764989 | 25.0      | 352515.0    | 3.0553   | Y    |
| 8  | IC 480-632802/16   | 100.0         | 299.955582 | 25.0      | 319687.0    | 2.999556 | Y    |



## Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

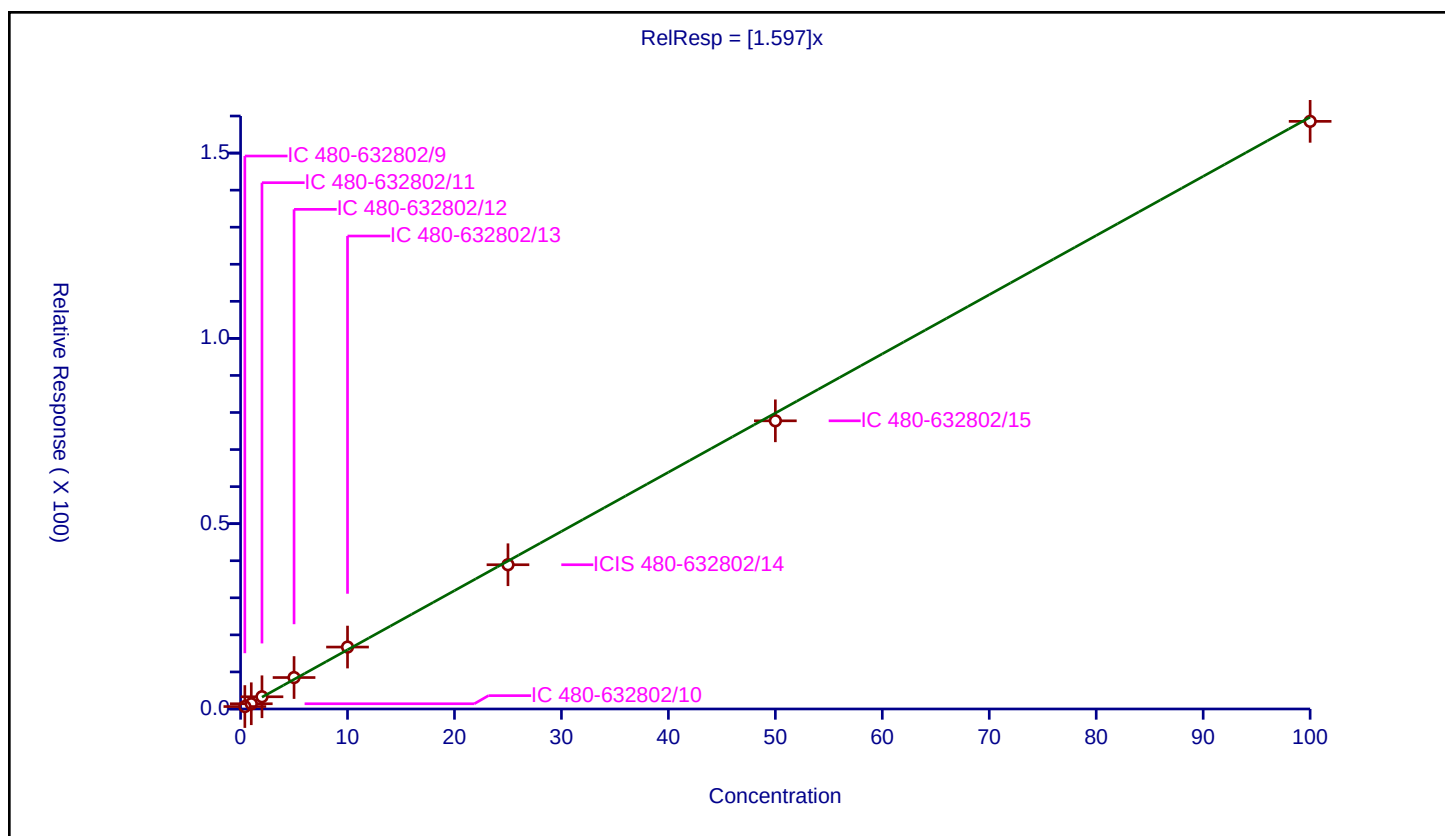
## Curve Coefficients

Intercept: 0  
Slope: 1.597

## Error Coefficients

Standard Error: 903000  
Relative Standard Error: 5.7  
Correlation Coefficient: 0.998  
Coefficient of Determination (Adjusted): 0.996

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.659021   | 25.0      | 360269.0    | 1.647554 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.412897   | 25.0      | 366145.0    | 1.412897 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.297778   | 25.0      | 360705.0    | 1.648889 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 8.486687   | 25.0      | 360768.0    | 1.697337 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 16.709636  | 25.0      | 340745.0    | 1.670964 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 38.924912  | 25.0      | 363268.0    | 1.556996 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 77.759953  | 25.0      | 352515.0    | 1.555199 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 158.559701 | 25.0      | 319687.0    | 1.585597 | Y    |



# Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

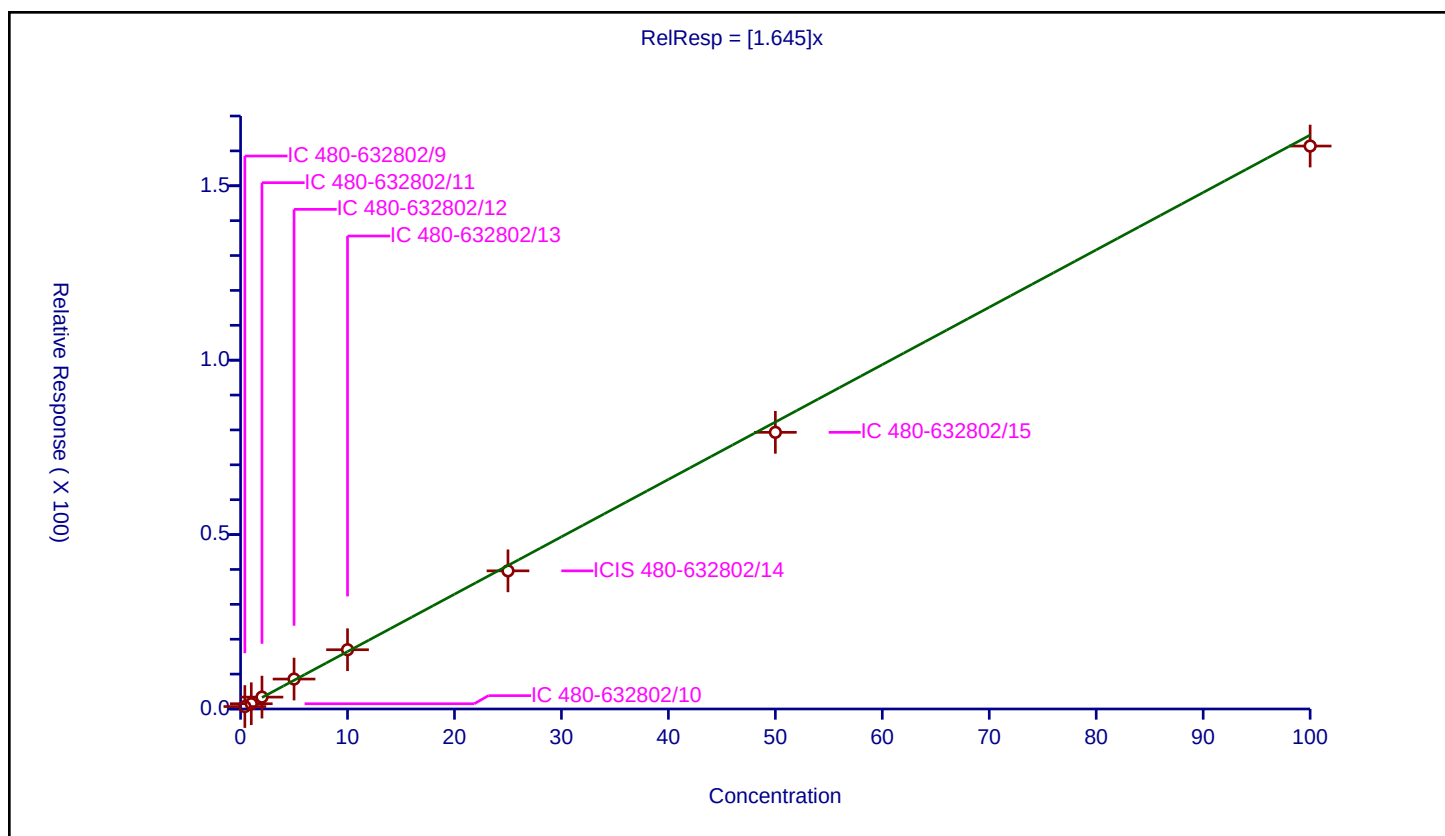
## Curve Coefficients

Intercept: 0  
 Slope: 1.645

## Error Coefficients

Standard Error: 919000  
 Relative Standard Error: 5.0  
 Correlation Coefficient: 0.998  
 Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.698645   | 25.0      | 360269.0    | 1.746612 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.511764   | 25.0      | 366145.0    | 1.511764 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.40687    | 25.0      | 360705.0    | 1.703435 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 8.583356   | 25.0      | 360768.0    | 1.716671 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 16.994013  | 25.0      | 340745.0    | 1.699401 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 39.607053  | 25.0      | 363268.0    | 1.584282 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 79.315065  | 25.0      | 352515.0    | 1.586301 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 161.394192 | 25.0      | 319687.0    | 1.613942 | Y    |



# Calibration

/ n-Butylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

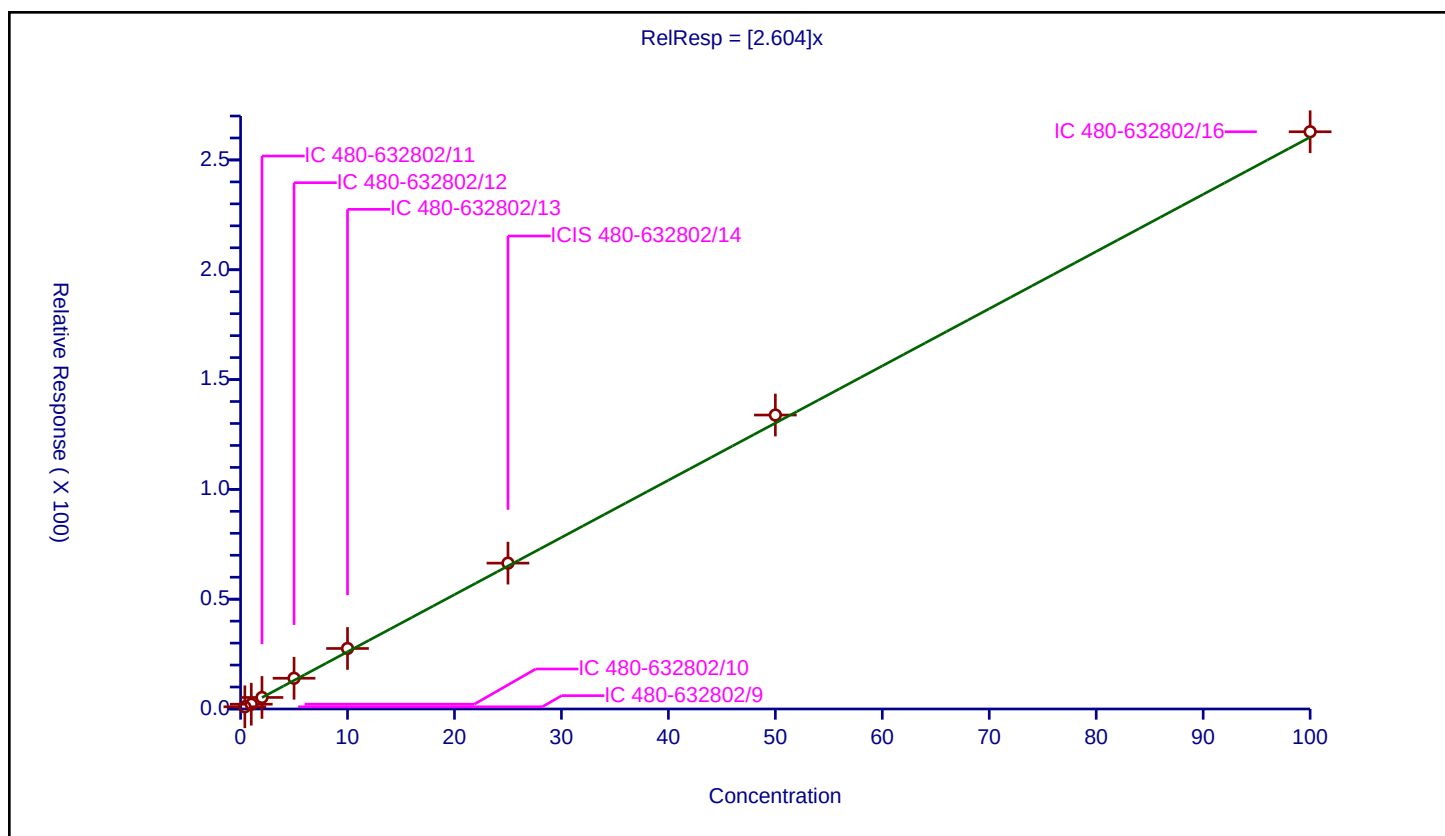
## Curve Coefficients

Intercept: 0  
 Slope: 2.604

## Error Coefficients

Standard Error: 1510000  
 Relative Standard Error: 7.4  
 Correlation Coefficient: 0.996  
 Coefficient of Determination (Adjusted): 0.993

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 1.002862   | 25.0      | 360269.0    | 2.507154 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 2.181445   | 25.0      | 366145.0    | 2.181445 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 5.247779   | 25.0      | 360705.0    | 2.623889 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 13.993827  | 25.0      | 360768.0    | 2.798765 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 27.558585  | 25.0      | 340745.0    | 2.755858 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 66.417425  | 25.0      | 363268.0    | 2.656697 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 133.844588 | 25.0      | 352515.0    | 2.676892 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 262.830753 | 25.0      | 319687.0    | 2.628308 | Y    |



## Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

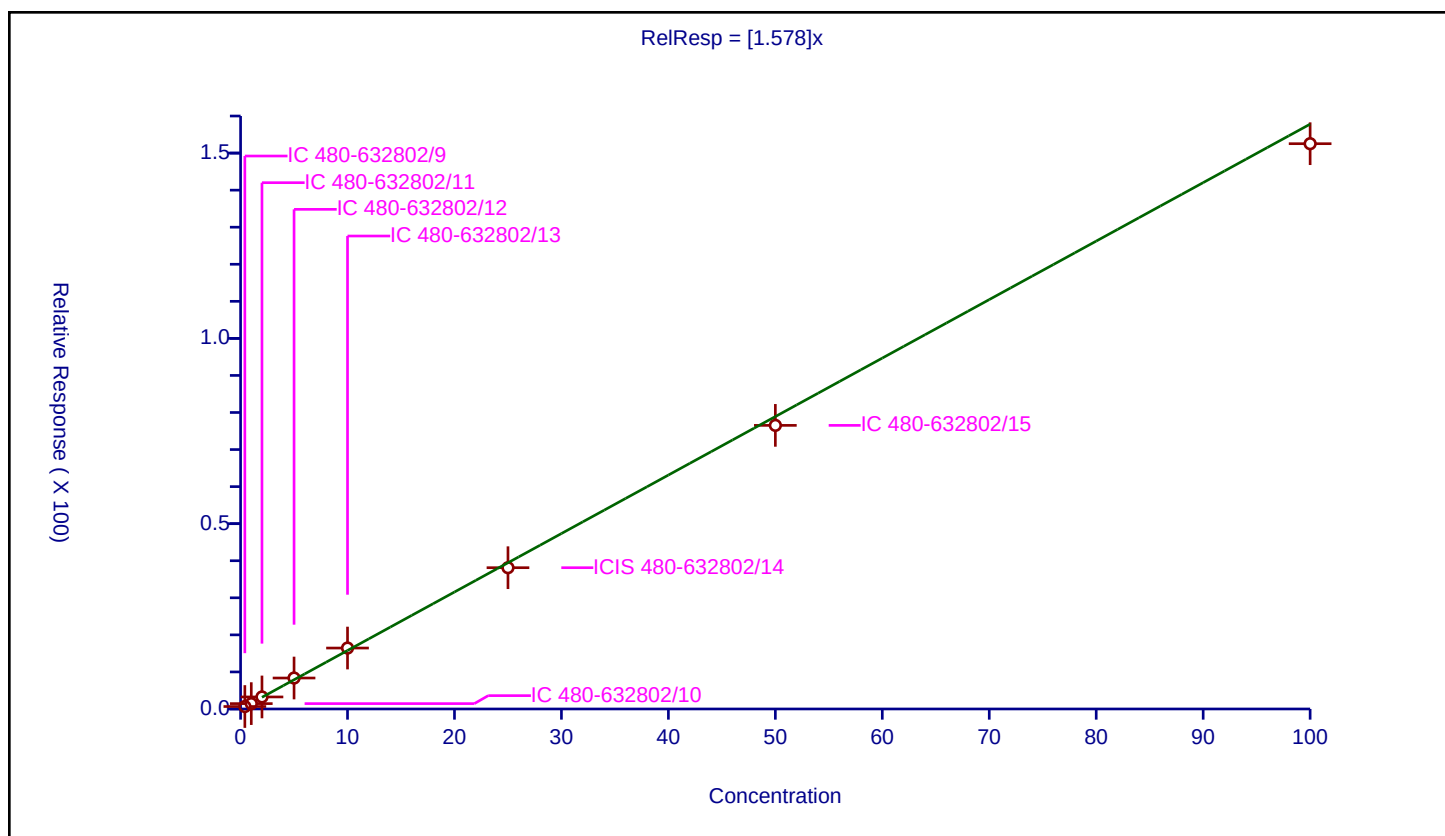
## Curve Coefficients

Intercept: 0  
Slope: 1.578

## Error Coefficients

Standard Error: 874000  
Relative Standard Error: 5.2  
Correlation Coefficient: 0.997  
Coefficient of Determination (Adjusted): 0.997

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.662977   | 25.0      | 360269.0    | 1.657442 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.447241   | 25.0      | 366145.0    | 1.447241 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 3.24649    | 25.0      | 360705.0    | 1.623245 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 8.35433    | 25.0      | 360768.0    | 1.670866 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 16.44815   | 25.0      | 340745.0    | 1.644815 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 38.122543  | 25.0      | 363268.0    | 1.524902 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 76.528729  | 25.0      | 352515.0    | 1.530575 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 152.5306   | 25.0      | 319687.0    | 1.525306 | Y    |



# Calibration

/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

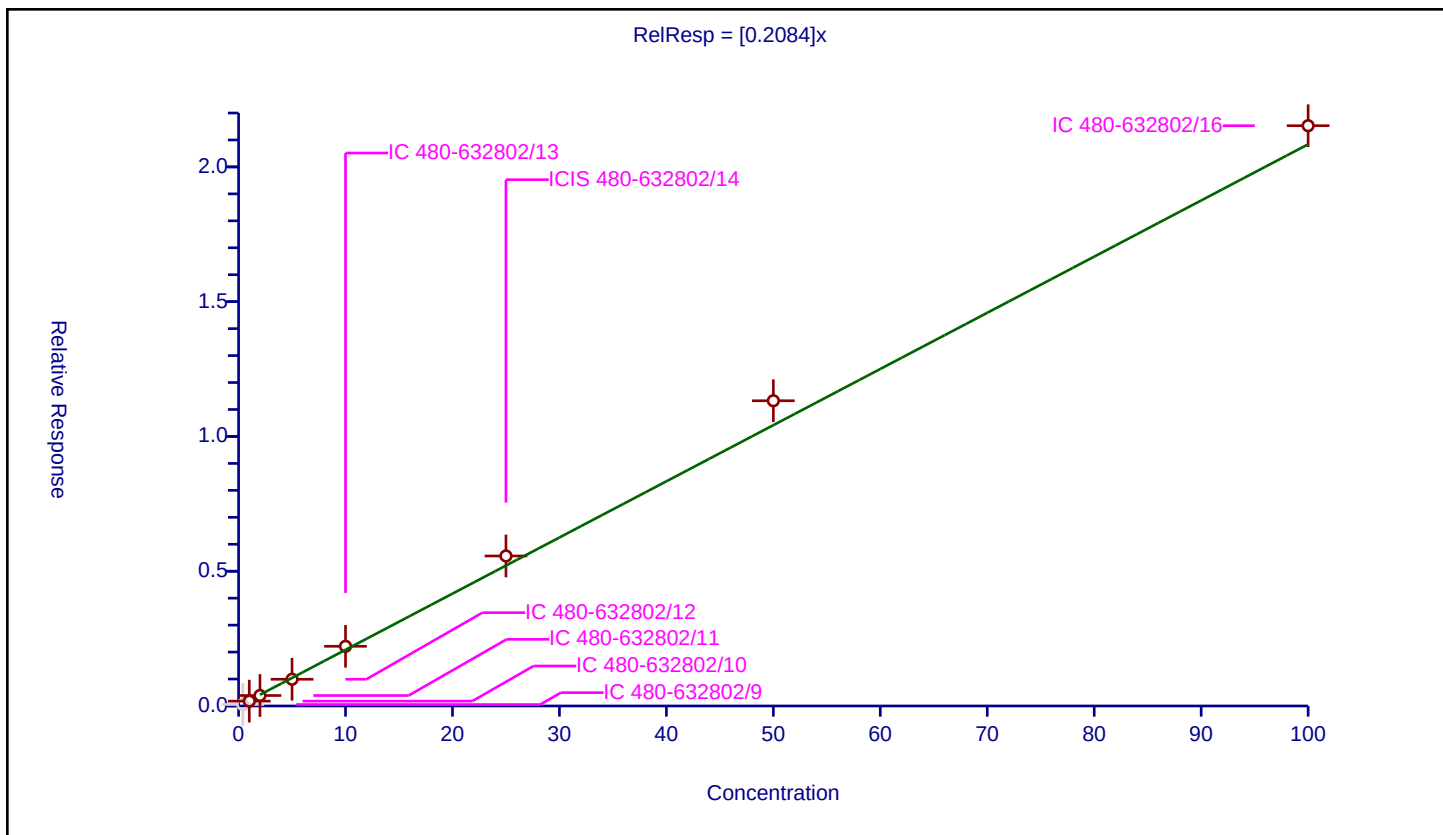
## Curve Coefficients

Intercept: 0  
 Slope: 0.2084

## Error Coefficients

Standard Error: 135000  
 Relative Standard Error: 8.4  
 Correlation Coefficient: 0.993  
 Coefficient of Determination (Adjusted): 0.991

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.055167   | 25.0      | 360269.0    | 0.137918 | N    |
| 2  | IC 480-632802/10   | 1.0           | 0.180256   | 25.0      | 366145.0    | 0.180256 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 0.388406   | 25.0      | 360705.0    | 0.194203 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 0.991981   | 25.0      | 360768.0    | 0.198396 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 2.214413   | 25.0      | 340745.0    | 0.221441 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 5.566138   | 25.0      | 363268.0    | 0.222646 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 11.324341  | 25.0      | 352515.0    | 0.226487 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 21.529496  | 25.0      | 319687.0    | 0.215295 | Y    |



## Calibration

/ 1,2,4-Trichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

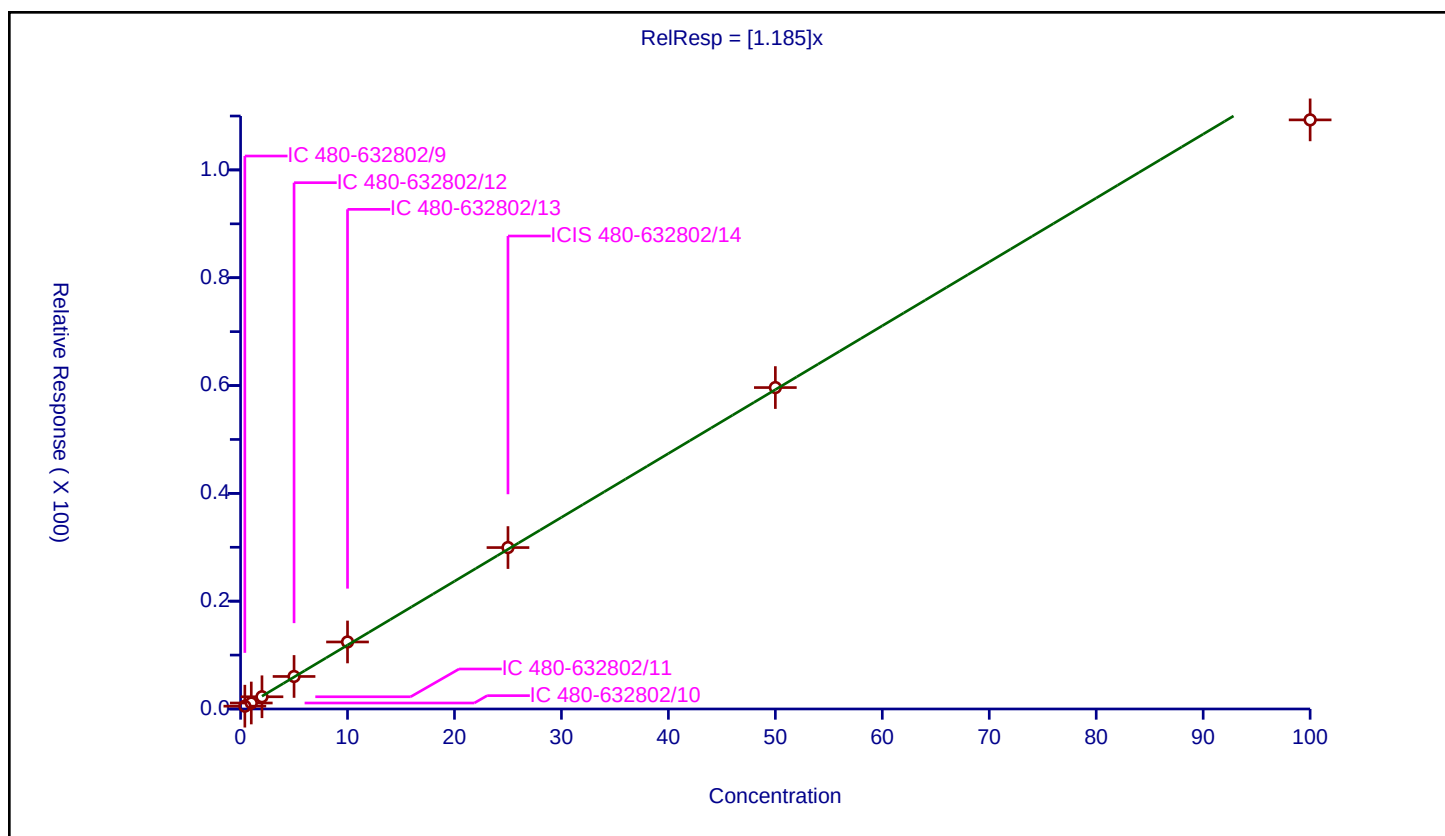
### Curve Coefficients

Intercept: 0  
 Slope: 1.185

### Error Coefficients

Standard Error: 642000  
 Relative Standard Error: 5.9  
 Correlation Coefficient: 0.990  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.520514   | 25.0      | 360269.0    | 1.301285 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.108645   | 25.0      | 366145.0    | 1.108645 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.270276   | 25.0      | 360705.0    | 1.135138 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 6.033725   | 25.0      | 360768.0    | 1.206745 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 12.435766  | 25.0      | 340745.0    | 1.243577 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 29.947036  | 25.0      | 363268.0    | 1.197881 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 59.625619  | 25.0      | 352515.0    | 1.192512 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 109.280953 | 25.0      | 319687.0    | 1.09281  | Y    |





# Calibration

/ Hexachlorobutadiene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

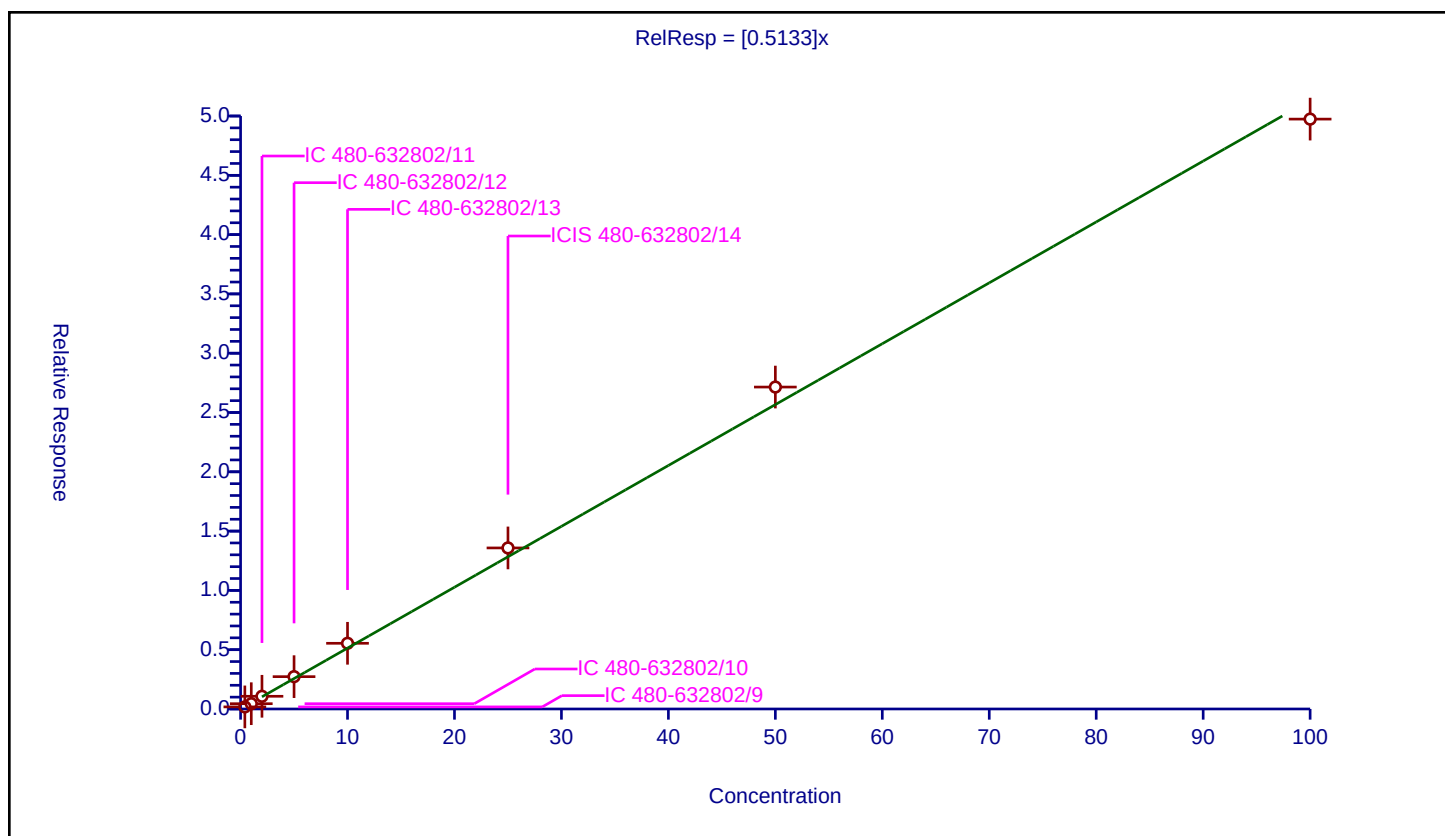
## Curve Coefficients

Intercept: 0  
 Slope: 0.5133

## Error Coefficients

Standard Error: 292000  
 Relative Standard Error: 8.9  
 Correlation Coefficient: 0.990  
 Coefficient of Determination (Adjusted): 0.991

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.176882   | 25.0      | 360269.0    | 0.442204 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 0.446271   | 25.0      | 366145.0    | 0.446271 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 1.070404   | 25.0      | 360705.0    | 0.535202 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 2.727376   | 25.0      | 360768.0    | 0.545475 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 5.540067   | 25.0      | 340745.0    | 0.554007 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 13.579575  | 25.0      | 363268.0    | 0.543183 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 27.146717  | 25.0      | 352515.0    | 0.542934 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 49.739042  | 25.0      | 319687.0    | 0.49739  | Y    |



## Calibration

/ Naphthalene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

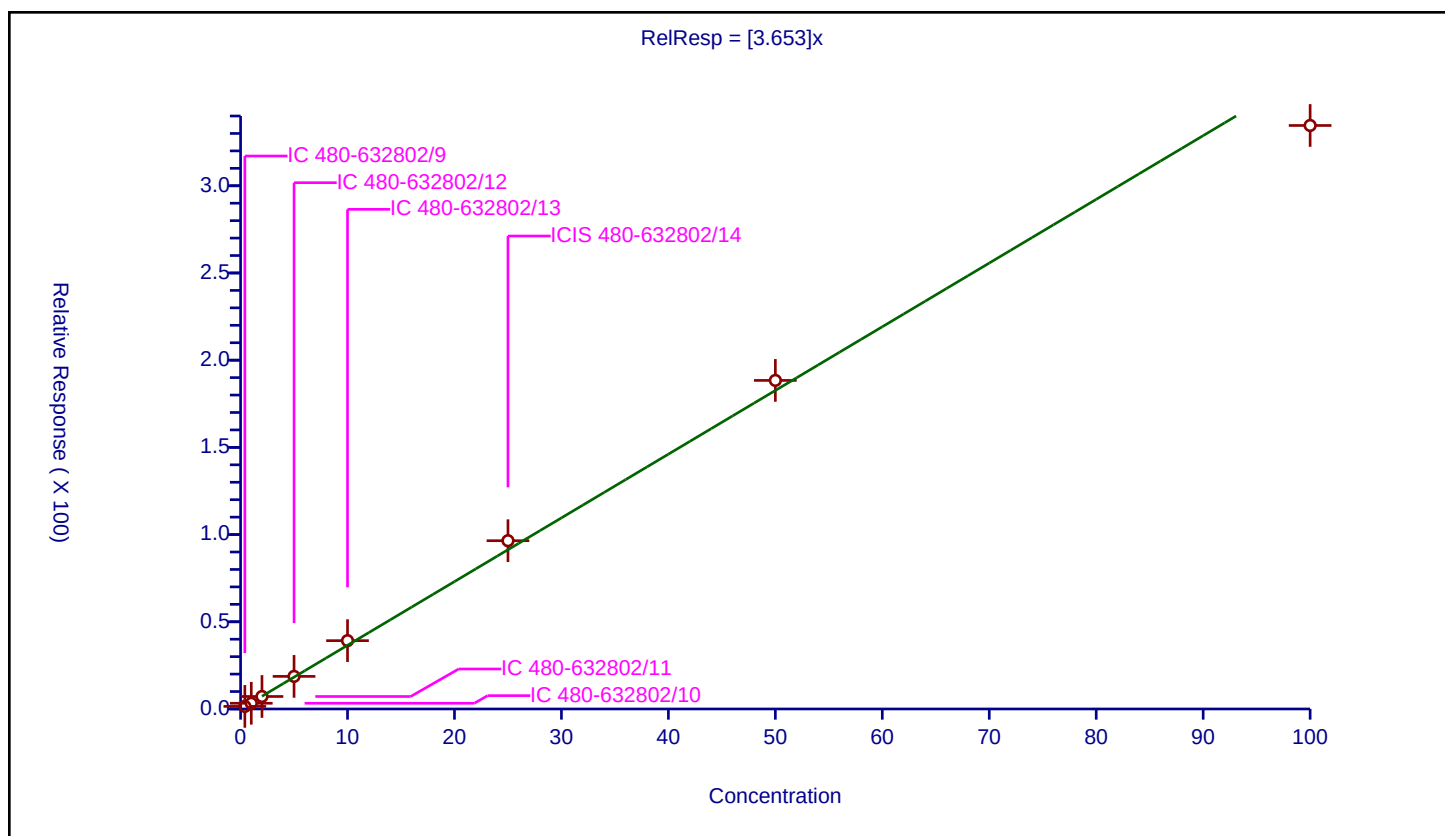
## Curve Coefficients

Intercept: 0  
Slope: 3.653

## Error Coefficients

Standard Error: 1990000  
Relative Standard Error: 6.4  
Correlation Coefficient: 0.985  
Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 1.496382   | 25.0      | 360269.0    | 3.740955 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 3.275069   | 25.0      | 366145.0    | 3.275069 | Y    |
| 3  | IC 480-632802/11   | 2.0           | 7.156749   | 25.0      | 360705.0    | 3.578374 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 18.685693  | 25.0      | 360768.0    | 3.737139 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 39.174676  | 25.0      | 340745.0    | 3.917468 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 96.490676  | 25.0      | 363268.0    | 3.859627 | Y    |
| 7  | IC 480-632802/15   | 50.0          | 188.395104 | 25.0      | 352515.0    | 3.767902 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 334.566388 | 25.0      | 319687.0    | 3.345664 | Y    |



# Calibration

/ 1,2,3-Trichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

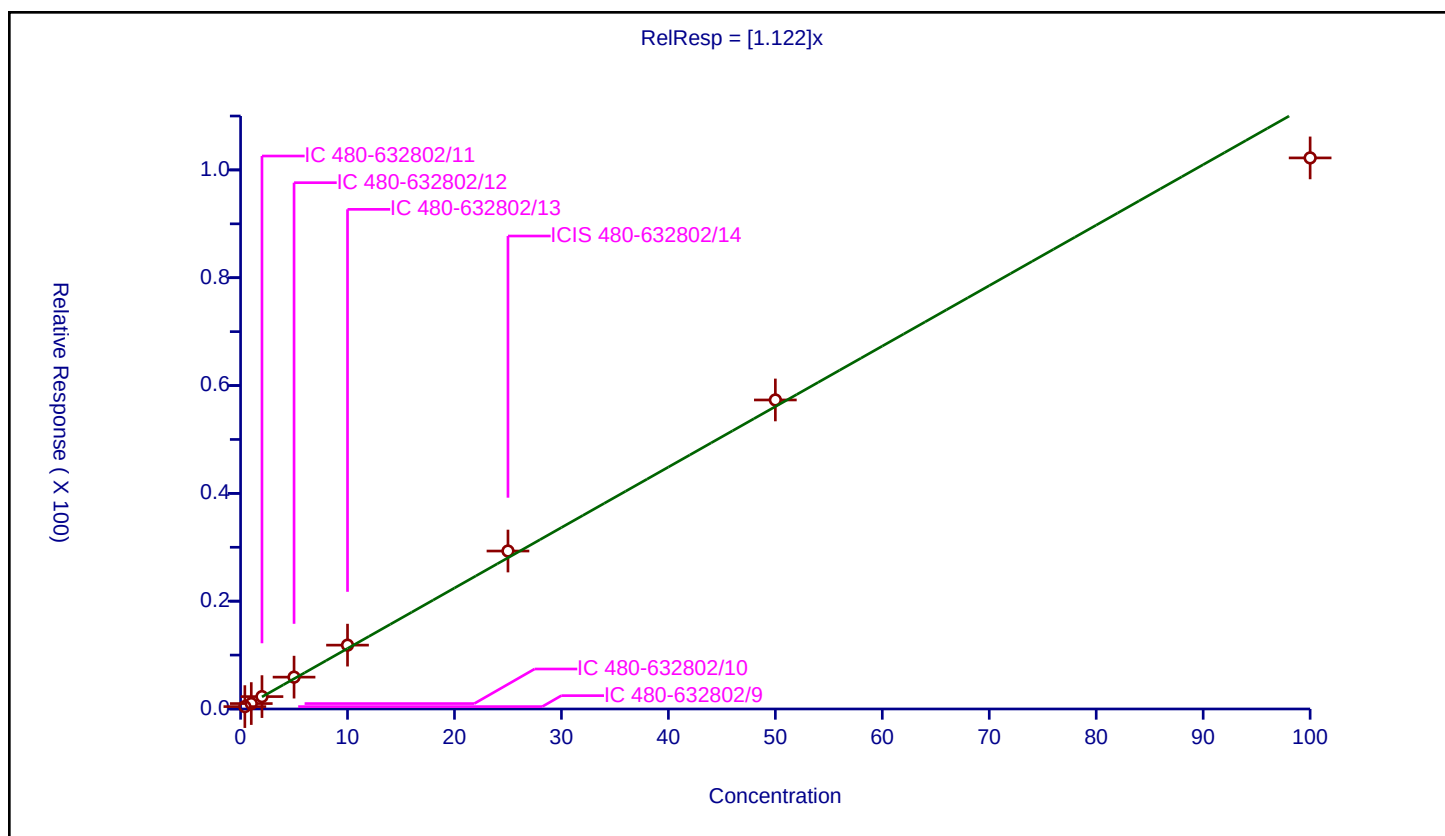
## Curve Coefficients

Intercept: 0  
 Slope: 1.122

## Error Coefficients

Standard Error: 607000  
 Relative Standard Error: 6.3  
 Correlation Coefficient: 0.986  
 Coefficient of Determination (Adjusted): 0.995

| ID | Level              | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|--------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-632802/9    | 0.4           | 0.444529   | 25.0      | 360269.0    | 1.111322 | Y    |
| 2  | IC 480-632802/10   | 1.0           | 1.00691    | 25.0      | 366145.0    | 1.00691  | Y    |
| 3  | IC 480-632802/11   | 2.0           | 2.299455   | 25.0      | 360705.0    | 1.149728 | Y    |
| 4  | IC 480-632802/12   | 5.0           | 5.911347   | 25.0      | 360768.0    | 1.182269 | Y    |
| 5  | IC 480-632802/13   | 10.0          | 11.844708  | 25.0      | 340745.0    | 1.184471 | Y    |
| 6  | ICIS 480-632802/14 | 25.0          | 29.302746  | 25.0      | 363268.0    | 1.17211  | Y    |
| 7  | IC 480-632802/15   | 50.0          | 57.327773  | 25.0      | 352515.0    | 1.146555 | Y    |
| 8  | IC 480-632802/16   | 100.0         | 102.230619 | 25.0      | 319687.0    | 1.022306 | Y    |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 480-636697/34 Calibration Date: 08/10/2022 01:14

Instrument ID: HP5973S Calib Start Date: 08/09/2022 17:06

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 08/09/2022 19:49

Lab File ID: S4516.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                               | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|---------------------------------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Dichlorodifluoromethane               | Ave           | 2.049   | 2.042  | 0.1000  | 24.9           | 25.0            | -0.3 | 50.0      |
| Chloromethane                         | Ave           | 3.252   | 3.177  | 0.1000  | 24.4           | 25.0            | -2.3 | 30.0      |
| Vinyl chloride                        | Ave           | 2.065   | 2.068  | 0.1000  | 25.0           | 25.0            | 0.1  | 30.0      |
| Butadiene                             | Ave           | 2.438   | 2.449  |         | 25.1           | 25.0            | 0.5  | 30.0      |
| Bromomethane                          | Ave           | 1.206   | 1.162  | 0.1000  | 24.1           | 25.0            | -3.7 | 50.0      |
| Chloroethane                          | Ave           | 1.301   | 1.281  | 0.1000  | 24.6           | 25.0            | -1.5 | 50.0      |
| Trichlorofluoromethane                | Ave           | 2.590   | 2.598  | 0.1000  | 25.1           | 25.0            | 0.3  | 30.0      |
| Dichlorofluoromethane                 | Ave           | 2.892   | 2.791  |         | 24.1           | 25.0            | -3.5 | 30.0      |
| Ethyl ether                           | Ave           | 1.839   | 1.914  |         | 26.0           | 25.0            | 4.1  | 30.0      |
| Acrolein                              | Ave           | 0.2569  | 0.2617 |         | 127            | 125             | 1.9  | 50.0      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Ave           | 1.241   | 1.305  | 0.1000  | 26.3           | 25.0            | 5.2  | 30.0      |
| 1,1-Dichloroethene                    | Ave           | 1.368   | 1.366  | 0.1000  | 25.0           | 25.0            | -0.1 | 30.0      |
| Acetone                               | Ave           | 0.8070  | 0.8143 | 0.1000  | 126            | 125             | 0.9  | 50.0      |
| Iodomethane                           | Ave           | 2.428   | 2.514  |         | 25.9           | 25.0            | 3.5  | 30.0      |
| Carbon disulfide                      | Ave           | 4.412   | 4.611  | 0.1000  | 26.1           | 25.0            | 4.5  | 30.0      |
| Allyl chloride                        | Ave           | 3.287   | 3.342  |         | 25.4           | 25.0            | 1.7  | 30.0      |
| Methyl acetate                        | Ave           | 2.196   | 2.251  | 0.1000  | 51.3           | 50.0            | 2.5  | 50.0      |
| Methylene Chloride                    | Lin1          |         | 1.937  | 0.1000  | 28.1           | 25.0            | 12.2 | 30.0      |
| 2-Methyl-2-propanol                   | Ave           | 0.2386  | 0.2241 |         | 235            | 250             | -6.1 | 50.0      |
| Methyl tert-butyl ether               | Ave           | 5.489   | 5.648  | 0.1000  | 25.7           | 25.0            | 2.9  | 30.0      |
| trans-1,2-Dichloroethene              | Ave           | 1.714   | 1.763  | 0.1000  | 25.7           | 25.0            | 2.9  | 30.0      |
| Acrylonitrile                         | Ave           | 1.098   | 1.124  |         | 256            | 250             | 2.3  | 30.0      |
| Hexane                                | Ave           | 3.542   | 3.519  |         | 24.8           | 25.0            | -0.7 | 30.0      |
| 1,1-Dichloroethane                    | Ave           | 3.599   | 3.667  | 0.2000  | 25.5           | 25.0            | 1.9  | 30.0      |
| Vinyl acetate                         | Ave           | 4.870   | 5.108  |         | 52.4           | 50.0            | 4.9  | 30.0      |
| 2,2-Dichloropropane                   | Ave           | 1.991   | 1.856  |         | 23.3           | 25.0            | -6.8 | 30.0      |
| cis-1,2-Dichloroethene                | Ave           | 1.926   | 1.933  | 0.1000  | 25.1           | 25.0            | 0.4  | 30.0      |
| 2-Butanone (MEK)                      | Ave           | 1.363   | 1.445  | 0.1000  | 133            | 125             | 6.0  | 30.0      |
| Chlorobromomethane                    | Ave           | 1.054   | 1.044  |         | 24.7           | 25.0            | -1.0 | 30.0      |
| Tetrahydrofuran                       | Ave           | 0.8946  | 0.8978 |         | 50.2           | 50.0            | 0.4  | 30.0      |
| Chloroform                            | Ave           | 3.184   | 3.222  | 0.2000  | 25.3           | 25.0            | 1.2  | 30.0      |
| 1,1,1-Trichloroethane                 | Ave           | 2.495   | 2.559  | 0.1000  | 25.6           | 25.0            | 2.6  | 30.0      |
| Cyclohexane                           | Ave           | 3.711   | 3.930  | 0.1000  | 26.5           | 25.0            | 5.9  | 30.0      |
| Carbon tetrachloride                  | Ave           | 2.114   | 2.153  | 0.1000  | 25.5           | 25.0            | 1.8  | 30.0      |
| 1,1-Dichloropropene                   | Ave           | 2.476   | 2.559  |         | 25.8           | 25.0            | 3.3  | 30.0      |
| Benzene                               | Ave           | 7.485   | 7.659  | 0.5000  | 25.6           | 25.0            | 2.3  | 30.0      |
| Isobutyl alcohol                      | Ave           | 0.0998  | 0.1037 |         | 649            | 625             | 3.9  | 50.0      |
| 1,2-Dichloroethane                    | Ave           | 3.002   | 3.002  | 0.1000  | 25.0           | 25.0            | 0.0  | 30.0      |
| n-Heptane                             | Ave           | 4.242   | 4.345  |         | 25.6           | 25.0            | 2.4  | 30.0      |
| Trichloroethene                       | Ave           | 1.845   | 1.791  | 0.2000  | 24.3           | 25.0            | -2.9 | 30.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 480-636697/34 Calibration Date: 08/10/2022 01:14  
 Instrument ID: HP5973S Calib Start Date: 08/09/2022 17:06  
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 08/09/2022 19:49  
 Lab File ID: S4516.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Methylcyclohexane           | Ave           | 3.199   | 3.290  | 0.1000  | 25.7           | 25.0            | 2.8   | 30.0      |
| 1,2-Dichloropropane         | Ave           | 2.067   | 2.106  | 0.1000  | 25.5           | 25.0            | 1.9   | 30.0      |
| Dibromomethane              | Ave           | 1.101   | 1.145  | 0.1000  | 26.0           | 25.0            | 4.0   | 30.0      |
| 1,4-Dioxane                 | Ave           | 0.0095  | 0.0067 |         | 352            | 500             | -29.6 | 50.0      |
| Bromodichloromethane        | Ave           | 2.138   | 2.185  | 0.2000  | 25.6           | 25.0            | 2.2   | 30.0      |
| 2-Chloroethyl vinyl ether   | Ave           | 1.391   | 1.558  |         | 28.0           | 25.0            | 12.0  | 30.0      |
| cis-1,3-Dichloropropene     | Ave           | 2.654   | 2.823  | 0.2000  | 26.6           | 25.0            | 6.4   | 30.0      |
| 4-Methyl-2-pentanone (MIBK) | Ave           | 1.466   | 1.537  | 0.1000  | 131            | 125             | 4.9   | 30.0      |
| Toluene                     | Ave           | 2.304   | 2.246  | 0.4000  | 24.4           | 25.0            | -2.5  | 30.0      |
| trans-1,3-Dichloropropene   | Ave           | 1.159   | 1.240  | 0.1000  | 26.7           | 25.0            | 7.0   | 30.0      |
| Ethyl methacrylate          | Ave           | 1.108   | 1.227  |         | 27.7           | 25.0            | 10.8  | 30.0      |
| 1,1,2-Trichloroethane       | Ave           | 0.6983  | 0.6757 | 0.1000  | 24.2           | 25.0            | -3.2  | 30.0      |
| Tetrachloroethene           | Ave           | 1.000   | 0.9519 | 0.2000  | 23.8           | 25.0            | -4.8  | 30.0      |
| 1,3-Dichloropropane         | Ave           | 1.482   | 1.440  |         | 24.3           | 25.0            | -2.8  | 30.0      |
| 2-Hexanone                  | Ave           | 1.005   | 1.074  | 0.1000  | 134            | 125             | 6.8   | 30.0      |
| Dibromochloromethane        | Ave           | 0.6946  | 0.7664 | 0.1000  | 27.6           | 25.0            | 10.3  | 30.0      |
| 1,2-Dibromoethane           | Ave           | 0.8428  | 0.8681 |         | 25.8           | 25.0            | 3.0   | 30.0      |
| Chlorobenzene               | Ave           | 2.715   | 2.567  | 0.5000  | 23.6           | 25.0            | -5.4  | 30.0      |
| Ethylbenzene                | Ave           | 4.322   | 4.366  | 0.1000  | 25.3           | 25.0            | 1.0   | 30.0      |
| 1,1,1,2-Tetrachloroethane   | Ave           | 0.8908  | 0.8852 |         | 24.8           | 25.0            | -0.6  | 30.0      |
| m,p-Xylene                  | Ave           | 1.712   | 1.740  | 0.1000  | 25.4           | 25.0            | 1.7   | 30.0      |
| o-Xylene                    | Ave           | 1.653   | 1.662  | 0.3000  | 25.1           | 25.0            | 0.5   | 30.0      |
| Styrene                     | Ave           | 2.774   | 2.908  | 0.3000  | 26.2           | 25.0            | 4.8   | 30.0      |
| Bromoform                   | Ave           | 0.4622  | 0.4792 | 0.1000  | 25.9           | 25.0            | 3.7   | 50.0      |
| Isopropylbenzene            | Ave           | 4.118   | 4.314  | 0.1000  | 26.2           | 25.0            | 4.8   | 30.0      |
| Bromobenzene                | Ave           | 1.083   | 1.077  |         | 24.9           | 25.0            | -0.5  | 30.0      |
| 1,1,2,2-Tetrachloroethane   | Ave           | 1.110   | 1.117  | 0.3000  | 25.1           | 25.0            | 0.6   | 30.0      |
| N-Propylbenzene             | Ave           | 4.901   | 5.009  |         | 25.6           | 25.0            | 2.2   | 30.0      |
| 1,2,3-Trichloropropane      | Ave           | 0.3684  | 0.3751 |         | 25.5           | 25.0            | 1.8   | 30.0      |
| trans-1,4-Dichloro-2-butene | Ave           | 0.2890  | 0.3408 |         | 29.5           | 25.0            | 17.9  | 50.0      |
| 2-Chlorotoluene             | Ave           | 1.007   | 1.005  |         | 24.9           | 25.0            | -0.2  | 30.0      |
| 1,3,5-Trimethylbenzene      | Ave           | 3.567   | 3.661  |         | 25.7           | 25.0            | 2.6   | 30.0      |
| 4-Chlorotoluene             | Ave           | 1.052   | 1.026  |         | 24.4           | 25.0            | -2.4  | 30.0      |
| tert-Butylbenzene           | Ave           | 0.8055  | 0.8344 |         | 25.9           | 25.0            | 3.6   | 30.0      |
| 1,2,4-Trimethylbenzene      | Ave           | 3.569   | 3.752  |         | 26.3           | 25.0            | 5.1   | 30.0      |
| sec-Butylbenzene            | Ave           | 4.589   | 4.828  |         | 26.3           | 25.0            | 5.2   | 30.0      |
| 1,3-Dichlorobenzene         | Ave           | 2.188   | 2.126  | 0.6000  | 24.3           | 25.0            | -2.8  | 30.0      |
| 4-Isopropyltoluene          | Ave           | 3.847   | 4.145  |         | 26.9           | 25.0            | 7.7   | 30.0      |
| 1,4-Dichlorobenzene         | Ave           | 2.272   | 2.203  | 0.5000  | 24.2           | 25.0            | -3.0  | 30.0      |
| n-Butylbenzene              | Ave           | 3.450   | 3.687  |         | 26.7           | 25.0            | 6.9   | 30.0      |
| 1,2-Dichlorobenzene         | Ave           | 2.095   | 2.053  | 0.4000  | 24.5           | 25.0            | -2.0  | 30.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 480-636697/34 Calibration Date: 08/10/2022 01:14  
 Instrument ID: HP5973S Calib Start Date: 08/09/2022 17:06  
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 08/09/2022 19:49  
 Lab File ID: S4516.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.1860  | 0.1906 | 0.0500  | 25.6           | 25.0            | 2.5  | 50.0      |
| 1,2,4-Trichlorobenzene       | Ave           | 1.588   | 1.611  | 0.2000  | 25.4           | 25.0            | 1.4  | 30.0      |
| Hexachlorobutadiene          | Ave           | 0.6998  | 0.7116 |         | 25.4           | 25.0            | 1.7  | 30.0      |
| Naphthalene                  | Ave           | 3.712   | 4.096  |         | 27.6           | 25.0            | 10.3 | 30.0      |
| 1,2,3-Trichlorobenzene       | Ave           | 1.563   | 1.574  |         | 25.2           | 25.0            | 0.7  | 30.0      |
| Dibromofluoromethane (Surr)  | Ave           | 1.270   | 1.314  |         | 25.9           | 25.0            | 3.5  | 30.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.8657  | 0.8874 |         | 25.6           | 25.0            | 2.5  | 30.0      |
| Toluene-d8 (Surr)            | Ave           | 2.437   | 2.455  |         | 25.2           | 25.0            | 0.8  | 30.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.8092  | 0.8099 |         | 25.0           | 25.0            | 0.0  | 30.0      |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4516.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 10-Aug-2022 01:14:30 ALS Bottle#: 34 Worklist Smp#: 34  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ICV  
 Misc. Info.: 480-0106979-034  
 Operator ID: AG Instrument ID: HP5973S  
 Sublist:  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 10-Aug-2022 14:57:48 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1608

First Level Reviewer: FGO5

Date: 10-Aug-2022 11:34:26

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 153 Fluorobenzene (IS)                 | 70  | 4.867        | 4.867            | 0.000            | 98  | 182911   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 82  | 7.824        | 7.824            | 0.000            | 89  | 383365   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 10.264       | 10.263           | 0.001            | 48  | 401361   | 25.0            | 25.0              |       |
| \$ 154 Dibromofluoromethane (Surr)       | 113 | 4.308        | 4.307            | 0.001            | 58  | 240294   | 25.0            | 25.9              |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)        | 67  | 4.600        | 4.606            | -0.006           | 52  | 162320   | 25.0            | 25.6              |       |
| \$ 5 Toluene-d8 (Surr)                   | 98  | 6.364        | 6.358            | 0.006            | 55  | 941209   | 25.0            | 25.2              |       |
| \$ 6 4-Bromofluorobenzene (Surr)         | 174 | 9.077        | 9.077            | 0.000            | 86  | 310502   | 25.0            | 25.0              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.035        | 1.035            | 0.001            | 97  | 373567   | 25.0            | 24.9              |       |
| 12 Chloromethane                         | 50  | 1.181        | 1.187            | -0.006           | 100 | 581148   | 25.0            | 24.4              |       |
| 13 Vinyl chloride                        | 62  | 1.248        | 1.247            | 0.001            | 86  | 378282   | 25.0            | 25.0              |       |
| 151 Butadiene                            | 54  | 1.266        | 1.266            | 0.000            | 90  | 448035   | 25.0            | 25.1              |       |
| 14 Bromomethane                          | 94  | 1.509        | 1.509            | 0.000            | 90  | 212477   | 25.0            | 24.1              |       |
| 15 Chloroethane                          | 64  | 1.582        | 1.582            | 0.000            | 94  | 234313   | 25.0            | 24.6              |       |
| 17 Trichlorofluoromethane                | 101 | 1.747        | 1.746            | 0.000            | 90  | 475205   | 25.0            | 25.1              |       |
| 16 Dichlorofluoromethane                 | 67  | 1.759        | 1.758            | 0.001            | 96  | 510492   | 25.0            | 24.1              |       |
| 18 Ethyl ether                           | 59  | 1.996        | 2.002            | -0.006           | 97  | 350094   | 25.0            | 26.0              |       |
| 20 Acrolein                              | 56  | 2.166        | 2.166            | 0.000            | 94  | 239324   | 125.0           | 127.3             |       |
| 22 1,1-Dichloroethene                    | 96  | 2.191        | 2.196            | -0.005           | 93  | 249902   | 25.0            | 25.0              |       |
| 21 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 2.191        | 2.196            | -0.005           | 56  | 238769   | 25.0            | 26.3              |       |
| 23 Acetone                               | 43  | 2.312        | 2.312            | 0.000            | 98  | 744725   | 125.0           | 126.1             |       |
| 25 Iodomethane                           | 142 | 2.343        | 2.342            | 0.001            | 97  | 459918   | 25.0            | 25.9              |       |
| 26 Carbon disulfide                      | 76  | 2.373        | 2.379            | -0.006           | 99  | 843345   | 25.0            | 26.1              |       |
| 28 3-Chloro-1-propene                    | 41  | 2.543        | 2.543            | 0.000            | 87  | 611294   | 25.0            | 25.4              |       |
| 27 Methyl acetate                        | 43  | 2.592        | 2.592            | 0.000            | 99  | 823515   | 50.0            | 51.3              |       |
| 30 Methylene Chloride                    | 84  | 2.683        | 2.683            | 0.000            | 95  | 354305   | 25.0            | 28.1              | M     |
| 31 2-Methyl-2-propanol                   | 59  | 2.860        | 2.860            | 0.000            | 67  | 409922   | 250.0           | 234.8             | M     |
| 32 Methyl tert-butyl ether               | 73  | 2.884        | 2.884            | 0.000            | 93  | 1033073  | 25.0            | 25.7              |       |
| 34 trans-1,2-Dichloroethene              | 96  | 2.896        | 2.896            | 0.000            | 92  | 322521   | 25.0            | 25.7              |       |
| 33 Acrylonitrile                         | 53  | 2.957        | 2.963            | -0.006           | 98  | 2055243  | 250.0           | 255.7             | M     |
| 35 Hexane                                | 57  | 3.085        | 3.085            | 0.000            | 90  | 643621   | 25.0            | 24.8              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane          | 63  | 3.298     | 3.304         | -0.006        | 97 | 670734   | 25.0         | 25.5           |       |
| 37 Vinyl acetate               | 43  | 3.365     | 3.365         | 0.001         | 96 | 1868584  | 50.0         | 52.4           |       |
| 44 2,2-Dichloropropane         | 77  | 3.803     | 3.803         | 0.000         | 93 | 339403   | 25.0         | 23.3           |       |
| 45 cis-1,2-Dichloroethene      | 96  | 3.839     | 3.839         | 0.000         | 83 | 353588   | 25.0         | 25.1           |       |
| 43 2-Butanone (MEK)            | 43  | 3.882     | 3.888         | -0.006        | 95 | 1321906  | 125.0        | 132.5          |       |
| 48 Chlorobromomethane          | 128 | 4.070     | 4.070         | 0.000         | 92 | 190912   | 25.0         | 24.7           |       |
| 49 Tetrahydrofuran             | 42  | 4.083     | 4.082         | 0.001         | 93 | 328418   | 50.0         | 50.2           |       |
| 50 Chloroform                  | 83  | 4.150     | 4.155         | -0.005        | 95 | 589266   | 25.0         | 25.3           |       |
| 52 Cyclohexane                 | 56  | 4.247     | 4.253         | -0.006        | 91 | 718780   | 25.0         | 26.5           |       |
| 51 1,1,1-Trichloroethane       | 97  | 4.247     | 4.253         | -0.006        | 77 | 468096   | 25.0         | 25.6           |       |
| 55 Carbon tetrachloride        | 117 | 4.381     | 4.380         | 0.001         | 92 | 393716   | 25.0         | 25.5           |       |
| 54 1,1-Dichloropropene         | 75  | 4.399     | 4.399         | 0.000         | 91 | 468011   | 25.0         | 25.8           |       |
| 57 Benzene                     | 78  | 4.600     | 4.599         | 0.001         | 96 | 1400858  | 25.0         | 25.6           |       |
| 53 Isobutyl alcohol            | 43  | 4.654     | 4.660         | -0.006        | 62 | 474325   | 625.0        | 649.3          | M     |
| 58 1,2-Dichloroethane          | 62  | 4.673     | 4.672         | 0.001         | 79 | 549113   | 25.0         | 25.0           |       |
| 59 n-Heptane                   | 43  | 4.788     | 4.788         | 0.000         | 97 | 794704   | 25.0         | 25.6           |       |
| 62 Trichloroethene             | 95  | 5.202     | 5.202         | 0.000         | 94 | 327600   | 25.0         | 24.3           |       |
| 64 Methylcyclohexane           | 83  | 5.311     | 5.311         | 0.000         | 98 | 601838   | 25.0         | 25.7           |       |
| 65 1,2-Dichloropropane         | 63  | 5.439     | 5.445         | -0.006        | 91 | 385178   | 25.0         | 25.5           |       |
| 67 Dibromomethane              | 93  | 5.579     | 5.579         | 0.000         | 88 | 209449   | 25.0         | 26.0           |       |
| 66 1,4-Dioxane                 | 88  | 5.597     | 5.597         | 0.000         | 45 | 51070    | 500.0        | 351.9          | M     |
| 68 Dichlorobromomethane        | 83  | 5.737     | 5.737         | 0.000         | 96 | 399683   | 25.0         | 25.6           |       |
| 69 2-Chloroethyl vinyl ether   | 63  | 6.029     | 6.029         | 0.000         | 92 | 284993   | 25.0         | 28.0           |       |
| 72 cis-1,3-Dichloropropene     | 75  | 6.151     | 6.151         | 0.000         | 88 | 516390   | 25.0         | 26.6           |       |
| 73 4-Methyl-2-pentanone (MIBK) | 43  | 6.303     | 6.303         | 0.000         | 98 | 2946768  | 125.0        | 131.1          |       |
| 74 Toluene                     | 92  | 6.425     | 6.425         | 0.000         | 93 | 861107   | 25.0         | 24.4           |       |
| 77 trans-1,3-Dichloropropene   | 75  | 6.717     | 6.723         | -0.006        | 99 | 475264   | 25.0         | 26.7           |       |
| 75 Ethyl methacrylate          | 69  | 6.778     | 6.777         | 0.001         | 77 | 470441   | 25.0         | 27.7           |       |
| 79 1,1,2-Trichloroethane       | 83  | 6.899     | 6.899         | 0.000         | 95 | 259037   | 25.0         | 24.2           |       |
| 81 Tetrachloroethene           | 166 | 6.942     | 6.948         | -0.006        | 86 | 364916   | 25.0         | 23.8           |       |
| 82 1,3-Dichloropropane         | 76  | 7.057     | 7.057         | 0.000         | 99 | 552064   | 25.0         | 24.3           |       |
| 80 2-Hexanone                  | 43  | 7.137     | 7.136         | 0.001         | 98 | 2058369  | 125.0        | 133.5          |       |
| 83 Chlorodibromomethane        | 129 | 7.289     | 7.288         | 0.001         | 91 | 293800   | 25.0         | 27.6           |       |
| 84 Ethylene Dibromide          | 107 | 7.380     | 7.380         | 0.000         | 96 | 332795   | 25.0         | 25.8           |       |
| 87 Chlorobenzene               | 112 | 7.854     | 7.854         | 0.000         | 93 | 984261   | 25.0         | 23.6           |       |
| 88 Ethylbenzene                | 91  | 7.952     | 7.952         | 0.000         | 99 | 1673836  | 25.0         | 25.3           |       |
| 89 1,1,1,2-Tetrachloroethane   | 131 | 7.958     | 7.958         | 0.000         | 47 | 339336   | 25.0         | 24.8           |       |
| 90 m-Xylene & p-Xylene         | 106 | 8.073     | 8.073         | 0.000         | 97 | 667196   | 25.0         | 25.4           |       |
| 91 o-Xylene                    | 106 | 8.493     | 8.493         | 0.000         | 97 | 637201   | 25.0         | 25.1           |       |
| 92 Styrene                     | 104 | 8.524     | 8.529         | -0.005        | 91 | 1114689  | 25.0         | 26.2           |       |
| 95 Bromoform                   | 173 | 8.767     | 8.767         | 0.000         | 95 | 183692   | 25.0         | 25.9           |       |
| 94 Isopropylbenzene            | 105 | 8.883     | 8.882         | 0.001         | 96 | 1731352  | 25.0         | 26.2           |       |
| 101 Bromobenzene               | 156 | 9.223     | 9.223         | 0.000         | 94 | 432441   | 25.0         | 24.9           |       |
| 97 1,1,2,2-Tetrachloroethane   | 83  | 9.308     | 9.308         | 0.000         | 77 | 448319   | 25.0         | 25.1           |       |
| 99 N-Propylbenzene             | 91  | 9.321     | 9.326         | -0.005        | 98 | 2010563  | 25.0         | 25.6           |       |
| 100 1,2,3-Trichloropropane     | 110 | 9.333     | 9.339         | -0.006        | 57 | 150561   | 25.0         | 25.5           |       |
| 98 trans-1,4-Dichloro-2-butene | 53  | 9.363     | 9.357         | 0.006         | 1  | 136798   | 25.0         | 29.5           | M     |
| 103 2-Chlorotoluene            | 126 | 9.424     | 9.424         | 0.000         | 94 | 403427   | 25.0         | 24.9           |       |
| 102 1,3,5-Trimethylbenzene     | 105 | 9.515     | 9.515         | 0.000         | 94 | 1469221  | 25.0         | 25.7           |       |
| 105 4-Chlorotoluene            | 126 | 9.546     | 9.545         | 0.001         | 98 | 411958   | 25.0         | 24.4           |       |
| 106 tert-Butylbenzene          | 134 | 9.844     | 9.844         | 0.000         | 91 | 334897   | 25.0         | 25.9           |       |
| 107 1,2,4-Trimethylbenzene     | 105 | 9.905     | 9.904         | 0.001         | 62 | 1506054  | 25.0         | 26.3           |       |



| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 109 sec-Butylbenzene            | 105 | 10.063       | 10.063           | 0.000            | 94 | 1937870  | 25.0            | 26.3              |       |
| 111 1,3-Dichlorobenzene         | 146 | 10.191       | 10.190           | 0.000            | 98 | 853318   | 25.0            | 24.3              |       |
| 110 4-Isopropyltoluene          | 119 | 10.215       | 10.215           | 0.000            | 96 | 1663567  | 25.0            | 26.9              |       |
| 113 1,4-Dichlorobenzene         | 146 | 10.288       | 10.288           | 0.000            | 95 | 884046   | 25.0            | 24.2              |       |
| 115 n-Butylbenzene              | 91  | 10.610       | 10.610           | 0.000            | 95 | 1479625  | 25.0            | 26.7              |       |
| 116 1,2-Dichlorobenzene         | 146 | 10.647       | 10.647           | 0.000            | 95 | 824089   | 25.0            | 24.5              |       |
| 117 1,2-Dibromo-3-Chloropropane | 75  | 11.395       | 11.395           | 0.000            | 73 | 76512    | 25.0            | 25.6              |       |
| 119 1,2,4-Trichlorobenzene      | 180 | 12.070       | 12.070           | 0.000            | 94 | 646717   | 25.0            | 25.4              |       |
| 120 Hexachlorobutadiene         | 225 | 12.192       | 12.192           | 0.000            | 96 | 285599   | 25.0            | 25.4              |       |
| 121 Naphthalene                 | 128 | 12.283       | 12.283           | 0.000            | 97 | 1643938  | 25.0            | 27.6              |       |
| 122 1,2,3-Trichlorobenzene      | 180 | 12.490       | 12.490           | 0.000            | 97 | 631773   | 25.0            | 25.2              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

SS GAS CORP\_00469

Amount Added: 12.50

Units: uL

SS 8260 CORP\_00102

Amount Added: 12.50

Units: uL

S\_8260\_IS\_00357

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00426

Amount Added: 1.00

Units: uL

Run Reagent

## Eurofins Buffalo

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Injection Date: 10-Aug-2022 01:14:30

Instrument ID: HP5973S

Lims ID: ICV

Operator ID: AG

Client ID:

Worklist Smp#: 34

Purge Vol: 5.000 mL

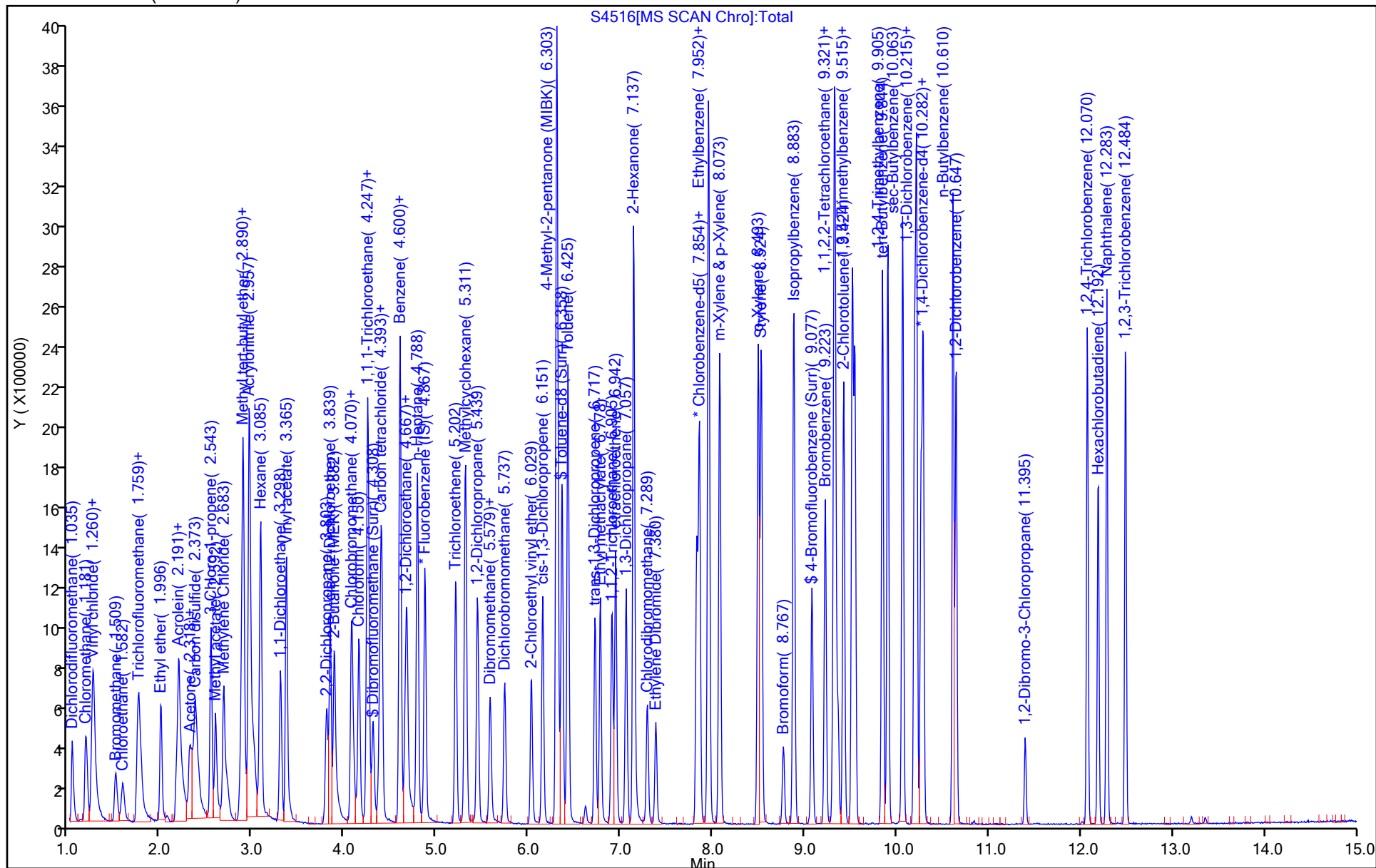
Dil. Factor: 1.0000

ALS Bottle#: 34

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



## Eurofins Buffalo

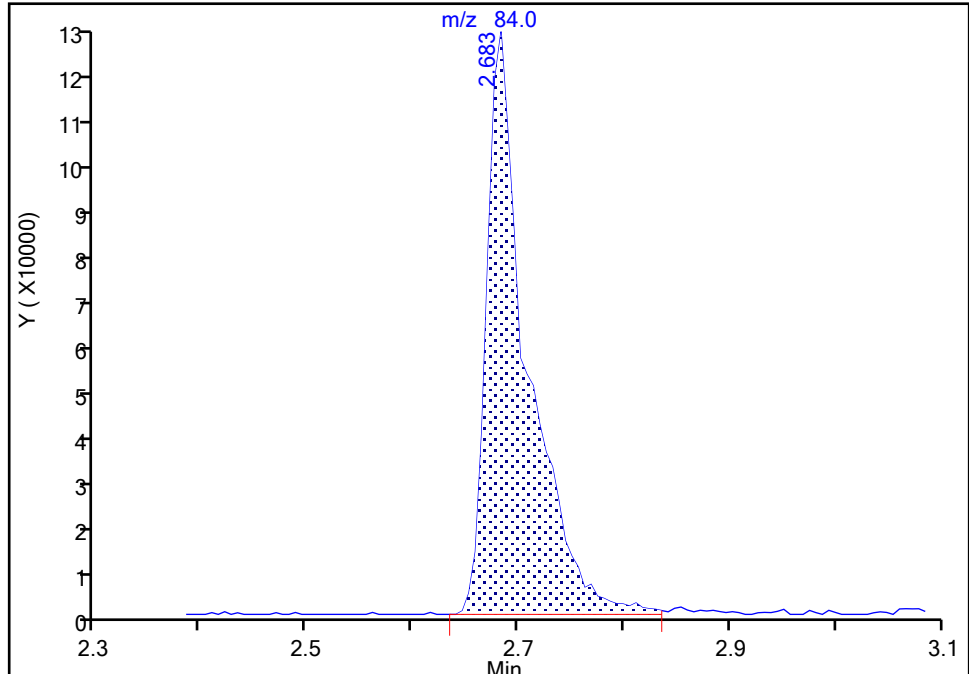
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Injection Date: 10-Aug-2022 01:14:30 Instrument ID: HP5973S  
Lims ID: ICV  
Client ID:  
Operator ID: AG ALS Bottle#: 34 Worklist Smp#: 34  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**30 Methylene Chloride, CAS: 75-09-2**

Signal: 1

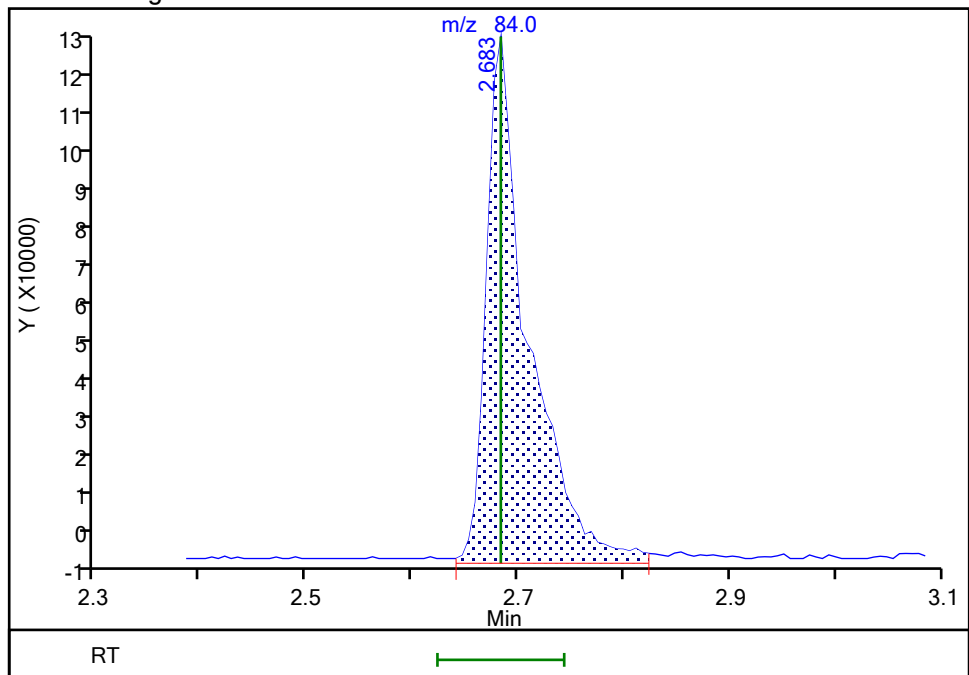
RT: 2.68  
Area: 342027  
Amount: 27.068299  
Amount Units: ug/L

## Processing Integration Results



RT: 2.68  
Area: 354305  
Amount: 28.051262  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 11:32:20  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

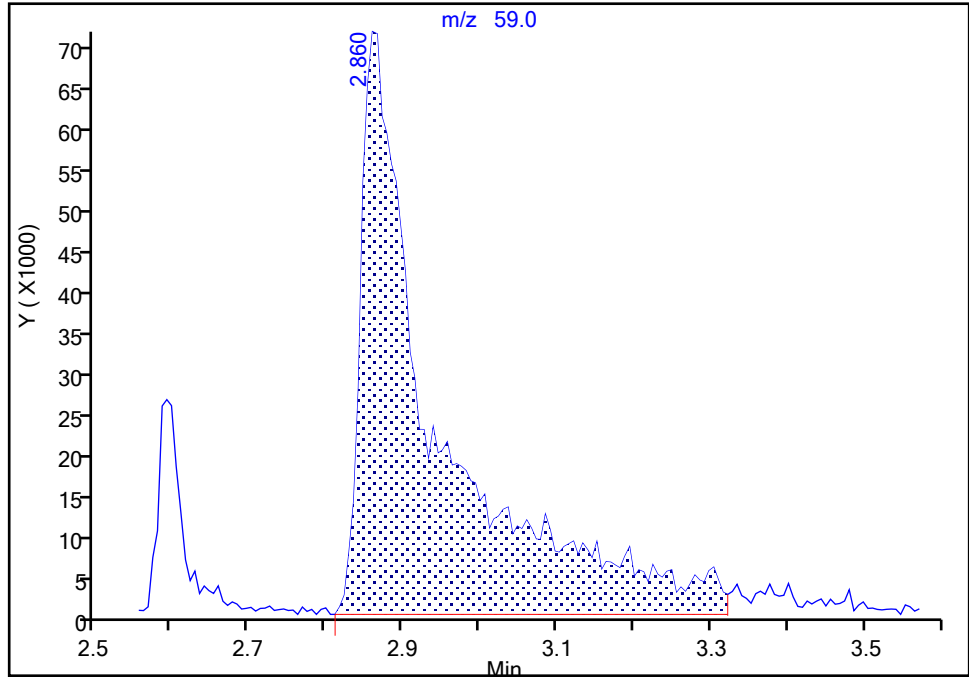
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Injection Date: 10-Aug-2022 01:14:30 Instrument ID: HP5973S  
Lims ID: ICV  
Client ID:  
Operator ID: AG ALS Bottle#: 34 Worklist Smp#: 34  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector MS SCAN

**31 2-Methyl-2-propanol, CAS: 75-65-0**

Signal: 1

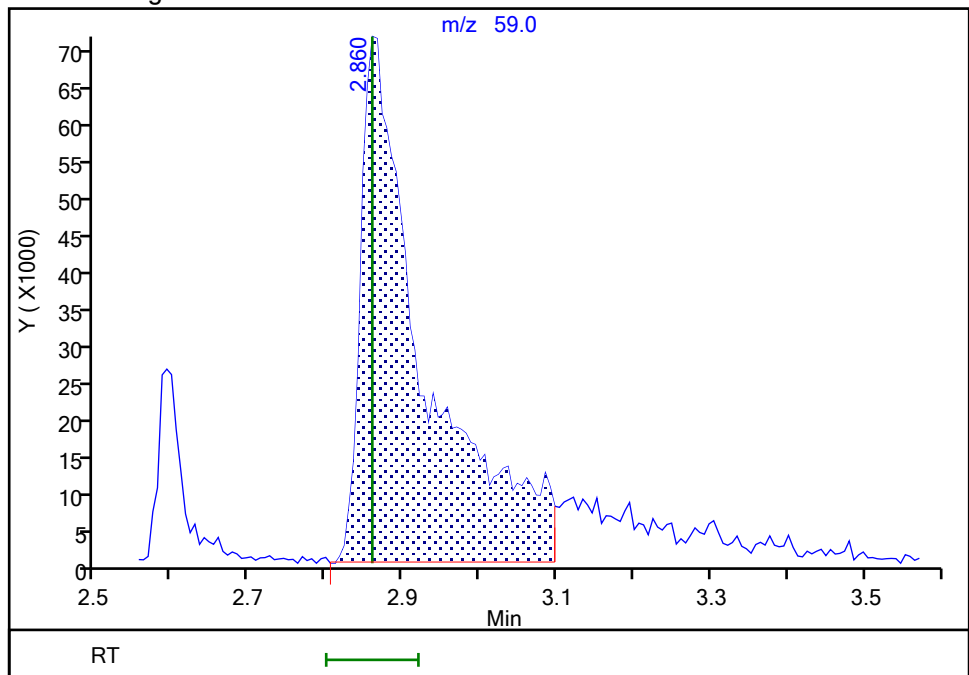
RT: 2.86  
Area: 488899  
Amount: 283.1943  
Amount Units: ug/L

## Processing Integration Results



RT: 2.86  
Area: 409922  
Amount: 234.8233  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 11:32:32  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

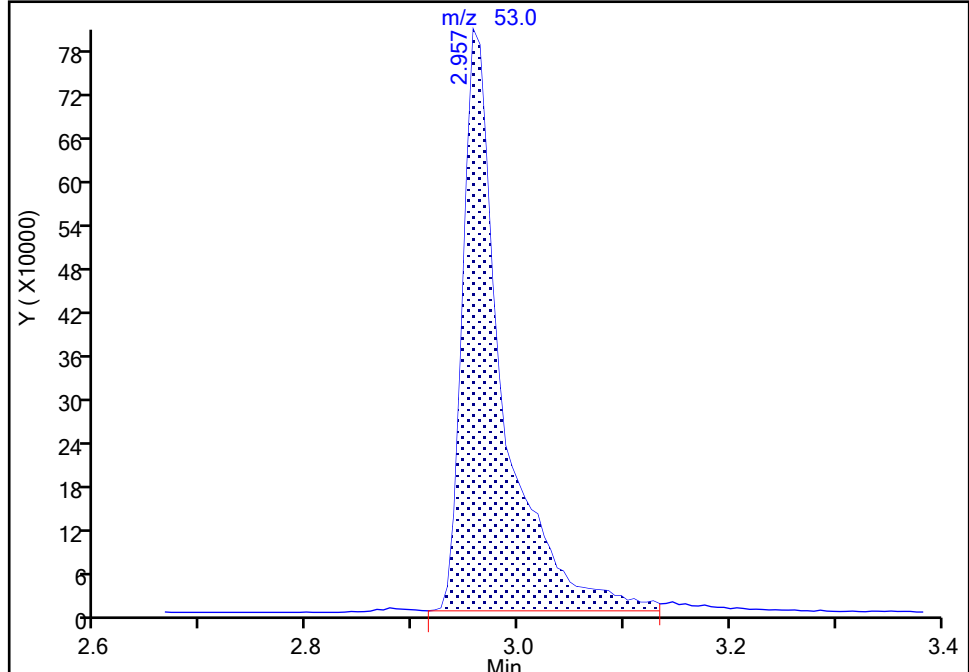
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Injection Date: 10-Aug-2022 01:14:30 Instrument ID: HP5973S  
Lims ID: ICV  
Client ID:  
Operator ID: AG ALS Bottle#: 34 Worklist Smp#: 34  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**33 Acrylonitrile, CAS: 107-13-1**

Signal: 1

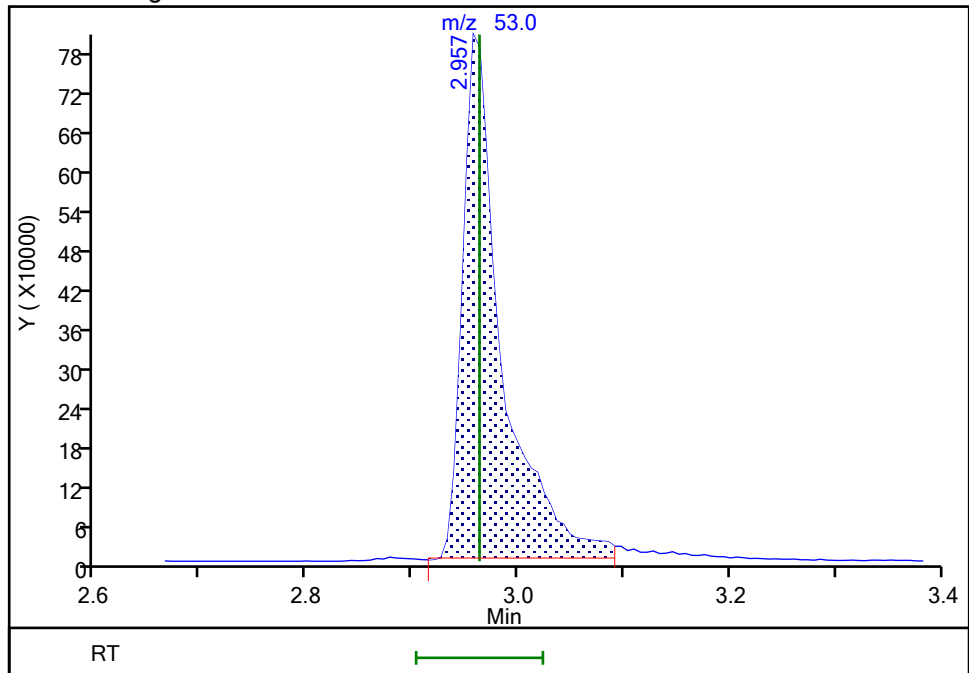
RT: 2.96  
Area: 2121632  
Amount: 262.6496  
Amount Units: ug/L

## Processing Integration Results



RT: 2.96  
Area: 2055243  
Amount: 255.7354  
Amount Units: ug/L

## Manual Integration Results



## Eurofins Buffalo

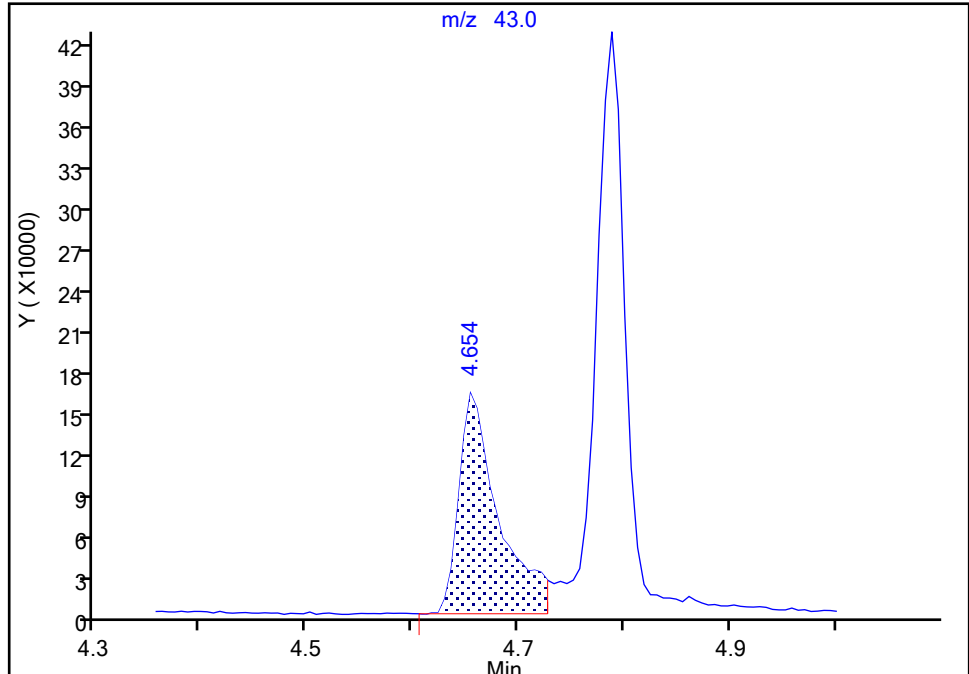
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Lims ID: ICV  
Client ID:  
Operator ID: AG ALS Bottle#: 34 Worklist Smp#: 34  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**53 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

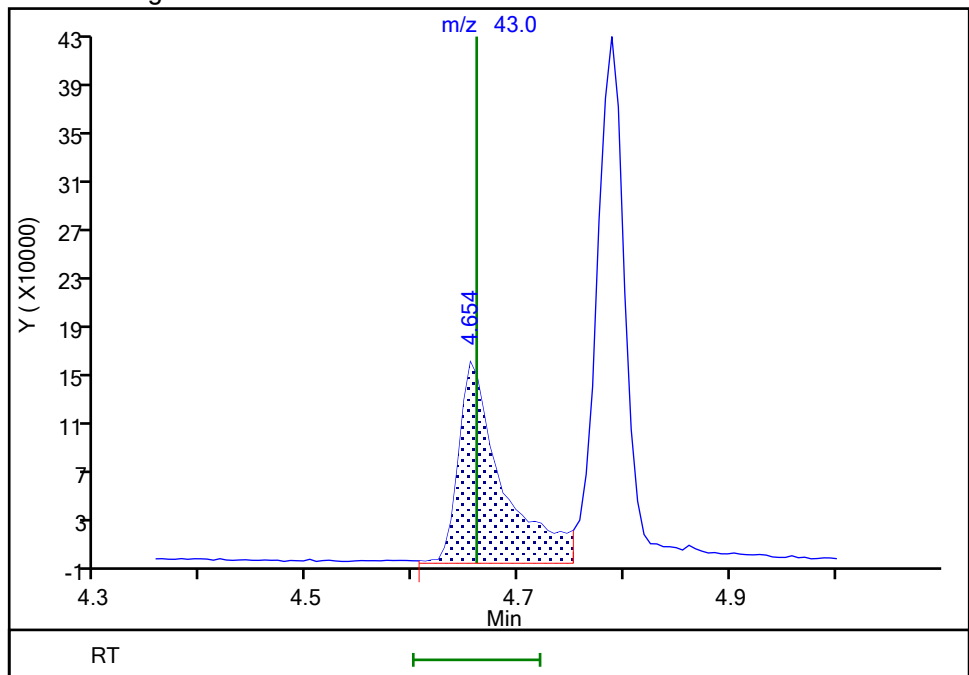
RT: 4.65  
Area: 422950  
Amount: 570.6240  
Amount Units: ug/L

## Processing Integration Results



RT: 4.65  
Area: 474325  
Amount: 649.3448  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 11:33:18  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 576 of 733

## Eurofins Buffalo

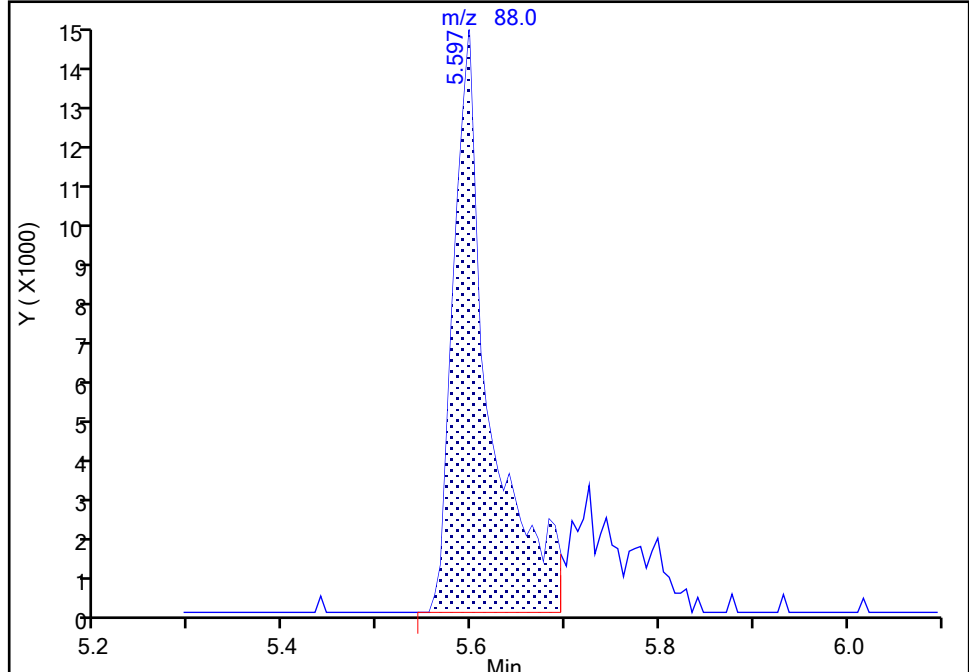
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Injection Date: 10-Aug-2022 01:14:30 Instrument ID: HP5973S  
Lims ID: ICV  
Client ID:  
Operator ID: AG ALS Bottle#: 34 Worklist Smp#: 34  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector: MS SCAN

**66 1,4-Dioxane, CAS: 123-91-1**

Signal: 1

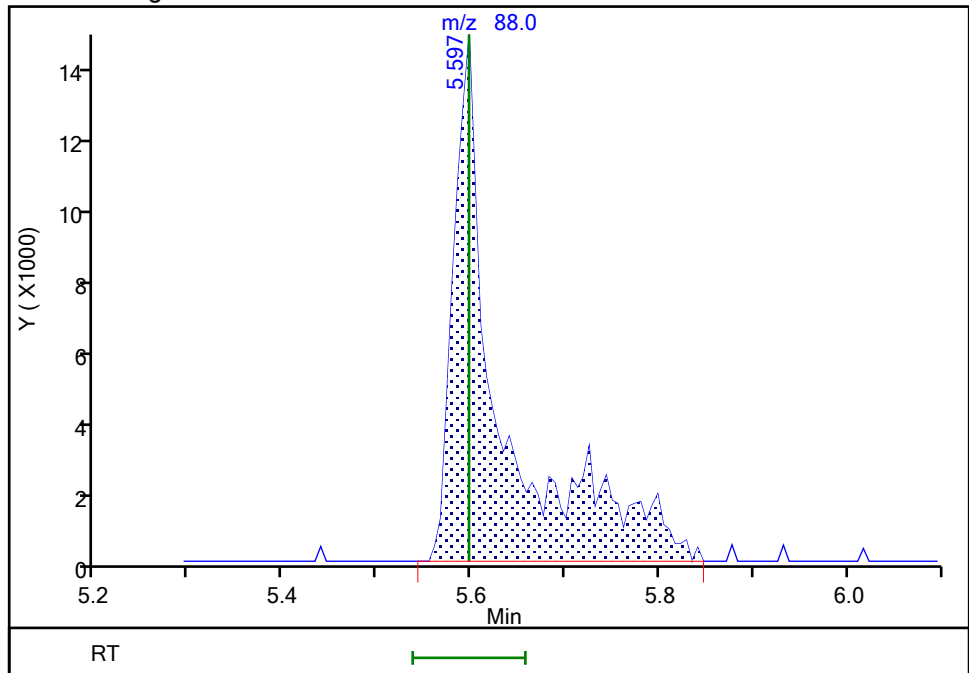
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Area: 38654  
Amount: 300.4423  
Amount Units: ug/L

## Processing Integration Results



RT: 5.60  
Area: 51070  
Amount: 351.9141  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 11:33:39  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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## Eurofins Buffalo

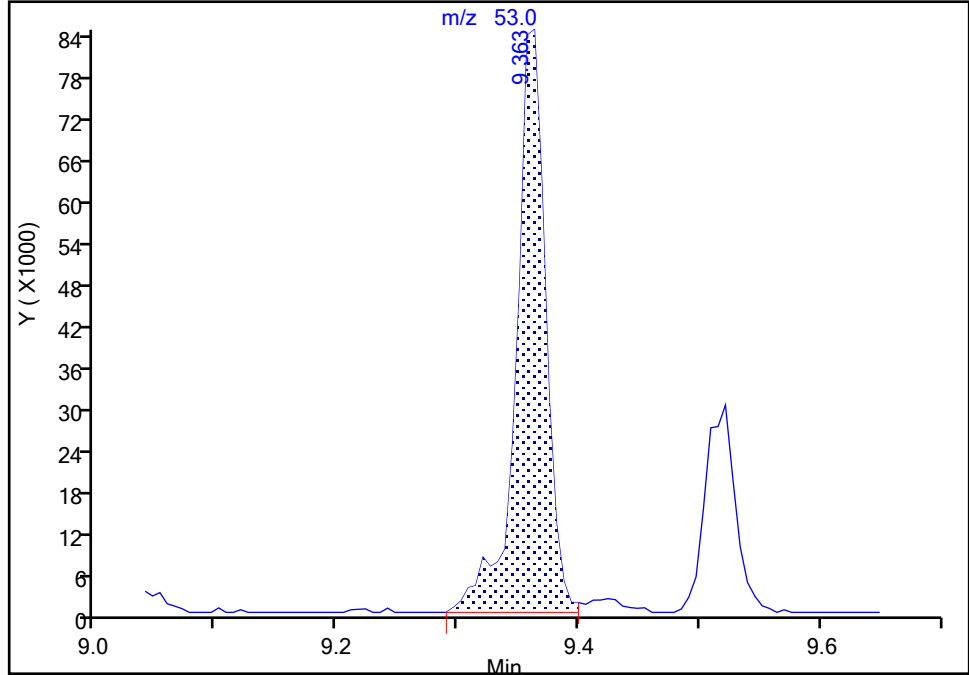
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Injection Date: 10-Aug-2022 01:14:30 Instrument ID: HP5973S  
Lims ID: ICV  
Client ID:  
Operator ID: AG ALS Bottle#: 34 Worklist Smp#: 34  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.18 mm) Detector MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

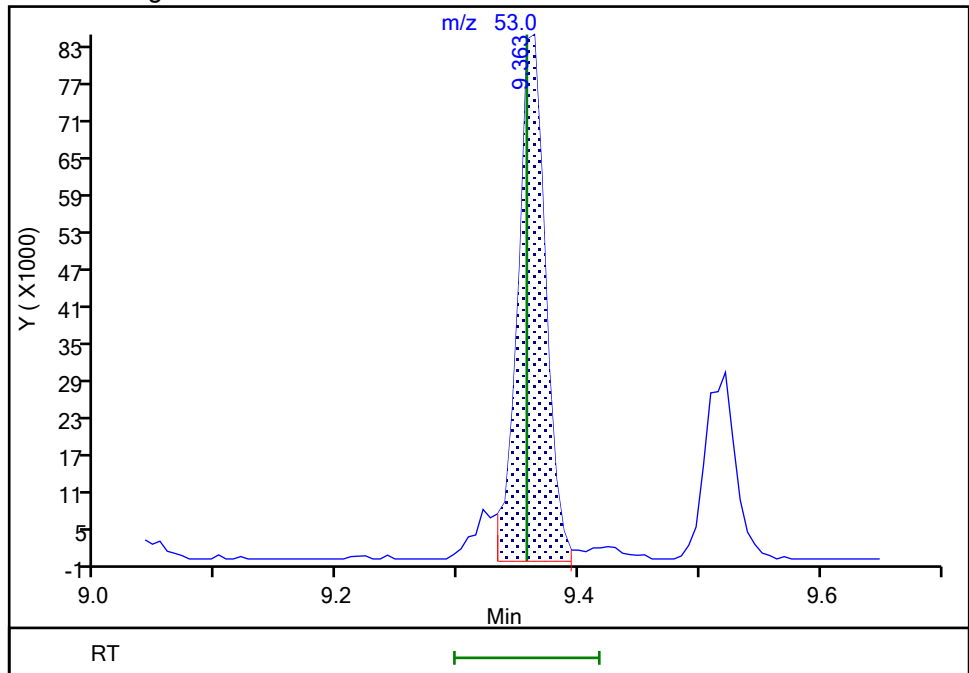
RT: 9.36  
Area: 144778  
Amount: 31.187747  
Amount Units: ug/L

## Processing Integration Results



RT: 9.36  
Area: 136798  
Amount: 29.480945  
Amount Units: ug/L

## Manual Integration Results



Reviewer: FGO5, 10-Aug-2022 11:34:11  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
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FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 480-637566/4 Calibration Date: 08/16/2022 11:17

Instrument ID: HP5973S Calib Start Date: 08/09/2022 17:06

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 08/09/2022 19:49

Lab File ID: S4713.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                               | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|---------------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Dichlorodifluoromethane               | Ave           | 2.049   | 1.648  | 0.1000  | 20.1           | 25.0            | -19.6 | 50.0      |
| Chloromethane                         | Ave           | 3.252   | 2.875  | 0.1000  | 22.1           | 25.0            | -11.6 | 20.0      |
| Vinyl chloride                        | Ave           | 2.065   | 1.862  | 0.1000  | 22.5           | 25.0            | -9.8  | 20.0      |
| Butadiene                             | Ave           | 2.438   | 2.195  |         | 22.5           | 25.0            | -9.9  | 20.0      |
| Bromomethane                          | Ave           | 1.206   | 1.054  | 0.1000  | 21.9           | 25.0            | -12.5 | 50.0      |
| Chloroethane                          | Ave           | 1.301   | 1.257  | 0.1000  | 24.1           | 25.0            | -3.4  | 50.0      |
| Trichlorofluoromethane                | Ave           | 2.590   | 2.239  | 0.1000  | 21.6           | 25.0            | -13.5 | 20.0      |
| Dichlorofluoromethane                 | Ave           | 2.892   | 2.683  |         | 23.2           | 25.0            | -7.2  | 20.0      |
| Ethyl ether                           | Ave           | 1.839   | 1.726  |         | 23.5           | 25.0            | -6.2  | 20.0      |
| Acrolein                              | Ave           | 0.2569  | 0.2471 |         | 120            | 125             | -3.8  | 50.0      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Ave           | 1.241   | 1.196  | 0.1000  | 24.1           | 25.0            | -3.6  | 20.0      |
| 1,1-Dichloroethene                    | Ave           | 1.368   | 1.264  | 0.1000  | 23.1           | 25.0            | -7.6  | 20.0      |
| Acetone                               | Ave           | 0.8070  | 0.7927 | 0.1000  | 123            | 125             | -1.8  | 50.0      |
| Iodomethane                           | Ave           | 2.428   | 2.322  |         | 23.9           | 25.0            | -4.4  | 20.0      |
| Carbon disulfide                      | Ave           | 4.412   | 4.442  | 0.1000  | 25.2           | 25.0            | 0.7   | 20.0      |
| Allyl chloride                        | Ave           | 3.287   | 3.015  |         | 22.9           | 25.0            | -8.3  | 20.0      |
| Methyl acetate                        | Ave           | 2.196   | 1.840  | 0.1000  | 41.9           | 50.0            | -16.2 | 50.0      |
| Methylene Chloride                    | Lin1          |         | 1.593  | 0.1000  | 23.0           | 25.0            | -8.0  | 20.0      |
| 2-Methyl-2-propanol                   | Ave           | 0.2386  | 0.2364 |         | 248            | 250             | -0.9  | 50.0      |
| Methyl tert-butyl ether               | Ave           | 5.489   | 4.862  | 0.1000  | 22.1           | 25.0            | -11.4 | 20.0      |
| trans-1,2-Dichloroethene              | Ave           | 1.714   | 1.539  | 0.1000  | 22.4           | 25.0            | -10.2 | 20.0      |
| Acrylonitrile                         | Ave           | 1.098   | 0.999  |         | 227            | 250             | -9.0  | 20.0      |
| Hexane                                | Ave           | 3.542   | 3.186  |         | 22.5           | 25.0            | -10.0 | 20.0      |
| 1,1-Dichloroethane                    | Ave           | 3.599   | 3.197  | 0.2000  | 22.2           | 25.0            | -11.2 | 20.0      |
| Vinyl acetate                         | Ave           | 4.870   | 4.556  |         | 46.8           | 50.0            | -6.4  | 20.0      |
| 2,2-Dichloropropane                   | Ave           | 1.991   | 1.789  |         | 22.5           | 25.0            | -10.2 | 20.0      |
| cis-1,2-Dichloroethene                | Ave           | 1.926   | 1.631  | 0.1000  | 21.2           | 25.0            | -15.3 | 20.0      |
| 2-Butanone (MEK)                      | Ave           | 1.363   | 1.222  | 0.1000  | 112            | 125             | -10.3 | 20.0      |
| Chlorobromomethane                    | Ave           | 1.054   | 0.8640 |         | 20.5           | 25.0            | -18.1 | 20.0      |
| Tetrahydrofuran                       | Ave           | 0.8946  | 0.7668 |         | 42.9           | 50.0            | -14.3 | 20.0      |
| Chloroform                            | Ave           | 3.184   | 2.639  | 0.2000  | 20.7           | 25.0            | -17.1 | 20.0      |
| 1,1,1-Trichloroethane                 | Ave           | 2.495   | 2.150  | 0.1000  | 21.5           | 25.0            | -13.8 | 20.0      |
| Cyclohexane                           | Ave           | 3.711   | 3.391  | 0.1000  | 22.8           | 25.0            | -8.6  | 20.0      |
| Carbon tetrachloride                  | Ave           | 2.114   | 1.830  | 0.1000  | 21.7           | 25.0            | -13.4 | 20.0      |
| 1,1-Dichloropropene                   | Ave           | 2.476   | 2.226  |         | 22.5           | 25.0            | -10.1 | 20.0      |
| Benzene                               | Ave           | 7.485   | 6.612  | 0.5000  | 22.1           | 25.0            | -11.7 | 20.0      |
| Isobutyl alcohol                      | Ave           | 0.0998  | 0.1097 |         | 686            | 625             | 9.8   | 50.0      |
| 1,2-Dichloroethane                    | Ave           | 3.002   | 2.465  | 0.1000  | 20.5           | 25.0            | -17.9 | 20.0      |
| n-Heptane                             | Ave           | 4.242   | 3.502  |         | 20.6           | 25.0            | -17.4 | 20.0      |
| Trichloroethene                       | Ave           | 1.845   | 1.576  | 0.2000  | 21.4           | 25.0            | -14.6 | 20.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 480-637566/4 Calibration Date: 08/16/2022 11:17

Instrument ID: HP5973S Calib Start Date: 08/09/2022 17:06

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 08/09/2022 19:49

Lab File ID: S4713.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Methylcyclohexane           | Ave           | 3.199   | 2.907  | 0.1000  | 22.7           | 25.0            | -9.2  | 20.0      |
| 1,2-Dichloropropane         | Ave           | 2.067   | 1.880  | 0.1000  | 22.7           | 25.0            | -9.0  | 20.0      |
| Dibromomethane              | Ave           | 1.101   | 0.9627 | 0.1000  | 21.9           | 25.0            | -12.6 | 20.0      |
| 1,4-Dioxane                 | Ave           | 0.0095  | 0.0096 |         | 509            | 500             | 1.7   | 50.0      |
| Bromodichloromethane        | Ave           | 2.138   | 1.941  | 0.2000  | 22.7           | 25.0            | -9.2  | 20.0      |
| 2-Chloroethyl vinyl ether   | Ave           | 1.391   | 1.283  |         | 23.1           | 25.0            | -7.8  | 20.0      |
| cis-1,3-Dichloropropene     | Ave           | 2.654   | 2.566  | 0.2000  | 24.2           | 25.0            | -3.3  | 20.0      |
| 4-Methyl-2-pentanone (MIBK) | Ave           | 1.466   | 1.297  | 0.1000  | 111            | 125             | -11.5 | 20.0      |
| Toluene                     | Ave           | 2.304   | 2.115  | 0.4000  | 22.9           | 25.0            | -8.2  | 20.0      |
| trans-1,3-Dichloropropene   | Ave           | 1.159   | 1.182  | 0.1000  | 25.5           | 25.0            | 2.0   | 20.0      |
| Ethyl methacrylate          | Ave           | 1.108   | 1.164  |         | 26.3           | 25.0            | 5.1   | 20.0      |
| 1,1,2-Trichloroethane       | Ave           | 0.6983  | 0.6313 | 0.1000  | 22.6           | 25.0            | -9.6  | 20.0      |
| Tetrachloroethene           | Ave           | 1.000   | 0.9071 | 0.2000  | 22.7           | 25.0            | -9.2  | 20.0      |
| 1,3-Dichloropropane         | Ave           | 1.482   | 1.331  |         | 22.5           | 25.0            | -10.2 | 20.0      |
| 2-Hexanone                  | Ave           | 1.005   | 0.9153 | 0.1000  | 114            | 125             | -9.0  | 20.0      |
| Dibromochloromethane        | Ave           | 0.6946  | 0.7143 | 0.1000  | 25.7           | 25.0            | 2.8   | 20.0      |
| 1,2-Dibromoethane           | Ave           | 0.8428  | 0.7689 |         | 22.8           | 25.0            | -8.8  | 20.0      |
| Chlorobenzene               | Ave           | 2.715   | 2.384  | 0.5000  | 22.0           | 25.0            | -12.2 | 20.0      |
| Ethylbenzene                | Ave           | 4.322   | 4.028  | 0.1000  | 23.3           | 25.0            | -6.8  | 20.0      |
| 1,1,1,2-Tetrachloroethane   | Ave           | 0.8908  | 0.7928 |         | 22.2           | 25.0            | -11.0 | 20.0      |
| m,p-Xylene                  | Ave           | 1.712   | 1.586  | 0.1000  | 23.2           | 25.0            | -7.4  | 20.0      |
| o-Xylene                    | Ave           | 1.653   | 1.545  | 0.3000  | 23.4           | 25.0            | -6.5  | 20.0      |
| Styrene                     | Ave           | 2.774   | 2.755  | 0.3000  | 24.8           | 25.0            | -0.7  | 20.0      |
| Bromoform                   | Ave           | 0.4622  | 0.4651 | 0.1000  | 25.2           | 25.0            | 0.6   | 50.0      |
| Isopropylbenzene            | Ave           | 4.118   | 3.932  | 0.1000  | 23.9           | 25.0            | -4.5  | 20.0      |
| Bromobenzene                | Ave           | 1.083   | 0.9816 |         | 22.7           | 25.0            | -9.4  | 20.0      |
| 1,1,2,2-Tetrachloroethane   | Ave           | 1.110   | 0.9758 | 0.3000  | 22.0           | 25.0            | -12.1 | 20.0      |
| N-Propylbenzene             | Ave           | 4.901   | 4.590  |         | 23.4           | 25.0            | -6.4  | 20.0      |
| 1,2,3-Trichloropropane      | Ave           | 0.3684  | 0.3185 |         | 21.6           | 25.0            | -13.5 | 20.0      |
| trans-1,4-Dichloro-2-butene | Ave           | 0.2890  | 0.3695 |         | 32.0           | 25.0            | 27.8  | 50.0      |
| 2-Chlorotoluene             | Ave           | 1.007   | 0.8849 |         | 22.0           | 25.0            | -12.2 | 20.0      |
| 1,3,5-Trimethylbenzene      | Ave           | 3.567   | 3.372  |         | 23.6           | 25.0            | -5.5  | 20.0      |
| 4-Chlorotoluene             | Ave           | 1.052   | 0.9795 |         | 23.3           | 25.0            | -6.9  | 20.0      |
| tert-Butylbenzene           | Ave           | 0.8055  | 0.7489 |         | 23.2           | 25.0            | -7.0  | 20.0      |
| 1,2,4-Trimethylbenzene      | Ave           | 3.569   | 3.427  |         | 24.0           | 25.0            | -4.0  | 20.0      |
| sec-Butylbenzene            | Ave           | 4.589   | 4.346  |         | 23.7           | 25.0            | -5.3  | 20.0      |
| 1,3-Dichlorobenzene         | Ave           | 2.188   | 1.947  | 0.6000  | 22.2           | 25.0            | -11.0 | 20.0      |
| 4-Isopropyltoluene          | Ave           | 3.847   | 3.812  |         | 24.8           | 25.0            | -0.9  | 20.0      |
| 1,4-Dichlorobenzene         | Ave           | 2.272   | 1.976  | 0.5000  | 21.7           | 25.0            | -13.0 | 20.0      |
| n-Butylbenzene              | Ave           | 3.450   | 3.337  |         | 24.2           | 25.0            | -3.3  | 20.0      |
| 1,2-Dichlorobenzene         | Ave           | 2.095   | 1.866  | 0.4000  | 22.3           | 25.0            | -10.9 | 20.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 480-637566/4 Calibration Date: 08/16/2022 11:17  
 Instrument ID: HP5973S Calib Start Date: 08/09/2022 17:06  
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 08/09/2022 19:49  
 Lab File ID: S4713.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.1860  | 0.1674 | 0.0500  | 22.5           | 25.0            | -10.0 | 50.0      |
| 1,2,4-Trichlorobenzene       | Ave           | 1.588   | 1.494  | 0.2000  | 23.5           | 25.0            | -5.9  | 20.0      |
| Hexachlorobutadiene          | Ave           | 0.6998  | 0.6319 |         | 22.6           | 25.0            | -9.7  | 20.0      |
| Naphthalene                  | Ave           | 3.712   | 3.545  |         | 23.9           | 25.0            | -4.5  | 20.0      |
| 1,2,3-Trichlorobenzene       | Ave           | 1.563   | 1.393  |         | 22.3           | 25.0            | -10.9 | 20.0      |
| Dibromofluoromethane (Surr)  | Ave           | 1.270   | 1.203  |         | 23.7           | 25.0            | -5.2  | 20.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.8657  | 0.7872 |         | 22.7           | 25.0            | -9.1  | 20.0      |
| Toluene-d8 (Surr)            | Ave           | 2.437   | 2.392  |         | 24.5           | 25.0            | -1.8  | 20.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.8092  | 0.8289 |         | 25.6           | 25.0            | 2.4   | 20.0      |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4713.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 16-Aug-2022 11:17:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 480-0107106-004  
 Operator ID: AG Instrument ID: HP5973S  
 Sublist: chrom-S-8260\*sub26  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 16-Aug-2022 11:36:49 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1642

First Level Reviewer: FGO5

Date: 16-Aug-2022 11:36:49

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 153 Fluorobenzene (IS)                 | 70  | 4.867        | 4.867            | 0.000            | 97  | 226334   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 82  | 7.824        | 7.824            | 0.000            | 86  | 443683   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 10.263       | 10.263           | 0.000            | 56  | 471783   | 25.0            | 25.0              |       |
| \$ 154 Dibromofluoromethane (Surr)       | 113 | 4.301        | 4.301            | 0.000            | 58  | 272276   | 25.0            | 23.7              |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)        | 67  | 4.600        | 4.600            | 0.000            | 55  | 178179   | 25.0            | 22.7              |       |
| \$ 5 Toluene-d8 (Surr)                   | 98  | 6.358        | 6.358            | 0.000            | 47  | 1061282  | 25.0            | 24.5              |       |
| \$ 6 4-Bromofluorobenzene (Surr)         | 174 | 9.077        | 9.077            | 0.000            | 90  | 367783   | 25.0            | 25.6              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.035        | 1.035            | 0.000            | 98  | 373067   | 25.0            | 20.1              |       |
| 12 Chloromethane                         | 50  | 1.181        | 1.181            | 0.000            | 100 | 650627   | 25.0            | 22.1              |       |
| 13 Vinyl chloride                        | 62  | 1.241        | 1.241            | 0.000            | 81  | 421535   | 25.0            | 22.5              |       |
| 151 Butadiene                            | 54  | 1.266        | 1.266            | 0.000            | 87  | 496886   | 25.0            | 22.5              |       |
| 14 Bromomethane                          | 94  | 1.503        | 1.503            | 0.000            | 91  | 238658   | 25.0            | 21.9              |       |
| 15 Chloroethane                          | 64  | 1.576        | 1.576            | 0.000            | 98  | 284393   | 25.0            | 24.1              |       |
| 17 Trichlorofluoromethane                | 101 | 1.740        | 1.740            | 0.000            | 97  | 506852   | 25.0            | 21.6              |       |
| 16 Dichlorofluoromethane                 | 67  | 1.759        | 1.759            | 0.000            | 97  | 607251   | 25.0            | 23.2              |       |
| 18 Ethyl ether                           | 59  | 1.996        | 1.996            | 0.000            | 96  | 390548   | 25.0            | 23.5              |       |
| 20 Acrolein                              | 56  | 2.166        | 2.166            | 0.000            | 94  | 279625   | 125.0           | 120.2             |       |
| 21 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 2.184        | 2.184            | 0.000            | 59  | 270709   | 25.0            | 24.1              |       |
| 22 1,1-Dichloroethene                    | 96  | 2.197        | 2.197            | 0.000            | 92  | 286084   | 25.0            | 23.1              |       |
| 23 Acetone                               | 43  | 2.312        | 2.312            | 0.000            | 99  | 897019   | 125.0           | 122.8             |       |
| 25 Iodomethane                           | 142 | 2.336        | 2.336            | 0.000            | 95  | 525594   | 25.0            | 23.9              |       |
| 26 Carbon disulfide                      | 76  | 2.367        | 2.367            | 0.000            | 98  | 1005379  | 25.0            | 25.2              |       |
| 28 3-Chloro-1-propene                    | 41  | 2.543        | 2.543            | 0.000            | 88  | 682349   | 25.0            | 22.9              |       |
| 27 Methyl acetate                        | 43  | 2.592        | 2.592            | 0.000            | 99  | 832746   | 50.0            | 41.9              |       |
| 30 Methylene Chloride                    | 84  | 2.677        | 2.677            | 0.000            | 96  | 360443   | 25.0            | 23.0              |       |
| 31 2-Methyl-2-propanol                   | 59  | 2.860        | 2.860            | 0.000            | 87  | 535106   | 250.0           | 247.7             |       |
| 32 Methyl tert-butyl ether               | 73  | 2.884        | 2.884            | 0.000            | 93  | 1100337  | 25.0            | 22.1              |       |
| 34 trans-1,2-Dichloroethene              | 96  | 2.896        | 2.896            | 0.000            | 91  | 348276   | 25.0            | 22.4              |       |
| 33 Acrylonitrile                         | 53  | 2.957        | 2.957            | 0.000            | 99  | 2261699  | 250.0           | 227.4             |       |
| 35 Hexane                                | 57  | 3.085        | 3.085            | 0.000            | 93  | 721162   | 25.0            | 22.5              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane          | 63  | 3.298     | 3.298         | 0.000         | 97 | 723677   | 25.0         | 22.2           |       |
| 37 Vinyl acetate               | 43  | 3.359     | 3.359         | 0.000         | 97 | 2062464  | 50.0         | 46.8           |       |
| 44 2,2-Dichloropropane         | 77  | 3.797     | 3.797         | 0.000         | 92 | 404846   | 25.0         | 22.5           |       |
| 45 cis-1,2-Dichloroethene      | 96  | 3.839     | 3.839         | 0.000         | 83 | 369098   | 25.0         | 21.2           |       |
| 43 2-Butanone (MEK)            | 43  | 3.882     | 3.882         | 0.000         | 97 | 1383338  | 125.0        | 112.1          |       |
| 48 Chlorobromomethane          | 128 | 4.070     | 4.070         | 0.000         | 92 | 195563   | 25.0         | 20.5           |       |
| 49 Tetrahydrofuran             | 42  | 4.082     | 4.082         | 0.000         | 91 | 347087   | 50.0         | 42.9           |       |
| 50 Chloroform                  | 83  | 4.149     | 4.149         | 0.000         | 95 | 597301   | 25.0         | 20.7           |       |
| 51 1,1,1-Trichloroethane       | 97  | 4.247     | 4.247         | 0.000         | 78 | 486714   | 25.0         | 21.5           |       |
| 52 Cyclohexane                 | 56  | 4.247     | 4.247         | 0.000         | 93 | 767577   | 25.0         | 22.8           |       |
| 55 Carbon tetrachloride        | 117 | 4.381     | 4.381         | 0.000         | 91 | 414299   | 25.0         | 21.7           |       |
| 54 1,1-Dichloropropene         | 75  | 4.399     | 4.399         | 0.000         | 93 | 503894   | 25.0         | 22.5           |       |
| 57 Benzene                     | 78  | 4.600     | 4.600         | 0.000         | 96 | 1496541  | 25.0         | 22.1           |       |
| 53 Isobutyl alcohol            | 43  | 4.654     | 4.654         | 0.000         | 61 | 620479   | 625.0        | 686.5          |       |
| 58 1,2-Dichloroethane          | 62  | 4.673     | 4.673         | 0.000         | 81 | 557812   | 25.0         | 20.5           |       |
| 59 n-Heptane                   | 43  | 4.788     | 4.788         | 0.000         | 96 | 792658   | 25.0         | 20.6           |       |
| 62 Trichloroethene             | 95  | 5.202     | 5.202         | 0.000         | 94 | 356689   | 25.0         | 21.4           |       |
| 64 Methylcyclohexane           | 83  | 5.311     | 5.311         | 0.000         | 97 | 657855   | 25.0         | 22.7           |       |
| 65 1,2-Dichloropropane         | 63  | 5.439     | 5.439         | 0.000         | 94 | 425543   | 25.0         | 22.7           |       |
| 67 Dibromomethane              | 93  | 5.579     | 5.579         | 0.000         | 88 | 217903   | 25.0         | 21.9           |       |
| 66 1,4-Dioxane                 | 88  | 5.591     | 5.591         | 0.000         | 71 | 85430    | 500.0        | 508.7          |       |
| 68 Dichlorobromomethane        | 83  | 5.737     | 5.737         | 0.000         | 98 | 439379   | 25.0         | 22.7           |       |
| 69 2-Chloroethyl vinyl ether   | 63  | 6.023     | 6.023         | 0.000         | 91 | 290368   | 25.0         | 23.1           |       |
| 72 cis-1,3-Dichloropropene     | 75  | 6.151     | 6.151         | 0.000         | 90 | 580723   | 25.0         | 24.2           |       |
| 73 4-Methyl-2-pentanone (MIBK) | 43  | 6.303     | 6.303         | 0.000         | 98 | 2877636  | 125.0        | 110.6          |       |
| 74 Toluene                     | 92  | 6.425     | 6.425         | 0.000         | 94 | 938278   | 25.0         | 22.9           |       |
| 77 trans-1,3-Dichloropropene   | 75  | 6.717     | 6.717         | 0.000         | 98 | 524597   | 25.0         | 25.5           |       |
| 75 Ethyl methacrylate          | 69  | 6.777     | 6.777         | 0.000         | 75 | 516388   | 25.0         | 26.3           |       |
| 79 1,1,2-Trichloroethane       | 83  | 6.899     | 6.899         | 0.000         | 94 | 280106   | 25.0         | 22.6           |       |
| 81 Tetrachloroethene           | 166 | 6.942     | 6.942         | 0.000         | 90 | 402470   | 25.0         | 22.7           |       |
| 82 1,3-Dichloropropane         | 76  | 7.057     | 7.057         | 0.000         | 97 | 590591   | 25.0         | 22.5           |       |
| 80 2-Hexanone                  | 43  | 7.136     | 7.136         | 0.000         | 99 | 2030469  | 125.0        | 113.8          |       |
| 83 Chlorodibromomethane        | 129 | 7.288     | 7.288         | 0.000         | 87 | 316919   | 25.0         | 25.7           |       |
| 84 Ethylene Dibromide          | 107 | 7.380     | 7.380         | 0.000         | 99 | 341132   | 25.0         | 22.8           |       |
| 87 Chlorobenzene               | 112 | 7.854     | 7.854         | 0.000         | 94 | 1057650  | 25.0         | 22.0           |       |
| 88 Ethylbenzene                | 91  | 7.952     | 7.952         | 0.000         | 99 | 1787345  | 25.0         | 23.3           |       |
| 89 1,1,1,2-Tetrachloroethane   | 131 | 7.958     | 7.958         | 0.000         | 46 | 351743   | 25.0         | 22.2           |       |
| 90 m-Xylene & p-Xylene         | 106 | 8.073     | 8.073         | 0.000         | 98 | 703639   | 25.0         | 23.2           |       |
| 91 o-Xylene                    | 106 | 8.493     | 8.493         | 0.000         | 98 | 685399   | 25.0         | 23.4           |       |
| 92 Styrene                     | 104 | 8.530     | 8.530         | 0.000         | 91 | 1222164  | 25.0         | 24.8           |       |
| 95 Bromoform                   | 173 | 8.767     | 8.767         | 0.000         | 96 | 206346   | 25.0         | 25.2           |       |
| 94 Isopropylbenzene            | 105 | 8.882     | 8.882         | 0.000         | 96 | 1854892  | 25.0         | 23.9           |       |
| 101 Bromobenzene               | 156 | 9.223     | 9.223         | 0.000         | 95 | 463085   | 25.0         | 22.7           |       |
| 97 1,1,2,2-Tetrachloroethane   | 83  | 9.314     | 9.314         | 0.000         | 62 | 460350   | 25.0         | 22.0           |       |
| 99 N-Propylbenzene             | 91  | 9.326     | 9.326         | 0.000         | 98 | 2165289  | 25.0         | 23.4           |       |
| 100 1,2,3-Trichloropropane     | 110 | 9.339     | 9.339         | 0.000         | 67 | 150285   | 25.0         | 21.6           |       |
| 98 trans-1,4-Dichloro-2-butene | 53  | 9.363     | 9.363         | 0.000         | 49 | 174319   | 25.0         | 32.0           |       |
| 103 2-Chlorotoluene            | 126 | 9.424     | 9.424         | 0.000         | 96 | 417488   | 25.0         | 22.0           |       |
| 102 1,3,5-Trimethylbenzene     | 105 | 9.515     | 9.515         | 0.000         | 93 | 1590883  | 25.0         | 23.6           |       |
| 105 4-Chlorotoluene            | 126 | 9.545     | 9.545         | 0.000         | 98 | 462135   | 25.0         | 23.3           |       |
| 106 tert-Butylbenzene          | 134 | 9.844     | 9.844         | 0.000         | 92 | 353317   | 25.0         | 23.2           |       |
| 107 1,2,4-Trimethylbenzene     | 105 | 9.904     | 9.904         | 0.000         | 55 | 1616635  | 25.0         | 24.0           |       |

| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 109 sec-Butylbenzene            | 105 | 10.063       | 10.063           | 0.000            | 93 | 2050339  | 25.0            | 23.7              |       |
| 111 1,3-Dichlorobenzene         | 146 | 10.196       | 10.196           | 0.000            | 98 | 918494   | 25.0            | 22.2              |       |
| 110 4-Isopropyltoluene          | 119 | 10.215       | 10.215           | 0.000            | 97 | 1798294  | 25.0            | 24.8              |       |
| 113 1,4-Dichlorobenzene         | 146 | 10.288       | 10.288           | 0.000            | 95 | 932173   | 25.0            | 21.7              |       |
| 115 n-Butylbenzene              | 91  | 10.610       | 10.610           | 0.000            | 95 | 1574365  | 25.0            | 24.2              |       |
| 116 1,2-Dichlorobenzene         | 146 | 10.647       | 10.647           | 0.000            | 97 | 880152   | 25.0            | 22.3              |       |
| 117 1,2-Dibromo-3-Chloropropane | 75  | 11.395       | 11.395           | 0.000            | 75 | 78975    | 25.0            | 22.5              |       |
| 119 1,2,4-Trichlorobenzene      | 180 | 12.076       | 12.076           | 0.000            | 93 | 704837   | 25.0            | 23.5              |       |
| 120 Hexachlorobutadiene         | 225 | 12.192       | 12.192           | 0.000            | 95 | 298121   | 25.0            | 22.6              |       |
| 121 Naphthalene                 | 128 | 12.283       | 12.283           | 0.000            | 97 | 1672614  | 25.0            | 23.9              |       |
| 122 1,2,3-Trichlorobenzene      | 180 | 12.490       | 12.490           | 0.000            | 96 | 656998   | 25.0            | 22.3              |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

|                     |                     |           |             |
|---------------------|---------------------|-----------|-------------|
| 8260 CORP mix_00227 | Amount Added: 12.50 | Units: uL |             |
| GAS CORP mix_00524  | Amount Added: 12.50 | Units: uL |             |
| S_8260_IS_00358     | Amount Added: 1.00  | Units: uL | Run Reagent |
| S_8260_Surr_00427   | Amount Added: 1.00  | Units: uL | Run Reagent |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4713.D

Injection Date: 16-Aug-2022 11:17:30

Instrument ID: HP5973S

Lims ID: CCVIS

Operator ID: AG

Client ID:

Worklist Smp#: 4

Purge Vol: 5.000 mL

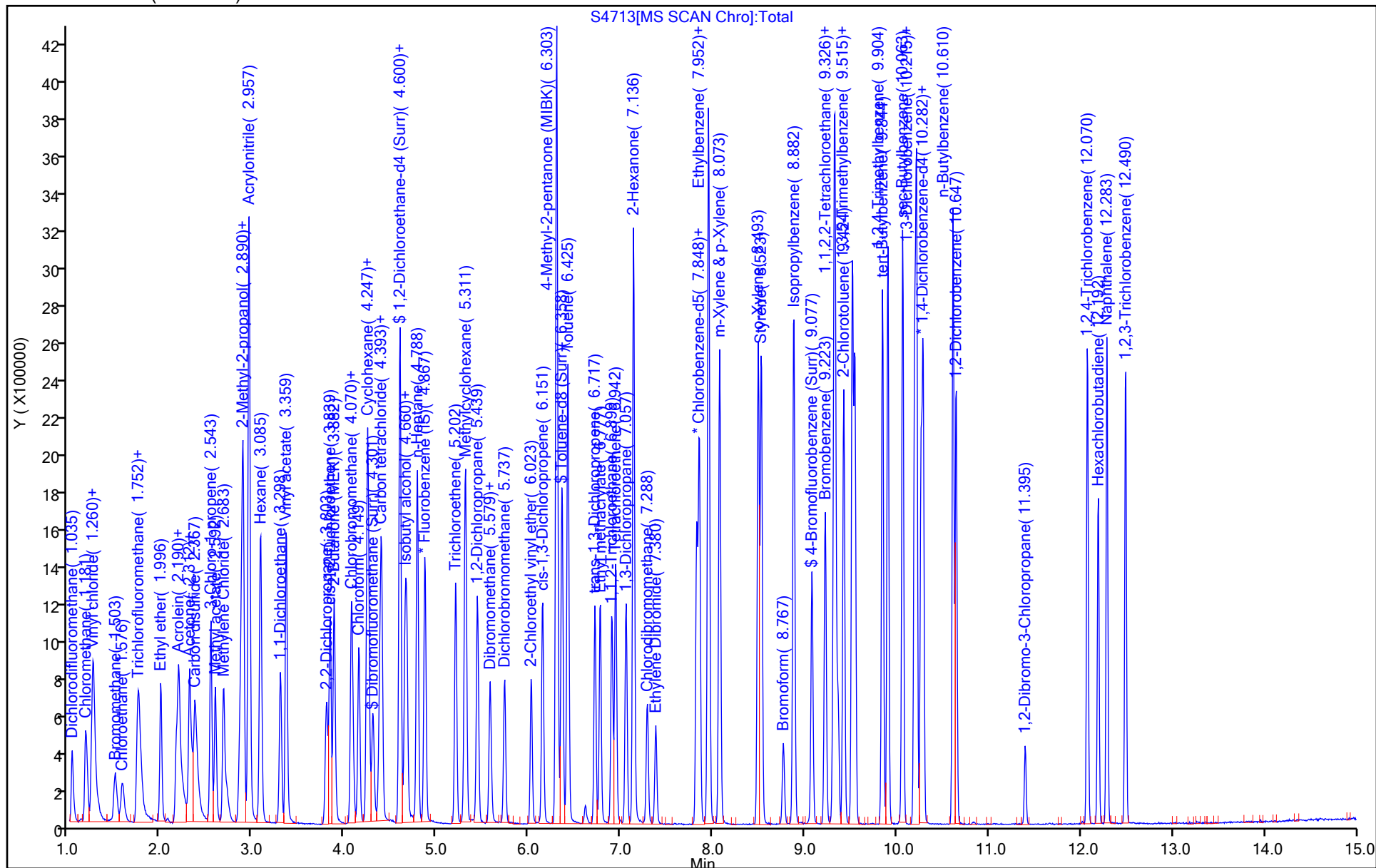
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 480-632802/30 Calibration Date: 07/07/2022 21:44

Instrument ID: HP5977L Calib Start Date: 07/07/2022 12:02

GC Column: ZB-624 (30) VOA ID: 0.25 (mm) Calib End Date: 07/07/2022 15:16

Lab File ID: L18046.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                               | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|---------------------------------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Dichlorodifluoromethane               | Ave           | 1.547   | 1.637  | 0.1000  | 26.5           | 25.0            | 5.8  | 50.0      |
| Chloromethane                         | Ave           | 1.447   | 1.376  | 0.1000  | 23.8           | 25.0            | -4.9 | 30.0      |
| Vinyl chloride                        | Ave           | 1.372   | 1.413  | 0.1000  | 25.7           | 25.0            | 2.9  | 30.0      |
| Butadiene                             | Ave           | 1.111   | 1.101  |         | 24.8           | 25.0            | -0.9 | 30.0      |
| Bromomethane                          | Ave           | 1.018   | 1.068  | 0.1000  | 26.2           | 25.0            | 5.0  | 50.0      |
| Chloroethane                          | Ave           | 0.8415  | 0.8317 | 0.1000  | 24.7           | 25.0            | -1.2 | 50.0      |
| Dichlorofluoromethane                 | Ave           | 1.909   | 1.904  |         | 24.9           | 25.0            | -0.3 | 30.0      |
| Trichlorofluoromethane                | Ave           | 1.785   | 1.880  | 0.1000  | 26.3           | 25.0            | 5.4  | 30.0      |
| Ethyl ether                           | Ave           | 1.169   | 1.195  |         | 25.6           | 25.0            | 2.2  | 30.0      |
| Acrolein                              | Ave           | 0.2355  | 0.2398 |         | 127            | 125             | 1.8  | 50.0      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Ave           | 1.160   | 1.279  | 0.1000  | 27.6           | 25.0            | 10.3 | 30.0      |
| 1,1-Dichloroethene                    | Ave           | 1.135   | 1.220  | 0.1000  | 26.9           | 25.0            | 7.5  | 30.0      |
| Acetone                               | Ave           | 0.5466  | 0.5981 | 0.1000  | 137            | 125             | 9.4  | 50.0      |
| Iodomethane                           | Ave           | 2.078   | 2.189  |         | 26.3           | 25.0            | 5.3  | 30.0      |
| Carbon disulfide                      | Ave           | 3.145   | 3.395  | 0.1000  | 27.0           | 25.0            | 8.0  | 30.0      |
| Allyl chloride                        | Ave           | 1.779   | 1.726  |         | 24.3           | 25.0            | -3.0 | 30.0      |
| Methyl acetate                        | Ave           | 1.560   | 1.541  | 0.1000  | 49.4           | 50.0            | -1.3 | 50.0      |
| Methylene Chloride                    | Lin1          |         | 1.475  | 0.1000  | 25.2           | 25.0            | 0.9  | 30.0      |
| 2-Methyl-2-propanol                   | Ave           | 0.2395  | 0.2529 |         | 264            | 250             | 5.6  | 50.0      |
| Methyl tert-butyl ether               | Ave           | 4.488   | 4.588  | 0.1000  | 25.6           | 25.0            | 2.2  | 30.0      |
| trans-1,2-Dichloroethene              | Ave           | 1.391   | 1.480  | 0.1000  | 26.6           | 25.0            | 6.4  | 30.0      |
| Acrylonitrile                         | Ave           | 0.7657  | 0.7854 |         | 256            | 250             | 2.6  | 30.0      |
| Hexane                                | Ave           | 1.853   | 1.900  |         | 25.6           | 25.0            | 2.5  | 30.0      |
| 1,1-Dichloroethane                    | Ave           | 2.268   | 2.367  | 0.2000  | 26.1           | 25.0            | 4.4  | 30.0      |
| Vinyl acetate                         | Ave           | 2.915   | 2.984  |         | 51.2           | 50.0            | 2.4  | 30.0      |
| 2,2-Dichloropropane                   | Ave           | 1.366   | 1.255  |         | 23.0           | 25.0            | -8.1 | 30.0      |
| cis-1,2-Dichloroethene                | Ave           | 1.567   | 1.640  | 0.1000  | 26.2           | 25.0            | 4.6  | 30.0      |
| 2-Butanone (MEK)                      | Ave           | 1.028   | 1.048  | 0.1000  | 127            | 125             | 2.0  | 30.0      |
| Chlorobromomethane                    | Ave           | 0.8304  | 0.8612 |         | 25.9           | 25.0            | 3.7  | 30.0      |
| Tetrahydrofuran                       | Ave           | 0.7206  | 0.7187 |         | 49.9           | 50.0            | -0.3 | 30.0      |
| Chloroform                            | Ave           | 2.454   | 2.488  | 0.2000  | 25.3           | 25.0            | 1.4  | 30.0      |
| 1,1,1-Trichloroethane                 | Ave           | 1.983   | 2.126  | 0.1000  | 26.8           | 25.0            | 7.2  | 30.0      |
| Cyclohexane                           | Ave           | 2.134   | 2.276  | 0.1000  | 26.7           | 25.0            | 6.6  | 30.0      |
| Carbon tetrachloride                  | Ave           | 1.647   | 1.796  | 0.1000  | 27.3           | 25.0            | 9.0  | 30.0      |
| 1,1-Dichloropropene                   | Ave           | 1.871   | 1.966  |         | 26.3           | 25.0            | 5.1  | 30.0      |
| Isobutyl alcohol                      | Ave           | 0.1103  | 0.1193 |         | 676            | 625             | 8.1  | 50.0      |
| Benzene                               | Ave           | 5.671   | 5.761  | 0.5000  | 25.4           | 25.0            | 1.6  | 30.0      |
| 1,2-Dichloroethane                    | Ave           | 1.955   | 1.944  | 0.1000  | 24.9           | 25.0            | -0.6 | 30.0      |
| n-Heptane                             | Ave           | 2.113   | 2.024  |         | 23.9           | 25.0            | -4.2 | 30.0      |
| Trichloroethene                       | Ave           | 1.474   | 1.539  | 0.2000  | 26.1           | 25.0            | 4.4  | 30.0      |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 480-632802/30 Calibration Date: 07/07/2022 21:44  
 Instrument ID: HP5977L Calib Start Date: 07/07/2022 12:02  
 GC Column: ZB-624 (30) VOA ID: 0.25 (mm) Calib End Date: 07/07/2022 15:16  
 Lab File ID: L18046.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Methylcyclohexane           | Ave           | 2.376   | 2.574  | 0.1000  | 27.1           | 25.0            | 8.3  | 30.0      |
| 1,2-Dichloropropane         | Ave           | 1.344   | 1.407  | 0.1000  | 26.2           | 25.0            | 4.7  | 30.0      |
| 1,4-Dioxane                 | Ave           | 0.0048  | 0.0054 |         | 572            | 500             | 14.5 | 50.0      |
| Dibromomethane              | Ave           | 0.9550  | 0.9819 | 0.1000  | 25.7           | 25.0            | 2.8  | 30.0      |
| Bromodichloromethane        | Ave           | 1.650   | 1.763  | 0.2000  | 26.7           | 25.0            | 6.9  | 30.0      |
| 2-Chloroethyl vinyl ether   | Ave           | 1.086   | 1.147  |         | 26.4           | 25.0            | 5.6  | 30.0      |
| cis-1,3-Dichloropropene     | Ave           | 2.190   | 2.311  | 0.2000  | 26.4           | 25.0            | 5.5  | 30.0      |
| 4-Methyl-2-pentanone (MIBK) | Ave           | 0.5026  | 0.4988 | 0.1000  | 124            | 125             | -0.8 | 30.0      |
| Toluene                     | Ave           | 0.9199  | 0.9207 | 0.4000  | 25.0           | 25.0            | 0.0  | 30.0      |
| trans-1,3-Dichloropropene   | Ave           | 0.5047  | 0.5349 | 0.1000  | 26.5           | 25.0            | 6.0  | 30.0      |
| Ethyl methacrylate          | Ave           | 0.5269  | 0.5577 |         | 26.5           | 25.0            | 5.8  | 30.0      |
| 1,1,2-Trichloroethane       | Ave           | 0.2878  | 0.2923 | 0.1000  | 25.4           | 25.0            | 1.5  | 30.0      |
| Tetrachloroethene           | Ave           | 0.4101  | 0.4145 | 0.2000  | 25.3           | 25.0            | 1.1  | 30.0      |
| 1,3-Dichloropropane         | Ave           | 0.6177  | 0.6164 |         | 24.9           | 25.0            | -0.2 | 30.0      |
| 2-Hexanone                  | Ave           | 0.3561  | 0.3610 | 0.1000  | 127            | 125             | 1.4  | 30.0      |
| Dibromochloromethane        | Ave           | 0.3178  | 0.3444 | 0.1000  | 27.1           | 25.0            | 8.4  | 30.0      |
| 1,2-Dibromoethane           | Ave           | 0.3781  | 0.3852 |         | 25.5           | 25.0            | 1.9  | 30.0      |
| Chlorobenzene               | Ave           | 1.039   | 1.043  | 0.5000  | 25.1           | 25.0            | 0.4  | 30.0      |
| Ethylbenzene                | Ave           | 1.666   | 1.685  | 0.1000  | 25.3           | 25.0            | 1.1  | 30.0      |
| 1,1,1,2-Tetrachloroethane   | Ave           | 0.3408  | 0.3618 |         | 26.5           | 25.0            | 6.2  | 30.0      |
| m,p-Xylene                  | Ave           | 0.6598  | 0.6740 | 0.1000  | 25.5           | 25.0            | 2.1  | 30.0      |
| o-Xylene                    | Ave           | 0.6483  | 0.6658 | 0.3000  | 25.7           | 25.0            | 2.7  | 30.0      |
| Styrene                     | Ave           | 1.078   | 1.124  | 0.3000  | 26.1           | 25.0            | 4.3  | 30.0      |
| Bromoform                   | Ave           | 0.2186  | 0.2402 | 0.1000  | 27.5           | 25.0            | 9.9  | 50.0      |
| Isopropylbenzene            | Ave           | 3.186   | 3.332  | 0.1000  | 26.1           | 25.0            | 4.6  | 30.0      |
| Bromobenzene                | Ave           | 0.8343  | 0.8338 |         | 25.0           | 25.0            | -0.0 | 30.0      |
| 1,1,2,2-Tetrachloroethane   | Ave           | 1.023   | 1.034  | 0.3000  | 25.3           | 25.0            | 1.0  | 30.0      |
| N-Propylbenzene             | Ave           | 3.702   | 3.815  |         | 25.8           | 25.0            | 3.0  | 30.0      |
| trans-1,4-Dichloro-2-butene | Ave           | 0.2768  | 0.2811 |         | 25.4           | 25.0            | 1.5  | 50.0      |
| 1,2,3-Trichloropropane      | Ave           | 0.3654  | 0.3563 |         | 24.4           | 25.0            | -2.5 | 30.0      |
| 2-Chlorotoluene             | Ave           | 0.7690  | 0.7937 |         | 25.8           | 25.0            | 3.2  | 30.0      |
| 1,3,5-Trimethylbenzene      | Ave           | 2.619   | 2.734  |         | 26.1           | 25.0            | 4.4  | 30.0      |
| 4-Chlorotoluene             | Ave           | 2.291   | 2.278  |         | 24.9           | 25.0            | -0.6 | 30.0      |
| tert-Butylbenzene           | Ave           | 0.6074  | 0.6447 |         | 26.5           | 25.0            | 6.1  | 30.0      |
| 1,2,4-Trimethylbenzene      | Ave           | 2.687   | 2.795  |         | 26.0           | 25.0            | 4.0  | 30.0      |
| sec-Butylbenzene            | Ave           | 3.378   | 3.583  |         | 26.5           | 25.0            | 6.1  | 30.0      |
| 4-Isopropyltoluene          | Ave           | 2.927   | 3.096  |         | 26.4           | 25.0            | 5.7  | 30.0      |
| 1,3-Dichlorobenzene         | Ave           | 1.597   | 1.588  | 0.6000  | 24.9           | 25.0            | -0.5 | 30.0      |
| 1,4-Dichlorobenzene         | Ave           | 1.645   | 1.609  | 0.5000  | 24.4           | 25.0            | -2.2 | 30.0      |
| n-Butylbenzene              | Ave           | 2.604   | 2.695  |         | 25.9           | 25.0            | 3.5  | 30.0      |
| 1,2-Dichlorobenzene         | Ave           | 1.578   | 1.559  | 0.4000  | 24.7           | 25.0            | -1.2 | 30.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 480-632802/30 Calibration Date: 07/07/2022 21:44  
 Instrument ID: HP5977L Calib Start Date: 07/07/2022 12:02  
 GC Column: ZB-624 (30) VOA ID: 0.25 (mm) Calib End Date: 07/07/2022 15:16  
 Lab File ID: L18046.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D  | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|-----|-----------|
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.2084  | 0.2205 | 0.0500  | 26.5           | 25.0            | 5.8 | 50.0      |
| 1,2,4-Trichlorobenzene       | Ave           | 1.185   | 1.211  | 0.2000  | 25.5           | 25.0            | 2.2 | 30.0      |
| Hexachlorobutadiene          | Ave           | 0.5133  | 0.5625 |         | 27.4           | 25.0            | 9.6 | 30.0      |
| Naphthalene                  | Ave           | 3.653   | 3.891  |         | 26.6           | 25.0            | 6.5 | 30.0      |
| 1,2,3-Trichlorobenzene       | Ave           | 1.122   | 1.172  |         | 26.1           | 25.0            | 4.4 | 30.0      |
| Dibromofluoromethane (Surr)  | Ave           | 1.269   | 1.301  |         | 25.6           | 25.0            | 2.5 | 30.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 1.438   | 1.474  |         | 25.6           | 25.0            | 2.5 | 30.0      |
| Toluene-d8 (Surr)            | Ave           | 1.248   | 1.257  |         | 25.2           | 25.0            | 0.7 | 30.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.3906  | 0.3961 |         | 25.4           | 25.0            | 1.4 | 30.0      |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18046.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 07-Jul-2022 21:44:45 ALS Bottle#: 0 Worklist Smp#: 30  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ICV  
 Misc. Info.: 480-0106458-030  
 Operator ID: LH Instrument ID: HP5977L  
 Sublist:  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 11-Jul-2022 12:22:29 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1661

First Level Reviewer: WLL8

Date: 11-Jul-2022 12:11:25

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.773            | 0.003            | 99  | 171161   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.666        | 8.667            | -0.001           | 84  | 686205   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.065       | 11.065           | 0.000            | 93  | 361836   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226        | 5.226            | 0.000            | 95  | 222725   | 25.0            | 25.6              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.528        | 5.525            | 0.003            | 97  | 252344   | 25.0            | 25.6              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.203        | 7.204            | -0.001           | 93  | 862389   | 25.0            | 25.2              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911        | 9.911            | 0.000            | 99  | 271792   | 25.0            | 25.4              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.776        | 1.770            | 0.006            | 99  | 280213   | 25.0            | 26.5              |       |
| 13 Chloromethane                         | 50  | 2.017        | 2.011            | 0.006            | 99  | 235600   | 25.0            | 23.8              |       |
| 14 Vinyl chloride                        | 62  | 2.117        | 2.114            | 0.003            | 97  | 241824   | 25.0            | 25.7              |       |
| 15 Butadiene                             | 54  | 2.139        | 2.136            | 0.003            | 89  | 188469   | 25.0            | 24.8              |       |
| 18 Bromomethane                          | 94  | 2.493        | 2.483            | 0.010            | 90  | 182858   | 25.0            | 26.2              |       |
| 19 Chloroethane                          | 64  | 2.567        | 2.557            | 0.010            | 99  | 142358   | 25.0            | 24.7              |       |
| 20 Dichlorofluoromethane                 | 67  | 2.779        | 2.773            | 0.006            | 97  | 325821   | 25.0            | 24.9              |       |
| 21 Trichlorofluoromethane                | 101 | 2.782        | 2.779            | 0.003            | 91  | 321837   | 25.0            | 26.3              |       |
| 26 Ethyl ether                           | 59  | 3.033        | 3.030            | 0.003            | 88  | 204484   | 25.0            | 25.6              |       |
| 28 Acrolein                              | 56  | 3.213        | 3.213            | 0.000            | 100 | 205209   | 125.0           | 127.3             |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.252        | 3.242            | 0.010            | 93  | 218984   | 25.0            | 27.6              |       |
| 30 1,1-Dichloroethene                    | 96  | 3.274        | 3.262            | 0.012            | 97  | 208830   | 25.0            | 26.9              |       |
| 31 Acetone                               | 43  | 3.358        | 3.358            | 0.000            | 100 | 511836   | 125.0           | 136.8             |       |
| 33 Iodomethane                           | 142 | 3.457        | 3.445            | 0.012            | 98  | 374613   | 25.0            | 26.3              |       |
| 35 Carbon disulfide                      | 76  | 3.483        | 3.480            | 0.003            | 99  | 581164   | 25.0            | 27.0              |       |
| 37 3-Chloro-1-propene                    | 41  | 3.589        | 3.586            | 0.003            | 92  | 295345   | 25.0            | 24.3              |       |
| 38 Methyl acetate                        | 43  | 3.615        | 3.615            | 0.000            | 97  | 527403   | 50.0            | 49.4              |       |
| 39 Methylene Chloride                    | 84  | 3.721        | 3.721            | 0.000            | 89  | 252509   | 25.0            | 25.2              |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.840        | 3.844            | -0.004           | 100 | 432808   | 250.0           | 264.0             |       |
| 41 Methyl tert-butyl ether               | 73  | 3.904        | 3.901            | 0.003            | 94  | 785292   | 25.0            | 25.6              |       |
| 42 trans-1,2-Dichloroethene              | 96  | 3.927        | 3.927            | 0.000            | 98  | 253346   | 25.0            | 26.6              |       |
| 44 Acrylonitrile                         | 53  | 3.972        | 3.972            | 0.000            | 99  | 1344363  | 250.0           | 256.4             |       |
| 47 Hexane                                | 57  | 4.084        | 4.081            | 0.003            | 90  | 325221   | 25.0            | 25.6              |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 50 1,1-Dichloroethane           | 63  | 4.306     | 4.307         | -0.001        | 96 | 405208   | 25.0         | 26.1           |       |
| 49 Vinyl acetate                | 43  | 4.322     | 4.323         | -0.001        | 97 | 1021505  | 50.0         | 51.2           |       |
| 56 2,2-Dichloropropane          | 77  | 4.782     | 4.779         | 0.003         | 85 | 214890   | 25.0         | 23.0           |       |
| 58 cis-1,2-Dichloroethene       | 96  | 4.808     | 4.808         | 0.000         | 79 | 280688   | 25.0         | 26.2           |       |
| 57 2-Butanone (MEK)             | 43  | 4.827     | 4.824         | 0.003         | 98 | 896786   | 125.0        | 127.5          |       |
| 60 Chlorobromomethane           | 128 | 5.030     | 5.030         | 0.000         | 87 | 147401   | 25.0         | 25.9           |       |
| 61 Tetrahydrofuran              | 42  | 5.055     | 5.056         | -0.001        | 86 | 246023   | 50.0         | 49.9           |       |
| 62 Chloroform                   | 83  | 5.078     | 5.078         | 0.000         | 92 | 425865   | 25.0         | 25.3           |       |
| 64 1,1,1-Trichloroethane        | 97  | 5.210     | 5.207         | 0.003         | 98 | 363925   | 25.0         | 26.8           |       |
| 65 Cyclohexane                  | 56  | 5.223     | 5.223         | 0.000         | 88 | 389580   | 25.0         | 26.7           |       |
| 66 Carbon tetrachloride         | 117 | 5.338     | 5.339         | -0.001        | 97 | 307404   | 25.0         | 27.3           |       |
| 67 1,1-Dichloropropene          | 75  | 5.342     | 5.339         | 0.003         | 97 | 336582   | 25.0         | 26.3           |       |
| 69 Isobutyl alcohol             | 43  | 5.473     | 5.477         | -0.004        | 94 | 510533   | 625.0        | 675.8          |       |
| 70 Benzene                      | 78  | 5.538     | 5.538         | 0.000         | 96 | 986133   | 25.0         | 25.4           |       |
| 72 1,2-Dichloroethane           | 62  | 5.592     | 5.593         | -0.001        | 97 | 332744   | 25.0         | 24.9           |       |
| 73 n-Heptane                    | 43  | 5.650     | 5.647         | 0.003         | 90 | 346436   | 25.0         | 23.9           |       |
| 75 Trichloroethene              | 95  | 6.094     | 6.094         | 0.000         | 96 | 263404   | 25.0         | 26.1           |       |
| 76 Methylcyclohexane            | 83  | 6.216     | 6.216         | 0.000         | 86 | 440520   | 25.0         | 27.1           |       |
| 77 1,2-Dichloropropane          | 63  | 6.329     | 6.329         | 0.000         | 97 | 240834   | 25.0         | 26.2           |       |
| 81 1,4-Dioxane                  | 88  | 6.451     | 6.454         | -0.003        | 90 | 74718    | 500.0        | 572.5          | M     |
| 82 Dibromomethane               | 93  | 6.467     | 6.464         | 0.003         | 95 | 168060   | 25.0         | 25.7           |       |
| 83 Dichlorobromomethane         | 83  | 6.586     | 6.586         | 0.000         | 99 | 301822   | 25.0         | 26.7           |       |
| 84 2-Chloroethyl vinyl ether    | 63  | 6.821     | 6.821         | 0.000         | 92 | 196324   | 25.0         | 26.4           |       |
| 85 cis-1,3-Dichloropropene      | 75  | 6.981     | 6.982         | -0.001        | 97 | 395561   | 25.0         | 26.4           |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  | 7.100     | 7.101         | -0.001        | 96 | 1711292  | 125.0        | 124.0          |       |
| 88 Toluene                      | 92  | 7.271     | 7.268         | 0.003         | 98 | 631762   | 25.0         | 25.0           |       |
| 91 trans-1,3-Dichloropropene    | 75  | 7.518     | 7.519         | -0.001        | 97 | 367054   | 25.0         | 26.5           |       |
| 90 Ethyl methacrylate           | 69  | 7.528     | 7.528         | 0.000         | 87 | 382663   | 25.0         | 26.5           |       |
| 93 1,1,2-Trichloroethane        | 83  | 7.714     | 7.715         | -0.001        | 89 | 200545   | 25.0         | 25.4           |       |
| 94 Tetrachloroethene            | 166 | 7.792     | 7.792         | 0.000         | 98 | 284402   | 25.0         | 25.3           |       |
| 95 1,3-Dichloropropane          | 76  | 7.882     | 7.879         | 0.003         | 96 | 422967   | 25.0         | 24.9           |       |
| 96 2-Hexanone                   | 43  | 7.911     | 7.911         | 0.000         | 96 | 1238495  | 125.0        | 126.7          |       |
| 98 Chlorodibromomethane         | 129 | 8.120     | 8.117         | 0.003         | 89 | 236360   | 25.0         | 27.1           |       |
| 101 Ethylene Dibromide          | 107 | 8.245     | 8.245         | 0.000         | 98 | 264359   | 25.0         | 25.5           |       |
| 103 Chlorobenzene               | 112 | 8.698     | 8.699         | -0.001        | 97 | 715791   | 25.0         | 25.1           |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.766         | 0.000         | 98 | 1155919  | 25.0         | 25.3           |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.782     | 8.782         | 0.000         | 96 | 248270   | 25.0         | 26.5           |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 462483   | 25.0         | 25.5           |       |
| 107 o-Xylene                    | 106 | 9.316     | 9.316         | 0.000         | 95 | 456863   | 25.0         | 25.7           |       |
| 109 Styrene                     | 104 | 9.341     | 9.342         | -0.001        | 95 | 771190   | 25.0         | 26.1           |       |
| 110 Bromoform                   | 173 | 9.615     | 9.618         | -0.003        | 98 | 164855   | 25.0         | 27.5           |       |
| 111 Isopropylbenzene            | 105 | 9.689     | 9.689         | 0.000         | 95 | 1205654  | 25.0         | 26.1           |       |
| 113 Bromobenzene                | 156 | 10.084    | 10.085        | -0.001        | 91 | 301715   | 25.0         | 25.0           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.097    | 10.097        | 0.000         | 94 | 373971   | 25.0         | 25.3           |       |
| 114 N-Propylbenzene             | 91  | 10.129    | 10.130        | -0.001        | 99 | 1380259  | 25.0         | 25.8           |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.145    | 10.146        | -0.001        | 75 | 101700   | 25.0         | 25.4           |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.148    | 10.149        | -0.001        | 85 | 128932   | 25.0         | 24.4           |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 98 | 287195   | 25.0         | 25.8           |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.303        | 0.000         | 94 | 989385   | 25.0         | 26.1           |       |
| 119 4-Chlorotoluene             | 91  | 10.370    | 10.367        | 0.003         | 97 | 824221   | 25.0         | 24.9           |       |
| 120 tert-Butylbenzene           | 134 | 10.634    | 10.631        | 0.003         | 91 | 233268   | 25.0         | 26.5           |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.685    | 10.686        | -0.001        | 96 | 1011271  | 25.0         | 26.0           |       |

| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 122 sec-Butylbenzene            | 105 | 10.843       | 10.843           | 0.000            | 93 | 1296523  | 25.0            | 26.5              |       |
| 123 4-Isopropyltoluene          | 119 | 10.972       | 10.972           | 0.000            | 97 | 1120178  | 25.0            | 26.4              |       |
| 124 1,3-Dichlorobenzene         | 146 | 11.004       | 11.001           | 0.003            | 98 | 574651   | 25.0            | 24.9              |       |
| 126 1,4-Dichlorobenzene         | 146 | 11.087       | 11.088           | -0.001           | 96 | 582164   | 25.0            | 24.4              |       |
| 127 n-Butylbenzene              | 91  | 11.354       | 11.355           | -0.001           | 97 | 975319   | 25.0            | 25.9              |       |
| 128 1,2-Dichlorobenzene         | 146 | 11.438       | 11.438           | 0.000            | 98 | 564149   | 25.0            | 24.7              |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  | 12.136       | 12.136           | 0.000            | 89 | 79792    | 25.0            | 26.5              |       |
| 130 1,2,4-Trichlorobenzene      | 180 | 12.763       | 12.763           | 0.000            | 94 | 438110   | 25.0            | 25.5              |       |
| 131 Hexachlorobutadiene         | 225 | 12.849       | 12.850           | -0.001           | 98 | 203524   | 25.0            | 27.4              |       |
| 132 Naphthalene                 | 128 | 12.978       | 12.978           | 0.000            | 97 | 1407819  | 25.0            | 26.6              |       |
| 133 1,2,3-Trichlorobenzene      | 180 | 13.177       | 13.178           | -0.001           | 96 | 423998   | 25.0            | 26.1              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

SS GAS CORP\_00461

Amount Added: 12.50

Units: uL

SS 8260 CORP\_00101

Amount Added: 12.50

Units: uL

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18046.D

Injection Date: 07-Jul-2022 21:44:45

Instrument ID: HP5977L

Lims ID: ICV

Client ID:

Operator ID: LH

ALS Bottle#: 0

Worklist Smp#: 30

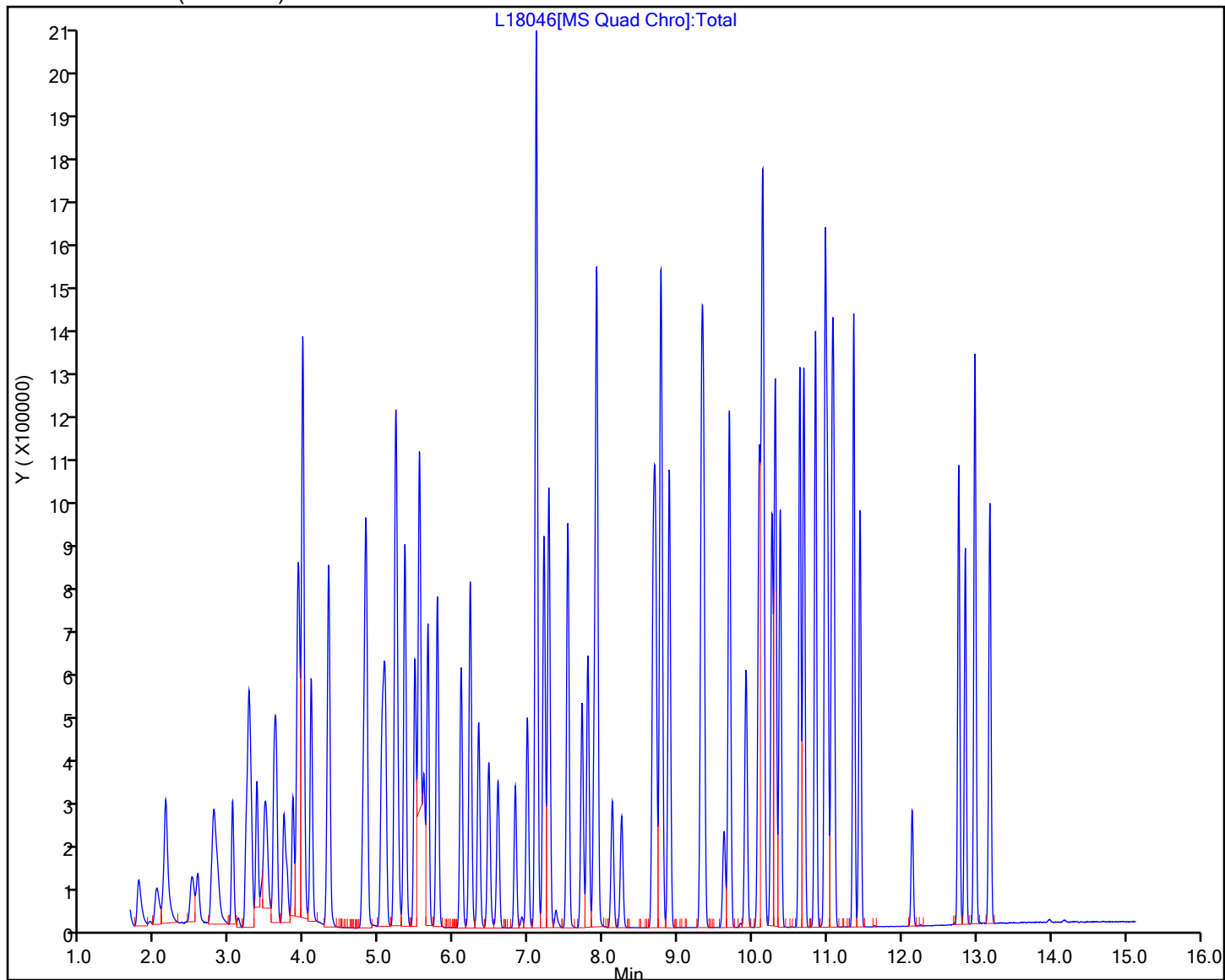
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



## Eurofins Buffalo

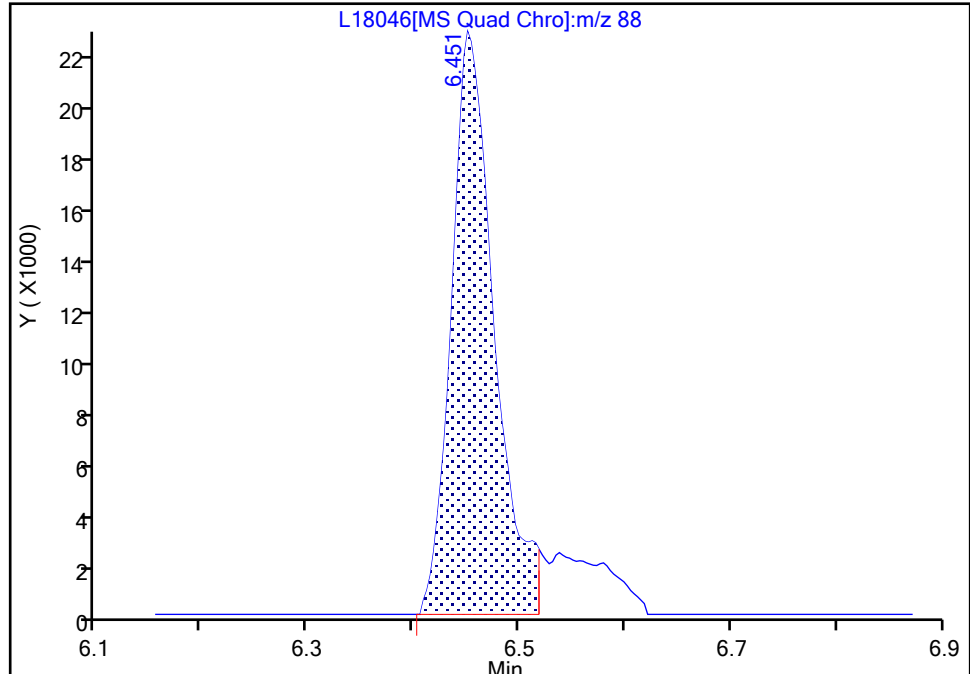
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18046.D  
Injection Date: 07-Jul-2022 21:44:45 Instrument ID: HP5977L  
Lims ID: ICV  
Client ID:  
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 30  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

**81 1,4-Dioxane, CAS: 123-91-1**

Signal: 1

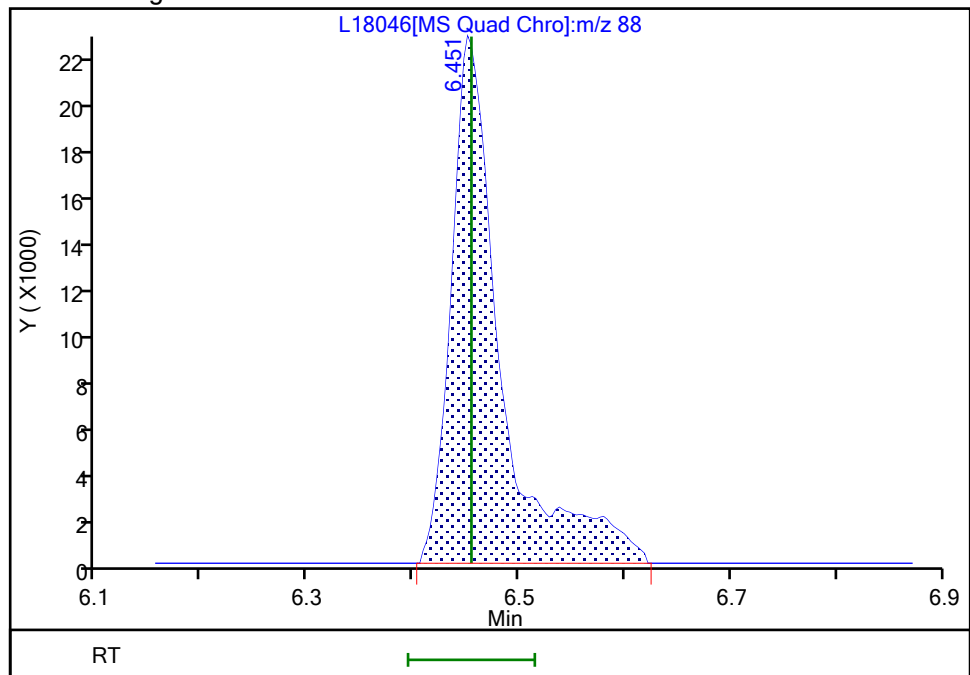
RT: 6.45  
Area: 64231  
Amount: 492.1096  
Amount Units: ug/L

## Processing Integration Results



RT: 6.45  
Area: 74718  
Amount: 572.4564  
Amount Units: ug/L

## Manual Integration Results



Reviewer: WLL8, 11-Jul-2022 12:11:12

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 480-637640/4 Calibration Date: 08/16/2022 14:21

Instrument ID: HP5977L Calib Start Date: 07/07/2022 12:02

GC Column: ZB-624 (30) VOA ID: 0.25 (mm) Calib End Date: 07/07/2022 15:16

Lab File ID: L19193.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                               | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|---------------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Dichlorodifluoromethane               | Ave        | 1.547   | 1.596  | 0.1000  | 25.8        | 25.0         | 3.2   | 50.0   |
| Chloromethane                         | Ave        | 1.447   | 1.540  | 0.1000  | 26.6        | 25.0         | 6.4   | 20.0   |
| Vinyl chloride                        | Ave        | 1.372   | 1.345  | 0.1000  | 24.5        | 25.0         | -2.0  | 20.0   |
| Butadiene                             | Ave        | 1.111   | 1.250  |         | 28.1        | 25.0         | 12.5  | 20.0   |
| Bromomethane                          | Ave        | 1.018   | 1.175  | 0.1000  | 28.9        | 25.0         | 15.5  | 50.0   |
| Chloroethane                          | Ave        | 0.8415  | 0.996  | 0.1000  | 29.6        | 25.0         | 18.3  | 50.0   |
| Dichlorofluoromethane                 | Ave        | 1.909   | 2.460  |         | 32.2        | 25.0         | 28.9* | 20.0   |
| Trichlorofluoromethane                | Ave        | 1.785   | 2.108  | 0.1000  | 29.5        | 25.0         | 18.1  | 20.0   |
| Ethyl ether                           | Ave        | 1.169   | 1.317  |         | 28.2        | 25.0         | 12.7  | 20.0   |
| Acrolein                              | Ave        | 0.2355  | 0.1862 |         | 98.9        | 125          | -20.9 | 50.0   |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Ave        | 1.160   | 1.341  | 0.1000  | 28.9        | 25.0         | 15.6  | 20.0   |
| 1,1-Dichloroethene                    | Ave        | 1.135   | 1.229  | 0.1000  | 27.1        | 25.0         | 8.3   | 20.0   |
| Acetone                               | Ave        | 0.5466  | 0.8497 | 0.1000  | 194         | 125          | 55.5* | 50.0   |
| Iodomethane                           | Ave        | 2.078   | 2.197  |         | 26.4        | 25.0         | 5.7   | 20.0   |
| Carbon disulfide                      | Ave        | 3.145   | 3.320  | 0.1000  | 26.4        | 25.0         | 5.6   | 20.0   |
| Allyl chloride                        | Ave        | 1.779   | 1.657  |         | 23.3        | 25.0         | -6.9  | 20.0   |
| Methyl acetate                        | Ave        | 1.560   | 1.559  | 0.1000  | 50.0        | 50.0         | -0.1  | 50.0   |
| Methylene Chloride                    | Lin1       |         | 1.614  | 0.1000  | 27.6        | 25.0         | 10.5  | 20.0   |
| 2-Methyl-2-propanol                   | Ave        | 0.2395  | 0.2001 |         | 209         | 250          | -16.4 | 50.0   |
| Methyl tert-butyl ether               | Ave        | 4.488   | 4.646  | 0.1000  | 25.9        | 25.0         | 3.5   | 20.0   |
| trans-1,2-Dichloroethene              | Ave        | 1.391   | 1.506  | 0.1000  | 27.1        | 25.0         | 8.2   | 20.0   |
| Acrylonitrile                         | Ave        | 0.7657  | 0.7711 |         | 252         | 250          | 0.7   | 20.0   |
| Hexane                                | Ave        | 1.853   | 1.860  |         | 25.1        | 25.0         | 0.3   | 20.0   |
| 1,1-Dichloroethane                    | Ave        | 2.268   | 2.494  | 0.2000  | 27.5        | 25.0         | 10.0  | 20.0   |
| Vinyl acetate                         | Ave        | 2.915   | 3.036  |         | 52.1        | 50.0         | 4.1   | 20.0   |
| 2,2-Dichloropropane                   | Ave        | 1.366   | 1.633  |         | 29.9        | 25.0         | 19.6  | 20.0   |
| cis-1,2-Dichloroethene                | Ave        | 1.567   | 1.675  | 0.1000  | 26.7        | 25.0         | 6.9   | 20.0   |
| 2-Butanone (MEK)                      | Ave        | 1.028   | 1.154  | 0.1000  | 140         | 125          | 12.3  | 20.0   |
| Chlorobromomethane                    | Ave        | 0.8304  | 0.9030 |         | 27.2        | 25.0         | 8.7   | 20.0   |
| Tetrahydrofuran                       | Ave        | 0.7206  | 0.6694 |         | 46.4        | 50.0         | -7.1  | 20.0   |
| Chloroform                            | Ave        | 2.454   | 2.649  | 0.2000  | 27.0        | 25.0         | 7.9   | 20.0   |
| 1,1,1-Trichloroethane                 | Ave        | 1.983   | 2.108  | 0.1000  | 26.6        | 25.0         | 6.3   | 20.0   |
| Cyclohexane                           | Ave        | 2.134   | 2.110  | 0.1000  | 24.7        | 25.0         | -1.1  | 20.0   |
| Carbon tetrachloride                  | Ave        | 1.647   | 1.740  | 0.1000  | 26.4        | 25.0         | 5.6   | 20.0   |
| 1,1-Dichloropropene                   | Ave        | 1.871   | 1.934  |         | 25.8        | 25.0         | 3.4   | 20.0   |
| Isobutyl alcohol                      | Ave        | 0.1103  | 0.1157 |         | 655         | 625          | 4.8   | 50.0   |
| Benzene                               | Ave        | 5.671   | 6.078  | 0.5000  | 26.8        | 25.0         | 7.2   | 20.0   |
| 1,2-Dichloroethane                    | Ave        | 1.955   | 2.144  | 0.1000  | 27.4        | 25.0         | 9.7   | 20.0   |
| n-Heptane                             | Ave        | 2.113   | 1.928  |         | 22.8        | 25.0         | -8.7  | 20.0   |
| Trichloroethene                       | Ave        | 1.474   | 1.481  | 0.2000  | 25.1        | 25.0         | 0.5   | 20.0   |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 480-637640/4 Calibration Date: 08/16/2022 14:21

Instrument ID: HP5977L Calib Start Date: 07/07/2022 12:02

GC Column: ZB-624 (30) VOA ID: 0.25 (mm) Calib End Date: 07/07/2022 15:16

Lab File ID: L19193.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Methylcyclohexane           | Ave           | 2.376   | 2.371  | 0.1000  | 24.9           | 25.0            | -0.2  | 20.0      |
| 1,2-Dichloropropane         | Ave           | 1.344   | 1.428  | 0.1000  | 26.6           | 25.0            | 6.2   | 20.0      |
| 1,4-Dioxane                 | Ave           | 0.0048  | 0.0055 |         | 577            | 500             | 15.4  | 50.0      |
| Dibromomethane              | Ave           | 0.9550  | 1.022  | 0.1000  | 26.8           | 25.0            | 7.0   | 20.0      |
| Bromodichloromethane        | Ave           | 1.650   | 1.757  | 0.2000  | 26.6           | 25.0            | 6.5   | 20.0      |
| 2-Chloroethyl vinyl ether   | Ave           | 1.086   | 1.023  |         | 23.5           | 25.0            | -5.9  | 20.0      |
| cis-1,3-Dichloropropene     | Ave           | 2.190   | 2.304  | 0.2000  | 26.3           | 25.0            | 5.2   | 20.0      |
| 4-Methyl-2-pentanone (MIBK) | Ave           | 0.5026  | 0.4793 | 0.1000  | 119            | 125             | -4.6  | 20.0      |
| Toluene                     | Ave           | 0.9199  | 0.8896 | 0.4000  | 24.2           | 25.0            | -3.3  | 20.0      |
| trans-1,3-Dichloropropene   | Ave           | 0.5047  | 0.5210 | 0.1000  | 25.8           | 25.0            | 3.2   | 20.0      |
| Ethyl methacrylate          | Ave           | 0.5269  | 0.5180 |         | 24.6           | 25.0            | -1.7  | 20.0      |
| 1,1,2-Trichloroethane       | Ave           | 0.2878  | 0.2887 | 0.1000  | 25.1           | 25.0            | 0.3   | 20.0      |
| Tetrachloroethene           | Ave           | 0.4101  | 0.3744 | 0.2000  | 22.8           | 25.0            | -8.7  | 20.0      |
| 1,3-Dichloropropane         | Ave           | 0.6177  | 0.6192 |         | 25.1           | 25.0            | 0.2   | 20.0      |
| 2-Hexanone                  | Ave           | 0.3561  | 0.3765 | 0.1000  | 132            | 125             | 5.7   | 20.0      |
| Dibromochloromethane        | Ave           | 0.3178  | 0.3112 | 0.1000  | 24.5           | 25.0            | -2.1  | 20.0      |
| 1,2-Dibromoethane           | Ave           | 0.3781  | 0.3632 |         | 24.0           | 25.0            | -3.9  | 20.0      |
| Chlorobenzene               | Ave           | 1.039   | 1.010  | 0.5000  | 24.3           | 25.0            | -2.8  | 20.0      |
| Ethylbenzene                | Ave           | 1.666   | 1.622  | 0.1000  | 24.3           | 25.0            | -2.6  | 20.0      |
| 1,1,1,2-Tetrachloroethane   | Ave           | 0.3408  | 0.3475 |         | 25.5           | 25.0            | 2.0   | 20.0      |
| m,p-Xylene                  | Ave           | 0.6598  | 0.6369 | 0.1000  | 24.1           | 25.0            | -3.5  | 20.0      |
| o-Xylene                    | Ave           | 0.6483  | 0.6159 | 0.3000  | 23.8           | 25.0            | -5.0  | 20.0      |
| Styrene                     | Ave           | 1.078   | 1.069  | 0.3000  | 24.8           | 25.0            | -0.8  | 20.0      |
| Bromoform                   | Ave           | 0.2186  | 0.1995 | 0.1000  | 22.8           | 25.0            | -8.7  | 50.0      |
| Isopropylbenzene            | Ave           | 3.186   | 2.795  | 0.1000  | 21.9           | 25.0            | -12.3 | 20.0      |
| Bromobenzene                | Ave           | 0.8343  | 0.7411 |         | 22.2           | 25.0            | -11.2 | 20.0      |
| 1,1,2,2-Tetrachloroethane   | Ave           | 1.023   | 0.9617 | 0.3000  | 23.5           | 25.0            | -6.0  | 20.0      |
| N-Propylbenzene             | Ave           | 3.702   | 3.426  |         | 23.1           | 25.0            | -7.5  | 20.0      |
| trans-1,4-Dichloro-2-butene | Ave           | 0.2768  | 0.2411 |         | 21.8           | 25.0            | -12.9 | 50.0      |
| 1,2,3-Trichloropropane      | Ave           | 0.3654  | 0.3272 |         | 22.4           | 25.0            | -10.4 | 20.0      |
| 2-Chlorotoluene             | Ave           | 0.7690  | 0.6912 |         | 22.5           | 25.0            | -10.1 | 20.0      |
| 1,3,5-Trimethylbenzene      | Ave           | 2.619   | 2.412  |         | 23.0           | 25.0            | -7.9  | 20.0      |
| 4-Chlorotoluene             | Ave           | 2.291   | 2.064  |         | 22.5           | 25.0            | -9.9  | 20.0      |
| tert-Butylbenzene           | Ave           | 0.6074  | 0.5345 |         | 22.0           | 25.0            | -12.0 | 20.0      |
| 1,2,4-Trimethylbenzene      | Ave           | 2.687   | 2.481  |         | 23.1           | 25.0            | -7.7  | 20.0      |
| sec-Butylbenzene            | Ave           | 3.378   | 3.029  |         | 22.4           | 25.0            | -10.3 | 20.0      |
| 4-Isopropyltoluene          | Ave           | 2.927   | 2.658  |         | 22.7           | 25.0            | -9.2  | 20.0      |
| 1,3-Dichlorobenzene         | Ave           | 1.597   | 1.481  | 0.6000  | 23.2           | 25.0            | -7.3  | 20.0      |
| 1,4-Dichlorobenzene         | Ave           | 1.645   | 1.482  | 0.5000  | 22.5           | 25.0            | -9.9  | 20.0      |
| n-Butylbenzene              | Ave           | 2.604   | 2.378  |         | 22.8           | 25.0            | -8.7  | 20.0      |
| 1,2-Dichlorobenzene         | Ave           | 1.578   | 1.410  | 0.4000  | 22.3           | 25.0            | -10.6 | 20.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 480-637640/4 Calibration Date: 08/16/2022 14:21  
 Instrument ID: HP5977L Calib Start Date: 07/07/2022 12:02  
 GC Column: ZB-624 (30) VOA ID: 0.25 (mm) Calib End Date: 07/07/2022 15:16  
 Lab File ID: L19193.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.2084  | 0.1689 | 0.0500  | 20.3           | 25.0            | -19.0  | 50.0      |
| 1,2,4-Trichlorobenzene       | Ave           | 1.185   | 0.9429 | 0.2000  | 19.9           | 25.0            | -20.4* | 20.0      |
| Hexachlorobutadiene          | Ave           | 0.5133  | 0.3565 |         | 17.4           | 25.0            | -30.6* | 20.0      |
| Naphthalene                  | Ave           | 3.653   | 3.035  |         | 20.8           | 25.0            | -16.9  | 20.0      |
| 1,2,3-Trichlorobenzene       | Ave           | 1.122   | 0.9186 |         | 20.5           | 25.0            | -18.1  | 20.0      |
| Dibromofluoromethane (Surr)  | Ave           | 1.269   | 1.333  |         | 26.2           | 25.0            | 5.0    | 20.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 1.438   | 1.549  |         | 26.9           | 25.0            | 7.7    | 20.0      |
| Toluene-d8 (Surr)            | Ave           | 1.248   | 1.231  |         | 24.7           | 25.0            | -1.4   | 20.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.3906  | 0.3985 |         | 25.5           | 25.0            | 2.0    | 20.0      |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19193.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 16-Aug-2022 14:21:40 ALS Bottle#: 0 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 480-0107114-004  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Sublist: chrom-L-8260\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 16-Aug-2022 16:47:34 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1631

First Level Reviewer: LS5G

Date: 16-Aug-2022 16:47:34

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.773        | 5.773            | 0.000            | 99  | 139175   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.666        | 8.666            | 0.000            | 84  | 586023   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.062       | 11.062           | 0.000            | 94  | 335970   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.223        | 5.223            | 0.000            | 82  | 185471   | 25.0            | 26.2              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.525        | 5.525            | 0.000            | 97  | 215615   | 25.0            | 26.9              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.203        | 7.203            | 0.000            | 93  | 721293   | 25.0            | 24.7              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.908        | 9.908            | 0.000            | 99  | 233517   | 25.0            | 25.5              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.770        | 1.770            | 0.000            | 99  | 222111   | 25.0            | 25.8              |       |
| 13 Chloromethane                         | 50  | 2.004        | 2.004            | 0.000            | 99  | 214390   | 25.0            | 26.6              | a     |
| 14 Vinyl chloride                        | 62  | 2.107        | 2.107            | 0.000            | 98  | 187153   | 25.0            | 24.5              |       |
| 15 Butadiene                             | 54  | 2.136        | 2.136            | 0.000            | 89  | 173977   | 25.0            | 28.1              |       |
| 18 Bromomethane                          | 94  | 2.480        | 2.480            | 0.000            | 91  | 163536   | 25.0            | 28.9              |       |
| 19 Chloroethane                          | 64  | 2.564        | 2.564            | 0.000            | 98  | 138605   | 25.0            | 29.6              |       |
| 20 Dichlorofluoromethane                 | 67  | 2.773        | 2.773            | 0.000            | 96  | 342359   | 25.0            | 32.2              |       |
| 21 Trichlorofluoromethane                | 101 | 2.779        | 2.779            | 0.000            | 95  | 293390   | 25.0            | 29.5              |       |
| 26 Ethyl ether                           | 59  | 3.027        | 3.027            | 0.000            | 88  | 183284   | 25.0            | 28.2              |       |
| 28 Acrolein                              | 56  | 3.213        | 3.213            | 0.000            | 99  | 129573   | 125.0           | 98.9              |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.249        | 3.249            | 0.000            | 92  | 186640   | 25.0            | 28.9              |       |
| 30 1,1-Dichloroethene                    | 96  | 3.252        | 3.252            | 0.000            | 97  | 171086   | 25.0            | 27.1              |       |
| 31 Acetone                               | 43  | 3.358        | 3.358            | 0.000            | 100 | 591314   | 125.0           | 194.3             | M     |
| 33 Iodomethane                           | 142 | 3.419        | 3.419            | 0.000            | 99  | 305758   | 25.0            | 26.4              |       |
| 35 Carbon disulfide                      | 76  | 3.477        | 3.477            | 0.000            | 99  | 462032   | 25.0            | 26.4              |       |
| 37 3-Chloro-1-propene                    | 41  | 3.586        | 3.586            | 0.000            | 88  | 230585   | 25.0            | 23.3              |       |
| 38 Methyl acetate                        | 43  | 3.615        | 3.615            | 0.000            | 96  | 433919   | 50.0            | 50.0              |       |
| 39 Methylene Chloride                    | 84  | 3.721        | 3.721            | 0.000            | 86  | 224580   | 25.0            | 27.6              |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.843        | 3.843            | 0.000            | 99  | 278470   | 250.0           | 208.9             |       |
| 41 Methyl tert-butyl ether               | 73  | 3.901        | 3.901            | 0.000            | 96  | 646626   | 25.0            | 25.9              |       |
| 42 trans-1,2-Dichloroethene              | 96  | 3.927        | 3.927            | 0.000            | 98  | 209571   | 25.0            | 27.1              |       |
| 44 Acrylonitrile                         | 53  | 3.972        | 3.972            | 0.000            | 99  | 1073220  | 250.0           | 251.8             |       |
| 47 Hexane                                | 57  | 4.085        | 4.085            | 0.000            | 91  | 258828   | 25.0            | 25.1              |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 50 1,1-Dichloroethane           | 63  | 4.306     | 4.306         | 0.000         | 96 | 347154   | 25.0         | 27.5           |       |
| 49 Vinyl acetate                | 43  | 4.323     | 4.323         | 0.000         | 97 | 845044   | 50.0         | 52.1           |       |
| 56 2,2-Dichloropropane          | 77  | 4.782     | 4.782         | 0.000         | 85 | 227306   | 25.0         | 29.9           |       |
| 58 cis-1,2-Dichloroethene       | 96  | 4.808     | 4.808         | 0.000         | 81 | 233173   | 25.0         | 26.7           |       |
| 57 2-Butanone (MEK)             | 43  | 4.824     | 4.824         | 0.000         | 99 | 803192   | 125.0        | 140.4          |       |
| 60 Chlorobromomethane           | 128 | 5.030     | 5.030         | 0.000         | 85 | 125681   | 25.0         | 27.2           |       |
| 61 Tetrahydrofuran              | 42  | 5.052     | 5.052         | 0.000         | 83 | 186341   | 50.0         | 46.4           |       |
| 62 Chloroform                   | 83  | 5.078     | 5.078         | 0.000         | 92 | 368641   | 25.0         | 27.0           |       |
| 64 1,1,1-Trichloroethane        | 97  | 5.207     | 5.207         | 0.000         | 98 | 293354   | 25.0         | 26.6           |       |
| 65 Cyclohexane                  | 56  | 5.223     | 5.223         | 0.000         | 87 | 293705   | 25.0         | 24.7           |       |
| 66 Carbon tetrachloride         | 117 | 5.339     | 5.339         | 0.000         | 96 | 242199   | 25.0         | 26.4           |       |
| 67 1,1-Dichloropropene          | 75  | 5.342     | 5.342         | 0.000         | 98 | 269222   | 25.0         | 25.8           |       |
| 69 Isobutyl alcohol             | 43  | 5.474     | 5.474         | 0.000         | 92 | 402535   | 625.0        | 655.3          |       |
| 70 Benzene                      | 78  | 5.538     | 5.538         | 0.000         | 96 | 845893   | 25.0         | 26.8           |       |
| 72 1,2-Dichloroethane           | 62  | 5.593     | 5.593         | 0.000         | 98 | 298385   | 25.0         | 27.4           |       |
| 73 n-Heptane                    | 43  | 5.647     | 5.647         | 0.000         | 88 | 268353   | 25.0         | 22.8           |       |
| 75 Trichloroethene              | 95  | 6.091     | 6.091         | 0.000         | 97 | 206183   | 25.0         | 25.1           |       |
| 76 Methylcyclohexane            | 83  | 6.216     | 6.216         | 0.000         | 87 | 329969   | 25.0         | 24.9           |       |
| 77 1,2-Dichloropropane          | 63  | 6.329     | 6.329         | 0.000         | 95 | 198684   | 25.0         | 26.6           |       |
| 81 1,4-Dioxane                  | 88  | 6.451     | 6.451         | 0.000         | 90 | 64318    | 500.0        | 577.0          |       |
| 82 Dibromomethane               | 93  | 6.464     | 6.464         | 0.000         | 97 | 142281   | 25.0         | 26.8           |       |
| 83 Dichlorobromomethane         | 83  | 6.586     | 6.586         | 0.000         | 99 | 244541   | 25.0         | 26.6           |       |
| 84 2-Chloroethyl vinyl ether    | 63  | 6.821     | 6.821         | 0.000         | 93 | 142312   | 25.0         | 23.5           |       |
| 85 cis-1,3-Dichloropropene      | 75  | 6.982     | 6.982         | 0.000         | 97 | 320708   | 25.0         | 26.3           |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  | 7.097     | 7.097         | 0.000         | 95 | 1404478  | 125.0        | 119.2          |       |
| 88 Toluene                      | 92  | 7.268     | 7.268         | 0.000         | 98 | 521349   | 25.0         | 24.2           |       |
| 91 trans-1,3-Dichloropropene    | 75  | 7.519     | 7.519         | 0.000         | 96 | 305305   | 25.0         | 25.8           |       |
| 90 Ethyl methacrylate           | 69  | 7.525     | 7.525         | 0.000         | 88 | 303567   | 25.0         | 24.6           |       |
| 93 1,1,2-Trichloroethane        | 83  | 7.712     | 7.712         | 0.000         | 91 | 169200   | 25.0         | 25.1           |       |
| 94 Tetrachloroethene            | 166 | 7.792     | 7.792         | 0.000         | 98 | 219378   | 25.0         | 22.8           |       |
| 95 1,3-Dichloropropane          | 76  | 7.879     | 7.879         | 0.000         | 89 | 362859   | 25.0         | 25.1           |       |
| 96 2-Hexanone                   | 43  | 7.908     | 7.908         | 0.000         | 95 | 1103147  | 125.0        | 132.2          |       |
| 98 Chlorodibromomethane         | 129 | 8.117     | 8.117         | 0.000         | 91 | 182354   | 25.0         | 24.5           |       |
| 101 Ethylene Dibromide          | 107 | 8.242     | 8.242         | 0.000         | 99 | 212842   | 25.0         | 24.0           |       |
| 103 Chlorobenzene               | 112 | 8.695     | 8.695         | 0.000         | 97 | 592034   | 25.0         | 24.3           |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.766         | 0.000         | 98 | 950628   | 25.0         | 24.3           |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.779     | 8.779         | 0.000         | 95 | 203639   | 25.0         | 25.5           |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 373222   | 25.0         | 24.1           |       |
| 107 o-Xylene                    | 106 | 9.316     | 9.316         | 0.000         | 96 | 360959   | 25.0         | 23.8           |       |
| 109 Styrene                     | 104 | 9.342     | 9.342         | 0.000         | 95 | 626419   | 25.0         | 24.8           |       |
| 110 Bromoform                   | 173 | 9.615     | 9.615         | 0.000         | 96 | 116938   | 25.0         | 22.8           |       |
| 111 Isopropylbenzene            | 105 | 9.686     | 9.686         | 0.000         | 95 | 939106   | 25.0         | 21.9           |       |
| 113 Bromobenzene                | 156 | 10.078    | 10.078        | 0.000         | 91 | 249004   | 25.0         | 22.2           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.094    | 10.094        | 0.000         | 96 | 323115   | 25.0         | 23.5           |       |
| 114 N-Propylbenzene             | 91  | 10.126    | 10.126        | 0.000         | 99 | 1151105  | 25.0         | 23.1           |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.142    | 10.142        | 0.000         | 74 | 80986    | 25.0         | 21.8           |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.146    | 10.146        | 0.000         | 86 | 109938   | 25.0         | 22.4           |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 97 | 232219   | 25.0         | 22.5           |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.303        | 0.000         | 94 | 810501   | 25.0         | 23.0           |       |
| 119 4-Chlorotoluene             | 91  | 10.367    | 10.367        | 0.000         | 97 | 693573   | 25.0         | 22.5           |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 92 | 179566   | 25.0         | 22.0           |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.686    | 10.686        | 0.000         | 96 | 833540   | 25.0         | 23.1           |       |

| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 122 sec-Butylbenzene            | 105 | 10.840       | 10.840           | 0.000            | 94 | 1017801  | 25.0            | 22.4              |       |
| 123 4-Isopropyltoluene          | 119 | 10.972       | 10.972           | 0.000            | 97 | 892897   | 25.0            | 22.7              |       |
| 124 1,3-Dichlorobenzene         | 146 | 11.001       | 11.001           | 0.000            | 98 | 497552   | 25.0            | 23.2              |       |
| 126 1,4-Dichlorobenzene         | 146 | 11.084       | 11.084           | 0.000            | 95 | 497944   | 25.0            | 22.5              |       |
| 127 n-Butylbenzene              | 91  | 11.355       | 11.355           | 0.000            | 98 | 798794   | 25.0            | 22.8              |       |
| 128 1,2-Dichlorobenzene         | 146 | 11.435       | 11.435           | 0.000            | 98 | 473772   | 25.0            | 22.3              |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  | 12.136       | 12.136           | 0.000            | 90 | 56743    | 25.0            | 20.3              |       |
| 130 1,2,4-Trichlorobenzene      | 180 | 12.760       | 12.760           | 0.000            | 94 | 316786   | 25.0            | 19.9              | M     |
| 131 Hexachlorobutadiene         | 225 | 12.850       | 12.850           | 0.000            | 96 | 119757   | 25.0            | 17.4              |       |
| 132 Naphthalene                 | 128 | 12.978       | 12.978           | 0.000            | 97 | 1019685  | 25.0            | 20.8              |       |
| 133 1,2,3-Trichlorobenzene      | 180 | 13.178       | 13.178           | 0.000            | 96 | 308614   | 25.0            | 20.5              |       |

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

|                     |                     |           |             |
|---------------------|---------------------|-----------|-------------|
| 8260 CORP mix_00227 | Amount Added: 12.50 | Units: uL |             |
| GAS CORP mix_00524  | Amount Added: 12.50 | Units: uL |             |
| L_8260_SURR_00036   | Amount Added: 2.00  | Units: uL | Run Reagent |
| L_8260_IS_00038     | Amount Added: 2.00  | Units: uL | Run Reagent |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19193.D

Injection Date: 16-Aug-2022 14:21:40

Instrument ID: HP5977L

Lims ID: CCVIS

Client ID:

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 4

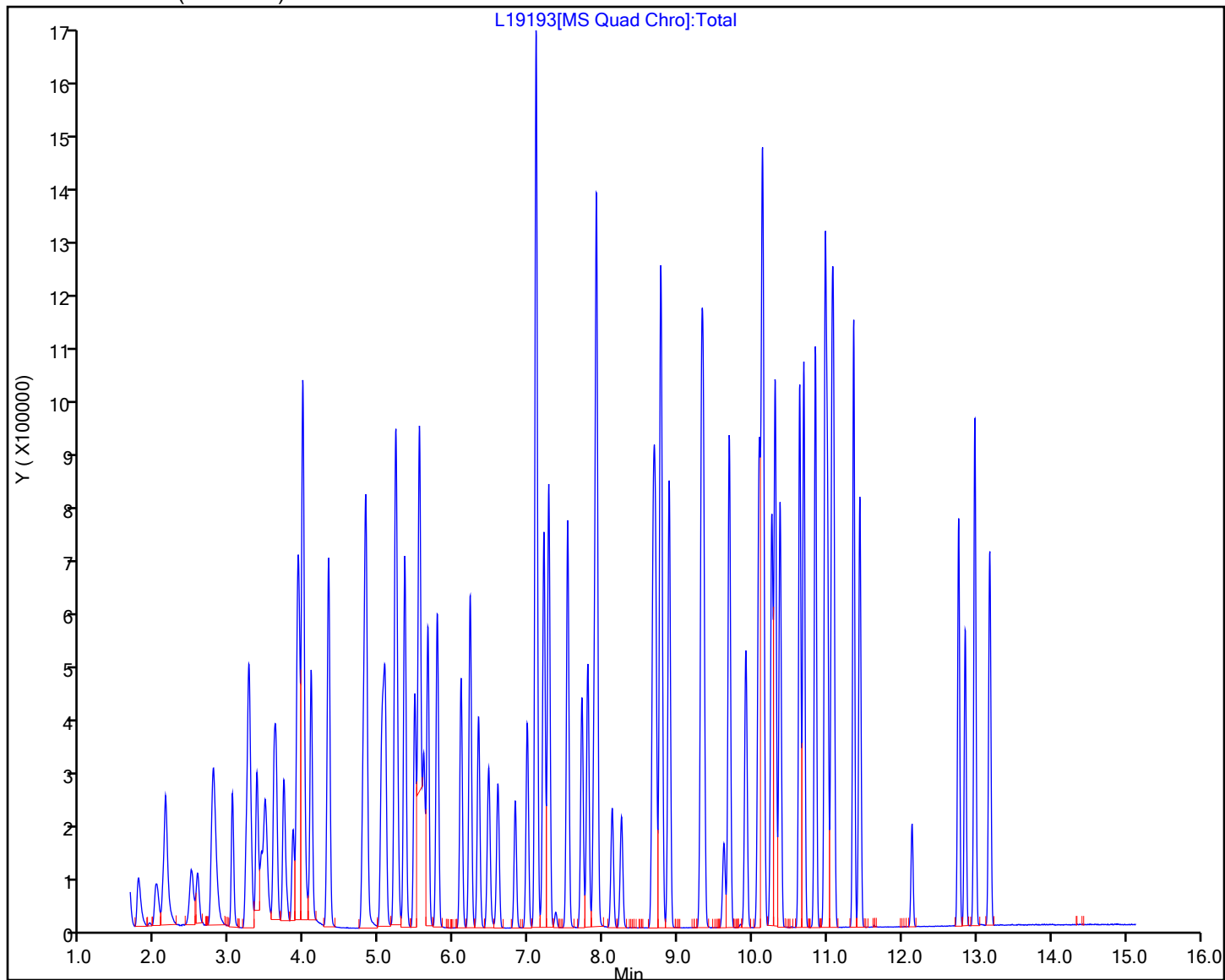
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19193.D

Injection Date: 16-Aug-2022 14:21:40

Instrument ID: HP5977L

Lims ID: CCVIS

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

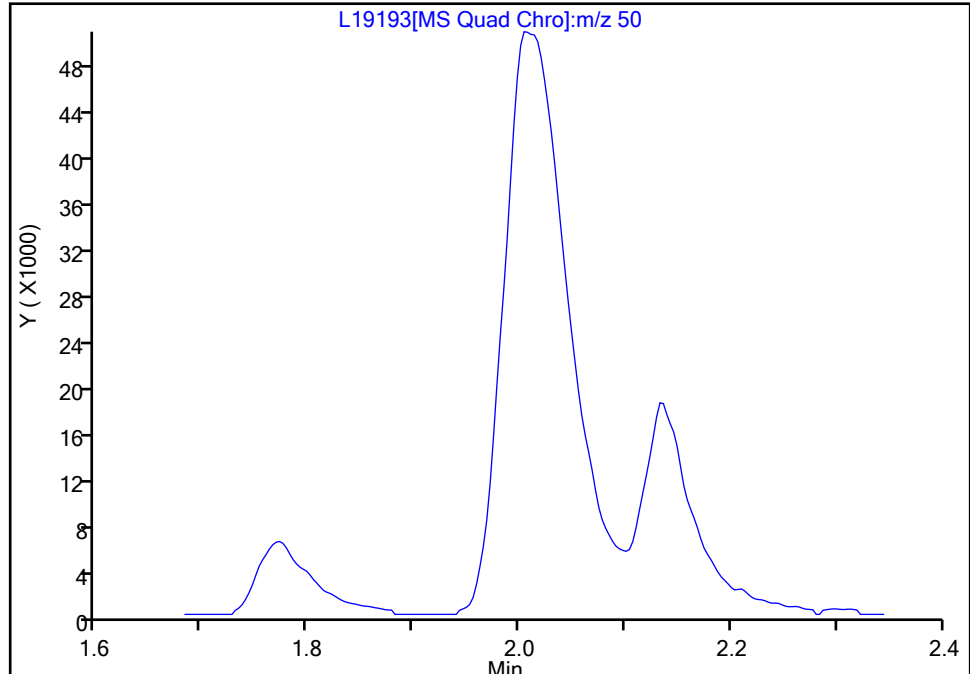
**13 Chloromethane, CAS: 74-87-3**

Signal: 1

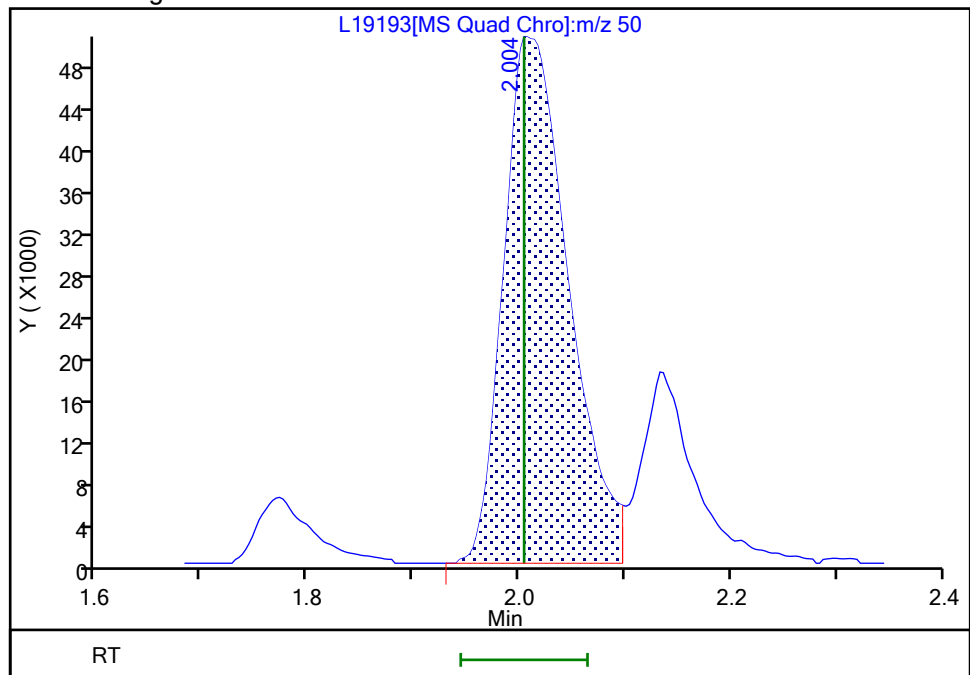
Not Detected

Expected RT: 2.00

## Processing Integration Results



## Manual Integration Results



RT: 2.00

Area: 214390

Amount: 26.609095

Amount Units: ug/L

Reviewer: LS5G, 16-Aug-2022 14:46:54

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19193.D

Injection Date: 16-Aug-2022 14:21:40

Instrument ID: HP5977L

Lims ID: CCVIS

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

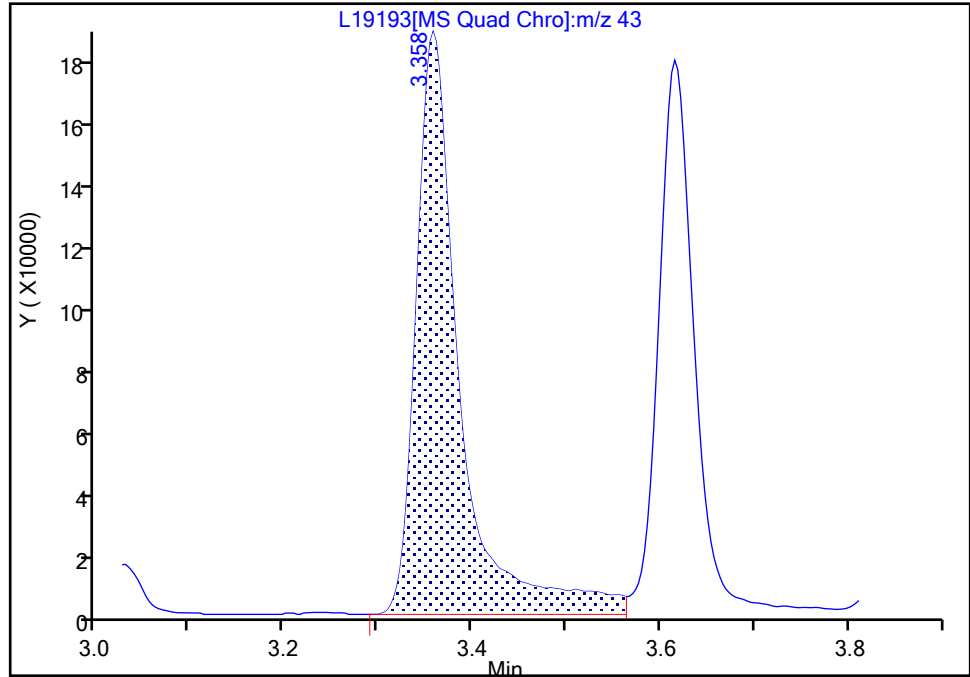
MS Quad

**31 Acetone, CAS: 67-64-1**

Signal: 1

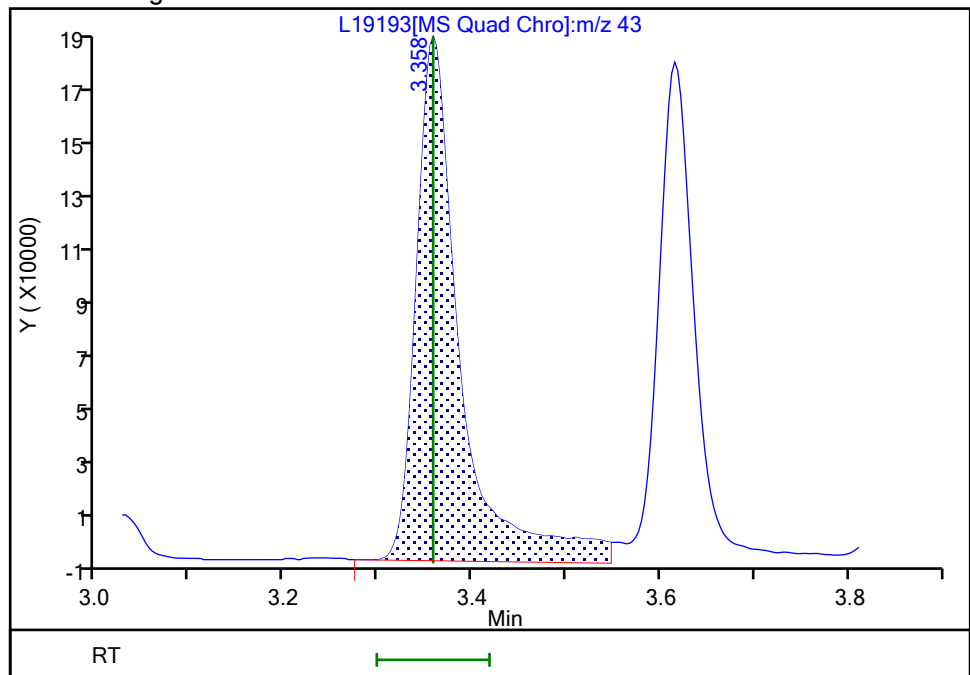
RT: 3.36  
Area: 586586  
Amount: 192.7765  
Amount Units: ug/L

## Processing Integration Results



RT: 3.36  
Area: 591314  
Amount: 194.3303  
Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 16-Aug-2022 14:50:27

Audit Action: Manually Integrated

Audit Reason: Poor chromatography



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19193.D

Injection Date: 16-Aug-2022 14:21:40

Instrument ID: HP5977L

Lims ID: CCVIS

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

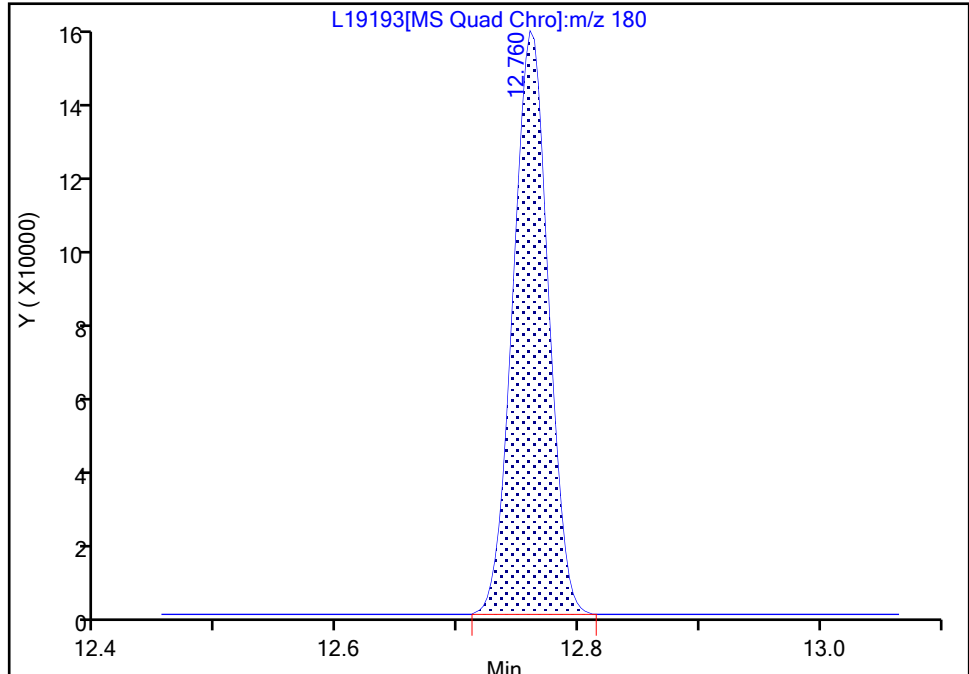
MS Quad

**130 1,2,4-Trichlorobenzene, CAS: 120-82-1**

Signal: 1

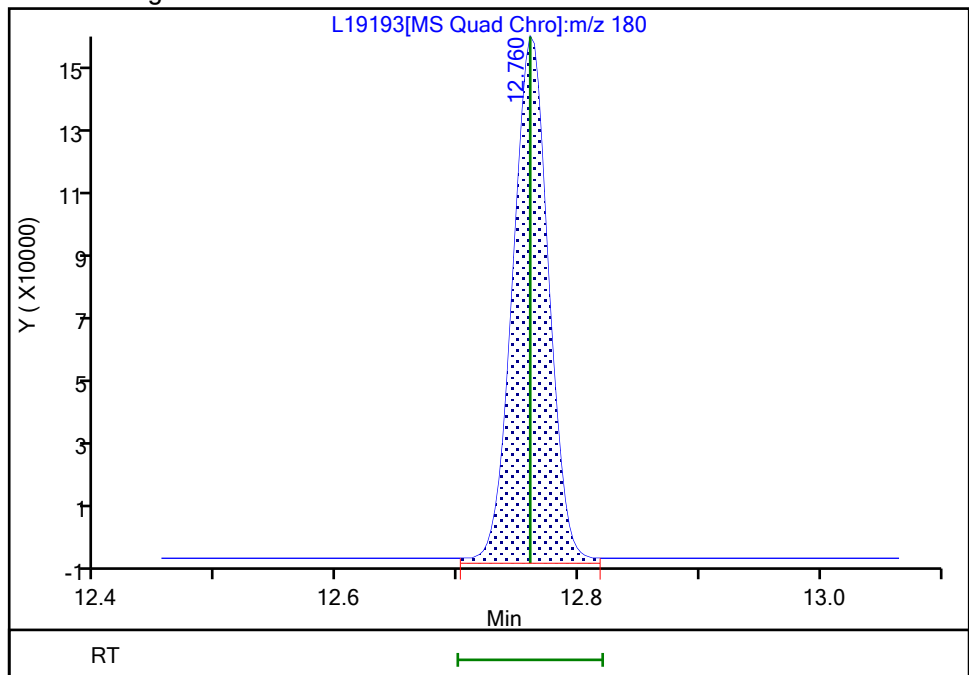
RT: 12.76  
Area: 306417  
Amount: 19.244138  
Amount Units: ug/L

## Processing Integration Results



RT: 12.76  
Area: 316786  
Amount: 19.895350  
Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 16-Aug-2022 14:48:41

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 480-637762/4 Calibration Date: 08/17/2022 11:41

Instrument ID: HP5977L Calib Start Date: 07/07/2022 12:02

GC Column: ZB-624 (30) VOA ID: 0.25 (mm) Calib End Date: 07/07/2022 15:16

Lab File ID: L19226.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                               | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|---------------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Dichlorodifluoromethane               | Ave           | 1.547   | 1.406  | 0.1000  | 22.7           | 25.0            | -9.1  | 50.0      |
| Chloromethane                         | Ave           | 1.447   | 1.437  | 0.1000  | 24.8           | 25.0            | -0.7  | 20.0      |
| Vinyl chloride                        | Ave           | 1.372   | 1.232  | 0.1000  | 22.4           | 25.0            | -10.2 | 20.0      |
| Butadiene                             | Ave           | 1.111   | 1.115  |         | 25.1           | 25.0            | 0.4   | 20.0      |
| Bromomethane                          | Ave           | 1.018   | 1.135  | 0.1000  | 27.9           | 25.0            | 11.5  | 50.0      |
| Chloroethane                          | Ave           | 0.8415  | 0.9629 | 0.1000  | 28.6           | 25.0            | 14.4  | 50.0      |
| Dichlorofluoromethane                 | Ave           | 1.909   | 2.337  |         | 30.6           | 25.0            | 22.4* | 20.0      |
| Trichlorofluoromethane                | Ave           | 1.785   | 1.967  | 0.1000  | 27.6           | 25.0            | 10.2  | 20.0      |
| Ethyl ether                           | Ave           | 1.169   | 1.313  |         | 28.1           | 25.0            | 12.3  | 20.0      |
| Acrolein                              | Ave           | 0.2355  | 0.1775 |         | 94.2           | 125             | -24.6 | 50.0      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Ave           | 1.160   | 1.342  | 0.1000  | 28.9           | 25.0            | 15.7  | 20.0      |
| 1,1-Dichloroethene                    | Ave           | 1.135   | 1.276  | 0.1000  | 28.1           | 25.0            | 12.4  | 20.0      |
| Acetone                               | Ave           | 0.5466  | 0.8466 | 0.1000  | 194            | 125             | 54.9* | 50.0      |
| Iodomethane                           | Ave           | 2.078   | 2.243  |         | 27.0           | 25.0            | 8.0   | 20.0      |
| Carbon disulfide                      | Ave           | 3.145   | 3.464  | 0.1000  | 27.5           | 25.0            | 10.1  | 20.0      |
| Allyl chloride                        | Ave           | 1.779   | 1.678  |         | 23.6           | 25.0            | -5.7  | 20.0      |
| Methyl acetate                        | Ave           | 1.560   | 1.558  | 0.1000  | 49.9           | 50.0            | -0.1  | 50.0      |
| Methylene Chloride                    | Lin1          |         | 1.645  | 0.1000  | 28.2           | 25.0            | 12.7  | 20.0      |
| 2-Methyl-2-propanol                   | Ave           | 0.2395  | 0.2875 |         | 300            | 250             | 20.1  | 50.0      |
| Methyl tert-butyl ether               | Ave           | 4.488   | 4.730  | 0.1000  | 26.3           | 25.0            | 5.4   | 20.0      |
| trans-1,2-Dichloroethene              | Ave           | 1.391   | 1.556  | 0.1000  | 28.0           | 25.0            | 11.9  | 20.0      |
| Acrylonitrile                         | Ave           | 0.7657  | 0.7811 |         | 255            | 250             | 2.0   | 20.0      |
| Hexane                                | Ave           | 1.853   | 1.899  |         | 25.6           | 25.0            | 2.5   | 20.0      |
| 1,1-Dichloroethane                    | Ave           | 2.268   | 2.555  | 0.2000  | 28.2           | 25.0            | 12.6  | 20.0      |
| Vinyl acetate                         | Ave           | 2.915   | 3.015  |         | 51.7           | 50.0            | 3.4   | 20.0      |
| 2,2-Dichloropropane                   | Ave           | 1.366   | 1.703  |         | 31.2           | 25.0            | 24.7* | 20.0      |
| cis-1,2-Dichloroethene                | Ave           | 1.567   | 1.702  | 0.1000  | 27.1           | 25.0            | 8.6   | 20.0      |
| 2-Butanone (MEK)                      | Ave           | 1.028   | 1.112  | 0.1000  | 135            | 125             | 8.2   | 20.0      |
| Chlorobromomethane                    | Ave           | 0.8304  | 0.9011 |         | 27.1           | 25.0            | 8.5   | 20.0      |
| Tetrahydrofuran                       | Ave           | 0.7206  | 0.6566 |         | 45.6           | 50.0            | -8.9  | 20.0      |
| Chloroform                            | Ave           | 2.454   | 2.703  | 0.2000  | 27.5           | 25.0            | 10.1  | 20.0      |
| 1,1,1-Trichloroethane                 | Ave           | 1.983   | 2.202  | 0.1000  | 27.8           | 25.0            | 11.1  | 20.0      |
| Cyclohexane                           | Ave           | 2.134   | 2.124  | 0.1000  | 24.9           | 25.0            | -0.5  | 20.0      |
| 1,1-Dichloropropene                   | Ave           | 1.871   | 1.985  |         | 26.5           | 25.0            | 6.1   | 20.0      |
| Carbon tetrachloride                  | Ave           | 1.647   | 1.790  | 0.1000  | 27.2           | 25.0            | 8.7   | 20.0      |
| Isobutyl alcohol                      | Ave           | 0.1103  | 0.1134 |         | 642            | 625             | 2.8   | 50.0      |
| Benzene                               | Ave           | 5.671   | 6.102  | 0.5000  | 26.9           | 25.0            | 7.6   | 20.0      |
| 1,2-Dichloroethane                    | Ave           | 1.955   | 2.132  | 0.1000  | 27.3           | 25.0            | 9.1   | 20.0      |
| n-Heptane                             | Ave           | 2.113   | 1.874  |         | 22.2           | 25.0            | -11.3 | 20.0      |
| Trichloroethene                       | Ave           | 1.474   | 1.534  | 0.2000  | 26.0           | 25.0            | 4.1   | 20.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 480-637762/4 Calibration Date: 08/17/2022 11:41

Instrument ID: HP5977L Calib Start Date: 07/07/2022 12:02

GC Column: ZB-624 (30) VOA ID: 0.25 (mm) Calib End Date: 07/07/2022 15:16

Lab File ID: L19226.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Methylcyclohexane           | Ave           | 2.376   | 2.426  | 0.1000  | 25.5           | 25.0            | 2.1   | 20.0      |
| 1,2-Dichloropropane         | Ave           | 1.344   | 1.442  | 0.1000  | 26.8           | 25.0            | 7.3   | 20.0      |
| 1,4-Dioxane                 | Ave           | 0.0048  | 0.0056 |         | 584            | 500             | 16.7  | 50.0      |
| Dibromomethane              | Ave           | 0.9550  | 1.016  | 0.1000  | 26.6           | 25.0            | 6.4   | 20.0      |
| Bromodichloromethane        | Ave           | 1.650   | 1.789  | 0.2000  | 27.1           | 25.0            | 8.4   | 20.0      |
| 2-Chloroethyl vinyl ether   | Ave           | 1.086   | 1.024  |         | 23.6           | 25.0            | -5.7  | 20.0      |
| cis-1,3-Dichloropropene     | Ave           | 2.190   | 2.313  | 0.2000  | 26.4           | 25.0            | 5.7   | 20.0      |
| 4-Methyl-2-pentanone (MIBK) | Ave           | 0.5026  | 0.4595 | 0.1000  | 114            | 125             | -8.6  | 20.0      |
| Toluene                     | Ave           | 0.9199  | 0.8730 | 0.4000  | 23.7           | 25.0            | -5.1  | 20.0      |
| trans-1,3-Dichloropropene   | Ave           | 0.5047  | 0.5074 | 0.1000  | 25.1           | 25.0            | 0.5   | 20.0      |
| Ethyl methacrylate          | Ave           | 0.5269  | 0.5114 |         | 24.3           | 25.0            | -2.9  | 20.0      |
| 1,1,2-Trichloroethane       | Ave           | 0.2878  | 0.2848 | 0.1000  | 24.7           | 25.0            | -1.0  | 20.0      |
| Tetrachloroethene           | Ave           | 0.4101  | 0.3760 | 0.2000  | 22.9           | 25.0            | -8.3  | 20.0      |
| 1,3-Dichloropropane         | Ave           | 0.6177  | 0.5916 |         | 23.9           | 25.0            | -4.2  | 20.0      |
| 2-Hexanone                  | Ave           | 0.3561  | 0.3559 | 0.1000  | 125            | 125             | -0.0  | 20.0      |
| Dibromochloromethane        | Ave           | 0.3178  | 0.3088 | 0.1000  | 24.3           | 25.0            | -2.8  | 20.0      |
| 1,2-Dibromoethane           | Ave           | 0.3781  | 0.3542 |         | 23.4           | 25.0            | -6.3  | 20.0      |
| Chlorobenzene               | Ave           | 1.039   | 0.9800 | 0.5000  | 23.6           | 25.0            | -5.7  | 20.0      |
| Ethylbenzene                | Ave           | 1.666   | 1.600  | 0.1000  | 24.0           | 25.0            | -4.0  | 20.0      |
| 1,1,1,2-Tetrachloroethane   | Ave           | 0.3408  | 0.3438 |         | 25.2           | 25.0            | 0.9   | 20.0      |
| m,p-Xylene                  | Ave           | 0.6598  | 0.6196 | 0.1000  | 23.5           | 25.0            | -6.1  | 20.0      |
| o-Xylene                    | Ave           | 0.6483  | 0.6057 | 0.3000  | 23.4           | 25.0            | -6.6  | 20.0      |
| Styrene                     | Ave           | 1.078   | 1.047  | 0.3000  | 24.3           | 25.0            | -2.8  | 20.0      |
| Bromoform                   | Ave           | 0.2186  | 0.1967 | 0.1000  | 22.5           | 25.0            | -10.0 | 50.0      |
| Isopropylbenzene            | Ave           | 3.186   | 2.828  | 0.1000  | 22.2           | 25.0            | -11.3 | 20.0      |
| Bromobenzene                | Ave           | 0.8343  | 0.7224 |         | 21.6           | 25.0            | -13.4 | 20.0      |
| 1,1,2,2-Tetrachloroethane   | Ave           | 1.023   | 0.9256 | 0.3000  | 22.6           | 25.0            | -9.5  | 20.0      |
| N-Propylbenzene             | Ave           | 3.702   | 3.395  |         | 22.9           | 25.0            | -8.3  | 20.0      |
| trans-1,4-Dichloro-2-butene | Ave           | 0.2768  | 0.2442 |         | 22.1           | 25.0            | -11.8 | 50.0      |
| 1,2,3-Trichloropropane      | Ave           | 0.3654  | 0.3213 |         | 22.0           | 25.0            | -12.1 | 20.0      |
| 2-Chlorotoluene             | Ave           | 0.7690  | 0.6876 |         | 22.4           | 25.0            | -10.6 | 20.0      |
| 1,3,5-Trimethylbenzene      | Ave           | 2.619   | 2.403  |         | 22.9           | 25.0            | -8.2  | 20.0      |
| 4-Chlorotoluene             | Ave           | 2.291   | 2.044  |         | 22.3           | 25.0            | -10.7 | 20.0      |
| tert-Butylbenzene           | Ave           | 0.6074  | 0.5379 |         | 22.1           | 25.0            | -11.4 | 20.0      |
| 1,2,4-Trimethylbenzene      | Ave           | 2.687   | 2.464  |         | 22.9           | 25.0            | -8.3  | 20.0      |
| sec-Butylbenzene            | Ave           | 3.378   | 3.068  |         | 22.7           | 25.0            | -9.2  | 20.0      |
| 4-Isopropyltoluene          | Ave           | 2.927   | 2.649  |         | 22.6           | 25.0            | -9.5  | 20.0      |
| 1,3-Dichlorobenzene         | Ave           | 1.597   | 1.461  | 0.6000  | 22.9           | 25.0            | -8.5  | 20.0      |
| 1,4-Dichlorobenzene         | Ave           | 1.645   | 1.472  | 0.5000  | 22.4           | 25.0            | -10.5 | 20.0      |
| n-Butylbenzene              | Ave           | 2.604   | 2.400  |         | 23.0           | 25.0            | -7.8  | 20.0      |
| 1,2-Dichlorobenzene         | Ave           | 1.578   | 1.421  | 0.4000  | 22.5           | 25.0            | -9.9  | 20.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 480-637762/4 Calibration Date: 08/17/2022 11:41  
 Instrument ID: HP5977L Calib Start Date: 07/07/2022 12:02  
 GC Column: ZB-624 (30) VOA ID: 0.25 (mm) Calib End Date: 07/07/2022 15:16  
 Lab File ID: L19226.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.2084  | 0.1702 | 0.0500  | 20.4           | 25.0            | -18.3  | 50.0      |
| 1,2,4-Trichlorobenzene       | Ave           | 1.185   | 0.9364 | 0.2000  | 19.8           | 25.0            | -21.0* | 20.0      |
| Hexachlorobutadiene          | Ave           | 0.5133  | 0.3557 |         | 17.3           | 25.0            | -30.7* | 20.0      |
| Naphthalene                  | Ave           | 3.653   | 3.009  |         | 20.6           | 25.0            | -17.6  | 20.0      |
| 1,2,3-Trichlorobenzene       | Ave           | 1.122   | 0.9228 |         | 20.6           | 25.0            | -17.8  | 20.0      |
| Dibromofluoromethane (Surr)  | Ave           | 1.269   | 1.361  |         | 26.8           | 25.0            | 7.2    | 20.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 1.438   | 1.573  |         | 27.3           | 25.0            | 9.4    | 20.0      |
| Toluene-d8 (Surr)            | Ave           | 1.248   | 1.208  |         | 24.2           | 25.0            | -3.2   | 20.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.3906  | 0.3896 |         | 24.9           | 25.0            | -0.3   | 20.0      |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19226.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 17-Aug-2022 11:41:57 ALS Bottle#: 0 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 480-0107131-004  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Sublist: chrom-L-8260\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 12:08:58 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 12:08:58

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.773        | 5.773            | 0.000            | 99  | 138920   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.667        | 8.667            | 0.000            | 84  | 600930   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.062       | 11.062           | 0.000            | 94  | 341093   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.223        | 5.223            | 0.000            | 82  | 189012   | 25.0            | 26.8              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.525        | 5.525            | 0.000            | 97  | 218571   | 25.0            | 27.3              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.204        | 7.204            | 0.000            | 92  | 726206   | 25.0            | 24.2              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911        | 9.911            | 0.000            | 99  | 234123   | 25.0            | 24.9              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.773        | 1.773            | 0.000            | 99  | 195360   | 25.0            | 22.7              |       |
| 13 Chloromethane                         | 50  | 2.011        | 2.011            | 0.000            | 99  | 199683   | 25.0            | 24.8              |       |
| 14 Vinyl chloride                        | 62  | 2.114        | 2.114            | 0.000            | 98  | 171143   | 25.0            | 22.4              |       |
| 15 Butadiene                             | 54  | 2.139        | 2.139            | 0.000            | 89  | 154964   | 25.0            | 25.1              |       |
| 18 Bromomethane                          | 94  | 2.477        | 2.477            | 0.000            | 92  | 157635   | 25.0            | 27.9              |       |
| 19 Chloroethane                          | 64  | 2.564        | 2.564            | 0.000            | 99  | 133768   | 25.0            | 28.6              |       |
| 20 Dichlorofluoromethane                 | 67  | 2.770        | 2.770            | 0.000            | 97  | 324686   | 25.0            | 30.6              |       |
| 21 Trichlorofluoromethane                | 101 | 2.782        | 2.782            | 0.000            | 96  | 273298   | 25.0            | 27.6              |       |
| 26 Ethyl ether                           | 59  | 3.030        | 3.030            | 0.000            | 87  | 182361   | 25.0            | 28.1              |       |
| 28 Acrolein                              | 56  | 3.213        | 3.213            | 0.000            | 99  | 123276   | 125.0           | 94.2              |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.252        | 3.252            | 0.000            | 90  | 186406   | 25.0            | 28.9              |       |
| 30 1,1-Dichloroethene                    | 96  | 3.252        | 3.252            | 0.000            | 97  | 177214   | 25.0            | 28.1              |       |
| 31 Acetone                               | 43  | 3.358        | 3.358            | 0.000            | 100 | 588053   | 125.0           | 193.6             |       |
| 33 Iodomethane                           | 142 | 3.419        | 3.419            | 0.000            | 99  | 311610   | 25.0            | 27.0              |       |
| 35 Carbon disulfide                      | 76  | 3.471        | 3.471            | 0.000            | 99  | 481185   | 25.0            | 27.5              |       |
| 37 3-Chloro-1-propene                    | 41  | 3.590        | 3.590            | 0.000            | 88  | 233103   | 25.0            | 23.6              |       |
| 38 Methyl acetate                        | 43  | 3.615        | 3.615            | 0.000            | 97  | 432929   | 50.0            | 49.9              |       |
| 39 Methylene Chloride                    | 84  | 3.718        | 3.718            | 0.000            | 88  | 228521   | 25.0            | 28.2              |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.844        | 3.844            | 0.000            | 99  | 399369   | 250.0           | 300.1             |       |
| 41 Methyl tert-butyl ether               | 73  | 3.901        | 3.901            | 0.000            | 93  | 657025   | 25.0            | 26.3              |       |
| 42 trans-1,2-Dichloroethene              | 96  | 3.927        | 3.927            | 0.000            | 97  | 216221   | 25.0            | 28.0              |       |
| 44 Acrylonitrile                         | 53  | 3.972        | 3.972            | 0.000            | 98  | 1085046  | 250.0           | 255.0             |       |
| 47 Hexane                                | 57  | 4.085        | 4.085            | 0.000            | 90  | 263793   | 25.0            | 25.6              |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 50 1,1-Dichloroethane           | 63  | 4.307     | 4.307         | 0.000         | 96 | 354940   | 25.0         | 28.2           |       |
| 49 Vinyl acetate                | 43  | 4.323     | 4.323         | 0.000         | 97 | 837817   | 50.0         | 51.7           |       |
| 56 2,2-Dichloropropane          | 77  | 4.779     | 4.779         | 0.000         | 86 | 236618   | 25.0         | 31.2           |       |
| 58 cis-1,2-Dichloroethene       | 96  | 4.808     | 4.808         | 0.000         | 83 | 236430   | 25.0         | 27.1           |       |
| 57 2-Butanone (MEK)             | 43  | 4.824     | 4.824         | 0.000         | 98 | 772459   | 125.0        | 135.3          |       |
| 60 Chlorobromomethane           | 128 | 5.030     | 5.030         | 0.000         | 89 | 125185   | 25.0         | 27.1           |       |
| 61 Tetrahydrofuran              | 42  | 5.056     | 5.056         | 0.000         | 83 | 182431   | 50.0         | 45.6           |       |
| 62 Chloroform                   | 83  | 5.078     | 5.078         | 0.000         | 93 | 375470   | 25.0         | 27.5           |       |
| 64 1,1,1-Trichloroethane        | 97  | 5.207     | 5.207         | 0.000         | 98 | 305954   | 25.0         | 27.8           |       |
| 65 Cyclohexane                  | 56  | 5.223     | 5.223         | 0.000         | 88 | 295117   | 25.0         | 24.9           |       |
| 66 Carbon tetrachloride         | 117 | 5.339     | 5.339         | 0.000         | 93 | 248681   | 25.0         | 27.2           |       |
| 67 1,1-Dichloropropene          | 75  | 5.339     | 5.339         | 0.000         | 98 | 275713   | 25.0         | 26.5           |       |
| 69 Isobutyl alcohol             | 43  | 5.474     | 5.474         | 0.000         | 93 | 393871   | 625.0        | 642.4          |       |
| 70 Benzene                      | 78  | 5.538     | 5.538         | 0.000         | 96 | 847629   | 25.0         | 26.9           |       |
| 72 1,2-Dichloroethane           | 62  | 5.593     | 5.593         | 0.000         | 98 | 296209   | 25.0         | 27.3           |       |
| 73 n-Heptane                    | 43  | 5.647     | 5.647         | 0.000         | 88 | 260371   | 25.0         | 22.2           |       |
| 75 Trichloroethene              | 95  | 6.094     | 6.094         | 0.000         | 97 | 213149   | 25.0         | 26.0           |       |
| 76 Methylcyclohexane            | 83  | 6.216     | 6.216         | 0.000         | 85 | 336994   | 25.0         | 25.5           |       |
| 77 1,2-Dichloropropane          | 63  | 6.329     | 6.329         | 0.000         | 96 | 200334   | 25.0         | 26.8           |       |
| 81 1,4-Dioxane                  | 88  | 6.451     | 6.451         | 0.000         | 92 | 66713    | 500.0        | 583.7          |       |
| 82 Dibromomethane               | 93  | 6.464     | 6.464         | 0.000         | 96 | 141212   | 25.0         | 26.6           |       |
| 83 Dichlorobromomethane         | 83  | 6.586     | 6.586         | 0.000         | 99 | 248474   | 25.0         | 27.1           |       |
| 84 2-Chloroethyl vinyl ether    | 63  | 6.818     | 6.818         | 0.000         | 92 | 142217   | 25.0         | 23.6           |       |
| 85 cis-1,3-Dichloropropene      | 75  | 6.982     | 6.982         | 0.000         | 97 | 321373   | 25.0         | 26.4           |       |
| 87 4-Methyl-2-pentanone (MIBK)  | 43  | 7.097     | 7.097         | 0.000         | 95 | 1380641  | 125.0        | 114.3          |       |
| 88 Toluene                      | 92  | 7.268     | 7.268         | 0.000         | 99 | 524587   | 25.0         | 23.7           |       |
| 91 trans-1,3-Dichloropropene    | 75  | 7.515     | 7.515         | 0.000         | 96 | 304905   | 25.0         | 25.1           |       |
| 90 Ethyl methacrylate           | 69  | 7.525     | 7.525         | 0.000         | 87 | 307341   | 25.0         | 24.3           |       |
| 93 1,1,2-Trichloroethane        | 83  | 7.715     | 7.715         | 0.000         | 91 | 171136   | 25.0         | 24.7           |       |
| 94 Tetrachloroethene            | 166 | 7.792     | 7.792         | 0.000         | 98 | 225930   | 25.0         | 22.9           |       |
| 95 1,3-Dichloropropane          | 76  | 7.879     | 7.879         | 0.000         | 89 | 355505   | 25.0         | 23.9           |       |
| 96 2-Hexanone                   | 43  | 7.908     | 7.908         | 0.000         | 94 | 1069358  | 125.0        | 124.9          |       |
| 98 Chlorodibromomethane         | 129 | 8.120     | 8.120         | 0.000         | 90 | 185586   | 25.0         | 24.3           |       |
| 101 Ethylene Dibromide          | 107 | 8.242     | 8.242         | 0.000         | 99 | 212862   | 25.0         | 23.4           |       |
| 103 Chlorobenzene               | 112 | 8.695     | 8.695         | 0.000         | 96 | 588899   | 25.0         | 23.6           |       |
| 104 Ethylbenzene                | 91  | 8.763     | 8.763         | 0.000         | 98 | 961404   | 25.0         | 24.0           |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.779     | 8.779         | 0.000         | 95 | 206608   | 25.0         | 25.2           |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 372352   | 25.0         | 23.5           |       |
| 107 o-Xylene                    | 106 | 9.313     | 9.313         | 0.000         | 97 | 363988   | 25.0         | 23.4           |       |
| 109 Styrene                     | 104 | 9.342     | 9.342         | 0.000         | 95 | 629396   | 25.0         | 24.3           |       |
| 110 Bromoform                   | 173 | 9.615     | 9.615         | 0.000         | 96 | 118177   | 25.0         | 22.5           |       |
| 111 Isopropylbenzene            | 105 | 9.686     | 9.686         | 0.000         | 95 | 964455   | 25.0         | 22.2           |       |
| 113 Bromobenzene                | 156 | 10.081    | 10.081        | 0.000         | 92 | 246413   | 25.0         | 21.6           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.094    | 10.094        | 0.000         | 94 | 315721   | 25.0         | 22.6           |       |
| 114 N-Propylbenzene             | 91  | 10.130    | 10.130        | 0.000         | 99 | 1157995  | 25.0         | 22.9           |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.139    | 10.139        | 0.000         | 74 | 83298    | 25.0         | 22.1           |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.149    | 10.149        | 0.000         | 86 | 109583   | 25.0         | 22.0           |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 97 | 234531   | 25.0         | 22.4           |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.300    | 10.300        | 0.000         | 94 | 819604   | 25.0         | 22.9           |       |
| 119 4-Chlorotoluene             | 91  | 10.367    | 10.367        | 0.000         | 97 | 697354   | 25.0         | 22.3           |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 91 | 183477   | 25.0         | 22.1           |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.686    | 10.686        | 0.000         | 96 | 840396   | 25.0         | 22.9           |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 122 sec-Butylbenzene            | 105 | 10.840    | 10.840        | 0.000         | 94 | 1046338  | 25.0         | 22.7           |       |
| 123 4-Isopropyltoluene          | 119 | 10.972    | 10.972        | 0.000         | 97 | 903558   | 25.0         | 22.6           |       |
| 124 1,3-Dichlorobenzene         | 146 | 11.001    | 11.001        | 0.000         | 98 | 498390   | 25.0         | 22.9           |       |
| 126 1,4-Dichlorobenzene         | 146 | 11.085    | 11.085        | 0.000         | 95 | 502229   | 25.0         | 22.4           |       |
| 127 n-Butylbenzene              | 91  | 11.355    | 11.355        | 0.000         | 98 | 818774   | 25.0         | 23.0           |       |
| 128 1,2-Dichlorobenzene         | 146 | 11.435    | 11.435        | 0.000         | 98 | 484845   | 25.0         | 22.5           |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  | 12.136    | 12.136        | 0.000         | 88 | 58062    | 25.0         | 20.4           |       |
| 130 1,2,4-Trichlorobenzene      | 180 | 12.760    | 12.760        | 0.000         | 95 | 319411   | 25.0         | 19.8           |       |
| 131 Hexachlorobutadiene         | 225 | 12.850    | 12.850        | 0.000         | 96 | 121336   | 25.0         | 17.3           |       |
| 132 Naphthalene                 | 128 | 12.975    | 12.975        | 0.000         | 97 | 1026508  | 25.0         | 20.6           |       |
| 133 1,2,3-Trichlorobenzene      | 180 | 13.178    | 13.178        | 0.000         | 96 | 314747   | 25.0         | 20.6           |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

|                     |                     |           |             |
|---------------------|---------------------|-----------|-------------|
| 8260 CORP mix_00227 | Amount Added: 12.50 | Units: uL |             |
| GAS CORP mix_00525  | Amount Added: 12.50 | Units: uL |             |
| L_8260_SURR_00036   | Amount Added: 2.00  | Units: uL | Run Reagent |
| L_8260_IS_00038     | Amount Added: 2.00  | Units: uL | Run Reagent |

Report Date: 17-Aug-2022 12:08:59

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19226.D

Injection Date: 17-Aug-2022 11:41:57

Instrument ID: HP5977L

Lims ID: CCVIS

Client ID:

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 4

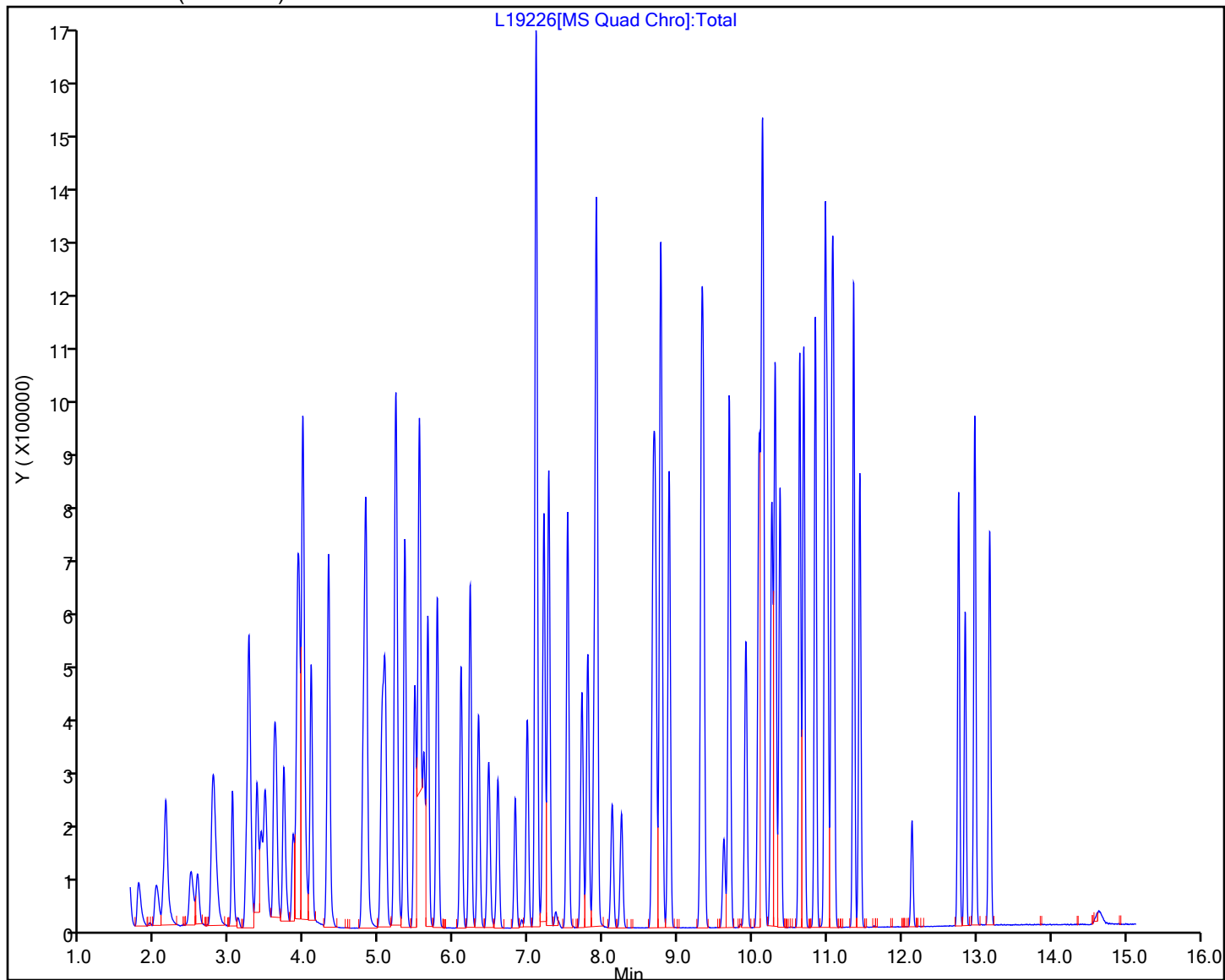
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)





Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4493.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 09-Aug-2022 16:17:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 1.0 uL Dil. Factor: 1.0000  
 Sample Info: BFB  
 Misc. Info.: 480-0106979-011  
 Operator ID: AG Instrument ID: HP5973S  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 10-Aug-2022 14:58:56 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1608

First Level Reviewer: FGO5

Date: 09-Aug-2022 16:31:26

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|

|           |    |       |       |       |   |        |    |    |  |
|-----------|----|-------|-------|-------|---|--------|----|----|--|
| \$ 61 BFB | 95 | 3.254 | 3.254 | 0.000 | 0 | 317309 | NR | NR |  |
|-----------|----|-------|-------|-------|---|--------|----|----|--|

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

BFB\_WRK\_00137

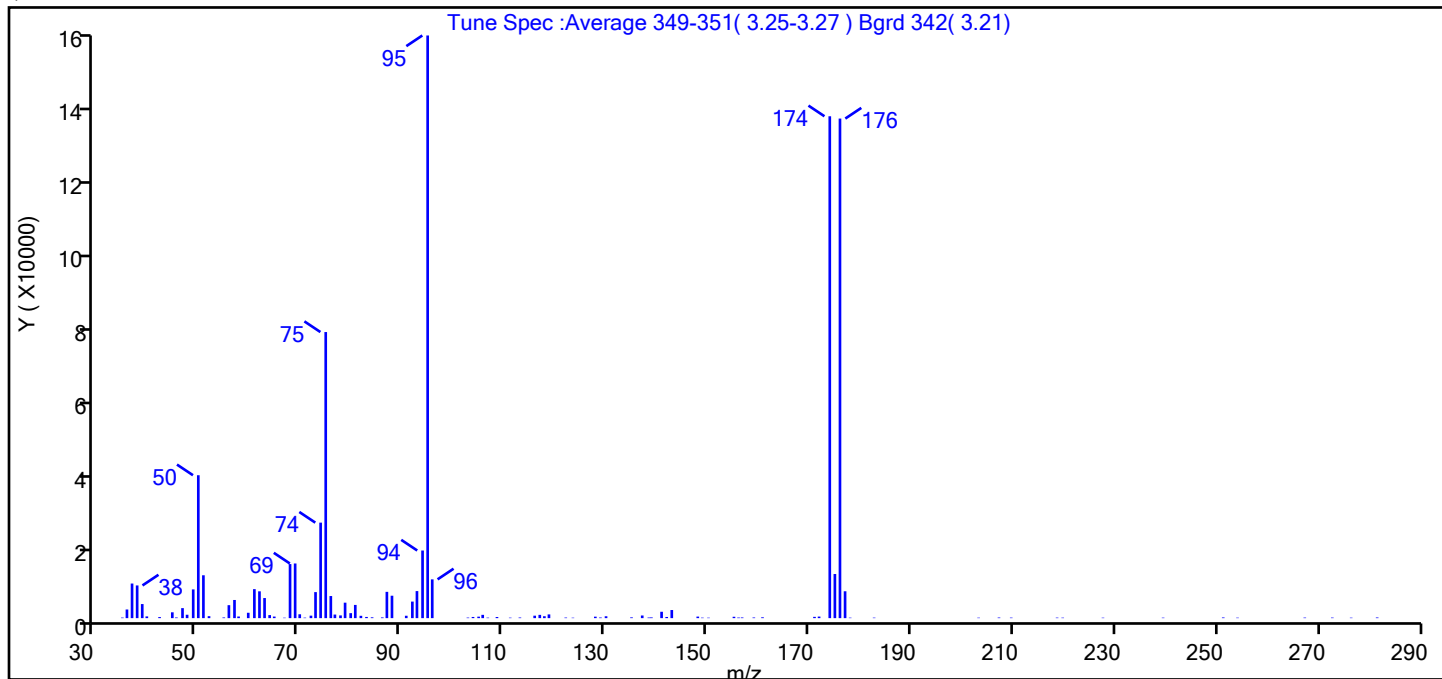
Amount Added: 1.00

Units: uL

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4493.D  
Injection Date: 09-Aug-2022 16:17:30 Instrument ID: HP5973S  
Lims ID: BFB  
Client ID:  
Operator ID: AG ALS Bottle#: 11 Worklist Smp#: 11  
Injection Vol: 1.0 uL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Tune Method: BFB Method 8260

\$ 61 BFB



| m/z | Ion Abundance Criteria                         | % Relative Abundance |
|-----|------------------------------------------------|----------------------|
| 95  | Base peak, 100% relative abundance             | 100.0                |
| 50  | 15 to 40% of m/z 95                            | 24.5                 |
| 75  | 30 to 60% of m/z 95                            | 49.1                 |
| 96  | 5 to 9% of m/z 95                              | 6.7                  |
| 173 | Less than 2% of m/z 174                        | 0.0 (0.0)            |
| 174 | 50 to 120% of m/z 95                           | 86.1                 |
| 175 | 5 to 9% of m/z 174                             | 7.6 (8.8)            |
| 176 | Greater than 95% but less than 101% of m/z 174 | 85.7 (99.5)          |
| 177 | 5 to 9% of m/z 176                             | 4.6 (5.4)            |

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4493.D\S-8260.rsl\spectra.d  
Injection Date: 09-Aug-2022 16:17:30  
Spectrum: Tune Spec :Average 349-351( 3.25-3.27 ) Bgrd 342( 3.21)  
Base Peak: 95.10  
Minimum % Base Peak: 0  
Number of Points: 105

| m/z   | Y     | m/z    | Y      | m/z    | Y    | m/z    | Y      |
|-------|-------|--------|--------|--------|------|--------|--------|
| 35.00 | 148   | 69.00  | 14289  | 105.00 | 387  | 157.00 | 177    |
| 36.00 | 2264  | 70.00  | 1011   | 106.00 | 861  | 159.00 | 169    |
| 37.00 | 9048  | 71.00  | 131    | 107.00 | 130  | 161.00 | 219    |
| 38.00 | 8549  | 72.00  | 651    | 109.00 | 295  | 171.00 | 336    |
| 39.00 | 3682  | 73.00  | 6807   | 111.00 | 127  | 172.00 | 410    |
| 40.00 | 450   | 74.00  | 24968  | 113.00 | 166  | 174.00 | 131200 |
| 42.00 | 280   | 75.00  | 74792  | 116.00 | 643  | 175.00 | 11538  |
| 45.00 | 1526  | 76.00  | 5779   | 117.00 | 858  | 176.00 | 130600 |
| 46.00 | 175   | 77.00  | 938    | 118.00 | 500  | 177.00 | 7026   |
| 47.00 | 2619  | 78.00  | 713    | 119.00 | 976  | 178.00 | 125    |
| 48.00 | 890   | 79.00  | 4045   | 122.00 | 152  | 183.00 | 129    |
| 49.00 | 7513  | 80.00  | 1306   | 124.00 | 117  | 203.00 | 122    |
| 50.00 | 37360 | 81.00  | 3455   | 128.00 | 386  | 207.00 | 161    |
| 51.00 | 11208 | 82.00  | 610    | 129.00 | 164  | 210.00 | 136    |
| 52.00 | 516   | 83.00  | 312    | 130.00 | 491  | 219.00 | 139    |
| 55.00 | 179   | 84.00  | 215    | 135.00 | 203  | 220.00 | 127    |
| 56.00 | 3390  | 86.00  | 192    | 137.00 | 693  | 228.00 | 119    |
| 57.00 | 4749  | 87.00  | 6874   | 138.00 | 159  | 239.00 | 126    |
| 58.00 | 427   | 88.00  | 5862   | 139.00 | 189  | 251.00 | 176    |
| 60.00 | 1405  | 91.00  | 626    | 141.00 | 1669 | 254.00 | 124    |
| 61.00 | 7583  | 92.00  | 4328   | 142.00 | 306  | 267.00 | 143    |
| 62.00 | 7014  | 93.00  | 7073   | 143.00 | 2122 | 273.00 | 145    |
| 63.00 | 5256  | 94.00  | 17680  | 148.00 | 405  | 276.00 | 122    |
| 64.00 | 799   | 95.00  | 152320 | 149.00 | 129  | 281.00 | 174    |
| 65.00 | 410   | 96.00  | 10136  | 150.00 | 120  |        |        |
| 67.00 | 114   | 103.00 | 145    | 155.00 | 357  |        |        |
| 68.00 | 14136 | 104.00 | 306    | 156.00 | 154  |        |        |

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4493.D

Injection Date: 09-Aug-2022 16:17:30

Instrument ID: HP5973S

Operator ID: AG

Lims ID: BFB

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 uL

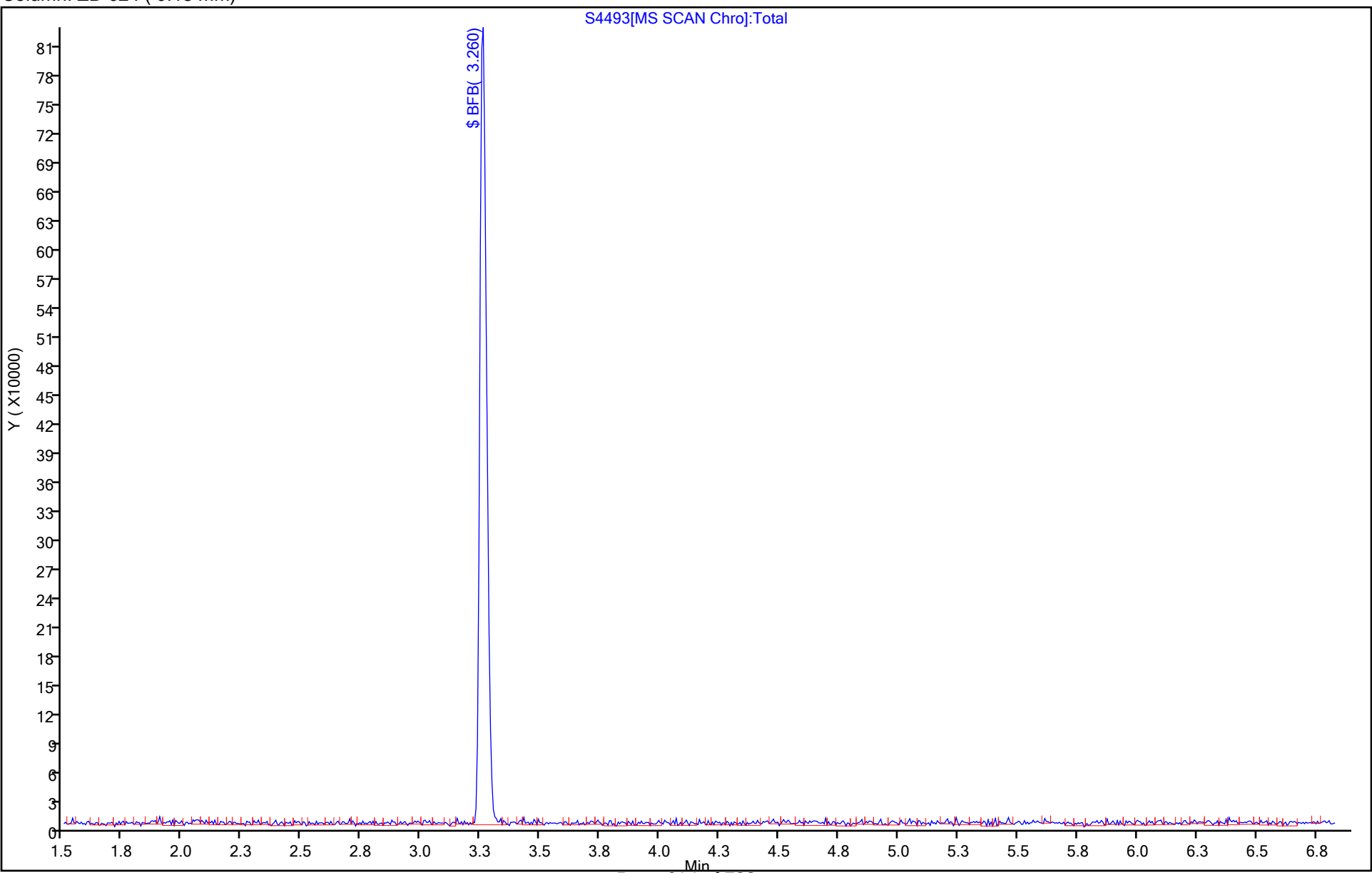
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4712.D  
Lims ID: BFB  
Client ID:  
Sample Type: BFB  
Inject. Date: 16-Aug-2022 10:45:30 ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 1.0 uL Dil. Factor: 1.0000  
Sample Info: BFB  
Misc. Info.: 480-0107106-003  
Operator ID: AG Instrument ID: HP5973S  
Method: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S-8260.m  
Limit Group: MV - 8260C ICAL  
Last Update: 16-Aug-2022 10:58:48 Calib Date: 10-Aug-2022 00:05:30  
Integrator: RTE ID Type: RT Order ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
Process Host: CTX1642

First Level Reviewer: FGO5

Date: 16-Aug-2022 10:58:48

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|

|           |    |       |       |       |   |        |    |    |  |
|-----------|----|-------|-------|-------|---|--------|----|----|--|
| \$ 61 BFB | 95 | 3.254 | 3.254 | 0.000 | 0 | 150672 | NR | NR |  |
|-----------|----|-------|-------|-------|---|--------|----|----|--|

## QC Flag Legend

Processing Flags

NR - Missing Quant Standard

## Reagents:

BFB\_WRK\_00137

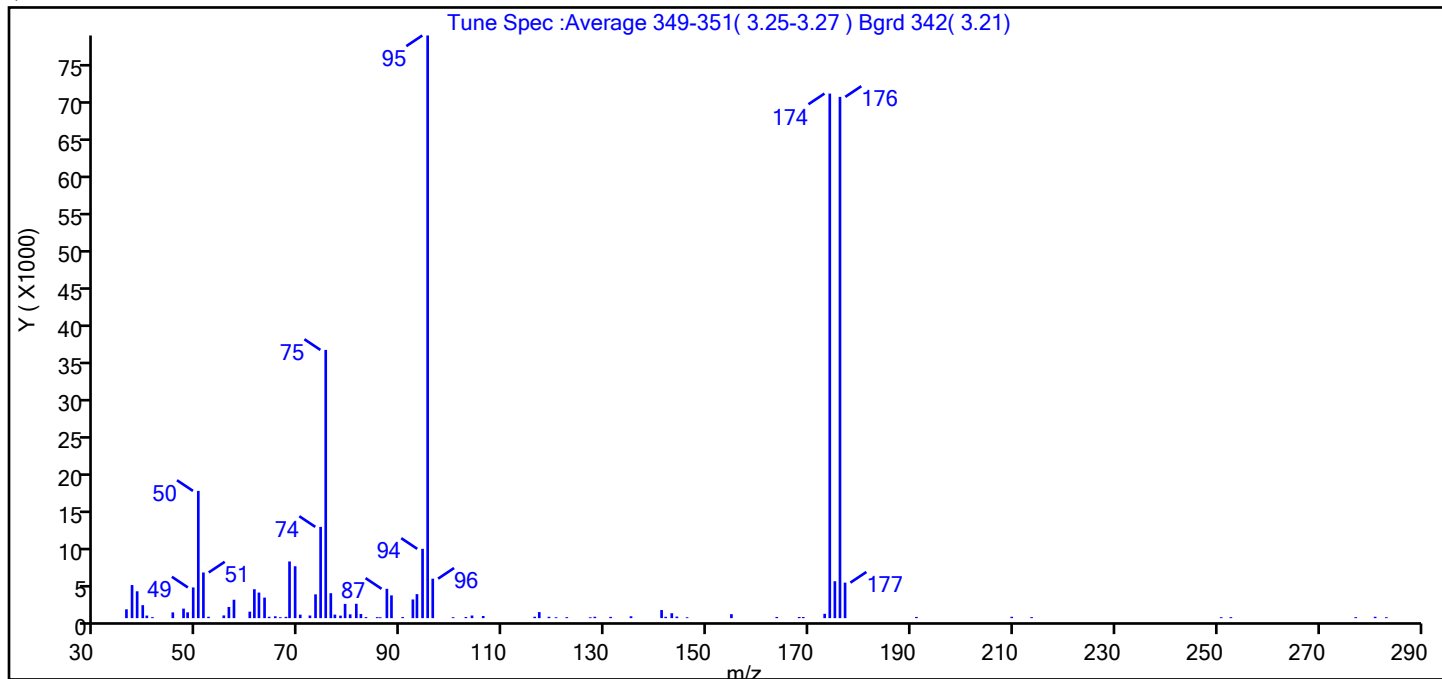
Amount Added: 1.00

Units: uL

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4712.D  
Injection Date: 16-Aug-2022 10:45:30 Instrument ID: HP5973S  
Lims ID: BFB  
Client ID:  
Operator ID: AG ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 1.0 uL Dil. Factor: 1.0000  
Method: S-8260 Limit Group: MV - 8260C ICAL  
Tune Method: BFB Method 8260

\$ 61 BFB



| m/z | Ion Abundance Criteria                         | % Relative Abundance |
|-----|------------------------------------------------|----------------------|
| 95  | Base peak, 100% relative abundance             | 100.0                |
| 50  | 15 to 40% of m/z 95                            | 21.8                 |
| 75  | 30 to 60% of m/z 95                            | 46.0                 |
| 96  | 5 to 9% of m/z 95                              | 6.8                  |
| 173 | Less than 2% of m/z 174                        | 0.7 (0.8)            |
| 174 | 50 to 120% of m/z 95                           | 90.0                 |
| 175 | 5 to 9% of m/z 174                             | 6.3 (7.0)            |
| 176 | Greater than 95% but less than 101% of m/z 174 | 89.5 (99.4)          |
| 177 | 5 to 9% of m/z 176                             | 6.1 (6.8)            |

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4712.D\S-8260.rslt\spectra.d  
Injection Date: 16-Aug-2022 10:45:30  
Spectrum: Tune Spec :Average 349-351( 3.25-3.27 ) Bgrd 342( 3.21)  
Base Peak: 95.10  
Minimum % Base Peak: 0  
Number of Points: 84

| m/z   | Y     | m/z   | Y     | m/z    | Y     | m/z    | Y     |
|-------|-------|-------|-------|--------|-------|--------|-------|
| 36.00 | 1189  | 65.00 | 249   | 88.00  | 3057  | 142.00 | 180   |
| 37.00 | 4449  | 66.00 | 121   | 90.00  | 148   | 143.00 | 661   |
| 38.00 | 3609  | 67.00 | 175   | 92.00  | 2510  | 144.00 | 211   |
| 39.00 | 1744  | 68.00 | 7616  | 93.00  | 3226  | 146.00 | 118   |
| 40.00 | 346   | 69.00 | 6973  | 94.00  | 9311  | 155.00 | 534   |
| 41.00 | 137   | 70.00 | 469   | 95.00  | 78288 | 164.00 | 159   |
| 45.00 | 774   | 72.00 | 356   | 96.00  | 5301  | 168.00 | 156   |
| 47.00 | 1279  | 73.00 | 3197  | 100.00 | 124   | 169.00 | 151   |
| 48.00 | 781   | 74.00 | 12261 | 103.00 | 151   | 173.00 | 583   |
| 49.00 | 4123  | 75.00 | 36040 | 104.00 | 354   | 174.00 | 70480 |
| 50.00 | 17096 | 76.00 | 3349  | 106.00 | 289   | 175.00 | 4960  |
| 51.00 | 6137  | 77.00 | 473   | 116.00 | 188   | 176.00 | 70040 |
| 52.00 | 187   | 78.00 | 336   | 117.00 | 813   | 177.00 | 4771  |
| 55.00 | 364   | 79.00 | 1916  | 119.00 | 185   | 191.00 | 164   |
| 56.00 | 1503  | 80.00 | 508   | 120.00 | 118   | 210.00 | 184   |
| 57.00 | 2473  | 81.00 | 1930  | 122.00 | 135   | 214.00 | 135   |
| 60.00 | 871   | 82.00 | 554   | 127.00 | 116   | 251.00 | 127   |
| 61.00 | 3887  | 83.00 | 146   | 128.00 | 186   | 253.00 | 135   |
| 62.00 | 3435  | 85.00 | 135   | 131.00 | 171   | 277.00 | 137   |
| 63.00 | 2760  | 86.00 | 117   | 135.00 | 253   | 281.00 | 183   |
| 64.00 | 185   | 87.00 | 3942  | 141.00 | 1088  | 283.00 | 124   |

Report Date: 16-Aug-2022 10:58:48

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4712.D

Injection Date: 16-Aug-2022 10:45:30

Instrument ID: HP5973S

Operator ID: AG

Lims ID: BFB

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

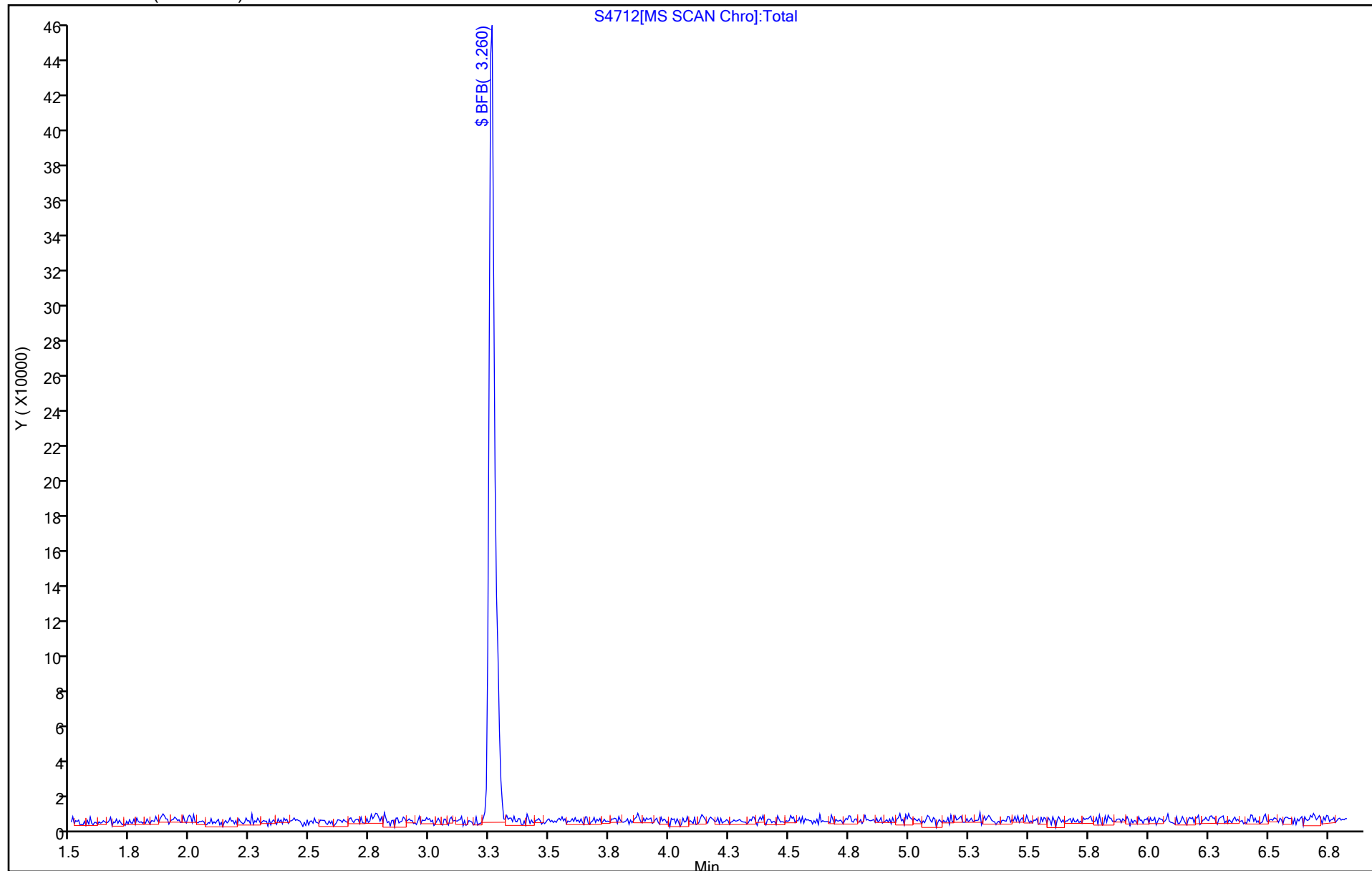
ALS Bottle#: 3

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)

S4712[MS SCAN Chro]:Total





Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18023.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 07-Jul-2022 11:11:32 ALS Bottle#: 0 Worklist Smp#: 7  
 Injection Vol: 1.0 uL Dil. Factor: 1.0000  
 Sample Info: BFB  
 Misc. Info.: 480-0106458-007  
 Operator ID: LH Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 11-Jul-2022 12:25:42 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1661

First Level Reviewer: WLL8

Date: 07-Jul-2022 11:20:02

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|

|          |    |       |       |       |   |       |    |    |  |
|----------|----|-------|-------|-------|---|-------|----|----|--|
| \$ 8 BFB | 95 | 5.428 | 5.428 | 0.000 | 0 | 59362 | NR | NR |  |
|----------|----|-------|-------|-------|---|-------|----|----|--|

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

BFB\_WRK\_00136

Amount Added: 1.00

Units: uL

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18023.D

Injection Date: 07-Jul-2022 11:11:32

Instrument ID: HP5977L

Lims ID: BFB

Client ID:

Operator ID: LH

ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 uL

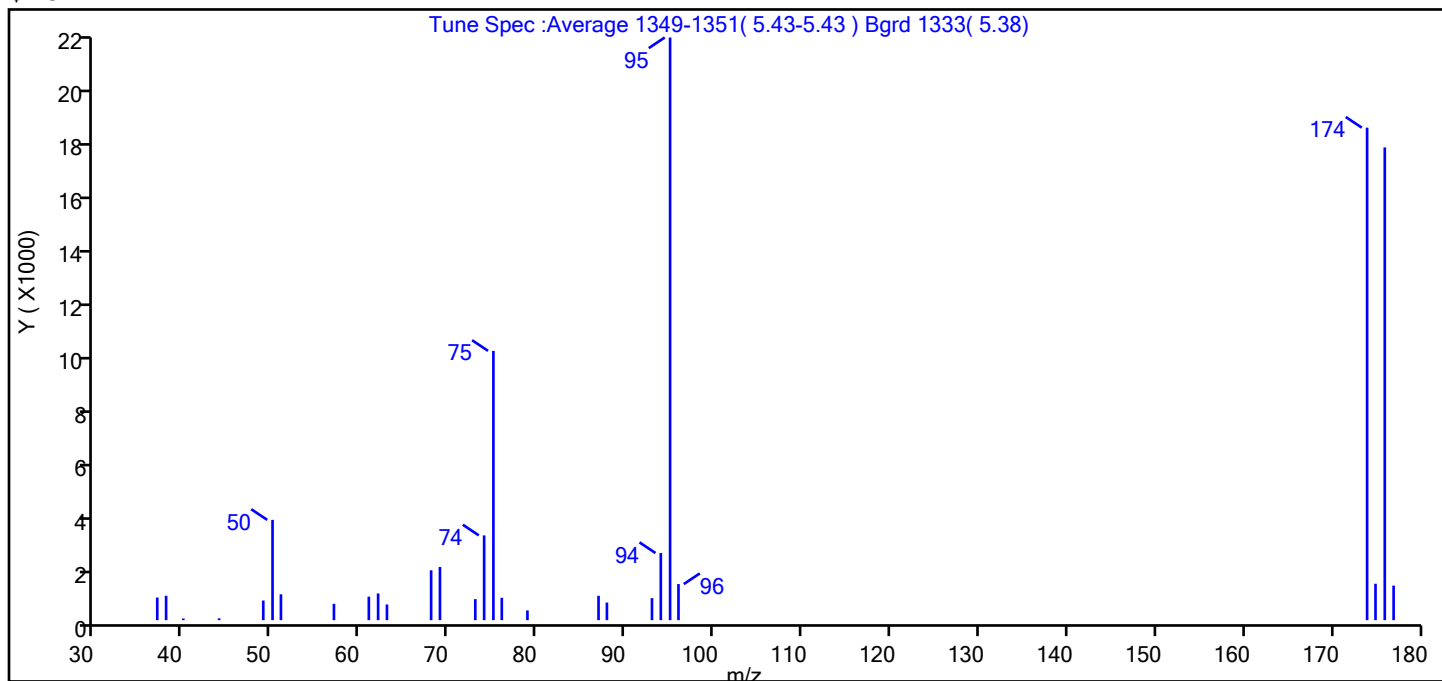
Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 8 BFB



| m/z | Ion Abundance Criteria                         | % Relative Abundance |
|-----|------------------------------------------------|----------------------|
| 95  | Base peak, 100% relative abundance             | 100.0                |
| 50  | 15 to 40% of m/z 95                            | 17.2                 |
| 75  | 30 to 60% of m/z 95                            | 46.2                 |
| 96  | 5 to 9% of m/z 95                              | 6.2                  |
| 173 | Less than 2% of m/z 174                        | 0.0 (0.0)            |
| 174 | 50 to 120% of m/z 95                           | 84.5                 |
| 175 | 5 to 9% of m/z 174                             | 6.2 (7.4)            |
| 176 | Greater than 95% but less than 101% of m/z 174 | 81.1 (96.0)          |
| 177 | 5 to 9% of m/z 176                             | 5.9 (7.3)            |

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18023.D\L-8260.rslt\spectra.d  
Injection Date: 07-Jul-2022 11:11:32  
Spectrum: Tune Spec :Average 1349-1351( 5.43-5.43 ) Bgrd 1333( 5.38)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 28

| m/z   | Y    | m/z   | Y    | m/z   | Y     | m/z    | Y     |
|-------|------|-------|------|-------|-------|--------|-------|
| 37.00 | 853  | 57.00 | 616  | 74.00 | 3196  | 94.00  | 2531  |
| 38.00 | 919  | 61.00 | 886  | 75.00 | 10152 | 95.00  | 21968 |
| 40.00 | 62   | 62.00 | 1006 | 76.00 | 842   | 96.00  | 1360  |
| 44.00 | 68   | 63.00 | 591  | 79.00 | 365   | 174.00 | 18568 |
| 49.00 | 739  | 68.00 | 1880 | 87.00 | 917   | 175.00 | 1372  |
| 50.00 | 3780 | 69.00 | 2006 | 88.00 | 662   | 176.00 | 17824 |
| 51.00 | 975  | 73.00 | 792  | 93.00 | 830   | 177.00 | 1302  |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18023.D

Injection Date: 07-Jul-2022 11:11:32

Instrument ID: HP5977L

Lims ID: BFB

Client ID:

Operator ID: LH

ALS Bottle#: 0

Worklist Smp#: 7

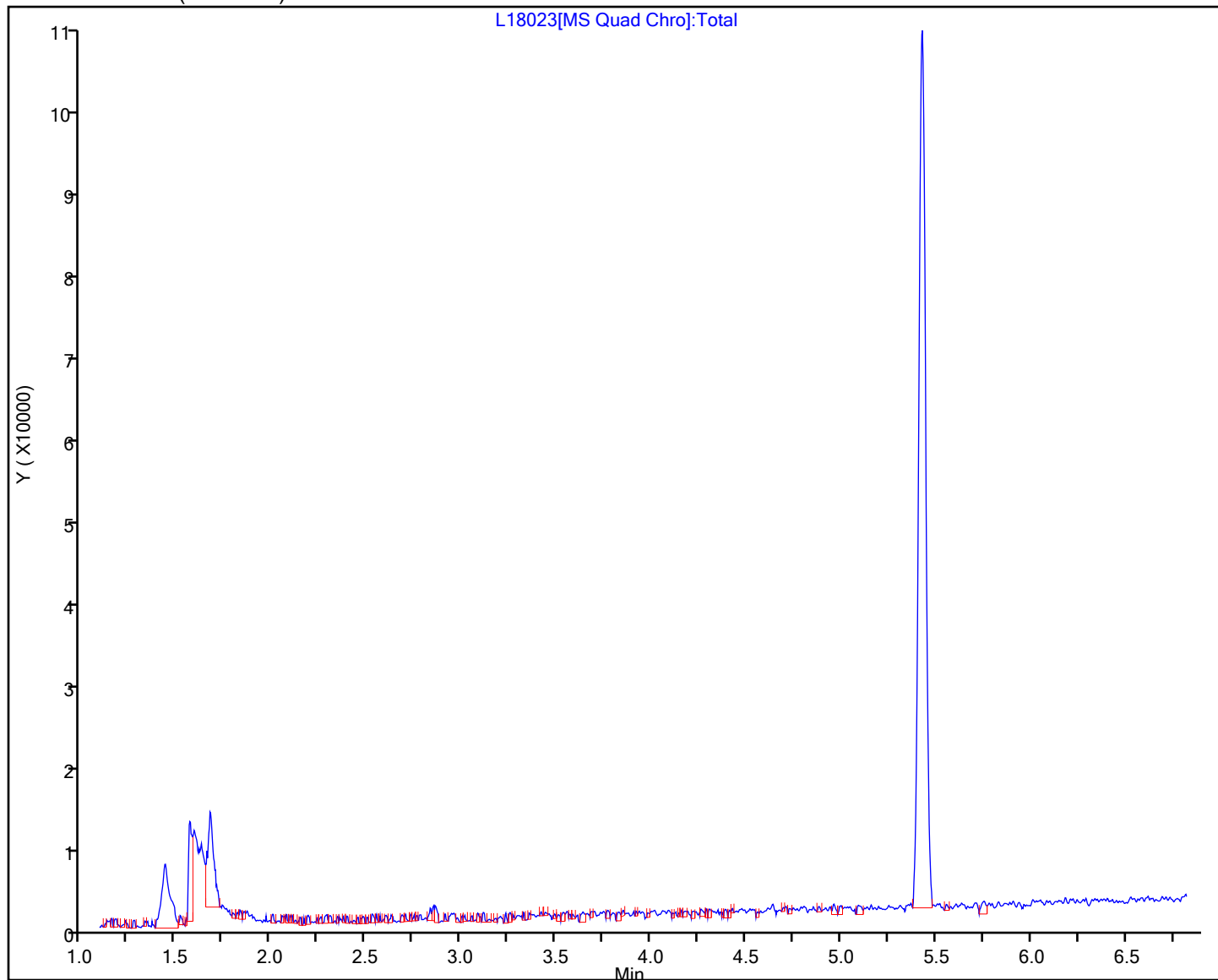
Injection Vol: 1.0 uL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19192.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 16-Aug-2022 13:58:12 ALS Bottle#: 0 Worklist Smp#: 3  
 Injection Vol: 1.0 uL Dil. Factor: 1.0000  
 Sample Info: BFB  
 Misc. Info.: 480-0107114-003  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 16-Aug-2022 14:08:16 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1631

First Level Reviewer: LS5G

Date: 16-Aug-2022 14:08:16

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|

|          |    |       |       |       |   |       |    |    |  |
|----------|----|-------|-------|-------|---|-------|----|----|--|
| \$ 8 BFB | 95 | 5.492 | 5.492 | 0.000 | 0 | 52976 | NR | NR |  |
|----------|----|-------|-------|-------|---|-------|----|----|--|

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

BFB\_WRK\_00137

Amount Added: 1.00

Units: uL

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19192.D

Injection Date: 16-Aug-2022 13:58:12

Instrument ID: HP5977L

Lims ID: BFB

Client ID:

Operator ID: CR/CB

ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 uL

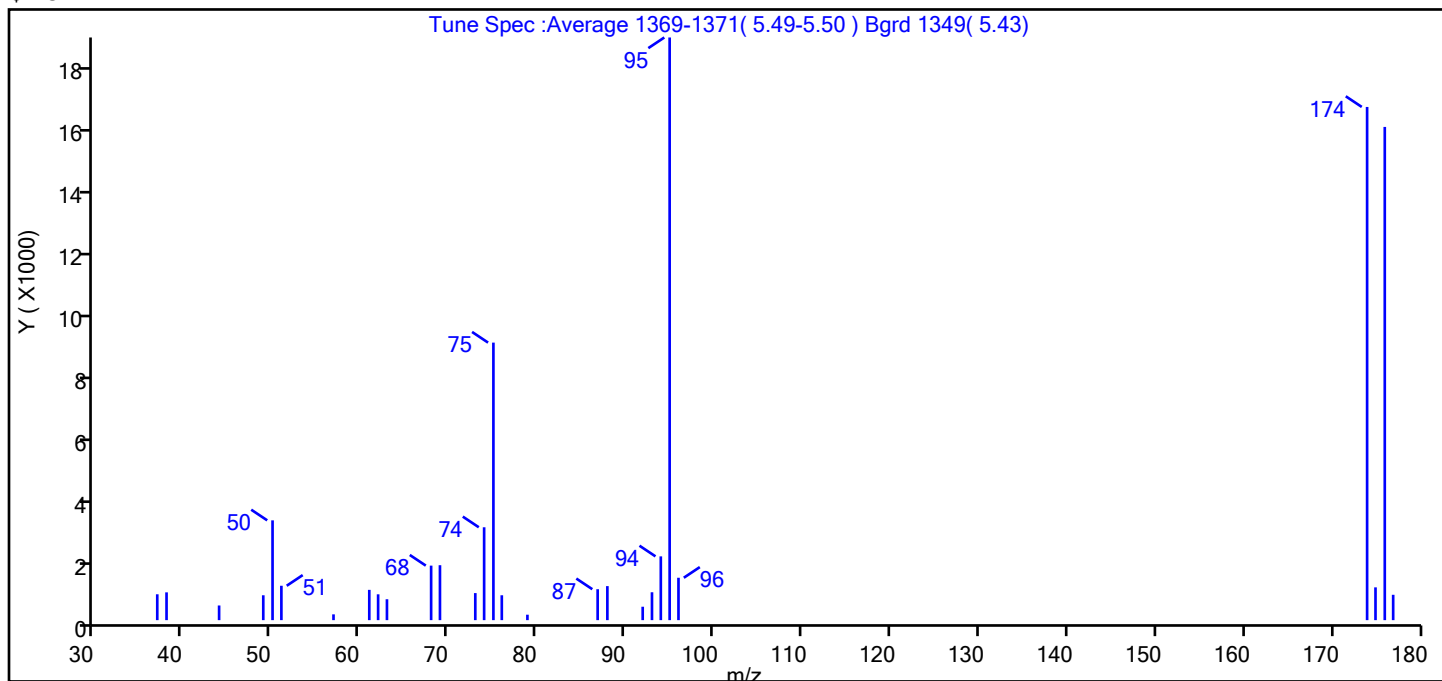
Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 8 BFB



| m/z | Ion Abundance Criteria                         | % Relative Abundance |
|-----|------------------------------------------------|----------------------|
| 95  | Base peak, 100% relative abundance             | 100.0                |
| 50  | 15 to 40% of m/z 95                            | 17.1                 |
| 75  | 30 to 60% of m/z 95                            | 47.6                 |
| 96  | 5 to 9% of m/z 95                              | 7.3                  |
| 173 | Less than 2% of m/z 174                        | 0.0 (0.0)            |
| 174 | 50 to 120% of m/z 95                           | 88.1                 |
| 175 | 5 to 9% of m/z 174                             | 5.6 (6.4)            |
| 176 | Greater than 95% but less than 101% of m/z 174 | 84.6 (96.1)          |
| 177 | 5 to 9% of m/z 176                             | 4.4 (5.1)            |

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19192.D\L-8260.rslt\spectra.d  
Injection Date: 16-Aug-2022 13:58:12  
Spectrum: Tune Spec :Average 1369-1371( 5.49-5.50 ) Bgrd 1349( 5.43)  
Base Peak: 94.95  
Minimum % Base Peak: 0  
Number of Points: 28

| m/z   | Y    | m/z   | Y    | m/z   | Y    | m/z    | Y     |
|-------|------|-------|------|-------|------|--------|-------|
| 37.00 | 808  | 61.00 | 946  | 75.00 | 8669 | 94.00  | 1992  |
| 38.00 | 868  | 62.00 | 807  | 76.00 | 777  | 95.00  | 18200 |
| 44.00 | 458  | 63.00 | 653  | 79.00 | 170  | 96.00  | 1324  |
| 49.00 | 777  | 68.00 | 1703 | 87.00 | 966  | 174.00 | 16030 |
| 50.00 | 3117 | 69.00 | 1716 | 88.00 | 1063 | 175.00 | 1024  |
| 51.00 | 1074 | 73.00 | 845  | 92.00 | 419  | 176.00 | 15406 |
| 57.00 | 181  | 74.00 | 2901 | 93.00 | 871  | 177.00 | 792   |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19192.D

Injection Date: 16-Aug-2022 13:58:12

Instrument ID: HP5977L

Lims ID: BFB

Client ID:

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 3

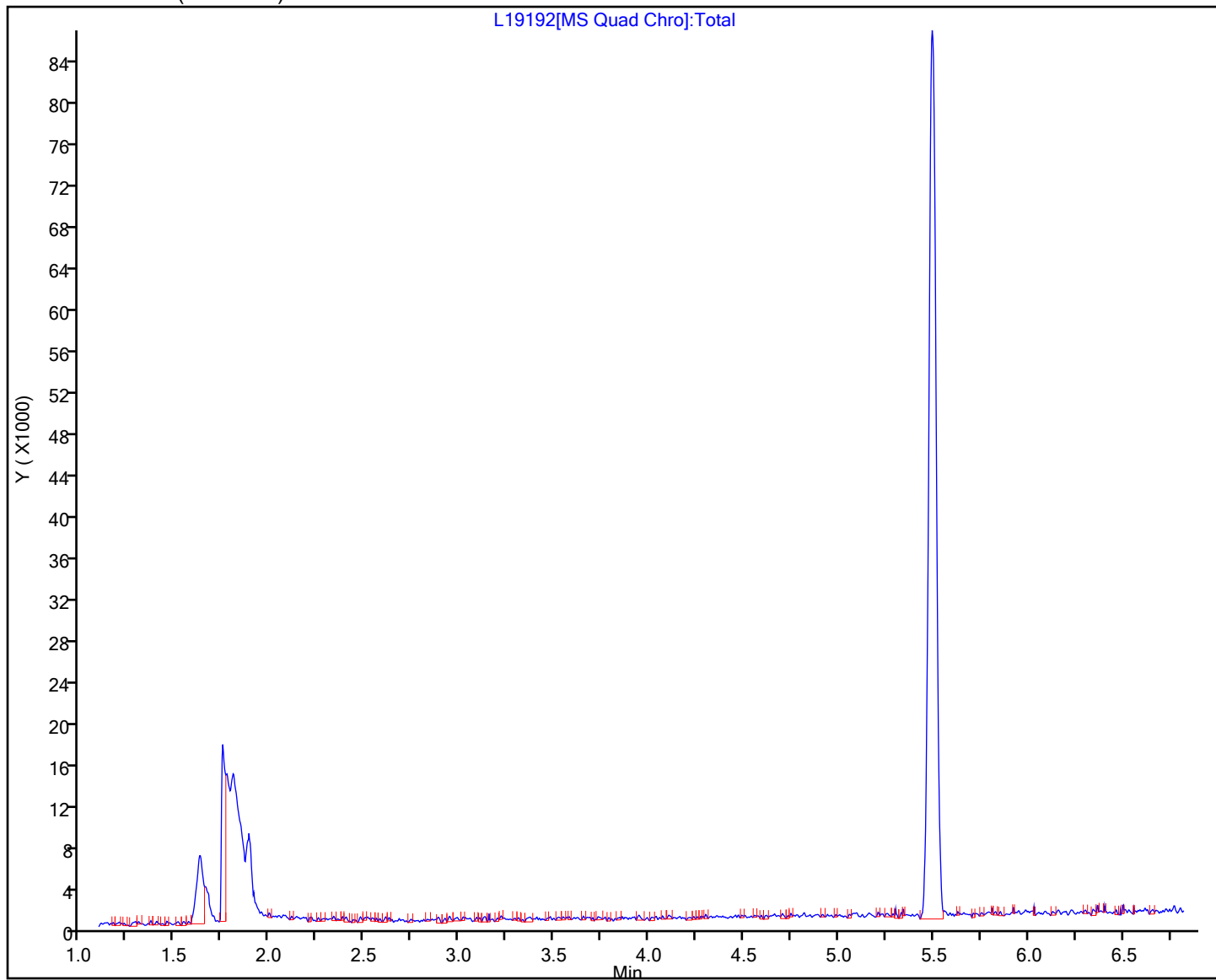
Injection Vol: 1.0 uL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)





Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19225.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 17-Aug-2022 11:14:11 ALS Bottle#: 0 Worklist Smp#: 3  
 Injection Vol: 1.0 uL Dil. Factor: 1.0000  
 Sample Info: BFB  
 Misc. Info.: 480-0107131-003  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 11:27:41 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 11:27:41

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|

|          |    |       |       |       |   |       |    |    |  |
|----------|----|-------|-------|-------|---|-------|----|----|--|
| \$ 8 BFB | 95 | 5.486 | 5.486 | 0.000 | 0 | 45527 | NR | NR |  |
|----------|----|-------|-------|-------|---|-------|----|----|--|

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

BFB\_WRK\_00137

Amount Added: 1.00

Units: uL

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19225.D

Injection Date: 17-Aug-2022 11:14:11

Instrument ID: HP5977L

Lims ID: BFB

Client ID:

Operator ID: CR/CB

ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 uL

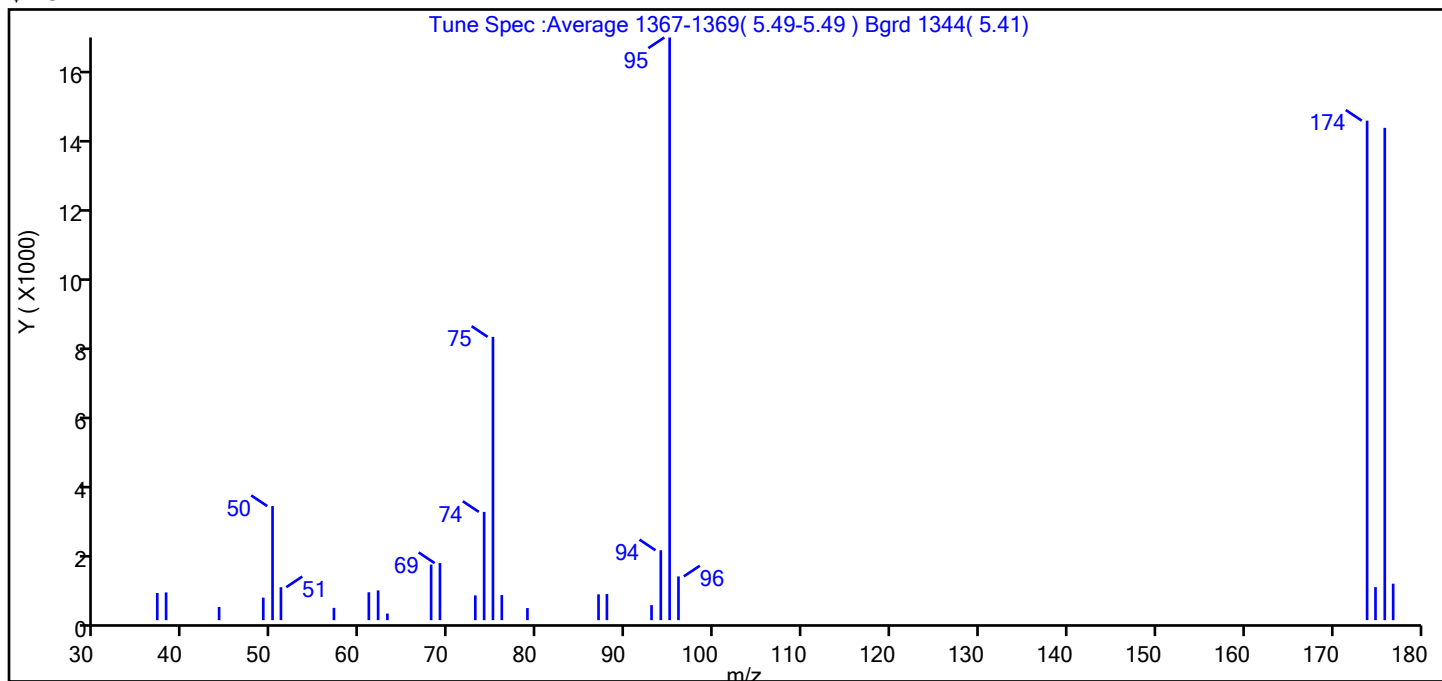
Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 8 BFB



| m/z | Ion Abundance Criteria                         | % Relative Abundance |
|-----|------------------------------------------------|----------------------|
| 95  | Base peak, 100% relative abundance             | 100.0                |
| 50  | 15 to 40% of m/z 95                            | 19.6                 |
| 75  | 30 to 60% of m/z 95                            | 48.6                 |
| 96  | 5 to 9% of m/z 95                              | 7.5                  |
| 173 | Less than 2% of m/z 174                        | 0.0 (0.0)            |
| 174 | 50 to 120% of m/z 95                           | 85.7                 |
| 175 | 5 to 9% of m/z 174                             | 5.7 (6.6)            |
| 176 | Greater than 95% but less than 101% of m/z 174 | 84.5 (98.6)          |
| 177 | 5 to 9% of m/z 176                             | 6.3 (7.4)            |

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19225.D\L-8260.rslt\spectra.d  
Injection Date: 17-Aug-2022 11:14:11  
Spectrum: Tune Spec :Average 1367-1369( 5.49-5.49 ) Bgrd 1344( 5.41)  
Base Peak: 94.95  
Minimum % Base Peak: 0  
Number of Points: 27

| m/z   | Y    | m/z   | Y    | m/z   | Y    | m/z    | Y     |
|-------|------|-------|------|-------|------|--------|-------|
| 37.00 | 765  | 61.00 | 786  | 75.00 | 7985 | 95.00  | 16424 |
| 38.00 | 782  | 62.00 | 838  | 76.00 | 707  | 96.00  | 1233  |
| 44.00 | 372  | 63.00 | 186  | 79.00 | 341  | 174.00 | 14079 |
| 49.00 | 635  | 68.00 | 1566 | 87.00 | 727  | 175.00 | 931   |
| 50.00 | 3215 | 69.00 | 1608 | 88.00 | 736  | 176.00 | 13877 |
| 51.00 | 929  | 73.00 | 698  | 93.00 | 424  | 177.00 | 1028  |
| 57.00 | 346  | 74.00 | 3051 | 94.00 | 1970 |        |       |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19225.D

Injection Date: 17-Aug-2022 11:14:11

Instrument ID: HP5977L

Lims ID: BFB

Client ID:

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 3

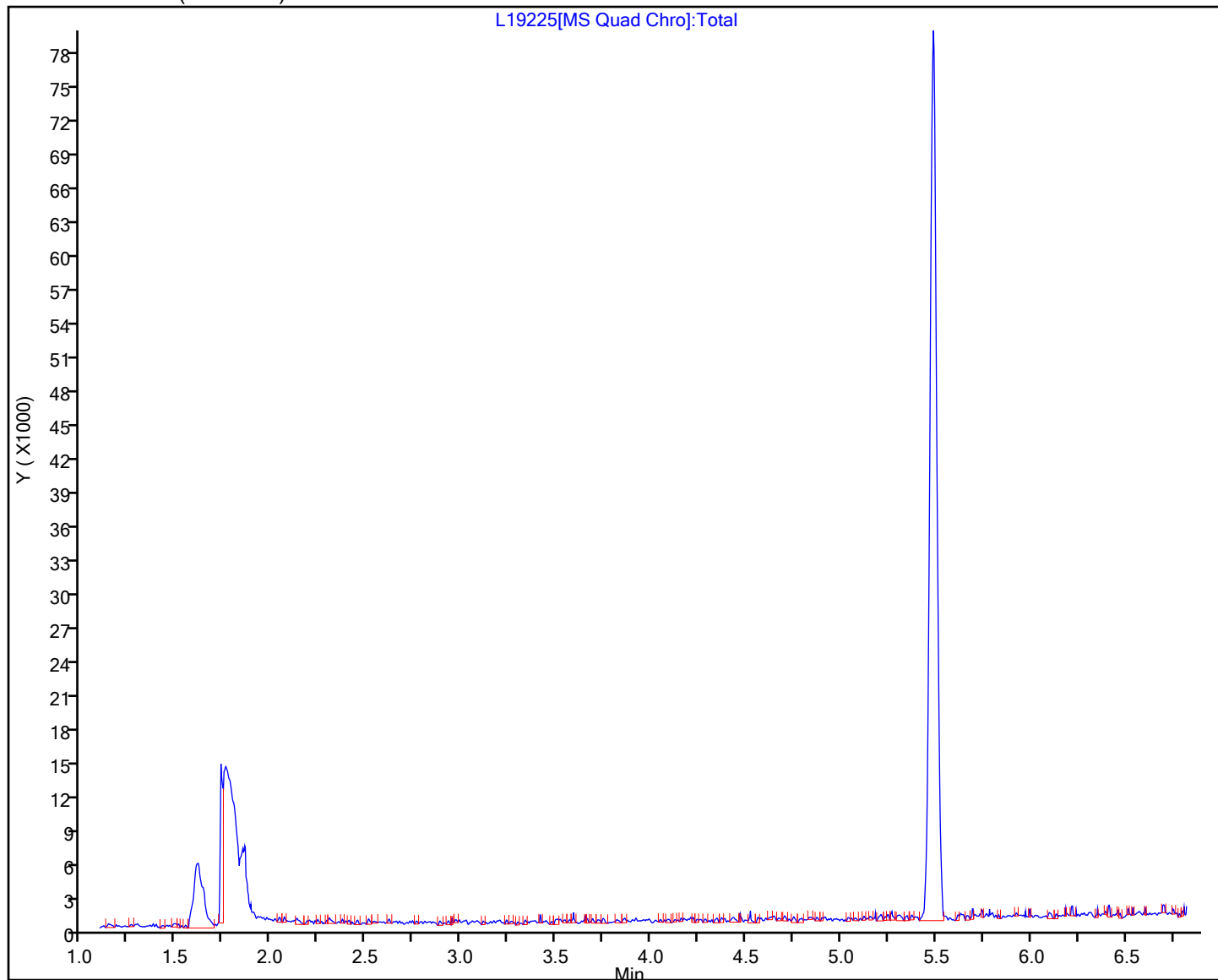
Injection Vol: 1.0 uL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u> | Job No.: <u>480-200570-1</u>                       |
| SDG No.: _____                    |                                                    |
| Client Sample ID: _____           | Lab Sample ID: <u>MB 480-637566/8</u>              |
| Matrix: <u>Water</u>              | Lab File ID: <u>S4717.D</u>                        |
| Analysis Method: <u>8260C</u>     | Date Collected: _____                              |
| Sample wt/vol: <u>5 (mL)</u>      | Date Analyzed: <u>08/16/2022 12:50</u>             |
| Soil Aliquot Vol: _____           | Dilution Factor: <u>1</u>                          |
| Soil Extract Vol.: _____          | GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u> |
| Purge Volume: <u>5.0 (mL)</u>     | Heated Purge: (Y/N) <u>N</u> pH: _____             |
| % Moisture: _____ % Solids: _____ | Level: (low/med) <u>Low</u>                        |
| Analysis Batch No.: <u>637566</u> | Units: <u>ug/L</u>                                 |

| CAS NO.    | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane                 | 0.82   | U | 1.0 | 0.82 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 0.21   | U | 1.0 | 0.21 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 0.23   | U | 1.0 | 0.23 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.31   | U | 1.0 | 0.31 |
| 75-34-3    | 1,1-Dichloroethane                    | 0.38   | U | 1.0 | 0.38 |
| 75-35-4    | 1,1-Dichloroethene                    | 0.29   | U | 1.0 | 0.29 |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 0.41   | U | 1.0 | 0.41 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 0.39   | U | 1.0 | 0.39 |
| 95-50-1    | 1,2-Dichlorobenzene                   | 0.79   | U | 1.0 | 0.79 |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 0.41   | U | 1.0 | 0.41 |
| 107-06-2   | 1,2-Dichloroethane                    | 0.21   | U | 1.0 | 0.21 |
| 78-87-5    | 1,2-Dichloropropane                   | 0.72   | U | 1.0 | 0.72 |
| 541-73-1   | 1,3-Dichlorobenzene                   | 0.78   | U | 1.0 | 0.78 |
| 106-46-7   | 1,4-Dichlorobenzene                   | 0.84   | U | 1.0 | 0.84 |
| 78-93-3    | 2-Butanone (MEK)                      | 1.3    | U | 10  | 1.3  |
| 591-78-6   | 2-Hexanone                            | 1.2    | U | 5.0 | 1.2  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 2.1    | U | 5.0 | 2.1  |
| 67-64-1    | Acetone                               | 3.0    | U | 10  | 3.0  |
| 71-43-2    | Benzene                               | 0.41   | U | 1.0 | 0.41 |
| 75-27-4    | Bromodichloromethane                  | 0.39   | U | 1.0 | 0.39 |
| 75-25-2    | Bromoform                             | 0.26   | U | 1.0 | 0.26 |
| 74-83-9    | Bromomethane                          | 0.69   | U | 1.0 | 0.69 |
| 75-15-0    | Carbon disulfide                      | 0.19   | U | 1.0 | 0.19 |
| 56-23-5    | Carbon tetrachloride                  | 0.27   | U | 1.0 | 0.27 |
| 108-90-7   | Chlorobenzene                         | 0.75   | U | 1.0 | 0.75 |
| 124-48-1   | Dibromochloromethane                  | 0.32   | U | 1.0 | 0.32 |
| 75-00-3    | Chloroethane                          | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                            | 0.34   | U | 1.0 | 0.34 |
| 74-87-3    | Chloromethane                         | 0.35   | U | 1.0 | 0.35 |
| 156-59-2   | cis-1,2-Dichloroethene                | 0.81   | U | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene               | 0.36   | U | 1.0 | 0.36 |
| 110-82-7   | Cyclohexane                           | 0.18   | U | 1.0 | 0.18 |
| 75-71-8    | Dichlorodifluoromethane               | 0.68   | U | 1.0 | 0.68 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 480-637566/8  
 Matrix: Water Lab File ID: S4717.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(mL) Date Analyzed: 08/16/2022 12:50  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 637566 Units: ug/L

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL  |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4   | Ethylbenzene              | 0.74   | U | 1.0 | 0.74 |
| 106-93-4   | 1,2-Dibromoethane         | 0.73   | U | 1.0 | 0.73 |
| 98-82-8    | Isopropylbenzene          | 0.79   | U | 1.0 | 0.79 |
| 79-20-9    | Methyl acetate            | 1.3    | U | 2.5 | 1.3  |
| 1634-04-4  | Methyl tert-butyl ether   | 0.16   | U | 1.0 | 0.16 |
| 108-87-2   | Methylcyclohexane         | 0.16   | U | 1.0 | 0.16 |
| 75-09-2    | Methylene Chloride        | 0.44   | U | 1.0 | 0.44 |
| 100-42-5   | Styrene                   | 0.73   | U | 1.0 | 0.73 |
| 127-18-4   | Tetrachloroethene         | 0.36   | U | 1.0 | 0.36 |
| 108-88-3   | Toluene                   | 0.51   | U | 1.0 | 0.51 |
| 156-60-5   | trans-1,2-Dichloroethene  | 0.90   | U | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.37   | U | 1.0 | 0.37 |
| 79-01-6    | Trichloroethene           | 0.46   | U | 1.0 | 0.46 |
| 75-69-4    | Trichlorofluoromethane    | 0.88   | U | 1.0 | 0.88 |
| 75-01-4    | Vinyl chloride            | 0.90   | U | 1.0 | 0.90 |
| 1330-20-7  | Xylenes, Total            | 0.66   | U | 2.0 | 0.66 |
| 74-97-5    | Chlorobromomethane        | 0.87   | U | 1.0 | 0.87 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 89   |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 89   |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4717.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 16-Aug-2022 12:50:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB  
 Misc. Info.: 480-0107106-008  
 Operator ID: AG Instrument ID: HP5973S  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 16-Aug-2022 13:08:15 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1642

First Level Reviewer: FGO5

Date: 16-Aug-2022 13:08:15

| Compound                           | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 153 Fluorobenzene (IS)           | 70  | 4.867        | 4.867            | 0.000            | 98 | 210699   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5               | 82  | 7.824        | 7.824            | 0.000            | 87 | 430797   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4         | 152 | 10.263       | 10.263           | 0.000            | 95 | 454799   | 25.0            | 25.0              |       |
| \$ 154 Dibromofluoromethane (Surr) | 113 | 4.308        | 4.308            | 0.000            | 59 | 238226   | 25.0            | 22.3              |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)  | 67  | 4.600        | 4.606            | -0.006           | 97 | 162552   | 25.0            | 22.3              |       |
| \$ 5 Toluene-d8 (Surr)             | 98  | 6.364        | 6.358            | 0.006            | 93 | 1007298  | 25.0            | 24.0              |       |
| \$ 6 4-Bromofluorobenzene (Surr)   | 174 | 9.077        | 9.077            | 0.000            | 89 | 351340   | 25.0            | 25.2              |       |
| 10 Dichlorodifluoromethane         | 85  |              | 1.035            |                  |    |          |                 | ND                |       |
| 11 Chlorodifluoromethane           | 51  |              | 1.059            |                  |    |          |                 | ND                |       |
| 12 Chloromethane                   | 50  |              | 1.181            |                  |    |          |                 | ND                |       |
| 13 Vinyl chloride                  | 62  |              | 1.241            |                  |    |          |                 | ND                |       |
| 151 Butadiene                      | 54  |              | 1.266            |                  |    |          |                 | ND                |       |
| 14 Bromomethane                    | 94  |              | 1.503            |                  |    |          |                 | ND                |       |
| 15 Chloroethane                    | 64  |              | 1.576            |                  |    |          |                 | ND                |       |
| 17 Trichlorofluoromethane          | 101 |              | 1.740            |                  |    |          |                 | ND                |       |
| 16 Dichlorofluoromethane           | 67  |              | 1.759            |                  |    |          |                 | ND                |       |
| 18 Ethyl ether                     | 59  |              | 1.996            |                  |    |          |                 | ND                |       |
| 148 Ethanol                        | 45  |              | 2.002            |                  |    |          |                 | ND                |       |
| 19 Propene oxide                   | 58  |              | 2.081            |                  |    |          |                 | ND                |       |
| 20 Acrolein                        | 56  |              | 2.166            |                  |    |          |                 | ND                |       |
| 21 1,1,2-Trichloro-1,2,2-trifluoro | 101 |              | 2.184            |                  |    |          |                 | ND                |       |
| 22 1,1-Dichloroethene              | 96  |              | 2.197            |                  |    |          |                 | ND                |       |
| 23 Acetone                         | 43  |              | 2.312            |                  |    |          |                 | ND                |       |
| 25 Iodomethane                     | 142 |              | 2.336            |                  |    |          |                 | ND                |       |
| 26 Carbon disulfide                | 76  |              | 2.367            |                  |    |          |                 | ND                |       |
| 24 Isopropyl alcohol               | 45  |              | 2.495            |                  |    |          |                 | ND                |       |
| 28 3-Chloro-1-propene              | 41  |              | 2.543            |                  |    |          |                 | ND                |       |
| 27 Methyl acetate                  | 43  |              | 2.592            |                  |    |          |                 | ND                |       |
| 29 Acetonitrile                    | 40  |              | 2.610            |                  |    |          |                 | ND                |       |
| 30 Methylene Chloride              | 84  |              | 2.677            |                  |    |          |                 | ND                |       |
| 31 2-Methyl-2-propanol             | 59  |              | 2.860            |                  |    |          |                 | ND                |       |

U

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|---|----------|--------------|----------------|-------|
| 32 Methyl tert-butyl ether     | 73  |           | 2.884         |               |   |          |              | ND             |       |
| 34 trans-1,2-Dichloroethene    | 96  |           | 2.896         |               |   |          |              | ND             |       |
| 33 Acrylonitrile               | 53  |           | 2.957         |               |   |          |              | ND             |       |
| 35 Hexane                      | 57  |           | 3.085         |               |   |          |              | ND             |       |
| 39 1,1-Dichloroethane          | 63  |           | 3.298         |               |   |          |              | ND             |       |
| 36 Isopropyl ether             | 45  |           | 3.322         |               |   |          |              | ND             |       |
| 40 2-Chloro-1,3-butadiene      | 53  |           | 3.352         |               |   |          |              | ND             |       |
| 37 Vinyl acetate               | 43  |           | 3.359         |               |   |          |              | ND             |       |
| 38 1,1-Dimethoxyethane         | 75  |           | 3.395         |               |   |          |              | ND             |       |
| 41 Tert-butyl ethyl ether      | 59  |           | 3.651         |               |   |          |              | ND             |       |
| 44 2,2-Dichloropropane         | 77  |           | 3.797         |               |   |          |              | ND             |       |
| 139 Halothane                  | 117 |           | 3.822         |               |   |          |              | ND             |       |
| 45 cis-1,2-Dichloroethene      | 96  |           | 3.839         |               |   |          |              | ND             |       |
| 43 2-Butanone (MEK)            | 43  |           | 3.882         |               |   |          |              | ND             |       |
| 42 Ethyl acetate               | 43  |           | 3.918         |               |   |          |              | ND             |       |
| 46 Propionitrile               | 54  |           | 3.985         |               |   |          |              | ND             |       |
| 48 Chlorobromomethane          | 128 |           | 4.070         |               |   |          |              | ND             |       |
| 49 Tetrahydrofuran             | 42  |           | 4.082         |               |   |          |              | ND             |       |
| 47 Methacrylonitrile           | 41  |           | 4.089         |               |   |          |              | ND             |       |
| 50 Chloroform                  | 83  |           | 4.149         |               |   |          |              | ND             | 7     |
| 51 1,1,1-Trichloroethane       | 97  |           | 4.247         |               |   |          |              | ND             |       |
| 52 Cyclohexane                 | 56  |           | 4.247         |               |   |          |              | ND             |       |
| 55 Carbon tetrachloride        | 117 |           | 4.381         |               |   |          |              | ND             |       |
| 54 1,1-Dichloropropene         | 75  |           | 4.399         |               |   |          |              | ND             |       |
| 152 Isooctane                  | 57  |           | 4.600         |               |   |          |              | ND             |       |
| 57 Benzene                     | 78  |           | 4.600         |               |   |          |              | ND             |       |
| 53 Isobutyl alcohol            | 43  |           | 4.654         |               |   |          |              | ND             |       |
| 58 1,2-Dichloroethane          | 62  |           | 4.673         |               |   |          |              | ND             |       |
| 56 Tert-amyl methyl ether      | 73  |           | 4.685         |               |   |          |              | ND             |       |
| 147 t-Amyl alcohol             | 59  |           | 4.709         |               |   |          |              | ND             |       |
| 59 n-Heptane                   | 43  |           | 4.788         |               |   |          |              | ND             |       |
| 141 2,4,4-Trimethyl-1-pentene  | 55  |           | 4.877         |               |   |          |              | ND             |       |
| 1 1,4-Difluorobenzene          | 114 |           | 4.989         |               |   |          |              | ND             |       |
| 62 Trichloroethene             | 95  |           | 5.202         |               |   |          |              | ND             |       |
| 140 2,4,4-Trimethyl-2-pentene  | 97  |           | 5.202         |               |   |          |              | ND             |       |
| 60 n-Butanol                   | 56  |           | 5.269         |               |   |          |              | ND             |       |
| 64 Methylcyclohexane           | 83  |           | 5.311         |               |   |          |              | ND             |       |
| 142 Ethyl acrylate             | 55  |           | 5.348         |               |   |          |              | ND             |       |
| 65 1,2-Dichloropropane         | 63  |           | 5.439         |               |   |          |              | ND             |       |
| 63 Methyl methacrylate         | 41  |           | 5.561         |               |   |          |              | ND             |       |
| 67 Dibromomethane              | 93  |           | 5.579         |               |   |          |              | ND             |       |
| 66 1,4-Dioxane                 | 88  |           | 5.591         |               |   |          |              | ND             |       |
| 68 Dichlorobromomethane        | 83  |           | 5.737         |               |   |          |              | ND             |       |
| 70 2-Nitropropane              | 43  |           | 5.993         |               |   |          |              | ND             |       |
| 69 2-Chloroethyl vinyl ether   | 63  |           | 6.023         |               |   |          |              | ND             |       |
| 71 Epichlorohydrin             | 57  |           | 6.108         |               |   |          |              | ND             |       |
| 72 cis-1,3-Dichloropropene     | 75  |           | 6.151         |               |   |          |              | ND             |       |
| 73 4-Methyl-2-pentanone (MIBK) | 43  |           | 6.303         |               |   |          |              | ND             |       |
| 74 Toluene                     | 92  |           | 6.425         |               |   |          |              | ND             |       |
| 76 2-Methylthiophene           | 97  |           | 6.558         |               |   |          |              | ND             |       |
| 77 trans-1,3-Dichloropropene   | 75  |           | 6.717         |               |   |          |              | ND             |       |
| 78 3-Methylthiophene           | 97  |           | 6.723         |               |   |          |              | ND             |       |



| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
| 75 Ethyl methacrylate           | 69  |              | 6.777            |                  |   |          |                 | ND                |       |
| 79 1,1,2-Trichloroethane        | 83  |              | 6.899            |                  |   |          |                 | ND                |       |
| 81 Tetrachloroethene            | 166 |              | 6.942            |                  |   |          |                 | ND                |       |
| 82 1,3-Dichloropropane          | 76  |              | 7.057            |                  |   |          |                 | ND                |       |
| 80 2-Hexanone                   | 43  |              | 7.136            |                  |   |          |                 | ND                |       |
| 155 n-Butyl acetate             | 43  |              | 7.258            |                  |   |          |                 | ND                |       |
| 83 Chlorodibromomethane         | 129 |              | 7.288            |                  |   |          |                 | ND                |       |
| 84 Ethylene Dibromide           | 107 |              | 7.380            |                  |   |          |                 | ND                |       |
| 146 1-Chlorohexane              | 55  |              | 7.818            |                  |   |          |                 | ND                | U     |
| 85 3-Chlorobenzotrifluoride     | 180 |              | 7.848            |                  |   |          |                 | ND                |       |
| 87 Chlorobenzene                | 112 |              | 7.854            |                  |   |          |                 | ND                |       |
| 86 4-Chlorobenzotrifluoride     | 180 |              | 7.909            |                  |   |          |                 | ND                |       |
| 88 Ethylbenzene                 | 91  |              | 7.952            |                  |   |          |                 | ND                |       |
| 89 1,1,1,2-Tetrachloroethane    | 131 |              | 7.958            |                  |   |          |                 | ND                |       |
| 90 m-Xylene & p-Xylene          | 106 |              | 8.073            |                  |   |          |                 | ND                |       |
| 91 o-Xylene                     | 106 |              | 8.493            |                  |   |          |                 | ND                |       |
| 92 Styrene                      | 104 |              | 8.530            |                  |   |          |                 | ND                |       |
| 95 Bromoform                    | 173 |              | 8.767            |                  |   |          |                 | ND                |       |
| 93 2-Chlorobenzotrifluoride     | 180 |              | 8.815            |                  |   |          |                 | ND                |       |
| 94 Isopropylbenzene             | 105 |              | 8.882            |                  |   |          |                 | ND                |       |
| 96 Cyclohexanone                | 55  |              | 9.053            |                  |   |          |                 | ND                |       |
| 101 Bromobenzene                | 156 |              | 9.223            |                  |   |          |                 | ND                |       |
| 97 1,1,2,2-Tetrachloroethane    | 83  |              | 9.314            |                  |   |          |                 | ND                |       |
| 99 N-Propylbenzene              | 91  |              | 9.326            |                  |   |          |                 | ND                |       |
| 100 1,2,3-Trichloropropane      | 110 |              | 9.339            |                  |   |          |                 | ND                |       |
| 98 trans-1,4-Dichloro-2-butene  | 53  |              | 9.363            |                  |   |          |                 | ND                |       |
| 103 2-Chlorotoluene             | 126 |              | 9.424            |                  |   |          |                 | ND                |       |
| 104 3-Chlorotoluene             | 126 |              | 9.497            |                  |   |          |                 | ND                |       |
| 102 1,3,5-Trimethylbenzene      | 105 |              | 9.515            |                  |   |          |                 | ND                |       |
| 105 4-Chlorotoluene             | 126 |              | 9.545            |                  |   |          |                 | ND                |       |
| 106 tert-Butylbenzene           | 134 |              | 9.844            |                  |   |          |                 | ND                |       |
| 107 1,2,4-Trimethylbenzene      | 105 |              | 9.904            |                  |   |          |                 | ND                |       |
| 108 Pentachloroethane           | 167 |              | 9.904            |                  |   |          |                 | ND                |       |
| 109 sec-Butylbenzene            | 105 |              | 10.063           |                  |   |          |                 | ND                |       |
| 111 1,3-Dichlorobenzene         | 146 |              | 10.196           |                  |   |          |                 | ND                |       |
| 110 4-Isopropyltoluene          | 119 |              | 10.215           |                  |   |          |                 | ND                |       |
| 114 Dicyclopentadiene           | 66  |              | 10.257           |                  |   |          |                 | ND                |       |
| 113 1,4-Dichlorobenzene         | 146 |              | 10.288           |                  |   |          |                 | ND                |       |
| 112 1,2,3-Trimethylbenzene      | 105 |              | 10.324           |                  |   |          |                 | ND                |       |
| 150 Benzyl chloride             | 126 |              | 10.446           |                  |   |          |                 | ND                |       |
| 115 n-Butylbenzene              | 91  |              | 10.610           |                  |   |          |                 | ND                | 7     |
| 116 1,2-Dichlorobenzene         | 146 |              | 10.647           |                  |   |          |                 | ND                |       |
| 117 1,2-Dibromo-3-Chloropropane | 75  |              | 11.395           |                  |   |          |                 | ND                |       |
| 118 1,3,5-Trichlorobenzene      | 180 |              | 11.529           |                  |   |          |                 | ND                |       |
| 119 1,2,4-Trichlorobenzene      | 180 |              | 12.076           |                  |   |          |                 | ND                |       |
| 120 Hexachlorobutadiene         | 225 |              | 12.192           |                  |   |          |                 | ND                |       |
| 121 Naphthalene                 | 128 |              | 12.283           |                  |   |          |                 | ND                |       |
| 122 1,2,3-Trichlorobenzene      | 180 |              | 12.490           |                  |   |          |                 | ND                |       |
| 149 2-Methylnaphthalene         | 142 |              | 13.202           |                  |   |          |                 | ND                | U     |
| 138 cis-1,4-Dichloro-2-butene   | 88  |              | 0.000            |                  |   |          |                 | ND                |       |
| 136 Nitrobenzene                | 77  |              | 0.000            |                  |   |          |                 | ND                |       |
| 134 Pentachloroethane TIC       | 1   |              | 0.000            |                  |   |          |                 | ND                |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
| 143 Propene oxide TIC            | 1   |              | 0.000            |                  |   |          |                 | ND                |       |
| 145 Ethylene oxide TIC           | 1   |              | 0.000            |                  |   |          |                 | ND                |       |
| 144 1-Bromopropane TIC           | 1   |              | 0.000            |                  |   |          |                 | ND                |       |
| 135 Hexachloroethane             | 117 |              | 0.000            |                  |   |          |                 | ND                |       |
| S 126 1,3-Dichloropropene, Total | 1   |              | 30.000           |                  |   |          |                 | ND                | 7     |
| S 125 1,2-Dichloroethene, Total  | 1   |              | 30.000           |                  |   |          |                 | ND                | 7     |
| S 123 Total BTEX                 | 1   |              | 30.000           |                  |   |          |                 | ND                | 7     |
| S 124 Xylenes, Total             | 1   |              | 30.000           |                  |   |          |                 | ND                | 7     |
| S 157 Trihalomethanes, Total     | 1   |              | 0.000            |                  |   |          |                 | ND                |       |

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

**Reagents:**

S\_8260\_IS\_00358

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00427

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 16-Aug-2022 13:08:16

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4717.D

Injection Date: 16-Aug-2022 12:50:30

Instrument ID: HP5973S

Operator ID: AG

Lims ID: MB

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

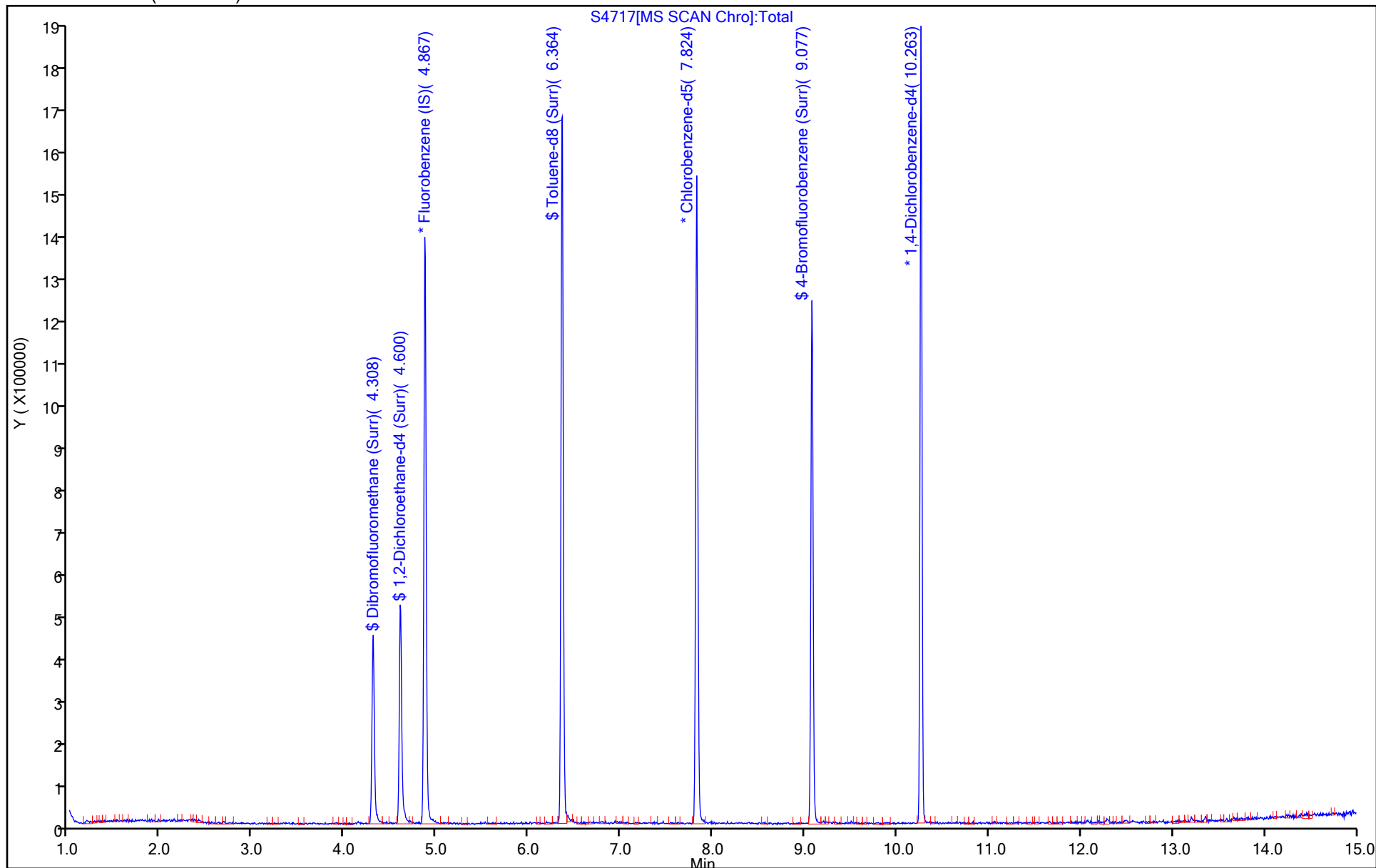
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4717.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 16-Aug-2022 12:50:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB  
 Misc. Info.: 480-0107106-008  
 Operator ID: AG Instrument ID: HP5973S  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 16-Aug-2022 13:08:15 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1642

First Level Reviewer: FGO5

Date: 16-Aug-2022 13:08:15

| Compound                           | Amount Added | Amount Recovered | % Rec. |
|------------------------------------|--------------|------------------|--------|
| \$ 154 Dibromofluoromethane (Surr) | 25.0         | 22.3             | 89.05  |
| \$ 4 1,2-Dichloroethane-d4 (Surr)  | 25.0         | 22.3             | 89.12  |
| \$ 5 Toluene-d8 (Surr)             | 25.0         | 24.0             | 95.96  |
| \$ 6 4-Bromofluorobenzene (Surr)   | 25.0         | 25.2             | 100.78 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                   |                                                |
|-----------------------------------|------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u> | Job No.: <u>480-200570-1</u>                   |
| SDG No.: _____                    |                                                |
| Client Sample ID: _____           | Lab Sample ID: <u>MB 480-637640/9</u>          |
| Matrix: <u>Water</u>              | Lab File ID: <u>L19198.D</u>                   |
| Analysis Method: <u>8260C</u>     | Date Collected: _____                          |
| Sample wt/vol: <u>5(mL)</u>       | Date Analyzed: <u>08/16/2022 16:30</u>         |
| Soil Aliquot Vol: _____           | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____          | GC Column: <u>ZB-624 (30) VOA ID: 0.25(mm)</u> |
| Purge Volume: <u>5.0(mL)</u>      | Heated Purge: (Y/N) <u>N</u> pH: _____         |
| % Moisture: _____ % Solids: _____ | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>637640</u> | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane                 | 0.82   | U | 1.0 | 0.82 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 0.21   | U | 1.0 | 0.21 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 0.23   | U | 1.0 | 0.23 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.31   | U | 1.0 | 0.31 |
| 75-34-3    | 1,1-Dichloroethane                    | 0.38   | U | 1.0 | 0.38 |
| 75-35-4    | 1,1-Dichloroethene                    | 0.29   | U | 1.0 | 0.29 |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 0.41   | U | 1.0 | 0.41 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 0.39   | U | 1.0 | 0.39 |
| 95-50-1    | 1,2-Dichlorobenzene                   | 0.79   | U | 1.0 | 0.79 |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 0.41   | U | 1.0 | 0.41 |
| 107-06-2   | 1,2-Dichloroethane                    | 0.21   | U | 1.0 | 0.21 |
| 78-87-5    | 1,2-Dichloropropane                   | 0.72   | U | 1.0 | 0.72 |
| 541-73-1   | 1,3-Dichlorobenzene                   | 0.78   | U | 1.0 | 0.78 |
| 106-46-7   | 1,4-Dichlorobenzene                   | 0.84   | U | 1.0 | 0.84 |
| 78-93-3    | 2-Butanone (MEK)                      | 1.3    | U | 10  | 1.3  |
| 591-78-6   | 2-Hexanone                            | 1.2    | U | 5.0 | 1.2  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 2.1    | U | 5.0 | 2.1  |
| 67-64-1    | Acetone                               | 3.0    | U | 10  | 3.0  |
| 71-43-2    | Benzene                               | 0.41   | U | 1.0 | 0.41 |
| 75-27-4    | Bromodichloromethane                  | 0.39   | U | 1.0 | 0.39 |
| 75-25-2    | Bromoform                             | 0.26   | U | 1.0 | 0.26 |
| 74-83-9    | Bromomethane                          | 0.69   | U | 1.0 | 0.69 |
| 75-15-0    | Carbon disulfide                      | 0.19   | U | 1.0 | 0.19 |
| 56-23-5    | Carbon tetrachloride                  | 0.27   | U | 1.0 | 0.27 |
| 108-90-7   | Chlorobenzene                         | 0.75   | U | 1.0 | 0.75 |
| 124-48-1   | Dibromochloromethane                  | 0.32   | U | 1.0 | 0.32 |
| 75-00-3    | Chloroethane                          | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                            | 0.34   | U | 1.0 | 0.34 |
| 74-87-3    | Chloromethane                         | 0.35   | U | 1.0 | 0.35 |
| 156-59-2   | cis-1,2-Dichloroethene                | 0.81   | U | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene               | 0.36   | U | 1.0 | 0.36 |
| 110-82-7   | Cyclohexane                           | 0.18   | U | 1.0 | 0.18 |
| 75-71-8    | Dichlorodifluoromethane               | 0.68   | U | 1.0 | 0.68 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 480-637640/9

Matrix: Water Lab File ID: L19198.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5(mL) Date Analyzed: 08/16/2022 16:30

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637640 Units: ug/L

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL  |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4   | Ethylbenzene              | 0.74   | U | 1.0 | 0.74 |
| 106-93-4   | 1,2-Dibromoethane         | 0.73   | U | 1.0 | 0.73 |
| 98-82-8    | Isopropylbenzene          | 0.79   | U | 1.0 | 0.79 |
| 79-20-9    | Methyl acetate            | 1.3    | U | 2.5 | 1.3  |
| 1634-04-4  | Methyl tert-butyl ether   | 0.16   | U | 1.0 | 0.16 |
| 108-87-2   | Methylcyclohexane         | 0.16   | U | 1.0 | 0.16 |
| 75-09-2    | Methylene Chloride        | 0.44   | U | 1.0 | 0.44 |
| 100-42-5   | Styrene                   | 0.73   | U | 1.0 | 0.73 |
| 127-18-4   | Tetrachloroethene         | 0.36   | U | 1.0 | 0.36 |
| 108-88-3   | Toluene                   | 0.51   | U | 1.0 | 0.51 |
| 156-60-5   | trans-1,2-Dichloroethene  | 0.90   | U | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.37   | U | 1.0 | 0.37 |
| 79-01-6    | Trichloroethene           | 0.46   | U | 1.0 | 0.46 |
| 75-69-4    | Trichlorofluoromethane    | 0.88   | U | 1.0 | 0.88 |
| 75-01-4    | Vinyl chloride            | 0.90   | U | 1.0 | 0.90 |
| 1330-20-7  | Xylenes, Total            | 0.66   | U | 2.0 | 0.66 |
| 74-97-5    | Chlorobromomethane        | 0.87   | U | 1.0 | 0.87 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 110  |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 95   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 103  |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19198.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 16-Aug-2022 16:30:22 ALS Bottle#: 0 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB  
 Misc. Info.: 480-0107114-009  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:07:42 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 10:07:42

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.773            | 0.003            | 99 | 134319   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.670        | 8.666            | 0.004            | 85 | 586273   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.062       | 11.062           | 0.000            | 94 | 317839   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226        | 5.229            | 0.000            | 93 | 175203   | 25.0            | 25.7              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.528        | 5.525            | 0.003            | 96 | 212030   | 25.0            | 27.4              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.204        | 7.206            | 0.001            | 93 | 686394   | 25.0            | 23.5              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911        | 9.914            | 0.000            | 99 | 218667   | 25.0            | 23.9              |       |
| 10 Dichlorodifluoromethane               | 85  |              | 1.770            |                  |    |          |                 | ND                |       |
| 9 Chlorodifluoromethane                  | 51  |              | 1.808            |                  |    |          |                 | ND                |       |
| 13 Chloromethane                         | 50  |              | 2.004            |                  |    |          |                 | ND                |       |
| 14 Vinyl chloride                        | 62  |              | 2.107            |                  |    |          |                 | ND                |       |
| 15 Butadiene                             | 54  |              | 2.136            |                  |    |          |                 | ND                |       |
| 18 Bromomethane                          | 94  |              | 2.480            |                  |    |          |                 | ND                |       |
| 19 Chloroethane                          | 64  |              | 2.564            |                  |    |          |                 | ND                |       |
| 20 Dichlorofluoromethane                 | 67  |              | 2.773            |                  |    |          |                 | ND                |       |
| 21 Trichlorofluoromethane                | 101 |              | 2.779            |                  |    |          |                 | ND                |       |
| 26 Ethyl ether                           | 59  |              | 3.027            |                  |    |          |                 | ND                |       |
| 11 Ethanol                               | 45  |              | 3.033            |                  |    |          |                 | ND                |       |
| 12 Propene oxide                         | 58  |              | 3.130            |                  |    |          |                 | ND                |       |
| 28 Acrolein                              | 56  |              | 3.213            |                  |    |          |                 | ND                |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 |              | 3.249            |                  |    |          |                 | ND                |       |
| 30 1,1-Dichloroethene                    | 96  |              | 3.252            |                  |    |          |                 | ND                |       |
| 31 Acetone                               | 43  |              | 3.358            |                  |    |          |                 | ND                |       |
| 33 Iodomethane                           | 142 |              | 3.419            |                  |    |          |                 | ND                |       |
| 35 Carbon disulfide                      | 76  |              | 3.477            |                  |    |          |                 | ND                |       |
| 16 Isopropyl alcohol                     | 45  |              | 3.499            |                  |    |          |                 | ND                |       |
| 37 3-Chloro-1-propene                    | 41  |              | 3.586            |                  |    |          |                 | ND                |       |
| 38 Methyl acetate                        | 43  |              | 3.615            |                  |    |          |                 | ND                |       |
| 17 Acetonitrile                          | 40  |              | 3.644            |                  |    |          |                 | ND                |       |
| 39 Methylene Chloride                    | 84  |              | 3.721            |                  |    |          |                 | ND                |       |
| 40 2-Methyl-2-propanol                   | 59  |              | 3.843            |                  |    |          |                 | ND                |       |

| Compound                       | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|--------------------------------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
| 41 Methyl tert-butyl ether     | 73  |              | 3.901            |                  |   |          |                 | ND                |       |
| 42 trans-1,2-Dichloroethene    | 96  |              | 3.927            |                  |   |          |                 | ND                |       |
| 44 Acrylonitrile               | 53  |              | 3.972            |                  |   |          |                 | ND                |       |
| 47 Hexane                      | 57  |              | 4.085            |                  |   |          |                 | ND                |       |
| 22 Isopropyl ether             | 45  |              | 4.281            |                  |   |          |                 | ND                |       |
| 23 Halothane                   | 117 |              | 4.290            |                  |   |          |                 | ND                |       |
| 50 1,1-Dichloroethane          | 63  |              | 4.306            |                  |   |          |                 | ND                |       |
| 49 Vinyl acetate               | 43  |              | 4.323            |                  |   |          |                 | ND                |       |
| 24 2-Chloro-1,3-butadiene      | 53  |              | 4.358            |                  |   |          |                 | ND                |       |
| 25 1,1-Dimethoxyethane         | 75  |              | 4.361            |                  |   |          |                 | ND                |       |
| 27 Tert-butyl ethyl ether      | 59  |              | 4.589            |                  |   |          |                 | ND                |       |
| 56 2,2-Dichloropropane         | 77  |              | 4.782            |                  |   |          |                 | ND                |       |
| 58 cis-1,2-Dichloroethene      | 96  |              | 4.808            |                  |   |          |                 | ND                |       |
| 57 2-Butanone (MEK)            | 43  |              | 4.824            |                  |   |          |                 | ND                |       |
| 32 Ethyl acetate               | 43  |              | 4.827            |                  |   |          |                 | ND                |       |
| 34 Propionitrile               | 54  |              | 4.927            |                  |   |          |                 | ND                |       |
| 36 Methacrylonitrile           | 41  |              | 5.027            |                  |   |          |                 | ND                |       |
| 60 Chlorobromomethane          | 128 |              | 5.030            |                  |   |          |                 | ND                |       |
| 61 Tetrahydrofuran             | 42  |              | 5.052            |                  |   |          |                 | ND                |       |
| 62 Chloroform                  | 83  |              | 5.078            |                  |   |          |                 | ND                |       |
| 64 1,1,1-Trichloroethane       | 97  |              | 5.207            |                  |   |          |                 | ND                |       |
| 65 Cyclohexane                 | 56  |              | 5.223            |                  |   |          |                 | ND                |       |
| 66 Carbon tetrachloride        | 117 |              | 5.339            |                  |   |          |                 | ND                |       |
| 67 1,1-Dichloropropene         | 75  |              | 5.342            |                  |   |          |                 | ND                |       |
| 69 Isobutyl alcohol            | 43  |              | 5.474            |                  |   |          |                 | ND                |       |
| 43 Isooctane                   | 57  |              | 5.503            |                  |   |          |                 | ND                |       |
| 70 Benzene                     | 78  |              | 5.538            |                  |   |          |                 | ND                |       |
| 45 t-Amyl alcohol              | 59  |              | 5.541            |                  |   |          |                 | ND                |       |
| 46 Tert-amyl methyl ether      | 73  |              | 5.570            |                  |   |          |                 | ND                |       |
| 72 1,2-Dichloroethane          | 62  |              | 5.593            |                  |   |          |                 | ND                |       |
| 73 n-Heptane                   | 43  |              | 5.647            |                  |   |          |                 | ND                |       |
| 48 1,4-Difluorobenzene         | 114 |              | 5.856            |                  |   |          |                 | ND                |       |
| 51 2,4,4-Trimethyl-1-pentene   | 55  |              | 5.966            |                  |   |          |                 | ND                |       |
| 52 n-Butanol                   | 56  |              | 6.049            |                  |   |          |                 | ND                |       |
| 75 Trichloroethene             | 95  |              | 6.091            |                  |   |          |                 | ND                |       |
| 53 Ethyl acrylate              | 55  |              | 6.165            |                  |   |          |                 | ND                |       |
| 54 2,4,4-Trimethyl-2-pentene   | 97  |              | 6.171            |                  |   |          |                 | ND                |       |
| 76 Methylcyclohexane           | 83  |              | 6.216            |                  |   |          |                 | ND                |       |
| 77 1,2-Dichloropropane         | 63  |              | 6.329            |                  |   |          |                 | ND                |       |
| 55 Methyl methacrylate         | 41  |              | 6.368            |                  |   |          |                 | ND                |       |
| 81 1,4-Dioxane                 | 88  |              | 6.451            |                  |   |          |                 | ND                |       |
| 82 Dibromomethane              | 93  |              | 6.464            |                  |   |          |                 | ND                |       |
| 83 Dichlorobromomethane        | 83  |              | 6.586            |                  |   |          |                 | ND                |       |
| 84 2-Chloroethyl vinyl ether   | 63  |              | 6.821            |                  |   |          |                 | ND                |       |
| 59 2-Nitropropane              | 43  |              | 6.824            |                  |   |          |                 | ND                |       |
| 63 Epichlorohydrin             | 57  |              | 6.933            |                  |   |          |                 | ND                |       |
| 85 cis-1,3-Dichloropropene     | 75  |              | 6.982            |                  |   |          |                 | ND                |       |
| 87 4-Methyl-2-pentanone (MIBK) | 43  |              | 7.097            |                  |   |          |                 | ND                |       |
| 88 Toluene                     | 92  |              | 7.268            |                  |   |          |                 | ND                |       |
| 68 2-Methylthiophene           | 97  |              | 7.406            |                  |   |          |                 | ND                |       |
| 91 trans-1,3-Dichloropropene   | 75  |              | 7.519            |                  |   |          |                 | ND                |       |
| 90 Ethyl methacrylate          | 69  |              | 7.525            |                  |   |          |                 | ND                |       |



| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
| 71 3-Methylthiophene            | 97  |              | 7.564            |                  |   |          |                 | ND                |       |
| 93 1,1,2-Trichloroethane        | 83  |              | 7.712            |                  |   |          |                 | ND                |       |
| 94 Tetrachloroethene            | 166 |              | 7.792            |                  |   |          |                 | ND                |       |
| 95 1,3-Dichloropropane          | 76  |              | 7.879            |                  |   |          |                 | ND                |       |
| 96 2-Hexanone                   | 43  |              | 7.908            |                  |   |          |                 | ND                |       |
| 74 n-Butyl acetate              | 43  |              | 7.988            |                  |   |          |                 | ND                |       |
| 98 Chlorodibromomethane         | 129 |              | 8.117            |                  |   |          |                 | ND                |       |
| 101 Ethylene Dibromide          | 107 |              | 8.242            |                  |   |          |                 | ND                |       |
| 78 1-Chlorohexane               | 55  |              | 8.602            |                  |   |          |                 | ND                |       |
| 79 3-Chlorobenzotrifluoride     | 180 |              | 8.612            |                  |   |          |                 | ND                |       |
| 80 4-Chlorobenzotrifluoride     | 180 |              | 8.670            |                  |   |          |                 | ND                |       |
| 103 Chlorobenzene               | 112 |              | 8.695            |                  |   |          |                 | ND                |       |
| 104 Ethylbenzene                | 91  |              | 8.766            |                  |   |          |                 | ND                |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 |              | 8.779            |                  |   |          |                 | ND                |       |
| 106 m-Xylene & p-Xylene         | 106 |              | 8.882            |                  |   |          |                 | ND                |       |
| 107 o-Xylene                    | 106 |              | 9.316            |                  |   |          |                 | ND                |       |
| 109 Styrene                     | 104 |              | 9.342            |                  |   |          |                 | ND                |       |
| 86 2-Chlorobenzotrifluoride     | 180 |              | 9.602            |                  |   |          |                 | ND                |       |
| 110 Bromoform                   | 173 |              | 9.615            |                  |   |          |                 | ND                |       |
| 111 Isopropylbenzene            | 105 |              | 9.686            |                  |   |          |                 | ND                |       |
| 89 Cyclohexanone                | 55  |              | 9.904            |                  |   |          |                 | ND                |       |
| 113 Bromobenzene                | 156 |              | 10.078           |                  |   |          |                 | ND                |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  |              | 10.094           |                  |   |          |                 | ND                |       |
| 114 N-Propylbenzene             | 91  |              | 10.126           |                  |   |          |                 | ND                |       |
| 115 trans-1,4-Dichloro-2-butene | 53  |              | 10.142           |                  |   |          |                 | ND                |       |
| 116 1,2,3-Trichloropropane      | 110 |              | 10.146           |                  |   |          |                 | ND                |       |
| 117 2-Chlorotoluene             | 126 |              | 10.258           |                  |   |          |                 | ND                |       |
| 118 1,3,5-Trimethylbenzene      | 105 |              | 10.303           |                  |   |          |                 | ND                |       |
| 92 3-Chlorotoluene              | 126 |              | 10.319           |                  |   |          |                 | ND                |       |
| 119 4-Chlorotoluene             | 91  |              | 10.367           |                  |   |          |                 | ND                |       |
| 120 tert-Butylbenzene           | 134 |              | 10.631           |                  |   |          |                 | ND                |       |
| 121 1,2,4-Trimethylbenzene      | 105 |              | 10.686           |                  |   |          |                 | ND                |       |
| 97 Pentachloroethane            | 167 |              | 10.708           |                  |   |          |                 | ND                |       |
| 122 sec-Butylbenzene            | 105 |              | 10.840           |                  |   |          |                 | ND                |       |
| 123 4-Isopropyltoluene          | 119 |              | 10.972           |                  |   |          |                 | ND                |       |
| 124 1,3-Dichlorobenzene         | 146 |              | 11.001           |                  |   |          |                 | ND                |       |
| 99 Dicyclopentadiene            | 66  |              | 11.068           |                  |   |          |                 | ND                | U     |
| 126 1,4-Dichlorobenzene         | 146 |              | 11.084           |                  |   |          |                 | ND                |       |
| 100 1,2,3-Trimethylbenzene      | 105 |              | 11.097           |                  |   |          |                 | ND                |       |
| 102 Benzyl chloride             | 126 |              | 11.223           |                  |   |          |                 | ND                |       |
| 127 n-Butylbenzene              | 91  |              | 11.355           |                  |   |          |                 | ND                |       |
| 128 1,2-Dichlorobenzene         | 146 |              | 11.435           |                  |   |          |                 | ND                |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  |              | 12.136           |                  |   |          |                 | ND                |       |
| 108 1,3,5-Trichlorobenzene      | 180 |              | 12.252           |                  |   |          |                 | ND                |       |
| 130 1,2,4-Trichlorobenzene      | 180 |              | 12.760           |                  |   |          |                 | ND                |       |
| 131 Hexachlorobutadiene         | 225 |              | 12.850           |                  |   |          |                 | ND                |       |
| 132 Naphthalene                 | 128 |              | 12.978           |                  |   |          |                 | ND                |       |
| 133 1,2,3-Trichlorobenzene      | 180 |              | 13.178           |                  |   |          |                 | ND                |       |
| 125 2-Methylnaphthalene         | 142 |              | 13.975           |                  |   |          |                 | ND                | U     |
| 134 Ethylene oxide TIC          | 1   |              | 0.000            |                  |   |          |                 | ND                |       |
| 139 Hexachloroethane            | 117 |              | 0.000            |                  |   |          |                 | ND                |       |
| 136 1-Bromopropane TIC          | 1   |              | 0.000            |                  |   |          |                 | ND                |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
| 137 cis-1,4-Dichloro-2-butene    | 88  |              | 0.000            |                  |   |          |                 | ND                |       |
| 138 Nitrobenzene                 | 77  |              | 0.000            |                  |   |          |                 | ND                |       |
| 135 Propene oxide TIC            | 1   |              | 0.000            |                  |   |          |                 | ND                |       |
| S 142 Total BTEX                 | 1   |              | 30.000           |                  |   |          |                 | ND                | 7     |
| S 144 1,3-Dichloropropene, Total | 1   |              | 30.000           |                  |   |          |                 | ND                | 7     |
| S 141 1,2-Dichloroethene, Total  | 1   |              | 30.000           |                  |   |          |                 | ND                | 7     |
| S 143 Xylenes, Total             | 1   |              | 30.000           |                  |   |          |                 | ND                | 7     |
| S 145 Trihalomethanes, Total     | 1   |              | 0.000            |                  |   |          |                 | ND                |       |

### QC Flag Legend

#### Processing Flags

7 - Failed Limit of Detection

#### Review Flags

U - Marked Undetected

### Reagents:

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19198.D

Injection Date: 16-Aug-2022 16:30:22

Instrument ID: HP5977L

Lims ID: MB

Client ID:

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 9

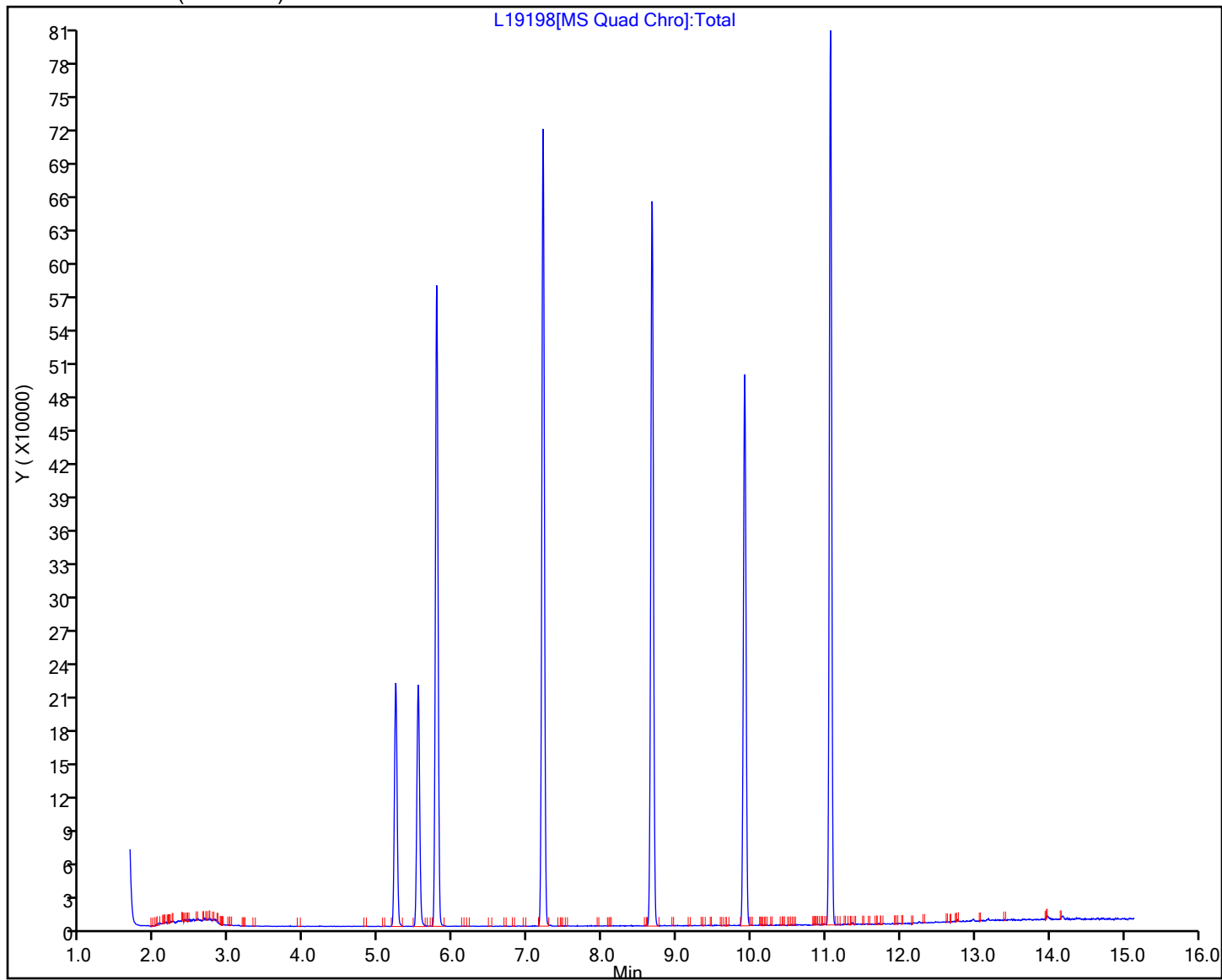
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19198.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 16-Aug-2022 16:30:22 ALS Bottle#: 0 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB  
 Misc. Info.: 480-0107114-009  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:07:42 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 10:07:42

| Compound                          | Amount Added | Amount Recovered | % Rec. |
|-----------------------------------|--------------|------------------|--------|
| \$ 4 Dibromofluoromethane (Surr)  | 25.0         | 25.7             | 102.75 |
| \$ 5 1,2-Dichloroethane-d4 (Surr) | 25.0         | 27.4             | 109.76 |
| \$ 6 Toluene-d8 (Surr)            | 25.0         | 23.5             | 93.81  |
| \$ 7 4-Bromofluorobenzene (Surr)  | 25.0         | 23.9             | 95.49  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                   |                                                 |
|-----------------------------------|-------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u> | Job No.: <u>480-200570-1</u>                    |
| SDG No.: _____                    |                                                 |
| Client Sample ID: _____           | Lab Sample ID: <u>MB 480-637762/9</u>           |
| Matrix: <u>Water</u>              | Lab File ID: <u>L19231.D</u>                    |
| Analysis Method: <u>8260C</u>     | Date Collected: _____                           |
| Sample wt/vol: <u>5 (mL)</u>      | Date Analyzed: <u>08/17/2022 14:09</u>          |
| Soil Aliquot Vol: _____           | Dilution Factor: <u>1</u>                       |
| Soil Extract Vol.: _____          | GC Column: <u>ZB-624 (30) VOA ID: 0.25 (mm)</u> |
| Purge Volume: <u>5.0 (mL)</u>     | Heated Purge: (Y/N) <u>N</u> pH: _____          |
| % Moisture: _____ % Solids: _____ | Level: (low/med) <u>Low</u>                     |
| Analysis Batch No.: <u>637762</u> | Units: <u>ug/L</u>                              |

| CAS NO.    | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane                 | 0.82   | U | 1.0 | 0.82 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 0.21   | U | 1.0 | 0.21 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 0.23   | U | 1.0 | 0.23 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.31   | U | 1.0 | 0.31 |
| 75-34-3    | 1,1-Dichloroethane                    | 0.38   | U | 1.0 | 0.38 |
| 75-35-4    | 1,1-Dichloroethene                    | 0.29   | U | 1.0 | 0.29 |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 0.41   | U | 1.0 | 0.41 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 0.39   | U | 1.0 | 0.39 |
| 95-50-1    | 1,2-Dichlorobenzene                   | 0.79   | U | 1.0 | 0.79 |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 0.41   | U | 1.0 | 0.41 |
| 107-06-2   | 1,2-Dichloroethane                    | 0.21   | U | 1.0 | 0.21 |
| 78-87-5    | 1,2-Dichloropropane                   | 0.72   | U | 1.0 | 0.72 |
| 541-73-1   | 1,3-Dichlorobenzene                   | 0.78   | U | 1.0 | 0.78 |
| 106-46-7   | 1,4-Dichlorobenzene                   | 0.84   | U | 1.0 | 0.84 |
| 78-93-3    | 2-Butanone (MEK)                      | 1.3    | U | 10  | 1.3  |
| 591-78-6   | 2-Hexanone                            | 1.2    | U | 5.0 | 1.2  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 2.1    | U | 5.0 | 2.1  |
| 67-64-1    | Acetone                               | 3.0    | U | 10  | 3.0  |
| 71-43-2    | Benzene                               | 0.41   | U | 1.0 | 0.41 |
| 75-27-4    | Bromodichloromethane                  | 0.39   | U | 1.0 | 0.39 |
| 75-25-2    | Bromoform                             | 0.26   | U | 1.0 | 0.26 |
| 74-83-9    | Bromomethane                          | 0.69   | U | 1.0 | 0.69 |
| 75-15-0    | Carbon disulfide                      | 0.19   | U | 1.0 | 0.19 |
| 56-23-5    | Carbon tetrachloride                  | 0.27   | U | 1.0 | 0.27 |
| 108-90-7   | Chlorobenzene                         | 0.75   | U | 1.0 | 0.75 |
| 124-48-1   | Dibromochloromethane                  | 0.32   | U | 1.0 | 0.32 |
| 75-00-3    | Chloroethane                          | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                            | 0.34   | U | 1.0 | 0.34 |
| 74-87-3    | Chloromethane                         | 0.35   | U | 1.0 | 0.35 |
| 156-59-2   | cis-1,2-Dichloroethene                | 0.81   | U | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene               | 0.36   | U | 1.0 | 0.36 |
| 110-82-7   | Cyclohexane                           | 0.18   | U | 1.0 | 0.18 |
| 75-71-8    | Dichlorodifluoromethane               | 0.68   | U | 1.0 | 0.68 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 480-637762/9  
 Matrix: Water Lab File ID: L19231.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(mL) Date Analyzed: 08/17/2022 14:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (30) VOA ID: 0.25(mm)  
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 637762 Units: ug/L

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL  |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4   | Ethylbenzene              | 0.74   | U | 1.0 | 0.74 |
| 106-93-4   | 1,2-Dibromoethane         | 0.73   | U | 1.0 | 0.73 |
| 98-82-8    | Isopropylbenzene          | 0.79   | U | 1.0 | 0.79 |
| 79-20-9    | Methyl acetate            | 1.3    | U | 2.5 | 1.3  |
| 1634-04-4  | Methyl tert-butyl ether   | 0.16   | U | 1.0 | 0.16 |
| 108-87-2   | Methylcyclohexane         | 0.16   | U | 1.0 | 0.16 |
| 75-09-2    | Methylene Chloride        | 0.44   | U | 1.0 | 0.44 |
| 100-42-5   | Styrene                   | 0.73   | U | 1.0 | 0.73 |
| 127-18-4   | Tetrachloroethene         | 0.36   | U | 1.0 | 0.36 |
| 108-88-3   | Toluene                   | 0.51   | U | 1.0 | 0.51 |
| 156-60-5   | trans-1,2-Dichloroethene  | 0.90   | U | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.37   | U | 1.0 | 0.37 |
| 79-01-6    | Trichloroethene           | 0.46   | U | 1.0 | 0.46 |
| 75-69-4    | Trichlorofluoromethane    | 0.88   | U | 1.0 | 0.88 |
| 75-01-4    | Vinyl chloride            | 0.90   | U | 1.0 | 0.90 |
| 1330-20-7  | Xylenes, Total            | 0.66   | U | 2.0 | 0.66 |
| 74-97-5    | Chlorobromomethane        | 0.87   | U | 1.0 | 0.87 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 110  |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 103  |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19231.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 17-Aug-2022 14:09:18 ALS Bottle#: 0 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB  
 Misc. Info.: 480-0107131-009  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 14:30:36 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 15:46:36

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776        | 5.773            | 0.003            | 99 | 134837   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.670        | 8.666            | 0.004            | 89 | 601762   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.062       | 11.062           | 0.000            | 94 | 326344   | 25.0            | 25.0              |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226        | 5.229            | 0.000            | 93 | 176936   | 25.0            | 25.8              |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.528        | 5.525            | 0.003            | 97 | 214144   | 25.0            | 27.6              |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.204        | 7.206            | 0.001            | 93 | 705663   | 25.0            | 23.5              |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911        | 9.915            | 0.000            | 99 | 234865   | 25.0            | 25.0              |       |
| 10 Dichlorodifluoromethane               | 85  |              | 1.773            |                  |    |          |                 | ND                |       |
| 9 Chlorodifluoromethane                  | 51  |              | 1.805            |                  |    |          |                 | ND                |       |
| 13 Chloromethane                         | 50  |              | 2.011            |                  |    |          |                 | ND                |       |
| 14 Vinyl chloride                        | 62  |              | 2.114            |                  |    |          |                 | ND                |       |
| 15 Butadiene                             | 54  |              | 2.139            |                  |    |          |                 | ND                |       |
| 18 Bromomethane                          | 94  |              | 2.477            |                  |    |          |                 | ND                |       |
| 19 Chloroethane                          | 64  |              | 2.564            |                  |    |          |                 | ND                |       |
| 20 Dichlorofluoromethane                 | 67  |              | 2.770            |                  |    |          |                 | ND                |       |
| 21 Trichlorofluoromethane                | 101 |              | 2.782            |                  |    |          |                 | ND                |       |
| 26 Ethyl ether                           | 59  |              | 3.030            |                  |    |          |                 | ND                |       |
| 11 Ethanol                               | 45  |              | 3.046            |                  |    |          |                 | ND                |       |
| 12 Propene oxide                         | 58  |              | 3.130            |                  |    |          |                 | ND                |       |
| 28 Acrolein                              | 56  |              | 3.213            |                  |    |          |                 | ND                |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 |              | 3.252            |                  |    |          |                 | ND                |       |
| 30 1,1-Dichloroethene                    | 96  |              | 3.252            |                  |    |          |                 | ND                |       |
| 31 Acetone                               | 43  |              | 3.358            |                  |    |          |                 | ND                |       |
| 33 Iodomethane                           | 142 |              | 3.419            |                  |    |          |                 | ND                |       |
| 35 Carbon disulfide                      | 76  |              | 3.471            |                  |    |          |                 | ND                |       |
| 16 Isopropyl alcohol                     | 45  |              | 3.499            |                  |    |          |                 | ND                |       |
| 37 3-Chloro-1-propene                    | 41  |              | 3.590            |                  |    |          |                 | ND                |       |
| 38 Methyl acetate                        | 43  |              | 3.615            |                  |    |          |                 | ND                |       |
| 17 Acetonitrile                          | 40  |              | 3.650            |                  |    |          |                 | ND                |       |
| 39 Methylene Chloride                    | 84  |              | 3.718            |                  |    |          |                 | ND                |       |
| 40 2-Methyl-2-propanol                   | 59  |              | 3.844            |                  |    |          |                 | ND                |       |

| Compound                       | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|--------------------------------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
| 41 Methyl tert-butyl ether     | 73  |              | 3.901            |                  |   |          |                 | ND                |       |
| 42 trans-1,2-Dichloroethene    | 96  |              | 3.927            |                  |   |          |                 | ND                |       |
| 44 Acrylonitrile               | 53  |              | 3.972            |                  |   |          |                 | ND                |       |
| 47 Hexane                      | 57  |              | 4.085            |                  |   |          |                 | ND                |       |
| 22 Isopropyl ether             | 45  |              | 4.281            |                  |   |          |                 | ND                |       |
| 23 Halothane                   | 117 |              | 4.294            |                  |   |          |                 | ND                |       |
| 50 1,1-Dichloroethane          | 63  |              | 4.307            |                  |   |          |                 | ND                |       |
| 49 Vinyl acetate               | 43  |              | 4.323            |                  |   |          |                 | ND                |       |
| 24 2-Chloro-1,3-butadiene      | 53  |              | 4.361            |                  |   |          |                 | ND                |       |
| 25 1,1-Dimethoxyethane         | 75  |              | 4.364            |                  |   |          |                 | ND                |       |
| 27 Tert-butyl ethyl ether      | 59  |              | 4.589            |                  |   |          |                 | ND                |       |
| 56 2,2-Dichloropropane         | 77  |              | 4.779            |                  |   |          |                 | ND                |       |
| 58 cis-1,2-Dichloroethene      | 96  |              | 4.808            |                  |   |          |                 | ND                |       |
| 57 2-Butanone (MEK)            | 43  |              | 4.824            |                  |   |          |                 | ND                |       |
| 32 Ethyl acetate               | 43  |              | 4.827            |                  |   |          |                 | ND                |       |
| 34 Propionitrile               | 54  |              | 4.927            |                  |   |          |                 | ND                |       |
| 36 Methacrylonitrile           | 41  |              | 5.027            |                  |   |          |                 | ND                |       |
| 60 Chlorobromomethane          | 128 |              | 5.030            |                  |   |          |                 | ND                |       |
| 61 Tetrahydrofuran             | 42  |              | 5.056            |                  |   |          |                 | ND                |       |
| 62 Chloroform                  | 83  |              | 5.078            |                  |   |          |                 | ND                |       |
| 64 1,1,1-Trichloroethane       | 97  |              | 5.207            |                  |   |          |                 | ND                |       |
| 65 Cyclohexane                 | 56  |              | 5.223            |                  |   |          |                 | ND                |       |
| 66 Carbon tetrachloride        | 117 |              | 5.339            |                  |   |          |                 | ND                |       |
| 67 1,1-Dichloropropene         | 75  |              | 5.339            |                  |   |          |                 | ND                |       |
| 69 Isobutyl alcohol            | 43  |              | 5.474            |                  |   |          |                 | ND                |       |
| 43 Isooctane                   | 57  |              | 5.503            |                  |   |          |                 | ND                |       |
| 70 Benzene                     | 78  |              | 5.538            |                  |   |          |                 | ND                |       |
| 45 t-Amyl alcohol              | 59  |              | 5.544            |                  |   |          |                 | ND                |       |
| 46 Tert-amyl methyl ether      | 73  |              | 5.570            |                  |   |          |                 | ND                |       |
| 72 1,2-Dichloroethane          | 62  |              | 5.593            |                  |   |          |                 | ND                |       |
| 73 n-Heptane                   | 43  |              | 5.647            |                  |   |          |                 | ND                |       |
| 48 1,4-Difluorobenzene         | 114 |              | 5.856            |                  |   |          |                 | ND                |       |
| 51 2,4,4-Trimethyl-1-pentene   | 55  |              | 5.966            |                  |   |          |                 | ND                |       |
| 52 n-Butanol                   | 56  |              | 6.049            |                  |   |          |                 | ND                |       |
| 75 Trichloroethene             | 95  |              | 6.094            |                  |   |          |                 | ND                |       |
| 53 Ethyl acrylate              | 55  |              | 6.165            |                  |   |          |                 | ND                |       |
| 54 2,4,4-Trimethyl-2-pentene   | 97  |              | 6.168            |                  |   |          |                 | ND                |       |
| 76 Methylcyclohexane           | 83  |              | 6.216            |                  |   |          |                 | ND                |       |
| 77 1,2-Dichloropropane         | 63  |              | 6.329            |                  |   |          |                 | ND                |       |
| 55 Methyl methacrylate         | 41  |              | 6.367            |                  |   |          |                 | ND                |       |
| 81 1,4-Dioxane                 | 88  |              | 6.451            |                  |   |          |                 | ND                |       |
| 82 Dibromomethane              | 93  |              | 6.464            |                  |   |          |                 | ND                |       |
| 83 Dichlorobromomethane        | 83  |              | 6.586            |                  |   |          |                 | ND                |       |
| 84 2-Chloroethyl vinyl ether   | 63  |              | 6.818            |                  |   |          |                 | ND                |       |
| 59 2-Nitropropane              | 43  |              | 6.824            |                  |   |          |                 | ND                |       |
| 63 Epichlorohydrin             | 57  |              | 6.937            |                  |   |          |                 | ND                |       |
| 85 cis-1,3-Dichloropropene     | 75  |              | 6.982            |                  |   |          |                 | ND                |       |
| 87 4-Methyl-2-pentanone (MIBK) | 43  |              | 7.097            |                  |   |          |                 | ND                |       |
| 88 Toluene                     | 92  |              | 7.268            |                  |   |          |                 | ND                |       |
| 68 2-Methylthiophene           | 97  |              | 7.406            |                  |   |          |                 | ND                |       |
| 91 trans-1,3-Dichloropropene   | 75  |              | 7.515            |                  |   |          |                 | ND                |       |
| 90 Ethyl methacrylate          | 69  |              | 7.525            |                  |   |          |                 | ND                |       |



| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 71 3-Methylthiophene            | 97  |           | 7.564         |               |    |          |              | ND             |       |
| 93 1,1,2-Trichloroethane        | 83  |           | 7.715         |               |    |          |              | ND             |       |
| 94 Tetrachloroethene            | 166 |           | 7.792         |               |    |          |              | ND             |       |
| 95 1,3-Dichloropropane          | 76  |           | 7.879         |               |    |          |              | ND             |       |
| 96 2-Hexanone                   | 43  |           | 7.908         |               |    |          |              | ND             |       |
| 74 n-Butyl acetate              | 43  |           | 7.988         |               |    |          |              | ND             |       |
| 98 Chlorodibromomethane         | 129 |           | 8.120         |               |    |          |              | ND             |       |
| 101 Ethylene Dibromide          | 107 |           | 8.242         |               |    |          |              | ND             |       |
| 78 1-Chlorohexane               | 55  |           | 8.602         |               |    |          |              | ND             |       |
| 79 3-Chlorobenzotrifluoride     | 180 |           | 8.612         |               |    |          |              | ND             |       |
| 80 4-Chlorobenzotrifluoride     | 180 |           | 8.670         |               |    |          |              | ND             |       |
| 103 Chlorobenzene               | 112 |           | 8.695         |               |    |          |              | ND             |       |
| 104 Ethylbenzene                | 91  |           | 8.763         |               |    |          |              | ND             |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 |           | 8.779         |               |    |          |              | ND             |       |
| 106 m-Xylene & p-Xylene         | 106 |           | 8.882         |               |    |          |              | ND             |       |
| 107 o-Xylene                    | 106 |           | 9.313         |               |    |          |              | ND             |       |
| 109 Styrene                     | 104 |           | 9.342         |               |    |          |              | ND             |       |
| 86 2-Chlorobenzotrifluoride     | 180 |           | 9.602         |               |    |          |              | ND             |       |
| 110 Bromoform                   | 173 |           | 9.615         |               |    |          |              | ND             |       |
| 111 Isopropylbenzene            | 105 |           | 9.686         |               |    |          |              | ND             |       |
| 89 Cyclohexanone                | 55  |           | 9.904         |               |    |          |              | ND             |       |
| 113 Bromobenzene                | 156 |           | 10.081        |               |    |          |              | ND             |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  |           | 10.094        |               |    |          |              | ND             |       |
| 114 N-Propylbenzene             | 91  |           | 10.130        |               |    |          |              | ND             |       |
| 115 trans-1,4-Dichloro-2-butene | 53  |           | 10.139        |               |    |          |              | ND             |       |
| 116 1,2,3-Trichloropropane      | 110 |           | 10.149        |               |    |          |              | ND             |       |
| 117 2-Chlorotoluene             | 126 |           | 10.258        |               |    |          |              | ND             |       |
| 118 1,3,5-Trimethylbenzene      | 105 |           | 10.300        |               |    |          |              | ND             |       |
| 92 3-Chlorotoluene              | 126 |           | 10.319        |               |    |          |              | ND             |       |
| 119 4-Chlorotoluene             | 91  |           | 10.367        |               |    |          |              | ND             |       |
| 120 tert-Butylbenzene           | 134 |           | 10.631        |               |    |          |              | ND             |       |
| 121 1,2,4-Trimethylbenzene      | 105 |           | 10.686        |               |    |          |              | ND             |       |
| 97 Pentachloroethane            | 167 |           | 10.708        |               |    |          |              | ND             |       |
| 122 sec-Butylbenzene            | 105 |           | 10.840        |               |    |          |              | ND             |       |
| 123 4-Isopropyltoluene          | 119 |           | 10.972        |               |    |          |              | ND             |       |
| 124 1,3-Dichlorobenzene         | 146 |           | 11.001        |               |    |          |              | ND             |       |
| 99 Dicyclopentadiene            | 66  |           | 11.068        |               |    |          |              | ND             | U     |
| 126 1,4-Dichlorobenzene         | 146 |           | 11.085        |               |    |          |              | ND             |       |
| 100 1,2,3-Trimethylbenzene      | 105 |           | 11.100        |               |    |          |              | ND             | 7     |
| 102 Benzyl chloride             | 126 |           | 11.223        |               |    |          |              | ND             |       |
| 127 n-Butylbenzene              | 91  |           | 11.355        |               |    |          |              | ND             |       |
| 128 1,2-Dichlorobenzene         | 146 |           | 11.435        |               |    |          |              | ND             |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  |           | 12.136        |               |    |          |              | ND             |       |
| 108 1,3,5-Trichlorobenzene      | 180 |           | 12.252        |               |    |          |              | ND             |       |
| 130 1,2,4-Trichlorobenzene      | 180 |           | 12.760        |               |    |          |              | ND             |       |
| 131 Hexachlorobutadiene         | 225 |           | 12.850        |               |    |          |              | ND             |       |
| 132 Naphthalene                 | 128 |           | 12.975        |               |    |          |              | ND             |       |
| 133 1,2,3-Trichlorobenzene      | 180 |           | 13.178        |               |    |          |              | ND             |       |
| 125 2-Methylnaphthalene         | 142 | 13.972    | 13.972        | 0.000         | 91 | 2843     |              | 0.0941         |       |
| 134 Ethylene oxide TIC          | 1   |           | 0.000         |               |    |          |              | ND             |       |
| 139 Hexachloroethane            | 117 |           | 0.000         |               |    |          |              | ND             |       |
| 136 1-Bromopropane TIC          | 1   |           | 0.000         |               |    |          |              | ND             |       |

| Compound                         | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
| 137 cis-1,4-Dichloro-2-butene    | 88  |              | 0.000            |                  |   |          |                 | ND                |       |
| 138 Nitrobenzene                 | 77  |              | 0.000            |                  |   |          |                 | ND                |       |
| 135 Propene oxide TIC            | 1   |              | 0.000            |                  |   |          |                 | ND                |       |
| S 142 Total BTEX                 | 1   |              | 30.000           |                  |   |          |                 | ND                | 7     |
| S 144 1,3-Dichloropropene, Total | 1   |              | 30.000           |                  |   |          |                 | ND                | 7     |
| S 141 1,2-Dichloroethene, Total  | 1   |              | 30.000           |                  |   |          |                 | ND                | 7     |
| S 143 Xylenes, Total             | 1   |              | 30.000           |                  |   |          |                 | ND                | 7     |
| S 145 Trihalomethanes, Total     | 1   |              | 0.000            |                  |   |          |                 | ND                |       |

### QC Flag Legend

#### Processing Flags

7 - Failed Limit of Detection

#### Review Flags

U - Marked Undetected

### Reagents:

L\_8260\_SURR\_00036

Amount Added: 2.00

Units: uL

Run Reagent

L\_8260\_IS\_00038

Amount Added: 2.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19231.D

Injection Date: 17-Aug-2022 14:09:18

Instrument ID: HP5977L

Lims ID: MB

Client ID:

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 9

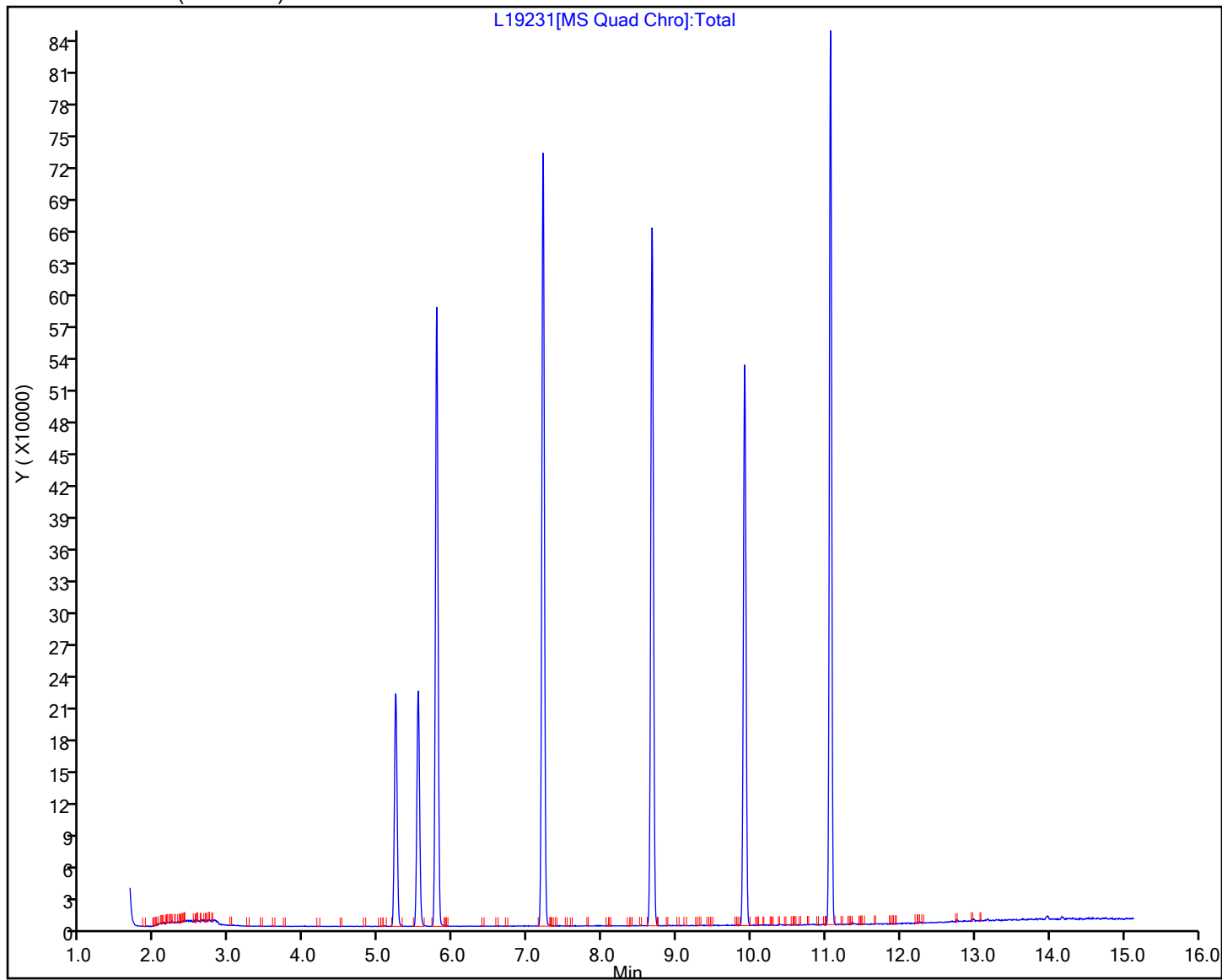
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19231.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 17-Aug-2022 14:09:18 ALS Bottle#: 0 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB  
 Misc. Info.: 480-0107131-009  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 14:30:36 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 15:46:36

| Compound                          | Amount Added | Amount Recovered | % Rec. |
|-----------------------------------|--------------|------------------|--------|
| \$ 4 Dibromofluoromethane (Surr)  | 25.0         | 25.8             | 103.37 |
| \$ 5 1,2-Dichloroethane-d4 (Surr) | 25.0         | 27.6             | 110.43 |
| \$ 6 Toluene-d8 (Surr)            | 25.0         | 23.5             | 93.96  |
| \$ 7 4-Bromofluorobenzene (Surr)  | 25.0         | 25.0             | 99.92  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u> | Job No.: <u>480-200570-1</u>                       |
| SDG No.: _____                    |                                                    |
| Client Sample ID: _____           | Lab Sample ID: <u>LCS 480-637566/6</u>             |
| Matrix: <u>Water</u>              | Lab File ID: <u>S4715.D</u>                        |
| Analysis Method: <u>8260C</u>     | Date Collected: _____                              |
| Sample wt/vol: <u>5 (mL)</u>      | Date Analyzed: <u>08/16/2022 12:03</u>             |
| Soil Aliquot Vol: _____           | Dilution Factor: <u>1</u>                          |
| Soil Extract Vol.: _____          | GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u> |
| Purge Volume: <u>5.0 (mL)</u>     | Heated Purge: (Y/N) <u>N</u> pH: _____             |
| % Moisture: _____ % Solids: _____ | Level: (low/med) <u>Low</u>                        |
| Analysis Batch No.: <u>637566</u> | Units: <u>ug/L</u>                                 |

| CAS NO.    | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane                 | 20.7   |   | 1.0 | 0.82 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 22.6   |   | 1.0 | 0.21 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 21.8   |   | 1.0 | 0.23 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.7   |   | 1.0 | 0.31 |
| 75-34-3    | 1,1-Dichloroethane                    | 22.1   |   | 1.0 | 0.38 |
| 75-35-4    | 1,1-Dichloroethene                    | 22.0   |   | 1.0 | 0.29 |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 23.1   |   | 1.0 | 0.41 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 23.5   |   | 1.0 | 0.39 |
| 95-50-1    | 1,2-Dichlorobenzene                   | 22.1   |   | 1.0 | 0.79 |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 22.7   |   | 1.0 | 0.41 |
| 107-06-2   | 1,2-Dichloroethane                    | 20.6   |   | 1.0 | 0.21 |
| 78-87-5    | 1,2-Dichloropropane                   | 22.3   |   | 1.0 | 0.72 |
| 541-73-1   | 1,3-Dichlorobenzene                   | 21.9   |   | 1.0 | 0.78 |
| 106-46-7   | 1,4-Dichlorobenzene                   | 21.4   |   | 1.0 | 0.84 |
| 78-93-3    | 2-Butanone (MEK)                      | 115    |   | 10  | 1.3  |
| 591-78-6   | 2-Hexanone                            | 114    |   | 5.0 | 1.2  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 110    |   | 5.0 | 2.1  |
| 67-64-1    | Acetone                               | 124    |   | 10  | 3.0  |
| 71-43-2    | Benzene                               | 21.6   |   | 1.0 | 0.41 |
| 75-27-4    | Bromodichloromethane                  | 22.7   |   | 1.0 | 0.39 |
| 75-25-2    | Bromoform                             | 24.5   |   | 1.0 | 0.26 |
| 74-83-9    | Bromomethane                          | 22.8   |   | 1.0 | 0.69 |
| 75-15-0    | Carbon disulfide                      | 24.3   |   | 1.0 | 0.19 |
| 56-23-5    | Carbon tetrachloride                  | 20.9   |   | 1.0 | 0.27 |
| 108-90-7   | Chlorobenzene                         | 20.9   |   | 1.0 | 0.75 |
| 124-48-1   | Dibromochloromethane                  | 25.2   |   | 1.0 | 0.32 |
| 75-00-3    | Chloroethane                          | 24.0   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                            | 20.6   |   | 1.0 | 0.34 |
| 74-87-3    | Chloromethane                         | 21.7   |   | 1.0 | 0.35 |
| 156-59-2   | cis-1,2-Dichloroethene                | 22.3   |   | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene               | 24.1   |   | 1.0 | 0.36 |
| 110-82-7   | Cyclohexane                           | 22.4   |   | 1.0 | 0.18 |
| 75-71-8    | Dichlorodifluoromethane               | 19.1   |   | 1.0 | 0.68 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u> | Job No.: <u>480-200570-1</u>                       |
| SDG No.: _____                    |                                                    |
| Client Sample ID: _____           | Lab Sample ID: <u>LCS 480-637566/6</u>             |
| Matrix: <u>Water</u>              | Lab File ID: <u>S4715.D</u>                        |
| Analysis Method: <u>8260C</u>     | Date Collected: _____                              |
| Sample wt/vol: <u>5 (mL)</u>      | Date Analyzed: <u>08/16/2022 12:03</u>             |
| Soil Aliquot Vol: _____           | Dilution Factor: <u>1</u>                          |
| Soil Extract Vol.: _____          | GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u> |
| Purge Volume: <u>5.0 (mL)</u>     | Heated Purge: (Y/N) <u>N</u> pH: _____             |
| % Moisture: _____ % Solids: _____ | Level: (low/med) <u>Low</u>                        |
| Analysis Batch No.: <u>637566</u> | Units: <u>ug/L</u>                                 |

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL  |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4   | Ethylbenzene              | 21.7   |   | 1.0 | 0.74 |
| 106-93-4   | 1,2-Dibromoethane         | 22.7   |   | 1.0 | 0.73 |
| 98-82-8    | Isopropylbenzene          | 23.3   |   | 1.0 | 0.79 |
| 79-20-9    | Methyl acetate            | 42.9   |   | 2.5 | 1.3  |
| 1634-04-4  | Methyl tert-butyl ether   | 22.8   |   | 1.0 | 0.16 |
| 108-87-2   | Methylcyclohexane         | 22.0   |   | 1.0 | 0.16 |
| 75-09-2    | Methylene Chloride        | 23.6   |   | 1.0 | 0.44 |
| 100-42-5   | Styrene                   | 23.2   |   | 1.0 | 0.73 |
| 127-18-4   | Tetrachloroethene         | 21.1   |   | 1.0 | 0.36 |
| 108-88-3   | Toluene                   | 21.8   |   | 1.0 | 0.51 |
| 156-60-5   | trans-1,2-Dichloroethene  | 22.0   |   | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 24.2   |   | 1.0 | 0.37 |
| 79-01-6    | Trichloroethene           | 21.3   |   | 1.0 | 0.46 |
| 75-69-4    | Trichlorofluoromethane    | 20.5   |   | 1.0 | 0.88 |
| 75-01-4    | Vinyl chloride            | 22.7   |   | 1.0 | 0.90 |
| 1330-20-7  | Xylenes, Total            | 45.4   |   | 2.0 | 0.66 |
| 74-97-5    | Chlorobromomethane        | 20.6   |   | 1.0 | 0.87 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 94   |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 94   |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4715.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 16-Aug-2022 12:03:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCS  
 Misc. Info.: 480-0107106-006  
 Operator ID: AG Instrument ID: HP5973S  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 16-Aug-2022 12:29:28 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1642

First Level Reviewer: FGO5

Date: 16-Aug-2022 12:30:07

| Compound                           | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 153 Fluorobenzene (IS)           | 70  | 4.873        | 4.867            | 0.006            | 99  | 217602   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5               | 82  | 7.824        | 7.824            | 0.000            | 88  | 443567   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4         | 152 | 10.263       | 10.263           | 0.000            | 50  | 460142   | 25.0            | 25.0              |       |
| \$ 154 Dibromofluoromethane (Surr) | 113 | 4.308        | 4.308            | 0.000            | 57  | 261040   | 25.0            | 23.6              |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)  | 67  | 4.600        | 4.606            | -0.006           | 50  | 177198   | 25.0            | 23.5              |       |
| \$ 5 Toluene-d8 (Surr)             | 98  | 6.358        | 6.358            | 0.000            | 57  | 1041897  | 25.0            | 24.1              |       |
| \$ 6 4-Bromofluorobenzene (Surr)   | 174 | 9.077        | 9.077            | 0.000            | 89  | 358047   | 25.0            | 24.9              |       |
| 10 Dichlorodifluoromethane         | 85  | 1.041        | 1.035            | 0.006            | 97  | 340480   | 25.0            | 19.1              |       |
| 12 Chloromethane                   | 50  | 1.187        | 1.181            | 0.006            | 100 | 615470   | 25.0            | 21.7              |       |
| 13 Vinyl chloride                  | 62  | 1.247        | 1.241            | 0.006            | 81  | 408301   | 25.0            | 22.7              |       |
| 151 Butadiene                      | 54  | 1.272        | 1.267            | 0.006            | 84  | 504859   | 25.0            | 23.8              |       |
| 14 Bromomethane                    | 94  | 1.509        | 1.503            | 0.006            | 92  | 239236   | 25.0            | 22.8              |       |
| 15 Chloroethane                    | 64  | 1.588        | 1.576            | 0.012            | 99  | 271361   | 25.0            | 24.0              |       |
| 17 Trichlorofluoromethane          | 101 | 1.740        | 1.740            | 0.000            | 95  | 462791   | 25.0            | 20.5              |       |
| 16 Dichlorofluoromethane           | 67  | 1.758        | 1.759            | -0.001           | 97  | 569240   | 25.0            | 22.6              |       |
| 18 Ethyl ether                     | 59  | 2.002        | 1.996            | 0.006            | 95  | 384659   | 25.0            | 24.0              |       |
| 20 Acrolein                        | 56  | 2.166        | 2.166            | 0.000            | 97  | 277918   | 125.0           | 124.3             |       |
| 21 1,1,2-Trichloro-1,2,2-trifluoro | 101 | 2.190        | 2.184            | 0.006            | 57  | 224002   | 25.0            | 20.7              |       |
| 22 1,1-Dichloroethene              | 96  | 2.197        | 2.197            | -0.001           | 92  | 261509   | 25.0            | 22.0              |       |
| 23 Acetone                         | 43  | 2.312        | 2.312            | 0.000            | 99  | 871082   | 125.0           | 124.0             |       |
| 25 Iodomethane                     | 142 | 2.343        | 2.336            | 0.006            | 97  | 492608   | 25.0            | 23.3              |       |
| 26 Carbon disulfide                | 76  | 2.373        | 2.367            | 0.006            | 98  | 933049   | 25.0            | 24.3              |       |
| 28 3-Chloro-1-propene              | 41  | 2.543        | 2.543            | 0.000            | 89  | 670612   | 25.0            | 23.4              |       |
| 27 Methyl acetate                  | 43  | 2.592        | 2.592            | 0.000            | 100 | 819464   | 50.0            | 42.9              |       |
| 30 Methylene Chloride              | 84  | 2.683        | 2.677            | 0.006            | 98  | 355989   | 25.0            | 23.6              |       |
| 31 2-Methyl-2-propanol             | 59  | 2.860        | 2.860            | 0.000            | 88  | 541152   | 250.0           | 260.6             |       |
| 32 Methyl tert-butyl ether         | 73  | 2.884        | 2.884            | 0.000            | 92  | 1089192  | 25.0            | 22.8              |       |
| 34 trans-1,2-Dichloroethene        | 96  | 2.896        | 2.896            | 0.000            | 90  | 328182   | 25.0            | 22.0              |       |
| 33 Acrylonitrile                   | 53  | 2.957        | 2.957            | 0.000            | 100 | 2227722  | 250.0           | 233.0             |       |
| 35 Hexane                          | 57  | 3.085        | 3.085            | 0.000            | 93  | 669491   | 25.0            | 21.7              |       |
| 39 1,1-Dichloroethane              | 63  | 3.298        | 3.298            | 0.000            | 97  | 691150   | 25.0            | 22.1              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 37 Vinyl acetate               | 43  | 3.365     | 3.359         | 0.007         | 96 | 2053186  | 50.0         | 48.4           |       |
| 44 2,2-Dichloropropane         | 77  | 3.803     | 3.797         | 0.006         | 94 | 396434   | 25.0         | 22.9           |       |
| 45 cis-1,2-Dichloroethene      | 96  | 3.839     | 3.839         | 0.000         | 81 | 374097   | 25.0         | 22.3           |       |
| 43 2-Butanone (MEK)            | 43  | 3.882     | 3.882         | 0.000         | 97 | 1365794  | 125.0        | 115.1          |       |
| 48 Chlorobromomethane          | 128 | 4.070     | 4.070         | 0.000         | 92 | 188747   | 25.0         | 20.6           |       |
| 49 Tetrahydrofuran             | 42  | 4.082     | 4.082         | 0.000         | 94 | 351925   | 50.0         | 45.2           |       |
| 50 Chloroform                  | 83  | 4.155     | 4.149         | 0.006         | 95 | 571593   | 25.0         | 20.6           |       |
| 51 1,1,1-Trichloroethane       | 97  | 4.247     | 4.247         | 0.000         | 75 | 450557   | 25.0         | 20.7           |       |
| 52 Cyclohexane                 | 56  | 4.247     | 4.247         | 0.000         | 92 | 722505   | 25.0         | 22.4           |       |
| 55 Carbon tetrachloride        | 117 | 4.381     | 4.381         | -0.001        | 92 | 384869   | 25.0         | 20.9           |       |
| 54 1,1-Dichloropropene         | 75  | 4.399     | 4.399         | 0.000         | 93 | 476082   | 25.0         | 22.1           |       |
| 57 Benzene                     | 78  | 4.600     | 4.600         | 0.000         | 96 | 1406910  | 25.0         | 21.6           |       |
| 53 Isobutyl alcohol            | 43  | 4.654     | 4.654         | 0.000         | 61 | 617508   | 625.0        | 710.6          |       |
| 58 1,2-Dichloroethane          | 62  | 4.673     | 4.673         | 0.000         | 81 | 537367   | 25.0         | 20.6           |       |
| 59 n-Heptane                   | 43  | 4.788     | 4.788         | 0.000         | 97 | 743637   | 25.0         | 20.1           |       |
| 62 Trichloroethene             | 95  | 5.208     | 5.202         | 0.006         | 94 | 342634   | 25.0         | 21.3           |       |
| 64 Methylcyclohexane           | 83  | 5.311     | 5.311         | 0.000         | 96 | 613639   | 25.0         | 22.0           |       |
| 65 1,2-Dichloropropane         | 63  | 5.439     | 5.439         | 0.000         | 94 | 401965   | 25.0         | 22.3           |       |
| 67 Dibromomethane              | 93  | 5.579     | 5.579         | 0.000         | 89 | 214859   | 25.0         | 22.4           |       |
| 66 1,4-Dioxane                 | 88  | 5.591     | 5.591         | 0.000         | 63 | 84807    | 500.0        | 505.1          |       |
| 68 Dichlorobromomethane        | 83  | 5.737     | 5.737         | 0.000         | 95 | 422633   | 25.0         | 22.7           |       |
| 69 2-Chloroethyl vinyl ether   | 63  | 6.029     | 6.023         | 0.006         | 91 | 291789   | 25.0         | 24.1           |       |
| 72 cis-1,3-Dichloropropene     | 75  | 6.151     | 6.151         | 0.000         | 87 | 555905   | 25.0         | 24.1           |       |
| 73 4-Methyl-2-pentanone (MIBK) | 43  | 6.303     | 6.303         | 0.000         | 98 | 2869140  | 125.0        | 110.3          |       |
| 74 Toluene                     | 92  | 6.425     | 6.425         | 0.000         | 87 | 891395   | 25.0         | 21.8           |       |
| 77 trans-1,3-Dichloropropene   | 75  | 6.717     | 6.717         | 0.000         | 98 | 497244   | 25.0         | 24.2           |       |
| 75 Ethyl methacrylate          | 69  | 6.777     | 6.777         | 0.000         | 76 | 510169   | 25.0         | 26.0           |       |
| 79 1,1,2-Trichloroethane       | 83  | 6.899     | 6.899         | 0.000         | 94 | 270440   | 25.0         | 21.8           |       |
| 81 Tetrachloroethene           | 166 | 6.948     | 6.942         | 0.006         | 90 | 374664   | 25.0         | 21.1           |       |
| 82 1,3-Dichloropropane         | 76  | 7.057     | 7.057         | 0.000         | 98 | 577290   | 25.0         | 22.0           |       |
| 80 2-Hexanone                  | 43  | 7.136     | 7.136         | 0.000         | 98 | 2028709  | 125.0        | 113.7          |       |
| 83 Chlorodibromomethane        | 129 | 7.288     | 7.288         | 0.000         | 87 | 310266   | 25.0         | 25.2           |       |
| 84 Ethylene Dibromide          | 107 | 7.380     | 7.380         | 0.000         | 96 | 338861   | 25.0         | 22.7           |       |
| 87 Chlorobenzene               | 112 | 7.854     | 7.854         | 0.000         | 92 | 1008741  | 25.0         | 20.9           |       |
| 88 Ethylbenzene                | 91  | 7.952     | 7.952         | 0.000         | 98 | 1667064  | 25.0         | 21.7           |       |
| 89 1,1,1,2-Tetrachloroethane   | 131 | 7.958     | 7.958         | 0.000         | 46 | 336941   | 25.0         | 21.3           |       |
| 90 m-Xylene & p-Xylene         | 106 | 8.073     | 8.073         | 0.000         | 97 | 691072   | 25.0         | 22.8           |       |
| 91 o-Xylene                    | 106 | 8.493     | 8.493         | 0.000         | 98 | 662238   | 25.0         | 22.6           |       |
| 92 Styrene                     | 104 | 8.530     | 8.529         | 0.000         | 91 | 1140480  | 25.0         | 23.2           |       |
| 95 Bromoform                   | 173 | 8.767     | 8.767         | 0.000         | 96 | 200563   | 25.0         | 24.5           |       |
| 94 Isopropylbenzene            | 105 | 8.882     | 8.882         | 0.000         | 96 | 1768177  | 25.0         | 23.3           |       |
| 101 Bromobenzene               | 156 | 9.223     | 9.223         | 0.000         | 93 | 435452   | 25.0         | 21.8           |       |
| 97 1,1,2,2-Tetrachloroethane   | 83  | 9.314     | 9.314         | 0.000         | 63 | 461750   | 25.0         | 22.6           |       |
| 99 N-Propylbenzene             | 91  | 9.326     | 9.326         | 0.000         | 98 | 2047497  | 25.0         | 22.7           |       |
| 100 1,2,3-Trichloropropane     | 110 | 9.333     | 9.339         | -0.006        | 57 | 151270   | 25.0         | 22.3           |       |
| 98 trans-1,4-Dichloro-2-butene | 53  | 9.363     | 9.363         | 0.000         | 57 | 154397   | 25.0         | 29.0           |       |
| 103 2-Chlorotoluene            | 126 | 9.424     | 9.424         | 0.000         | 96 | 418604   | 25.0         | 22.6           |       |
| 102 1,3,5-Trimethylbenzene     | 105 | 9.515     | 9.515         | 0.000         | 94 | 1507167  | 25.0         | 23.0           |       |
| 105 4-Chlorotoluene            | 126 | 9.545     | 9.545         | 0.000         | 98 | 442776   | 25.0         | 22.9           |       |
| 106 tert-Butylbenzene          | 134 | 9.844     | 9.844         | 0.000         | 91 | 344660   | 25.0         | 23.2           |       |
| 107 1,2,4-Trimethylbenzene     | 105 | 9.904     | 9.904         | 0.000         | 62 | 1541918  | 25.0         | 23.5           |       |
| 109 sec-Butylbenzene           | 105 | 10.063    | 10.063        | 0.000         | 94 | 1952008  | 25.0         | 23.1           |       |



| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 111 1,3-Dichlorobenzene         | 146 | 10.190       | 10.196           | -0.006           | 98 | 881199   | 25.0            | 21.9              |       |
| 110 4-Isopropyltoluene          | 119 | 10.215       | 10.215           | 0.000            | 97 | 1713026  | 25.0            | 24.2              |       |
| 113 1,4-Dichlorobenzene         | 146 | 10.288       | 10.288           | 0.000            | 94 | 895964   | 25.0            | 21.4              |       |
| 115 n-Butylbenzene              | 91  | 10.610       | 10.610           | 0.000            | 98 | 1510514  | 25.0            | 23.8              |       |
| 116 1,2-Dichlorobenzene         | 146 | 10.647       | 10.647           | 0.000            | 98 | 853042   | 25.0            | 22.1              |       |
| 117 1,2-Dibromo-3-Chloropropane | 75  | 11.395       | 11.395           | 0.000            | 81 | 80368    | 25.0            | 23.5              |       |
| 119 1,2,4-Trichlorobenzene      | 180 | 12.070       | 12.076           | -0.006           | 94 | 676610   | 25.0            | 23.1              |       |
| 120 Hexachlorobutadiene         | 225 | 12.192       | 12.192           | 0.000            | 97 | 276207   | 25.0            | 21.4              |       |
| 121 Naphthalene                 | 128 | 12.283       | 12.283           | 0.000            | 97 | 1678177  | 25.0            | 24.6              |       |
| 122 1,2,3-Trichlorobenzene      | 180 | 12.490       | 12.490           | 0.000            | 96 | 653373   | 25.0            | 22.7              |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

|                     |                     |           |             |
|---------------------|---------------------|-----------|-------------|
| 8260 CORP mix_00227 | Amount Added: 12.50 | Units: uL |             |
| GAS CORP mix_00524  | Amount Added: 12.50 | Units: uL |             |
| S_8260_IS_00358     | Amount Added: 1.00  | Units: uL | Run Reagent |
| S_8260_Surr_00427   | Amount Added: 1.00  | Units: uL | Run Reagent |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4715.D

Injection Date: 16-Aug-2022 12:03:30

Instrument ID: HP5973S

Lims ID: LCS

Operator ID: AG

Client ID:

Worklist Smp#: 6

Purge Vol: 5.000 mL

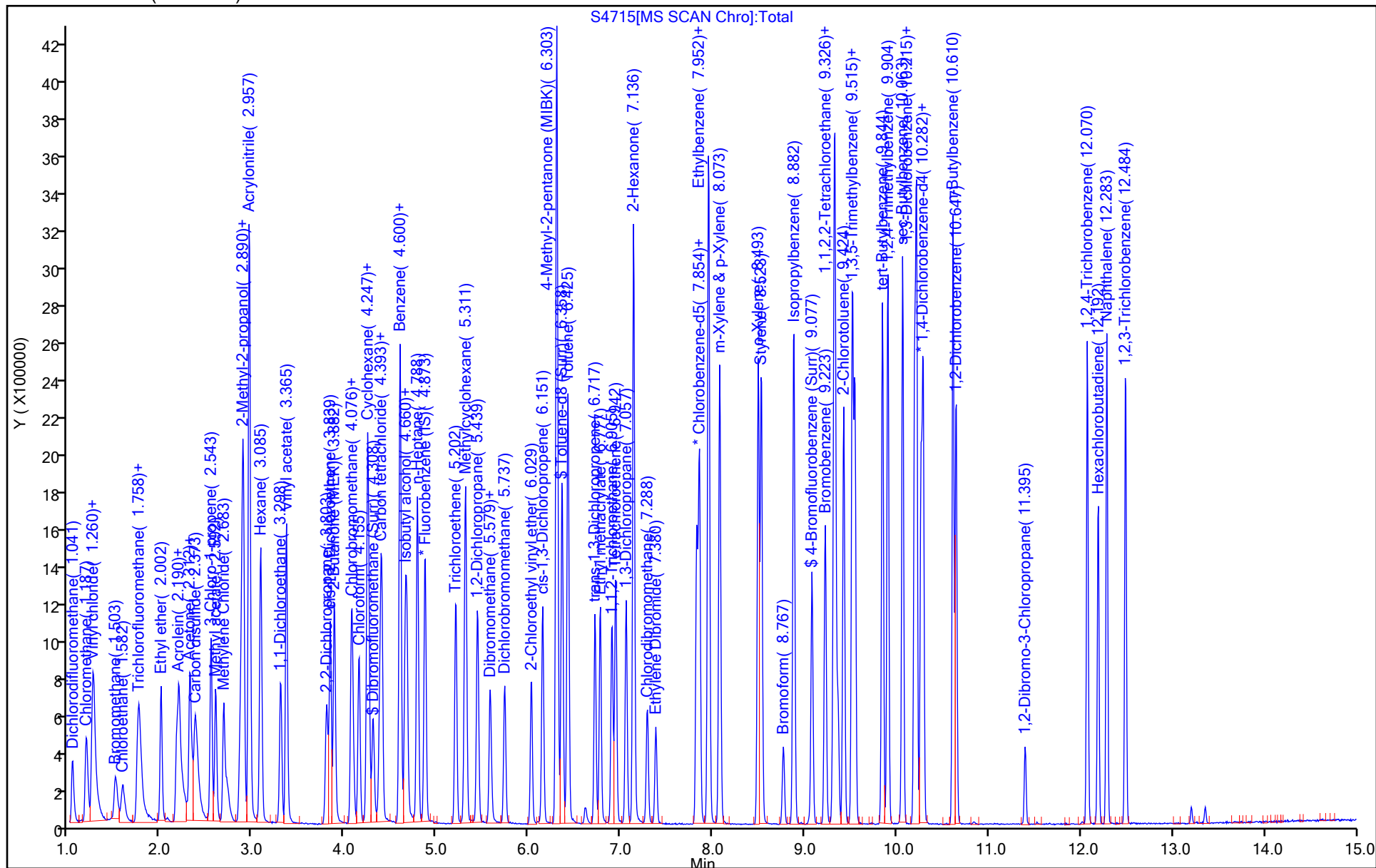
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4715.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 16-Aug-2022 12:03:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCS  
 Misc. Info.: 480-0107106-006  
 Operator ID: AG Instrument ID: HP5973S  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 16-Aug-2022 12:29:28 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1642

First Level Reviewer: FGO5

Date: 16-Aug-2022 12:30:07

| Compound                           | Amount Added | Amount Recovered | % Rec. |
|------------------------------------|--------------|------------------|--------|
| \$ 154 Dibromofluoromethane (Surr) | 25.0         | 23.6             | 94.49  |
| \$ 4 1,2-Dichloroethane-d4 (Surr)  | 25.0         | 23.5             | 94.06  |
| \$ 5 Toluene-d8 (Surr)             | 25.0         | 24.1             | 96.39  |
| \$ 6 4-Bromofluorobenzene (Surr)   | 25.0         | 24.9             | 99.75  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                   |                                                 |
|-----------------------------------|-------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u> | Job No.: <u>480-200570-1</u>                    |
| SDG No.: _____                    |                                                 |
| Client Sample ID: _____           | Lab Sample ID: <u>LCS 480-637640/6</u>          |
| Matrix: <u>Water</u>              | Lab File ID: <u>L19195.D</u>                    |
| Analysis Method: <u>8260C</u>     | Date Collected: _____                           |
| Sample wt/vol: <u>5 (mL)</u>      | Date Analyzed: <u>08/16/2022 15:19</u>          |
| Soil Aliquot Vol: _____           | Dilution Factor: <u>1</u>                       |
| Soil Extract Vol.: _____          | GC Column: <u>ZB-624 (30) VOA ID: 0.25 (mm)</u> |
| Purge Volume: <u>5.0 (mL)</u>     | Heated Purge: (Y/N) <u>N</u> pH: _____          |
| % Moisture: _____ % Solids: _____ | Level: (low/med) <u>Low</u>                     |
| Analysis Batch No.: <u>637640</u> | Units: <u>ug/L</u>                              |

| CAS NO.    | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane                 | 29.7   |   | 1.0 | 0.82 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 24.8   |   | 1.0 | 0.21 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 26.0   |   | 1.0 | 0.23 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 31.8   |   | 1.0 | 0.31 |
| 75-34-3    | 1,1-Dichloroethane                    | 31.0   |   | 1.0 | 0.38 |
| 75-35-4    | 1,1-Dichloroethene                    | 31.2   |   | 1.0 | 0.29 |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 21.5   |   | 1.0 | 0.41 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 23.5   |   | 1.0 | 0.39 |
| 95-50-1    | 1,2-Dichlorobenzene                   | 23.9   |   | 1.0 | 0.79 |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 22.2   |   | 1.0 | 0.41 |
| 107-06-2   | 1,2-Dichloroethane                    | 28.7   |   | 1.0 | 0.21 |
| 78-87-5    | 1,2-Dichloropropane                   | 28.8   |   | 1.0 | 0.72 |
| 541-73-1   | 1,3-Dichlorobenzene                   | 24.8   |   | 1.0 | 0.78 |
| 106-46-7   | 1,4-Dichlorobenzene                   | 24.7   |   | 1.0 | 0.84 |
| 78-93-3    | 2-Butanone (MEK)                      | 242    |   | 10  | 1.3  |
| 591-78-6   | 2-Hexanone                            | 130    |   | 5.0 | 1.2  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 118    |   | 5.0 | 2.1  |
| 67-64-1    | Acetone                               | 164    |   | 10  | 3.0  |
| 71-43-2    | Benzene                               | 28.8   |   | 1.0 | 0.41 |
| 75-27-4    | Bromodichloromethane                  | 29.2   |   | 1.0 | 0.39 |
| 75-25-2    | Bromoform                             | 24.1   |   | 1.0 | 0.26 |
| 74-83-9    | Bromomethane                          | 29.1   |   | 1.0 | 0.69 |
| 75-15-0    | Carbon disulfide                      | 29.5   |   | 1.0 | 0.19 |
| 56-23-5    | Carbon tetrachloride                  | 29.8   |   | 1.0 | 0.27 |
| 108-90-7   | Chlorobenzene                         | 25.6   |   | 1.0 | 0.75 |
| 124-48-1   | Dibromochloromethane                  | 25.8   |   | 1.0 | 0.32 |
| 75-00-3    | Chloroethane                          | 29.4   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                            | 28.8   |   | 1.0 | 0.34 |
| 74-87-3    | Chloromethane                         | 26.8   |   | 1.0 | 0.35 |
| 156-59-2   | cis-1,2-Dichloroethene                | 28.9   |   | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene               | 30.2   |   | 1.0 | 0.36 |
| 110-82-7   | Cyclohexane                           | 28.7   |   | 1.0 | 0.18 |
| 75-71-8    | Dichlorodifluoromethane               | 28.4   |   | 1.0 | 0.68 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                   |                                                |
|-----------------------------------|------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u> | Job No.: <u>480-200570-1</u>                   |
| SDG No.: _____                    |                                                |
| Client Sample ID: _____           | Lab Sample ID: <u>LCS 480-637640/6</u>         |
| Matrix: <u>Water</u>              | Lab File ID: <u>L19195.D</u>                   |
| Analysis Method: <u>8260C</u>     | Date Collected: _____                          |
| Sample wt/vol: <u>5(mL)</u>       | Date Analyzed: <u>08/16/2022 15:19</u>         |
| Soil Aliquot Vol: _____           | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____          | GC Column: <u>ZB-624 (30) VOA ID: 0.25(mm)</u> |
| Purge Volume: <u>5.0(mL)</u>      | Heated Purge: (Y/N) <u>N</u> pH: _____         |
| % Moisture: _____ % Solids: _____ | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>637640</u> | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL  |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4   | Ethylbenzene              | 26.0   |   | 1.0 | 0.74 |
| 106-93-4   | 1,2-Dibromoethane         | 24.9   |   | 1.0 | 0.73 |
| 98-82-8    | Isopropylbenzene          | 25.2   |   | 1.0 | 0.79 |
| 79-20-9    | Methyl acetate            | 53.4   |   | 2.5 | 1.3  |
| 1634-04-4  | Methyl tert-butyl ether   | 27.0   |   | 1.0 | 0.16 |
| 108-87-2   | Methylcyclohexane         | 31.2   |   | 1.0 | 0.16 |
| 75-09-2    | Methylene Chloride        | 28.7   |   | 1.0 | 0.44 |
| 100-42-5   | Styrene                   | 25.7   |   | 1.0 | 0.73 |
| 127-18-4   | Tetrachloroethene         | 25.8   |   | 1.0 | 0.36 |
| 108-88-3   | Toluene                   | 25.4   |   | 1.0 | 0.51 |
| 156-60-5   | trans-1,2-Dichloroethene  | 30.2   |   | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 27.3   |   | 1.0 | 0.37 |
| 79-01-6    | Trichloroethene           | 28.7   |   | 1.0 | 0.46 |
| 75-69-4    | Trichlorofluoromethane    | 32.2   |   | 1.0 | 0.88 |
| 75-01-4    | Vinyl chloride            | 25.3   |   | 1.0 | 0.90 |
| 1330-20-7  | Xylenes, Total            | 50.6   |   | 2.0 | 0.66 |
| 74-97-5    | Chlorobromomethane        | 28.3   |   | 1.0 | 0.87 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 107  |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 97   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 103  |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19195.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 16-Aug-2022 15:19:54 ALS Bottle#: 0 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCS  
 Misc. Info.: 480-0107114-006  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 16-Aug-2022 16:53:53 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1631

First Level Reviewer: LS5G

Date: 16-Aug-2022 16:53:53

| Compound                            | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-------------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| * 1 Fluorobenzene (IS)              | 70  | 5.776     | 5.773         | 0.003         | 99  | 139539   | 25.0         | 25.0           |       |
| * 2 Chlorobenzene-d5                | 117 | 8.666     | 8.666         | 0.000         | 84  | 620686   | 25.0         | 25.0           |       |
| * 3 1,4-Dichlorobenzene-d4          | 152 | 11.062    | 11.062        | 0.000         | 96  | 335347   | 25.0         | 25.0           |       |
| \$ 4 Dibromofluoromethane (Surr)    | 113 | 5.223     | 5.226         | -0.003        | 93  | 183160   | 25.0         | 25.8           |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)   | 65  | 5.525     | 5.525         | 0.000         | 97  | 214364   | 25.0         | 26.7           |       |
| \$ 6 Toluene-d8 (Surr)              | 98  | 7.203     | 7.203         | 0.000         | 92  | 725581   | 25.0         | 23.4           |       |
| \$ 7 4-Bromofluorobenzene (Surr)    | 174 | 9.911     | 9.911         | 0.000         | 98  | 234164   | 25.0         | 24.1           |       |
| 10 Dichlorodifluoromethane          | 85  | 1.779     | 1.770         | 0.009         | 99  | 245043   | 25.0         | 28.4           |       |
| 9 Chlorodifluoromethane             | 51  | 1.802     | 1.808         | -0.006        | 97  | 207530   | 25.0         | 24.9           |       |
| 13 Chloromethane                    | 50  | 2.011     | 2.004         | 0.007         | 98  | 216208   | 25.0         | 26.8           |       |
| 14 Vinyl chloride                   | 62  | 2.117     | 2.107         | 0.010         | 98  | 194098   | 25.0         | 25.3           |       |
| 15 Butadiene                        | 54  | 2.152     | 2.136         | 0.016         | 89  | 171225   | 25.0         | 27.6           |       |
| 18 Bromomethane                     | 94  | 2.483     | 2.480         | 0.003         | 90  | 165124   | 25.0         | 29.1           |       |
| 19 Chloroethane                     | 64  | 2.586     | 2.564         | 0.022         | 99  | 138048   | 25.0         | 29.4           |       |
| 20 Dichlorofluoromethane            | 67  | 2.786     | 2.773         | 0.013         | 96  | 349590   | 25.0         | 32.8           |       |
| 21 Trichlorofluoromethane           | 101 | 2.798     | 2.798         | 0.019         | 97  | 320457   | 25.0         | 32.2           | M     |
| 26 Ethyl ether                      | 59  | 3.030     | 3.027         | 0.003         | 90  | 191017   | 25.0         | 29.3           |       |
| 11 Ethanol                          | 45  | 3.030     | 3.033         | -0.003        | 0   | 152903   | 1000.0       | 2982.4         |       |
| 12 Propene oxide                    | 58  | 3.130     | 3.130         | 0.000         | 0   | 308244   | NC           | NC             | a     |
| 28 Acrolein                         | 56  | 3.216     | 3.213         | 0.003         | 99  | 127998   | 125.0        | 97.4           |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.271     | 3.271         | 0.022         | 93  | 205817   | 25.0         | 31.8           | M     |
| 30 1,1-Dichloroethene               | 96  | 3.252     | 3.252         | 0.000         | 97  | 197908   | 25.0         | 31.2           |       |
| 31 Acetone                          | 43  | 3.358     | 3.358         | 0.000         | 100 | 500105   | 125.0        | 163.9          |       |
| 33 Iodomethane                      | 142 | 3.419     | 3.419         | 0.000         | 97  | 321300   | 25.0         | 27.7           | M     |
| 35 Carbon disulfide                 | 76  | 3.477     | 3.477         | 0.000         | 99  | 517187   | 25.0         | 29.5           | M     |
| 16 Isopropyl alcohol                | 45  | 3.496     | 3.499         | -0.003        | 98  | 84557    | 250.0        | 151.6          |       |
| 37 3-Chloro-1-propene               | 41  | 3.589     | 3.586         | 0.003         | 88  | 260289   | 25.0         | 26.2           |       |
| 38 Methyl acetate                   | 43  | 3.615     | 3.615         | 0.000         | 97  | 465215   | 50.0         | 53.4           |       |
| 17 Acetonitrile                     | 40  | 3.650     | 3.650         | 0.006         | 89  | 197459   | 250.0        | 323.5          | a     |
| 39 Methylene Chloride               | 84  | 3.718     | 3.721         | -0.003        | 86  | 234034   | 25.0         | 28.7           |       |
| 40 2-Methyl-2-propanol              | 59  | 3.837     | 3.843         | -0.006        | 98  | 242627   | 250.0        | 181.5          |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 41 Methyl tert-butyl ether     | 73  | 3.901     | 3.901         | 0.000         | 96 | 676643   | 25.0         | 27.0           |       |
| 42 trans-1,2-Dichloroethene    | 96  | 3.927     | 3.927         | 0.000         | 98 | 234536   | 25.0         | 30.2           |       |
| 44 Acrylonitrile               | 53  | 3.975     | 3.972         | 0.003         | 99 | 1156229  | 250.0        | 270.5          |       |
| 47 Hexane                      | 57  | 4.085     | 4.085         | 0.000         | 90 | 316368   | 25.0         | 30.6           |       |
| 22 Isopropyl ether             | 45  | 4.281     | 4.281         | 0.000         | 94 | 561688   | 25.0         | 25.6           | a     |
| 23 Halothane                   | 117 | 4.290     | 4.290         | 0.000         | 88 | 151743   | 25.0         | 27.9           |       |
| 50 1,1-Dichloroethane          | 63  | 4.306     | 4.306         | 0.000         | 95 | 391830   | 25.0         | 31.0           |       |
| 49 Vinyl acetate               | 43  | 4.322     | 4.323         | -0.001        | 97 | 1332678  | 50.0         | 81.9           |       |
| 24 2-Chloro-1,3-butadiene      | 53  | 4.358     | 4.358         | 0.000         | 89 | 285450   | 25.0         | 27.5           |       |
| 25 1,1-Dimethoxyethane         | 75  | 4.364     | 4.361         | 0.003         | 91 | 280693   | 125.0        | 102.3          |       |
| 27 Tert-butyl ethyl ether      | 59  | 4.589     | 4.589         | 0.000         | 96 | 572585   | 25.0         | 25.2           |       |
| 56 2,2-Dichloropropane         | 77  | 4.782     | 4.782         | 0.000         | 84 | 234987   | 25.0         | 30.8           |       |
| 58 cis-1,2-Dichloroethene      | 96  | 4.808     | 4.808         | 0.000         | 82 | 252533   | 25.0         | 28.9           |       |
| 57 2-Butanone (MEK)            | 43  | 4.827     | 4.827         | 0.003         | 98 | 1386016  | 125.0        | 241.6          | a     |
| 32 Ethyl acetate               | 43  | 4.827     | 4.827         | 0.000         | 98 | 1392640  | 50.0         | 128.3          |       |
| 34 Propionitrile               | 54  | 4.927     | 4.927         | 0.000         | 99 | 465825   | 250.0        | 270.0          |       |
| 36 Methacrylonitrile           | 41  | 5.027     | 5.027         | 0.000         | 90 | 1718757  | 250.0        | 273.9          |       |
| 60 Chlorobromomethane          | 128 | 5.030     | 5.030         | 0.000         | 88 | 131009   | 25.0         | 28.3           |       |
| 61 Tetrahydrofuran             | 42  | 5.052     | 5.052         | 0.000         | 87 | 252635   | 50.0         | 62.8           |       |
| 62 Chloroform                  | 83  | 5.078     | 5.078         | 0.000         | 91 | 393960   | 25.0         | 28.8           |       |
| 64 1,1,1-Trichloroethane       | 97  | 5.207     | 5.207         | 0.000         | 97 | 328536   | 25.0         | 29.7           |       |
| 65 Cyclohexane                 | 56  | 5.223     | 5.223         | 0.000         | 87 | 341885   | 25.0         | 28.7           |       |
| 66 Carbon tetrachloride        | 117 | 5.339     | 5.339         | 0.000         | 95 | 274150   | 25.0         | 29.8           |       |
| 67 1,1-Dichloropropene         | 75  | 5.342     | 5.342         | 0.000         | 97 | 314442   | 25.0         | 30.1           |       |
| 69 Isobutyl alcohol            | 43  | 5.477     | 5.474         | 0.003         | 96 | 411693   | 625.0        | 668.5          |       |
| 43 Isooctane                   | 57  | 5.503     | 5.503         | -0.001        | 90 | 705647   | 25.0         | 27.2           | a     |
| 70 Benzene                     | 78  | 5.538     | 5.538         | 0.000         | 96 | 910692   | 25.0         | 28.8           |       |
| 45 t-Amyl alcohol              | 59  | 5.541     | 5.541         | 0.000         | 94 | 392103   | 250.0        | 265.7          |       |
| 46 Tert-amyl methyl ether      | 73  | 5.570     | 5.570         | 0.000         | 98 | 880579   | 25.0         | 27.2           |       |
| 72 1,2-Dichloroethane          | 62  | 5.593     | 5.593         | 0.000         | 98 | 312713   | 25.0         | 28.7           |       |
| 73 n-Heptane                   | 43  | 5.647     | 5.647         | 0.000         | 88 | 344924   | 25.0         | 29.2           |       |
| 48 1,4-Difluorobenzene         | 114 | 5.856     | 5.856         | 0.000         | 93 | 628995   | 25.0         | 27.4           |       |
| 51 2,4,4-Trimethyl-1-pentene   | 55  | 5.966     | 5.966         | 0.000         | 97 | 126759   | NC           | NC             |       |
| 52 n-Butanol                   | 56  | 6.049     | 6.049         | 0.000         | 85 | 194813   | 625.0        | 602.0          |       |
| 75 Trichloroethene             | 95  | 6.094     | 6.091         | 0.003         | 96 | 236013   | 25.0         | 28.7           |       |
| 53 Ethyl acrylate              | 55  | 6.165     | 6.165         | 0.000         | 97 | 701995   | 25.0         | 29.2           |       |
| 54 2,4,4-Trimethyl-2-pentene   | 97  | 6.168     | 6.171         | -0.003        | 91 | 476980   | NC           | NC             |       |
| 76 Methylcyclohexane           | 83  | 6.216     | 6.216         | 0.000         | 82 | 414413   | 25.0         | 31.2           | a     |
| 77 1,2-Dichloropropane         | 63  | 6.329     | 6.329         | 0.000         | 93 | 215995   | 25.0         | 28.8           |       |
| 55 Methyl methacrylate         | 41  | 6.367     | 6.368         | -0.001        | 85 | 521296   | 50.0         | 66.4           |       |
| 81 1,4-Dioxane                 | 88  | 6.454     | 6.451         | 0.003         | 90 | 66375    | 500.0        | 562.2          |       |
| 82 Dibromomethane              | 93  | 6.464     | 6.464         | 0.000         | 97 | 151054   | 25.0         | 28.3           |       |
| 83 Dichlorobromomethane        | 83  | 6.589     | 6.586         | 0.003         | 99 | 268846   | 25.0         | 29.2           |       |
| 84 2-Chloroethyl vinyl ether   | 63  | 6.821     | 6.821         | 0.000         | 83 | 164757   | 25.0         | 27.2           |       |
| 59 2-Nitropropane              | 43  | 6.821     | 6.824         | -0.003        | 93 | 238362   | 50.0         | 87.5           |       |
| 63 Epichlorohydrin             | 57  | 6.937     | 6.933         | 0.004         | 96 | 365258   | 250.0        | 267.0          |       |
| 85 cis-1,3-Dichloropropene     | 75  | 6.978     | 6.982         | -0.004        | 96 | 369111   | 25.0         | 30.2           |       |
| 87 4-Methyl-2-pentanone (MIBK) | 43  | 7.101     | 7.097         | 0.004         | 94 | 1473219  | 125.0        | 118.1          |       |
| 88 Toluene                     | 92  | 7.268     | 7.268         | 0.000         | 98 | 580794   | 25.0         | 25.4           |       |
| 91 trans-1,3-Dichloropropene   | 75  | 7.519     | 7.519         | 0.000         | 96 | 342134   | 25.0         | 27.3           |       |
| 90 Ethyl methacrylate          | 69  | 7.525     | 7.525         | 0.000         | 87 | 331884   | 25.0         | 25.4           |       |
| 93 1,1,2-Trichloroethane       | 83  | 7.711     | 7.712         | -0.001        | 91 | 185628   | 25.0         | 26.0           |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 94 Tetrachloroethene            | 166 | 7.792     | 7.792         | 0.000         | 97 | 262656   | 25.0         | 25.8           |       |
| 95 1,3-Dichloropropane          | 76  | 7.879     | 7.879         | 0.000         | 88 | 386613   | 25.0         | 25.2           |       |
| 96 2-Hexanone                   | 43  | 7.908     | 7.908         | 0.000         | 94 | 1150196  | 125.0        | 130.1          |       |
| 74 n-Butyl acetate              | 43  | 7.988     | 7.988         | 0.000         | 97 | 394003   | 25.0         | 25.7           |       |
| 98 Chlorodibromomethane         | 129 | 8.120     | 8.117         | 0.003         | 89 | 203234   | 25.0         | 25.8           |       |
| 101 Ethylene Dibromide          | 107 | 8.242     | 8.242         | 0.000         | 98 | 233795   | 25.0         | 24.9           |       |
| 78 1-Chlorohexane               | 55  | 8.602     | 8.602         | 0.000         | 95 | 180947   | 25.0         | 25.9           |       |
| 79 3-Chlorobenzotrifluoride     | 180 | 8.612     | 8.612         | 0.000         | 93 | 314593   | 25.0         | 24.8           |       |
| 80 4-Chlorobenzotrifluoride     | 180 | 8.673     | 8.670         | 0.003         | 95 | 291134   | 25.0         | 24.4           |       |
| 103 Chlorobenzene               | 112 | 8.695     | 8.695         | 0.000         | 96 | 660306   | 25.0         | 25.6           |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.766         | 0.000         | 98 | 1077038  | 25.0         | 26.0           |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.782     | 8.779         | 0.003         | 95 | 227387   | 25.0         | 26.9           |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 416895   | 25.0         | 25.4           |       |
| 107 o-Xylene                    | 106 | 9.316     | 9.316         | 0.000         | 95 | 405992   | 25.0         | 25.2           |       |
| 109 Styrene                     | 104 | 9.342     | 9.342         | 0.000         | 95 | 686782   | 25.0         | 25.7           |       |
| 86 2-Chlorobenzotrifluoride     | 180 | 9.602     | 9.602         | 0.000         | 97 | 308503   | 25.0         | 23.0           |       |
| 110 Bromoform                   | 173 | 9.615     | 9.615         | 0.000         | 96 | 130785   | 25.0         | 24.1           |       |
| 111 Isopropylbenzene            | 105 | 9.689     | 9.686         | 0.003         | 95 | 1075406  | 25.0         | 25.2           |       |
| 89 Cyclohexanone                | 55  | 9.908     | 9.904         | 0.004         | 91 | 113033   | 250.0        | 243.2          |       |
| 113 Bromobenzene                | 156 | 10.081    | 10.078        | 0.003         | 92 | 269645   | 25.0         | 24.1           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.094    | 10.094        | 0.000         | 94 | 340826   | 25.0         | 24.8           |       |
| 114 N-Propylbenzene             | 91  | 10.129    | 10.126        | 0.003         | 99 | 1279826  | 25.0         | 25.8           |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.142    | 10.142        | 0.000         | 74 | 83762    | 25.0         | 22.6           |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.145    | 10.146        | -0.001        | 85 | 117269   | 25.0         | 23.9           |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 97 | 256977   | 25.0         | 24.9           |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.303        | 0.000         | 95 | 894642   | 25.0         | 25.5           |       |
| 92 3-Chlorotoluene              | 126 | 10.319    | 10.319        | 0.000         | 98 | 249410   | 25.0         | 24.9           |       |
| 119 4-Chlorotoluene             | 91  | 10.367    | 10.367        | 0.000         | 97 | 770526   | 25.0         | 25.1           |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 92 | 201398   | 25.0         | 24.7           |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.686    | 10.686        | 0.000         | 96 | 908392   | 25.0         | 25.2           |       |
| 97 Pentachloroethane            | 167 | 10.708    | 10.708        | 0.000         | 0  | 131671   | 25.0         | 26.5           |       |
| 122 sec-Butylbenzene            | 105 | 10.840    | 10.840        | 0.000         | 94 | 1152328  | 25.0         | 25.4           |       |
| 123 4-Isopropyltoluene          | 119 | 10.972    | 10.972        | 0.000         | 97 | 994015   | 25.0         | 25.3           |       |
| 124 1,3-Dichlorobenzene         | 146 | 11.001    | 11.001        | 0.000         | 97 | 530824   | 25.0         | 24.8           |       |
| 99 Dicyclopentadiene            | 66  | 11.072    | 11.068        | 0.004         | 96 | 967197   | 25.0         | 22.9           |       |
| 126 1,4-Dichlorobenzene         | 146 | 11.084    | 11.084        | 0.000         | 96 | 544961   | 25.0         | 24.7           |       |
| 100 1,2,3-Trimethylbenzene      | 105 | 11.100    | 11.097        | 0.003         | 98 | 872964   | 25.0         | 24.4           |       |
| 102 Benzyl chloride             | 126 | 11.223    | 11.223        | 0.000         | 98 | 118018   | 25.0         | 27.5           |       |
| 127 n-Butylbenzene              | 91  | 11.354    | 11.355        | 0.000         | 98 | 902481   | 25.0         | 25.8           |       |
| 128 1,2-Dichlorobenzene         | 146 | 11.438    | 11.435        | 0.003         | 98 | 505566   | 25.0         | 23.9           |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  | 12.136    | 12.136        | 0.000         | 87 | 65699    | 25.0         | 23.5           |       |
| 108 1,3,5-Trichlorobenzene      | 180 | 12.252    | 12.252        | 0.000         | 97 | 339655   | 25.0         | 21.6           |       |
| 130 1,2,4-Trichlorobenzene      | 180 | 12.760    | 12.760        | 0.000         | 94 | 341109   | 25.0         | 21.5           |       |
| 131 Hexachlorobutadiene         | 225 | 12.850    | 12.850        | 0.000         | 96 | 133501   | 25.0         | 19.4           |       |
| 132 Naphthalene                 | 128 | 12.978    | 12.978        | 0.000         | 97 | 1108849  | 25.0         | 22.6           |       |
| 133 1,2,3-Trichlorobenzene      | 180 | 13.178    | 13.178        | 0.000         | 96 | 333939   | 25.0         | 22.2           |       |
| 125 2-Methylnaphthalene         | 142 | 13.972    | 13.975        | -0.003        | 93 | 624488   | 25.0         | 20.1           |       |



**QC Flag Legend**

## Processing Flags

NC - Not Calibrated

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

|                     |                     |           |             |
|---------------------|---------------------|-----------|-------------|
| 8260 CORP mix_00227 | Amount Added: 12.50 | Units: uL |             |
| GAS CORP mix_00524  | Amount Added: 12.50 | Units: uL |             |
| ADD CORP mix_00127  | Amount Added: 12.50 | Units: uL |             |
| 3_MCP_Add_WRK_00364 | Amount Added: 12.50 | Units: uL |             |
| L_8260_SURR_00036   | Amount Added: 2.00  | Units: uL | Run Reagent |
| L_8260_IS_00038     | Amount Added: 2.00  | Units: uL | Run Reagent |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19195.D

Injection Date: 16-Aug-2022 15:19:54

Instrument ID: HP5977L

Lims ID: LCS

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#:

6

Purge Vol: 5.000 mL

Dil. Factor:

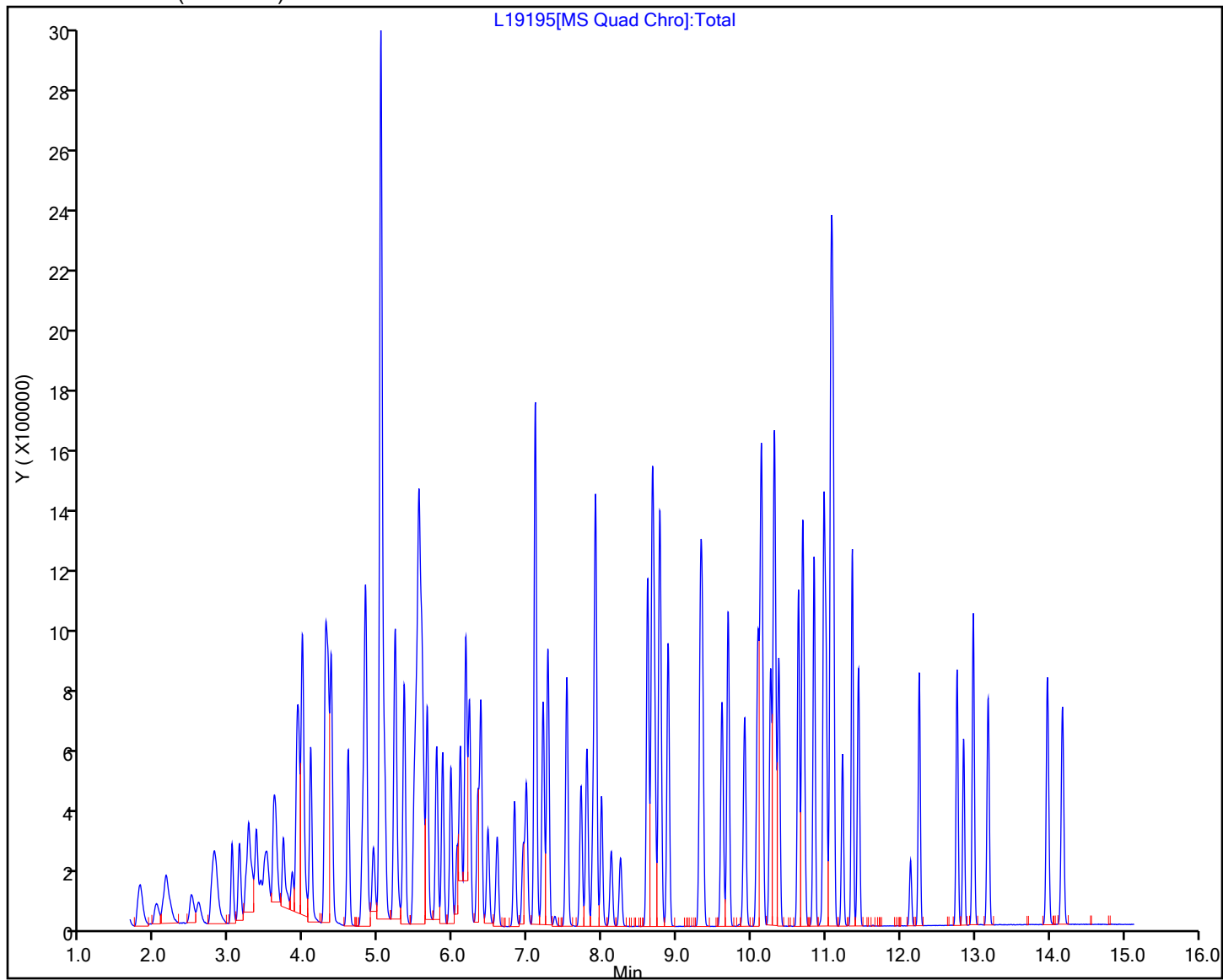
1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19195.D  
Lims ID: LCS  
Client ID:  
Sample Type: LCS  
Inject. Date: 16-Aug-2022 15:19:54 ALS Bottle#: 0 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Sample Info: LCS  
Misc. Info.: 480-0107114-006  
Operator ID: CR/CB Instrument ID: HP5977L  
Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
Limit Group: MV - 8260C ICAL  
Last Update: 16-Aug-2022 16:53:53 Calib Date: 07-Jul-2022 20:20:54  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
Process Host: CTX1631

First Level Reviewer: LS5G

Date: 16-Aug-2022 16:53:53

| Compound                          | Amount Added | Amount Recovered | % Rec. |
|-----------------------------------|--------------|------------------|--------|
| \$ 4 Dibromofluoromethane (Surr)  | 25.0         | 25.8             | 103.40 |
| \$ 5 1,2-Dichloroethane-d4 (Surr) | 25.0         | 26.7             | 106.82 |
| \$ 6 Toluene-d8 (Surr)            | 25.0         | 23.4             | 93.67  |
| \$ 7 4-Bromofluorobenzene (Surr)  | 25.0         | 24.1             | 96.58  |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19195.D

Injection Date: 16-Aug-2022 15:19:54

Instrument ID: HP5977L

Lims ID: LCS

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

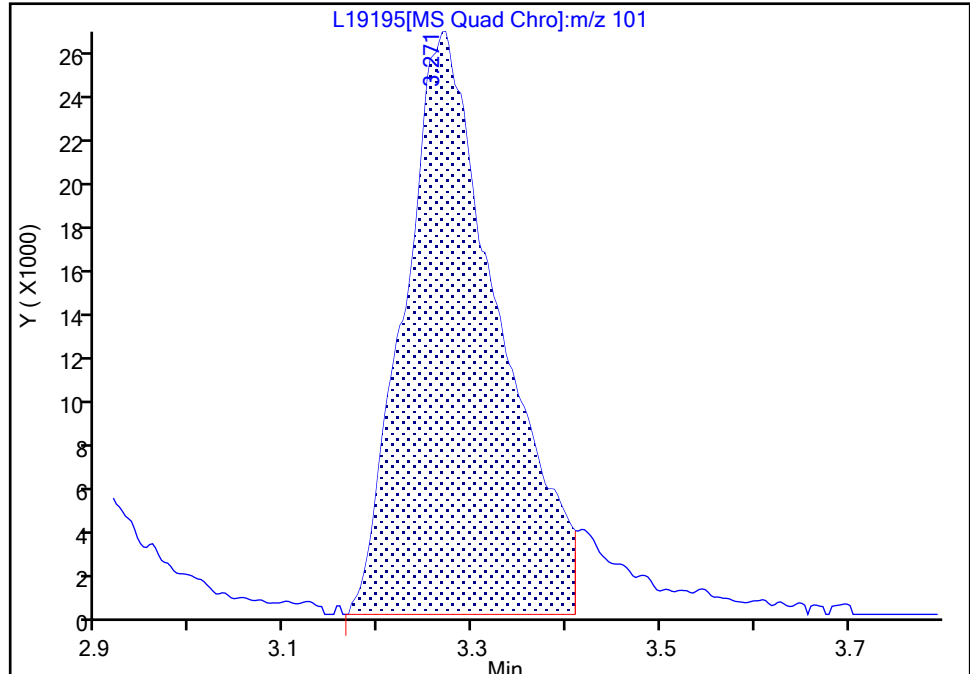
MS Quad

**29 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1**

Signal: 1

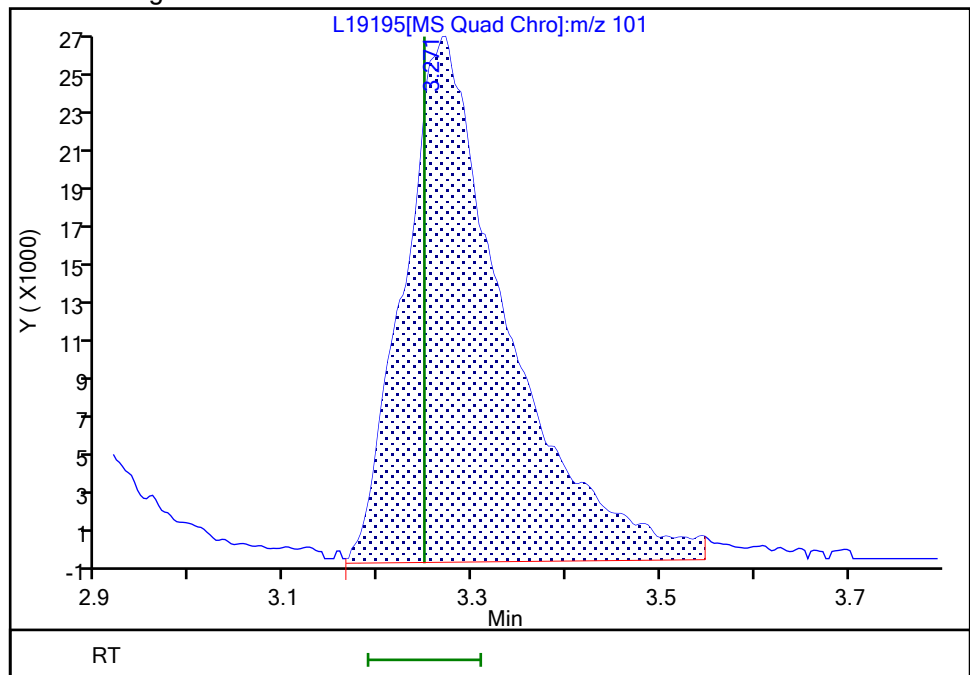
RT: 3.27  
Area: 186338  
Amount: 28.779393  
Amount Units: ug/L

## Processing Integration Results



RT: 3.27  
Area: 205817  
Amount: 31.787871  
Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 16-Aug-2022 16:50:39

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19195.D

Injection Date: 16-Aug-2022 15:19:54

Instrument ID: HP5977L

Lims ID: LCS

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

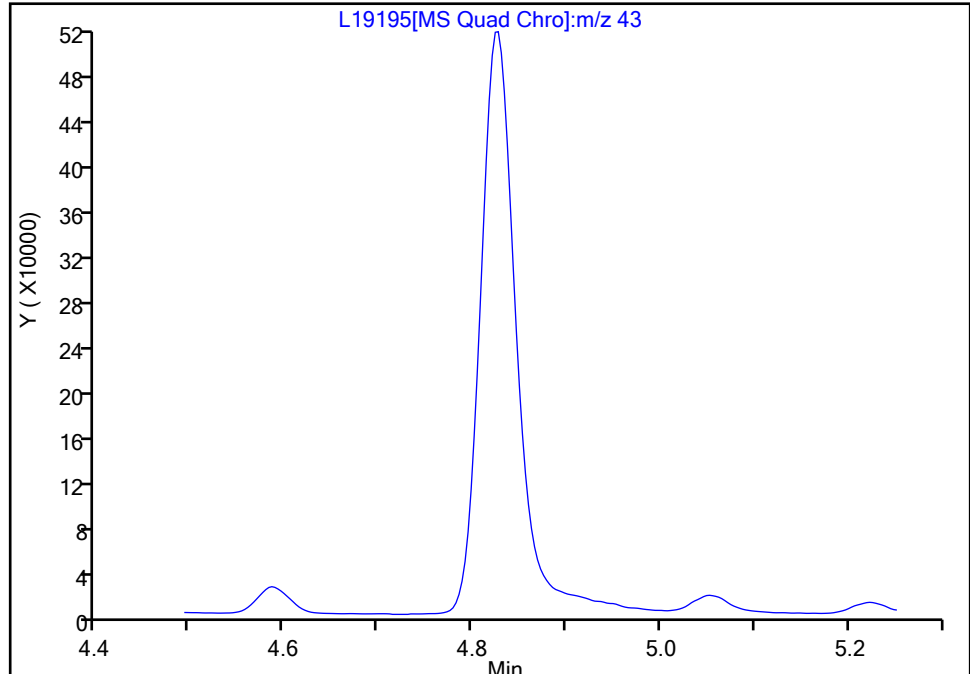
**57 2-Butanone (MEK), CAS: 78-93-3**

Signal: 1

Not Detected

Expected RT: 4.82

## Processing Integration Results



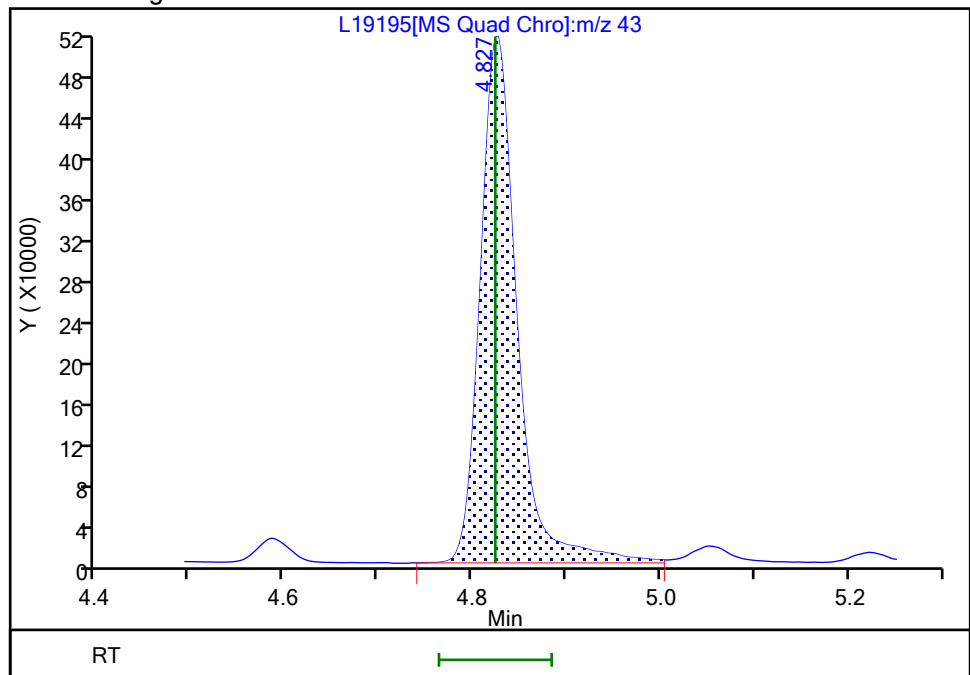
RT: 4.83

Area: 1386016

Amount: 241.6358

Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 16-Aug-2022 16:52:49

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19195.D

Injection Date: 16-Aug-2022 15:19:54

Instrument ID: HP5977L

Lims ID: LCS

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

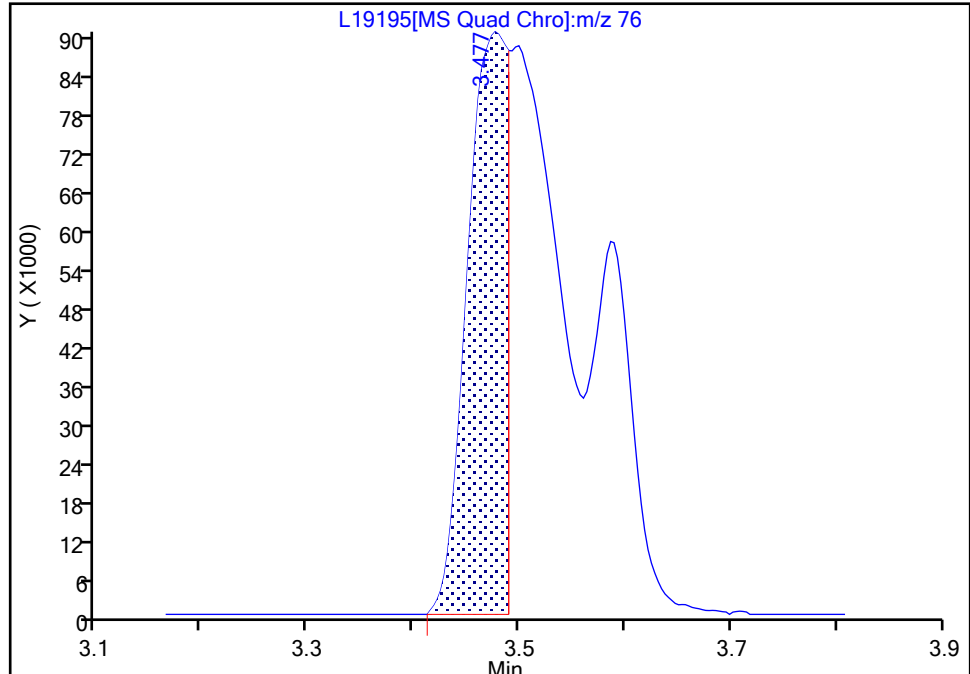
MS Quad

**35 Carbon disulfide, CAS: 75-15-0**

Signal: 1

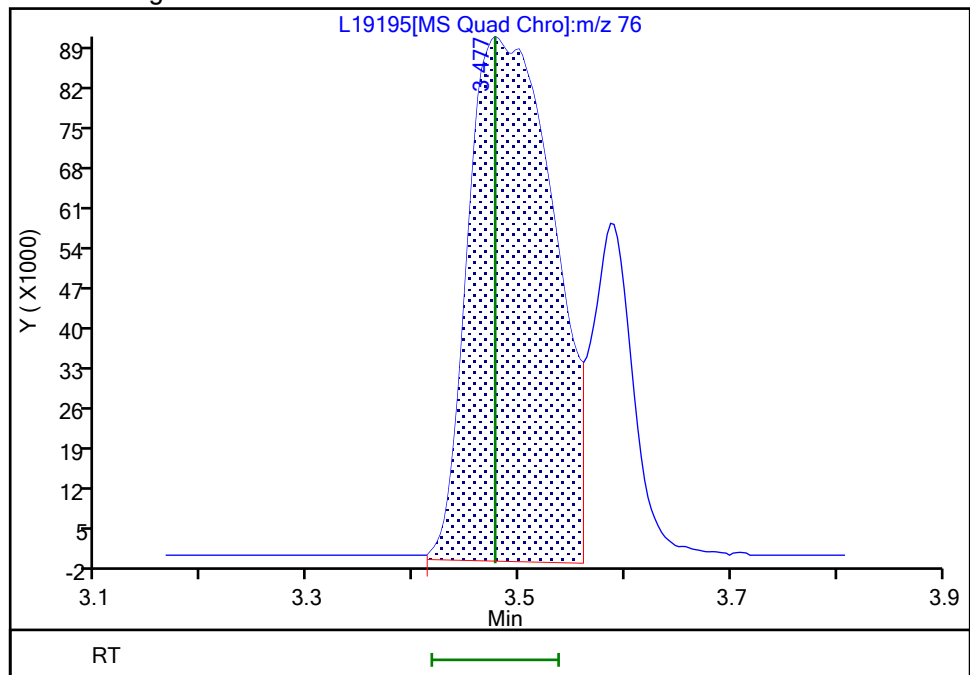
RT: 3.48  
Area: 237903  
Amount: 13.551715  
Amount Units: ug/L

## Processing Integration Results



RT: 3.48  
Area: 517187  
Amount: 29.460624  
Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 16-Aug-2022 16:52:11

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19195.D

Injection Date: 16-Aug-2022 15:19:54

Instrument ID: HP5977L

Lims ID: LCS

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

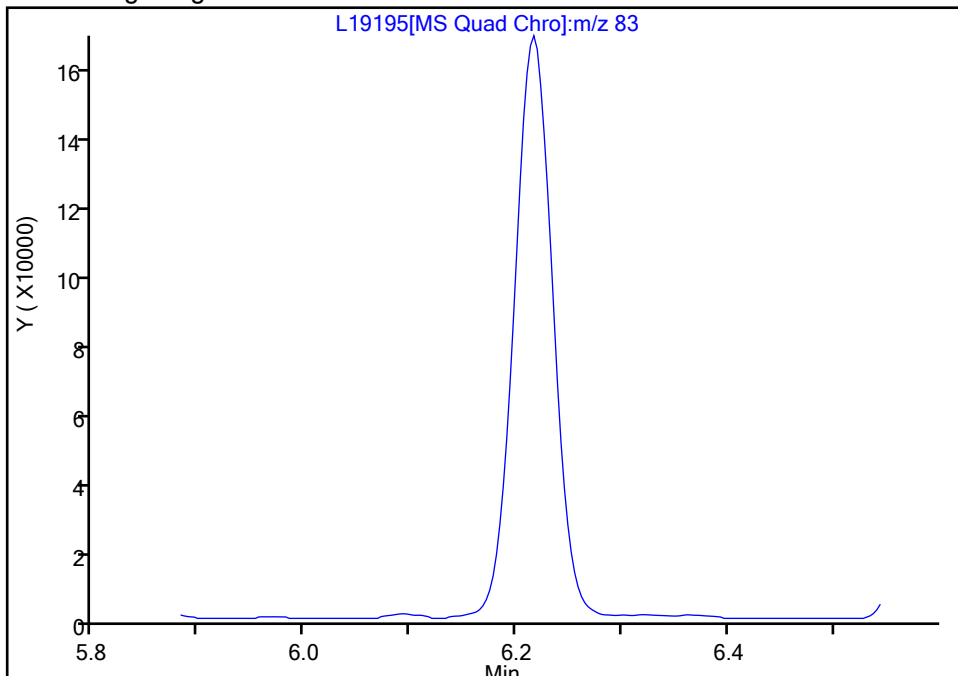
**76 Methylcyclohexane, CAS: 108-87-2**

Signal: 1

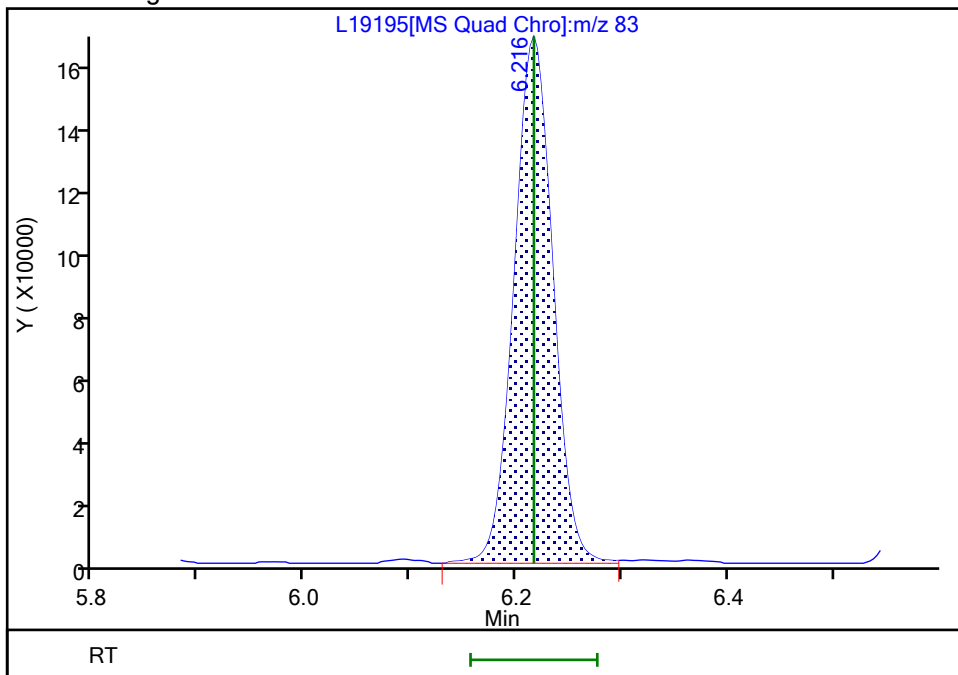
Not Detected

Expected RT: 6.22

## Processing Integration Results



## Manual Integration Results



RT: 6.22

Area: 414413

Amount: 31.248713

Amount Units: ug/L

Reviewer: LS5G, 16-Aug-2022 16:53:17

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19195.D

Injection Date: 16-Aug-2022 15:19:54

Instrument ID: HP5977L

Lims ID: LCS

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

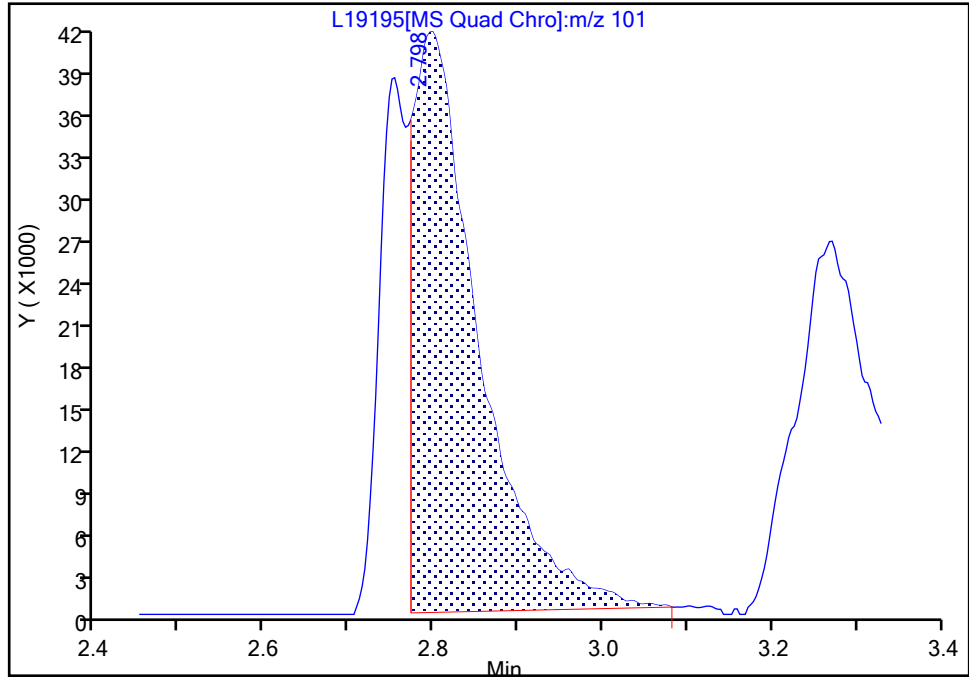
MS Quad

**21 Trichlorofluoromethane, CAS: 75-69-4**

Signal: 1

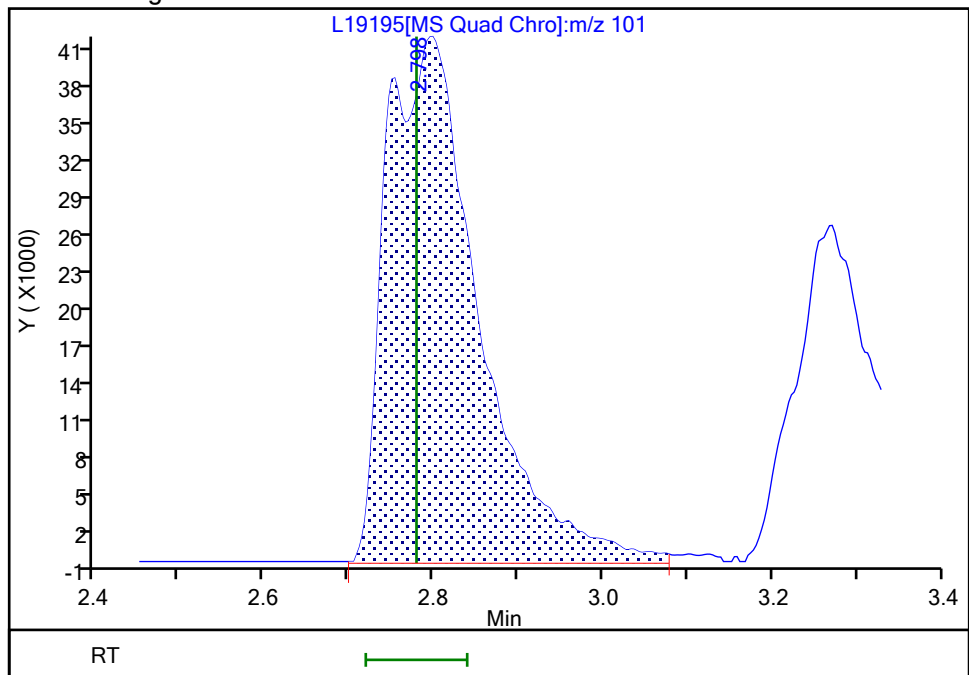
RT: 2.80  
Area: 224137  
Amount: 22.499489  
Amount Units: ug/L

## Processing Integration Results



RT: 2.80  
Area: 320457  
Amount: 32.168356  
Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 16-Aug-2022 16:50:18

Audit Action: Manually Integrated

Audit Reason: Poor chromatography



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                   |                                                 |
|-----------------------------------|-------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u> | Job No.: <u>480-200570-1</u>                    |
| SDG No.: _____                    |                                                 |
| Client Sample ID: _____           | Lab Sample ID: <u>LCS 480-637762/6</u>          |
| Matrix: <u>Water</u>              | Lab File ID: <u>L19228.D</u>                    |
| Analysis Method: <u>8260C</u>     | Date Collected: _____                           |
| Sample wt/vol: <u>5 (mL)</u>      | Date Analyzed: <u>08/17/2022 12:51</u>          |
| Soil Aliquot Vol: _____           | Dilution Factor: <u>1</u>                       |
| Soil Extract Vol.: _____          | GC Column: <u>ZB-624 (30) VOA ID: 0.25 (mm)</u> |
| Purge Volume: <u>5.0 (mL)</u>     | Heated Purge: (Y/N) <u>N</u> pH: _____          |
| % Moisture: _____ % Solids: _____ | Level: (low/med) <u>Low</u>                     |
| Analysis Batch No.: <u>637762</u> | Units: <u>ug/L</u>                              |

| CAS NO.    | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane                 | 28.9   |   | 1.0 | 0.82 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 22.6   |   | 1.0 | 0.21 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 24.5   |   | 1.0 | 0.23 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 32.6   |   | 1.0 | 0.31 |
| 75-34-3    | 1,1-Dichloroethane                    | 29.5   |   | 1.0 | 0.38 |
| 75-35-4    | 1,1-Dichloroethene                    | 29.7   |   | 1.0 | 0.29 |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 20.9   |   | 1.0 | 0.41 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 21.8   |   | 1.0 | 0.39 |
| 95-50-1    | 1,2-Dichlorobenzene                   | 22.4   |   | 1.0 | 0.79 |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 21.2   |   | 1.0 | 0.41 |
| 107-06-2   | 1,2-Dichloroethane                    | 27.5   |   | 1.0 | 0.21 |
| 78-87-5    | 1,2-Dichloropropane                   | 27.2   |   | 1.0 | 0.72 |
| 541-73-1   | 1,3-Dichlorobenzene                   | 23.1   |   | 1.0 | 0.78 |
| 106-46-7   | 1,4-Dichlorobenzene                   | 22.6   |   | 1.0 | 0.84 |
| 78-93-3    | 2-Butanone (MEK)                      | 222    |   | 10  | 1.3  |
| 591-78-6   | 2-Hexanone                            | 121    |   | 5.0 | 1.2  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 112    |   | 5.0 | 2.1  |
| 67-64-1    | Acetone                               | 168    |   | 10  | 3.0  |
| 71-43-2    | Benzene                               | 27.5   |   | 1.0 | 0.41 |
| 75-27-4    | Bromodichloromethane                  | 28.0   |   | 1.0 | 0.39 |
| 75-25-2    | Bromoform                             | 23.2   |   | 1.0 | 0.26 |
| 74-83-9    | Bromomethane                          | 29.3   |   | 1.0 | 0.69 |
| 75-15-0    | Carbon disulfide                      | 29.8   |   | 1.0 | 0.19 |
| 56-23-5    | Carbon tetrachloride                  | 29.3   |   | 1.0 | 0.27 |
| 108-90-7   | Chlorobenzene                         | 24.3   |   | 1.0 | 0.75 |
| 124-48-1   | Dibromochloromethane                  | 24.9   |   | 1.0 | 0.32 |
| 75-00-3    | Chloroethane                          | 30.0   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                            | 27.6   |   | 1.0 | 0.34 |
| 74-87-3    | Chloromethane                         | 26.4   |   | 1.0 | 0.35 |
| 156-59-2   | cis-1,2-Dichloroethene                | 27.6   |   | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene               | 29.3   |   | 1.0 | 0.36 |
| 110-82-7   | Cyclohexane                           | 27.7   |   | 1.0 | 0.18 |
| 75-71-8    | Dichlorodifluoromethane               | 26.9   |   | 1.0 | 0.68 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 480-637762/6

Matrix: Water Lab File ID: L19228.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5(mL) Date Analyzed: 08/17/2022 12:51

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637762 Units: ug/L

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL  |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4   | Ethylbenzene              | 24.7   |   | 1.0 | 0.74 |
| 106-93-4   | 1,2-Dibromoethane         | 23.7   |   | 1.0 | 0.73 |
| 98-82-8    | Isopropylbenzene          | 23.0   |   | 1.0 | 0.79 |
| 79-20-9    | Methyl acetate            | 49.9   |   | 2.5 | 1.3  |
| 1634-04-4  | Methyl tert-butyl ether   | 26.4   |   | 1.0 | 0.16 |
| 108-87-2   | Methylcyclohexane         | 29.4   |   | 1.0 | 0.16 |
| 75-09-2    | Methylene Chloride        | 28.1   |   | 1.0 | 0.44 |
| 100-42-5   | Styrene                   | 24.5   |   | 1.0 | 0.73 |
| 127-18-4   | Tetrachloroethene         | 24.5   |   | 1.0 | 0.36 |
| 108-88-3   | Toluene                   | 24.2   |   | 1.0 | 0.51 |
| 156-60-5   | trans-1,2-Dichloroethene  | 29.0   |   | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 26.1   |   | 1.0 | 0.37 |
| 79-01-6    | Trichloroethene           | 28.1   |   | 1.0 | 0.46 |
| 75-69-4    | Trichlorofluoromethane    | 31.1   |   | 1.0 | 0.88 |
| 75-01-4    | Vinyl chloride            | 25.7   |   | 1.0 | 0.90 |
| 1330-20-7  | Xylenes, Total            | 48.2   |   | 2.0 | 0.66 |
| 74-97-5    | Chlorobromomethane        | 27.6   |   | 1.0 | 0.87 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 104  |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 96   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19228.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 17-Aug-2022 12:51:04 ALS Bottle#: 0 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCS  
 Misc. Info.: 480-0107131-006  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 13:14:47 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 13:14:47

| Compound                           | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|------------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| * 1 Fluorobenzene (IS)             | 70  | 5.773     | 5.773         | 0.000         | 99  | 139744   | 25.0         | 25.0           |       |
| * 2 Chlorobenzene-d5               | 117 | 8.667     | 8.666         | 0.001         | 85  | 620601   | 25.0         | 25.0           |       |
| * 3 1,4-Dichlorobenzene-d4         | 152 | 11.062    | 11.062        | 0.000         | 93  | 351115   | 25.0         | 25.0           |       |
| \$ 4 Dibromofluoromethane (Surr)   | 113 | 5.223     | 5.226         | -0.003        | 77  | 178863   | 25.0         | 25.2           |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)  | 65  | 5.525     | 5.525         | 0.000         | 97  | 208400   | 25.0         | 25.9           |       |
| \$ 6 Toluene-d8 (Surr)             | 98  | 7.204     | 7.204         | 0.001         | 93  | 709444   | 25.0         | 22.9           |       |
| \$ 7 4-Bromofluorobenzene (Surr)   | 174 | 9.908     | 9.911         | -0.003        | 99  | 233917   | 25.0         | 24.1           |       |
| 10 Dichlorodifluoromethane         | 85  | 1.770     | 1.773         | -0.003        | 99  | 232885   | 25.0         | 26.9           |       |
| 9 Chlorodifluoromethane            | 51  | 1.802     | 1.805         | -0.003        | 97  | 201567   | 25.0         | 24.2           |       |
| 13 Chloromethane                   | 50  | 2.011     | 2.011         | 0.000         | 99  | 213753   | 25.0         | 26.4           |       |
| 14 Vinyl chloride                  | 62  | 2.107     | 2.114         | -0.007        | 97  | 197091   | 25.0         | 25.7           |       |
| 15 Butadiene                       | 54  | 2.136     | 2.139         | -0.003        | 88  | 180180   | 25.0         | 29.0           |       |
| 18 Bromomethane                    | 94  | 2.477     | 2.477         | 0.000         | 91  | 166922   | 25.0         | 29.3           |       |
| 19 Chloroethane                    | 64  | 2.561     | 2.564         | -0.003        | 99  | 141285   | 25.0         | 30.0           |       |
| 20 Dichlorofluoromethane           | 67  | 2.770     | 2.770         | 0.000         | 96  | 339984   | 25.0         | 31.9           |       |
| 21 Trichlorofluoromethane          | 101 | 2.779     | 2.782         | -0.003        | 96  | 310048   | 25.0         | 31.1           |       |
| 26 Ethyl ether                     | 59  | 3.030     | 3.030         | 0.000         | 92  | 178633   | 25.0         | 27.3           |       |
| 11 Ethanol                         | 45  | 3.030     | 3.030         | -0.016        | 0   | 155618   | 1000.0       | 3030.9         | a     |
| 12 Propene oxide                   | 58  | 3.127     | 3.127         | -0.003        | 0   | 306364   | NC           | NC             | a     |
| 28 Acrolein                        | 56  | 3.217     | 3.213         | 0.004         | 100 | 127264   | 125.0        | 96.7           |       |
| 30 1,1-Dichloroethene              | 96  | 3.252     | 3.252         | 0.000         | 97  | 188368   | 25.0         | 29.7           |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoro | 101 | 3.246     | 3.252         | -0.006        | 90  | 211473   | 25.0         | 32.6           |       |
| 31 Acetone                         | 43  | 3.358     | 3.358         | 0.000         | 100 | 512496   | 125.0        | 167.7          |       |
| 33 Iodomethane                     | 142 | 3.422     | 3.419         | 0.003         | 98  | 328341   | 25.0         | 28.3           |       |
| 35 Carbon disulfide                | 76  | 3.474     | 3.471         | 0.003         | 99  | 524068   | 25.0         | 29.8           |       |
| 16 Isopropyl alcohol               | 45  | 3.500     | 3.499         | 0.001         | 98  | 106001   | 250.0        | 189.7          |       |
| 37 3-Chloro-1-propene              | 41  | 3.586     | 3.590         | -0.004        | 86  | 259592   | 25.0         | 26.1           |       |
| 38 Methyl acetate                  | 43  | 3.615     | 3.615         | 0.000         | 97  | 435674   | 50.0         | 49.9           |       |
| 17 Acetonitrile                    | 40  | 3.651     | 3.651         | 0.001         | 95  | 199165   | 250.0        | 325.8          | a     |
| 39 Methylene Chloride              | 84  | 3.718     | 3.718         | 0.000         | 86  | 229176   | 25.0         | 28.1           |       |
| 40 2-Methyl-2-propanol             | 59  | 3.840     | 3.844         | -0.004        | 99  | 436792   | 250.0        | 326.3          |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 41 Methyl tert-butyl ether     | 73  | 3.902     | 3.901         | 0.001         | 95 | 661210   | 25.0         | 26.4           |       |
| 42 trans-1,2-Dichloroethene    | 96  | 3.927     | 3.927         | 0.000         | 97 | 225399   | 25.0         | 29.0           |       |
| 44 Acrylonitrile               | 53  | 3.972     | 3.972         | 0.000         | 99 | 1074536  | 250.0        | 251.1          |       |
| 47 Hexane                      | 57  | 4.085     | 4.085         | 0.000         | 90 | 297172   | 25.0         | 28.7           |       |
| 22 Isopropyl ether             | 45  | 4.281     | 4.281         | 0.000         | 89 | 537787   | 25.0         | 24.4           | a     |
| 23 Halothane                   | 117 | 4.291     | 4.294         | -0.003        | 86 | 150785   | 25.0         | 27.7           |       |
| 50 1,1-Dichloroethane          | 63  | 4.307     | 4.307         | 0.000         | 95 | 374506   | 25.0         | 29.5           |       |
| 49 Vinyl acetate               | 43  | 4.323     | 4.323         | 0.000         | 98 | 1260732  | 50.0         | 77.4           |       |
| 24 2-Chloro-1,3-butadiene      | 53  | 4.358     | 4.361         | -0.003        | 88 | 279379   | 25.0         | 26.9           |       |
| 25 1,1-Dimethoxyethane         | 75  | 4.361     | 4.364         | -0.003        | 96 | 258641   | 125.0        | 94.2           |       |
| 27 Tert-butyl ethyl ether      | 59  | 4.590     | 4.589         | 0.001         | 97 | 573447   | 25.0         | 25.2           |       |
| 56 2,2-Dichloropropane         | 77  | 4.783     | 4.779         | 0.004         | 84 | 246828   | 25.0         | 32.3           |       |
| 58 cis-1,2-Dichloroethene      | 96  | 4.808     | 4.808         | 0.000         | 84 | 241593   | 25.0         | 27.6           |       |
| 57 2-Butanone (MEK)            | 43  | 4.824     | 4.824         | 0.000         | 98 | 1275656  | 125.0        | 222.1          |       |
| 32 Ethyl acetate               | 43  | 4.824     | 4.824         | -0.003        | 97 | 1276854  | 50.0         | 117.5          | a     |
| 34 Propionitrile               | 54  | 4.927     | 4.927         | 0.000         | 99 | 419239   | 250.0        | 242.6          |       |
| 36 Methacrylonitrile           | 41  | 5.027     | 5.027         | 0.000         | 94 | 1622402  | 250.0        | 258.2          |       |
| 60 Chlorobromomethane          | 128 | 5.027     | 5.030         | -0.003        | 76 | 128055   | 25.0         | 27.6           |       |
| 61 Tetrahydrofuran             | 42  | 5.049     | 5.056         | -0.007        | 84 | 236213   | 50.0         | 58.6           |       |
| 62 Chloroform                  | 83  | 5.078     | 5.078         | 0.000         | 92 | 379046   | 25.0         | 27.6           |       |
| 64 1,1,1-Trichloroethane       | 97  | 5.207     | 5.207         | 0.000         | 98 | 319909   | 25.0         | 28.9           |       |
| 65 Cyclohexane                 | 56  | 5.223     | 5.223         | 0.000         | 88 | 330058   | 25.0         | 27.7           |       |
| 66 Carbon tetrachloride        | 117 | 5.339     | 5.339         | 0.000         | 96 | 269540   | 25.0         | 29.3           |       |
| 67 1,1-Dichloropropene         | 75  | 5.342     | 5.339         | 0.003         | 98 | 299667   | 25.0         | 28.6           |       |
| 69 Isobutyl alcohol            | 43  | 5.477     | 5.474         | 0.003         | 95 | 469624   | 625.0        | 761.4          |       |
| 43 Isooctane                   | 57  | 5.500     | 5.500         | -0.002        | 89 | 684151   | 25.0         | 26.3           | a     |
| 70 Benzene                     | 78  | 5.538     | 5.538         | 0.000         | 96 | 871158   | 25.0         | 27.5           |       |
| 45 t-Amyl alcohol              | 59  | 5.545     | 5.545         | 0.001         | 96 | 378935   | 250.0        | 256.4          |       |
| 46 Tert-amyl methyl ether      | 73  | 5.570     | 5.570         | 0.000         | 97 | 854326   | 25.0         | 26.3           |       |
| 72 1,2-Dichloroethane          | 62  | 5.593     | 5.593         | 0.000         | 97 | 300178   | 25.0         | 27.5           |       |
| 73 n-Heptane                   | 43  | 5.647     | 5.647         | 0.000         | 88 | 319241   | 25.0         | 27.0           |       |
| 48 1,4-Difluorobenzene         | 114 | 5.856     | 5.856         | 0.000         | 93 | 606843   | 25.0         | 26.4           |       |
| 51 2,4,4-Trimethyl-1-pentene   | 55  | 5.966     | 5.966         | 0.000         | 97 | 122520   | NC           | NC             |       |
| 52 n-Butanol                   | 56  | 6.049     | 6.049         | 0.000         | 85 | 233117   | 625.0        | 719.3          |       |
| 75 Trichloroethene             | 95  | 6.091     | 6.095         | -0.003        | 97 | 231571   | 25.0         | 28.1           |       |
| 53 Ethyl acrylate              | 55  | 6.165     | 6.165         | 0.000         | 99 | 663818   | 25.0         | 27.6           |       |
| 54 2,4,4-Trimethyl-2-pentene   | 97  | 6.168     | 6.168         | 0.000         | 90 | 462697   | NC           | NC             |       |
| 76 Methylcyclohexane           | 83  | 6.217     | 6.217         | 0.001         | 81 | 390525   | 25.0         | 29.4           | a     |
| 77 1,2-Dichloropropane         | 63  | 6.329     | 6.329         | 0.000         | 91 | 204669   | 25.0         | 27.2           |       |
| 55 Methyl methacrylate         | 41  | 6.368     | 6.368         | 0.001         | 84 | 505081   | 50.0         | 64.2           |       |
| 81 1,4-Dioxane                 | 88  | 6.451     | 6.451         | 0.000         | 92 | 66973    | 500.0        | 567.4          |       |
| 82 Dibromomethane              | 93  | 6.464     | 6.464         | 0.000         | 95 | 143186   | 25.0         | 26.8           |       |
| 83 Dichlorobromomethane        | 83  | 6.586     | 6.587         | 0.000         | 99 | 257860   | 25.0         | 28.0           |       |
| 84 2-Chloroethyl vinyl ether   | 63  | 6.821     | 6.818         | 0.003         | 82 | 156849   | 25.0         | 25.8           |       |
| 59 2-Nitropropane              | 43  | 6.821     | 6.824         | -0.003        | 88 | 225222   | 50.0         | 79.0           |       |
| 63 Epichlorohydrin             | 57  | 6.937     | 6.937         | 0.000         | 97 | 342825   | 250.0        | 250.3          |       |
| 85 cis-1,3-Dichloropropene     | 75  | 6.979     | 6.982         | -0.003        | 96 | 358126   | 25.0         | 29.3           |       |
| 87 4-Methyl-2-pentanone (MIBK) | 43  | 7.098     | 7.098         | 0.001         | 94 | 1395200  | 125.0        | 111.8          |       |
| 88 Toluene                     | 92  | 7.268     | 7.268         | 0.000         | 99 | 553176   | 25.0         | 24.2           |       |
| 91 trans-1,3-Dichloropropene   | 75  | 7.516     | 7.516         | 0.001         | 97 | 326813   | 25.0         | 26.1           |       |
| 90 Ethyl methacrylate          | 69  | 7.525     | 7.525         | 0.000         | 88 | 321831   | 25.0         | 24.6           |       |
| 93 1,1,2-Trichloroethane       | 83  | 7.712     | 7.715         | -0.003        | 91 | 175112   | 25.0         | 24.5           |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 94 Tetrachloroethene            | 166 | 7.792     | 7.792         | 0.000         | 97 | 249550   | 25.0         | 24.5           |       |
| 95 1,3-Dichloropropane          | 76  | 7.879     | 7.879         | 0.000         | 96 | 369452   | 25.0         | 24.1           |       |
| 96 2-Hexanone                   | 43  | 7.908     | 7.908         | 0.000         | 94 | 1072201  | 125.0        | 121.3          |       |
| 74 n-Butyl acetate              | 43  | 7.988     | 7.988         | 0.000         | 97 | 377002   | 25.0         | 24.6           |       |
| 98 Chlorodibromomethane         | 129 | 8.120     | 8.120         | 0.000         | 89 | 196257   | 25.0         | 24.9           |       |
| 101 Ethylene Dibromide          | 107 | 8.242     | 8.242         | 0.000         | 98 | 222613   | 25.0         | 23.7           |       |
| 78 1-Chlorohexane               | 55  | 8.602     | 8.602         | 0.000         | 96 | 175518   | 25.0         | 25.1           |       |
| 79 3-Chlorobenzotrifluoride     | 180 | 8.609     | 8.612         | -0.003        | 92 | 303247   | 25.0         | 22.8           |       |
| 80 4-Chlorobenzotrifluoride     | 180 | 8.670     | 8.670         | 0.000         | 95 | 284490   | 25.0         | 22.8           |       |
| 103 Chlorobenzene               | 112 | 8.696     | 8.696         | 0.001         | 97 | 627317   | 25.0         | 24.3           |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.763         | 0.003         | 98 | 1020056  | 25.0         | 24.7           |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.782     | 8.779         | 0.003         | 95 | 218105   | 25.0         | 25.8           |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 397945   | 25.0         | 24.3           |       |
| 107 o-Xylene                    | 106 | 9.313     | 9.313         | 0.000         | 96 | 384984   | 25.0         | 23.9           |       |
| 109 Styrene                     | 104 | 9.339     | 9.342         | -0.003        | 94 | 656176   | 25.0         | 24.5           |       |
| 86 2-Chlorobenzotrifluoride     | 180 | 9.602     | 9.602         | 0.000         | 96 | 296575   | 25.0         | 21.2           |       |
| 110 Bromoform                   | 173 | 9.615     | 9.615         | 0.000         | 96 | 126080   | 25.0         | 23.2           |       |
| 111 Isopropylbenzene            | 105 | 9.686     | 9.686         | 0.000         | 95 | 1030237  | 25.0         | 23.0           |       |
| 89 Cyclohexanone                | 55  | 9.905     | 9.905         | 0.001         | 88 | 110405   | 250.0        | 226.9          |       |
| 113 Bromobenzene                | 156 | 10.081    | 10.082        | 0.000         | 91 | 263740   | 25.0         | 22.5           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.094    | 10.094        | 0.000         | 94 | 324558   | 25.0         | 22.6           |       |
| 114 N-Propylbenzene             | 91  | 10.130    | 10.130        | 0.000         | 99 | 1232517  | 25.0         | 23.7           |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.143    | 10.139        | 0.004         | 75 | 86800    | 25.0         | 22.3           |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.146    | 10.149        | -0.003        | 85 | 110712   | 25.0         | 21.6           |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 97 | 255172   | 25.0         | 23.6           |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.300        | 0.003         | 94 | 863621   | 25.0         | 23.5           |       |
| 92 3-Chlorotoluene              | 126 | 10.319    | 10.319        | 0.000         | 97 | 245498   | 25.0         | 23.4           |       |
| 119 4-Chlorotoluene             | 91  | 10.368    | 10.368        | 0.001         | 97 | 759067   | 25.0         | 23.6           |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 90 | 196844   | 25.0         | 23.1           |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.686    | 10.686        | 0.000         | 97 | 884784   | 25.0         | 23.4           |       |
| 97 Pentachloroethane            | 167 | 10.708    | 10.708        | 0.000         | 0  | 129514   | 25.0         | 24.9           |       |
| 122 sec-Butylbenzene            | 105 | 10.840    | 10.840        | 0.000         | 94 | 1102867  | 25.0         | 23.2           |       |
| 123 4-Isopropyltoluene          | 119 | 10.972    | 10.972        | 0.000         | 97 | 956774   | 25.0         | 23.3           |       |
| 124 1,3-Dichlorobenzene         | 146 | 11.001    | 11.001        | 0.000         | 98 | 518307   | 25.0         | 23.1           |       |
| 99 Dicyclopentadiene            | 66  | 11.069    | 11.069        | 0.001         | 96 | 935614   | 25.0         | 21.2           |       |
| 126 1,4-Dichlorobenzene         | 146 | 11.085    | 11.085        | 0.001         | 94 | 522184   | 25.0         | 22.6           |       |
| 100 1,2,3-Trimethylbenzene      | 105 | 11.097    | 11.101        | -0.003        | 98 | 846568   | 25.0         | 22.6           |       |
| 102 Benzyl chloride             | 126 | 11.223    | 11.223        | 0.000         | 98 | 115086   | 25.0         | 26.8           |       |
| 127 n-Butylbenzene              | 91  | 11.355    | 11.355        | 0.000         | 98 | 869286   | 25.0         | 23.8           |       |
| 128 1,2-Dichlorobenzene         | 146 | 11.435    | 11.435        | 0.000         | 99 | 496210   | 25.0         | 22.4           |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  | 12.136    | 12.136        | 0.000         | 91 | 63664    | 25.0         | 21.8           |       |
| 108 1,3,5-Trichlorobenzene      | 180 | 12.252    | 12.252        | 0.000         | 98 | 343969   | 25.0         | 20.9           |       |
| 130 1,2,4-Trichlorobenzene      | 180 | 12.760    | 12.760        | 0.000         | 94 | 348438   | 25.0         | 20.9           | M     |
| 131 Hexachlorobutadiene         | 225 | 12.847    | 12.850        | -0.003        | 96 | 132210   | 25.0         | 18.3           |       |
| 132 Naphthalene                 | 128 | 12.975    | 12.975        | 0.000         | 97 | 1085907  | 25.0         | 21.2           |       |
| 133 1,2,3-Trichlorobenzene      | 180 | 13.175    | 13.178        | -0.003        | 97 | 334616   | 25.0         | 21.2           |       |
| 125 2-Methylnaphthalene         | 142 | 13.972    | 13.972        | 0.000         | 93 | 631776   | 25.0         | 19.4           |       |

**QC Flag Legend**

## Processing Flags

NC - Not Calibrated

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

|                     |                     |           |             |
|---------------------|---------------------|-----------|-------------|
| 8260 CORP mix_00227 | Amount Added: 12.50 | Units: uL |             |
| GAS CORP mix_00525  | Amount Added: 12.50 | Units: uL |             |
| ADD CORP mix_00127  | Amount Added: 12.50 | Units: uL |             |
| 3_MCP_Add_WRK_00364 | Amount Added: 12.50 | Units: uL |             |
| L_8260_SURR_00036   | Amount Added: 2.00  | Units: uL | Run Reagent |
| L_8260_IS_00038     | Amount Added: 2.00  | Units: uL | Run Reagent |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19228.D

Injection Date: 17-Aug-2022 12:51:04

Instrument ID: HP5977L

Lims ID: LCS

Client ID:

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 6

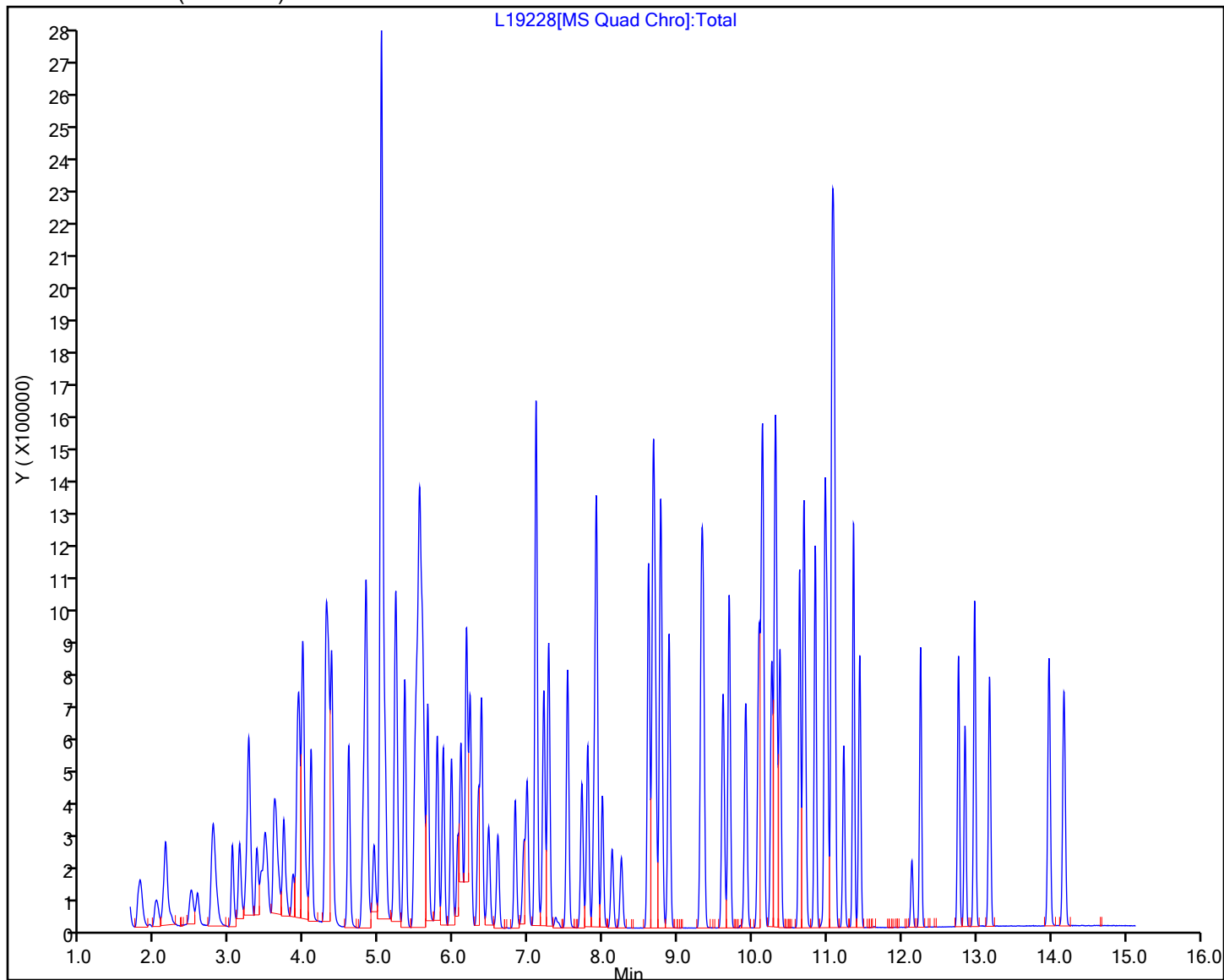
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19228.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 17-Aug-2022 12:51:04 ALS Bottle#: 0 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCS  
 Misc. Info.: 480-0107131-006  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 13:14:47 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 13:14:47

| Compound                          | Amount Added | Amount Recovered | % Rec. |
|-----------------------------------|--------------|------------------|--------|
| \$ 4 Dibromofluoromethane (Surr)  | 25.0         | 25.2             | 100.83 |
| \$ 5 1,2-Dichloroethane-d4 (Surr) | 25.0         | 25.9             | 103.69 |
| \$ 6 Toluene-d8 (Surr)            | 25.0         | 22.9             | 91.60  |
| \$ 7 4-Bromofluorobenzene (Surr)  | 25.0         | 24.1             | 96.50  |



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19228.D

Injection Date: 17-Aug-2022 12:51:04

Instrument ID: HP5977L

Lims ID: LCS

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

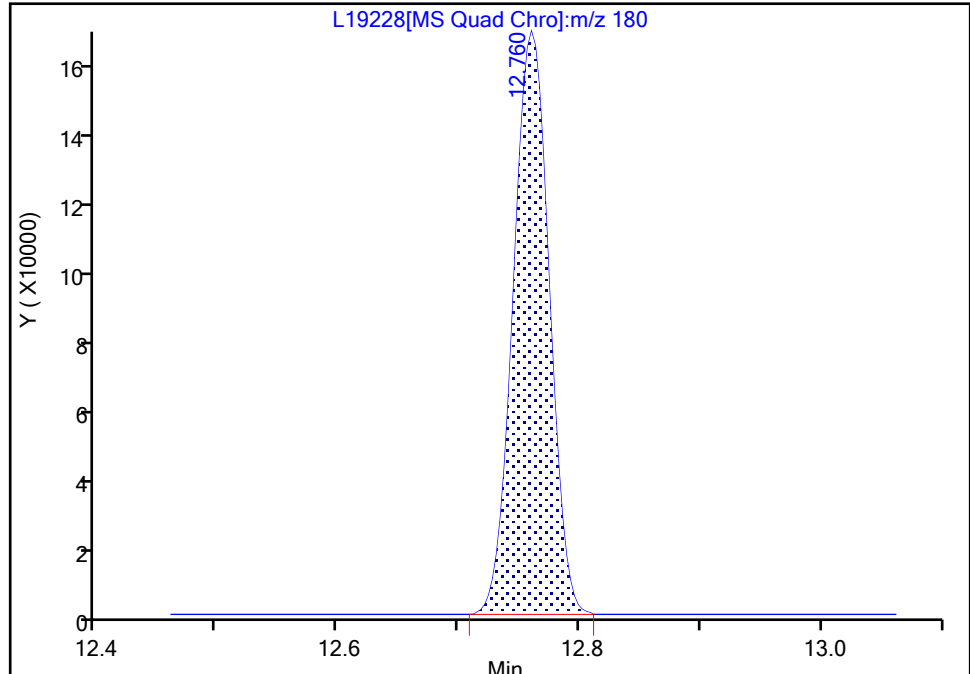
MS Quad

**130 1,2,4-Trichlorobenzene, CAS: 120-82-1**

Signal: 1

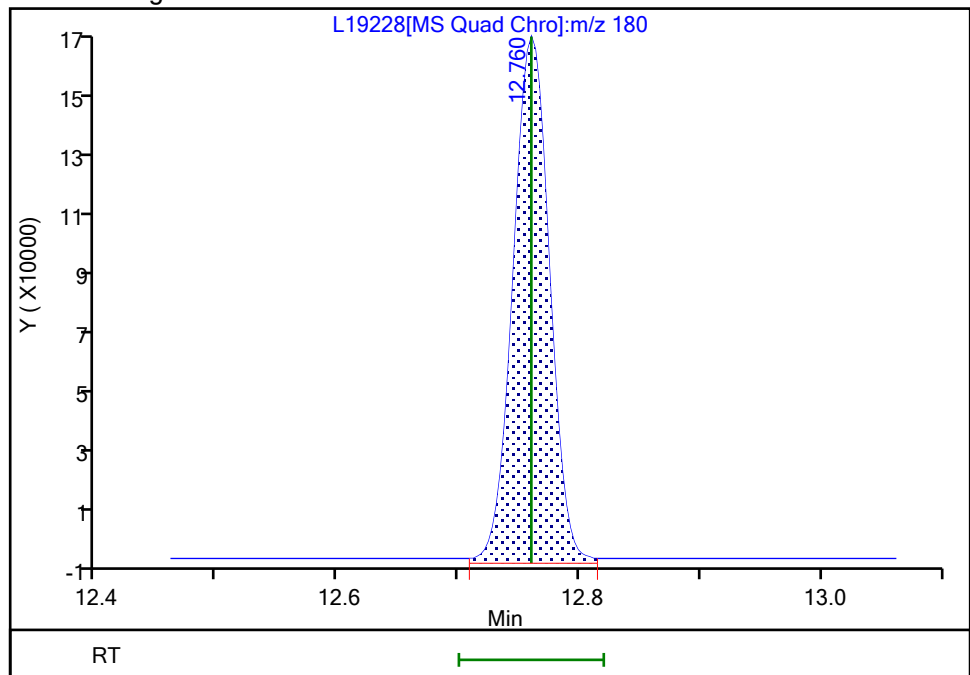
RT: 12.76  
Area: 338561  
Amount: 20.345748  
Amount Units: ug/L

## Processing Integration Results



RT: 12.76  
Area: 348438  
Amount: 20.939304  
Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 17-Aug-2022 13:14:23

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19228.D

Injection Date: 17-Aug-2022 12:51:04

Instrument ID: HP5977L

Lims ID: LCS

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

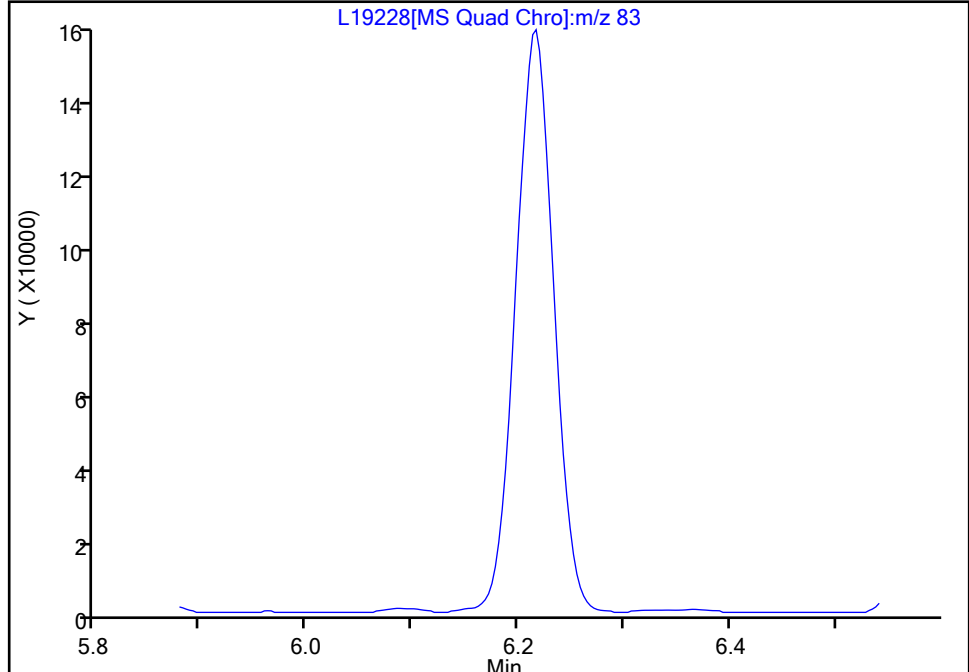
**76 Methylcyclohexane, CAS: 108-87-2**

Signal: 1

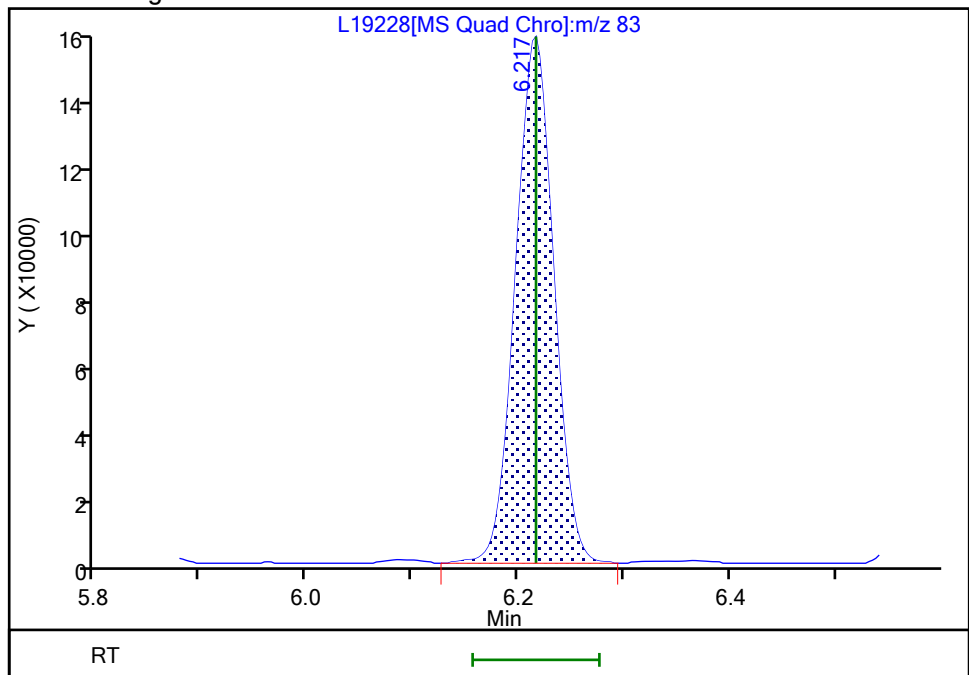
Not Detected

Expected RT: 6.22

## Processing Integration Results



## Manual Integration Results



RT: 6.22  
Area: 390525  
Amount: 29.404245  
Amount Units: ug/L

Reviewer: LS5G, 17-Aug-2022 13:13:17

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                   |                                                 |
|-----------------------------------|-------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u> | Job No.: <u>480-200570-1</u>                    |
| SDG No.: _____                    |                                                 |
| Client Sample ID: _____           | Lab Sample ID: <u>LCSD 480-637640/7</u>         |
| Matrix: <u>Water</u>              | Lab File ID: <u>L19196.D</u>                    |
| Analysis Method: <u>8260C</u>     | Date Collected: _____                           |
| Sample wt/vol: <u>5 (mL)</u>      | Date Analyzed: <u>08/16/2022 15:43</u>          |
| Soil Aliquot Vol: _____           | Dilution Factor: <u>1</u>                       |
| Soil Extract Vol.: _____          | GC Column: <u>ZB-624 (30) VOA ID: 0.25 (mm)</u> |
| Purge Volume: <u>5.0 (mL)</u>     | Heated Purge: (Y/N) <u>N</u> pH: _____          |
| % Moisture: _____ % Solids: _____ | Level: (low/med) <u>Low</u>                     |
| Analysis Batch No.: <u>637640</u> | Units: <u>ug/L</u>                              |

| CAS NO.    | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane                 | 28.6   |   | 1.0 | 0.82 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 24.9   |   | 1.0 | 0.21 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 25.2   |   | 1.0 | 0.23 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 31.2   |   | 1.0 | 0.31 |
| 75-34-3    | 1,1-Dichloroethane                    | 29.6   |   | 1.0 | 0.38 |
| 75-35-4    | 1,1-Dichloroethene                    | 29.5   |   | 1.0 | 0.29 |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 21.5   |   | 1.0 | 0.41 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 23.5   |   | 1.0 | 0.39 |
| 95-50-1    | 1,2-Dichlorobenzene                   | 23.5   |   | 1.0 | 0.79 |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 22.4   |   | 1.0 | 0.41 |
| 107-06-2   | 1,2-Dichloroethane                    | 27.7   |   | 1.0 | 0.21 |
| 78-87-5    | 1,2-Dichloropropane                   | 27.6   |   | 1.0 | 0.72 |
| 541-73-1   | 1,3-Dichlorobenzene                   | 24.2   |   | 1.0 | 0.78 |
| 106-46-7   | 1,4-Dichlorobenzene                   | 24.0   |   | 1.0 | 0.84 |
| 78-93-3    | 2-Butanone (MEK)                      | 235    |   | 10  | 1.3  |
| 591-78-6   | 2-Hexanone                            | 127    |   | 5.0 | 1.2  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 116    |   | 5.0 | 2.1  |
| 67-64-1    | Acetone                               | 164    |   | 10  | 3.0  |
| 71-43-2    | Benzene                               | 27.3   |   | 1.0 | 0.41 |
| 75-27-4    | Bromodichloromethane                  | 28.2   |   | 1.0 | 0.39 |
| 75-25-2    | Bromoform                             | 23.8   |   | 1.0 | 0.26 |
| 74-83-9    | Bromomethane                          | 27.3   |   | 1.0 | 0.69 |
| 75-15-0    | Carbon disulfide                      | 29.2   |   | 1.0 | 0.19 |
| 56-23-5    | Carbon tetrachloride                  | 29.2   |   | 1.0 | 0.27 |
| 108-90-7   | Chlorobenzene                         | 24.5   |   | 1.0 | 0.75 |
| 124-48-1   | Dibromochloromethane                  | 25.5   |   | 1.0 | 0.32 |
| 75-00-3    | Chloroethane                          | 27.3   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                            | 27.3   |   | 1.0 | 0.34 |
| 74-87-3    | Chloromethane                         | 26.3   |   | 1.0 | 0.35 |
| 156-59-2   | cis-1,2-Dichloroethene                | 27.7   |   | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene               | 29.3   |   | 1.0 | 0.36 |
| 110-82-7   | Cyclohexane                           | 27.8   |   | 1.0 | 0.18 |
| 75-71-8    | Dichlorodifluoromethane               | 27.0   |   | 1.0 | 0.68 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 480-637640/7

Matrix: Water Lab File ID: L19196.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 08/16/2022 15:43

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (30) VOA ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637640 Units: ug/L

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL  |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4   | Ethylbenzene              | 24.8   |   | 1.0 | 0.74 |
| 106-93-4   | 1,2-Dibromoethane         | 24.7   |   | 1.0 | 0.73 |
| 98-82-8    | Isopropylbenzene          | 24.5   |   | 1.0 | 0.79 |
| 79-20-9    | Methyl acetate            | 51.8   |   | 2.5 | 1.3  |
| 1634-04-4  | Methyl tert-butyl ether   | 27.0   |   | 1.0 | 0.16 |
| 108-87-2   | Methylcyclohexane         | 29.2   |   | 1.0 | 0.16 |
| 75-09-2    | Methylene Chloride        | 27.9   |   | 1.0 | 0.44 |
| 100-42-5   | Styrene                   | 24.7   |   | 1.0 | 0.73 |
| 127-18-4   | Tetrachloroethene         | 24.6   |   | 1.0 | 0.36 |
| 108-88-3   | Toluene                   | 24.3   |   | 1.0 | 0.51 |
| 156-60-5   | trans-1,2-Dichloroethene  | 28.3   |   | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 26.8   |   | 1.0 | 0.37 |
| 79-01-6    | Trichloroethene           | 27.6   |   | 1.0 | 0.46 |
| 75-69-4    | Trichlorofluoromethane    | 29.8   |   | 1.0 | 0.88 |
| 75-01-4    | Vinyl chloride            | 24.8   |   | 1.0 | 0.90 |
| 1330-20-7  | Xylenes, Total            | 48.5   |   | 2.0 | 0.66 |
| 74-97-5    | Chlorobromomethane        | 27.9   |   | 1.0 | 0.87 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 107  |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 97   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 104  |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19196.D  
 Lims ID: LCSD  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 16-Aug-2022 15:43:41 ALS Bottle#: 0 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCSD  
 Misc. Info.: 480-0107114-007  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 16-Aug-2022 16:56:12 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1631

First Level Reviewer: LS5G

Date: 16-Aug-2022 16:56:21

| Compound                                 | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|------------------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776     | 5.773         | 0.003         | 99  | 144431   | 25.0         | 25.0           |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.667     | 8.666         | 0.001         | 85  | 633403   | 25.0         | 25.0           |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.062    | 11.062        | 0.000         | 96  | 335374   | 25.0         | 25.0           |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.226     | 5.226         | 0.000         | 93  | 190331   | 25.0         | 26.0           |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.525     | 5.525         | 0.000         | 95  | 221483   | 25.0         | 26.7           |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.204     | 7.203         | 0.001         | 92  | 750150   | 25.0         | 23.7           |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911     | 9.911         | 0.000         | 98  | 240822   | 25.0         | 24.3           |       |
| 10 Dichlorodifluoromethane               | 85  | 1.776     | 1.770         | 0.006         | 99  | 241681   | 25.0         | 27.0           |       |
| 9 Chlorodifluoromethane                  | 51  | 1.805     | 1.808         | -0.003        | 97  | 202874   | 25.0         | 23.5           |       |
| 13 Chloromethane                         | 50  | 2.017     | 2.004         | 0.013         | 99  | 219591   | 25.0         | 26.3           |       |
| 14 Vinyl chloride                        | 62  | 2.117     | 2.107         | 0.010         | 98  | 196561   | 25.0         | 24.8           |       |
| 15 Butadiene                             | 54  | 2.146     | 2.136         | 0.010         | 89  | 192289   | 25.0         | 30.0           |       |
| 18 Bromomethane                          | 94  | 2.484     | 2.480         | 0.004         | 90  | 160517   | 25.0         | 27.3           |       |
| 19 Chloroethane                          | 64  | 2.567     | 2.564         | 0.003         | 98  | 132748   | 25.0         | 27.3           |       |
| 20 Dichlorofluoromethane                 | 67  | 2.776     | 2.773         | 0.003         | 97  | 331851   | 25.0         | 30.1           |       |
| 21 Trichlorofluoromethane                | 101 | 2.786     | 2.798         | 0.007         | 96  | 307237   | 25.0         | 29.8           |       |
| 26 Ethyl ether                           | 59  | 3.033     | 3.027         | 0.006         | 95  | 190220   | 25.0         | 28.2           |       |
| 11 Ethanol                               | 45  | 3.030     | 3.033         | -0.003        | 0   | 152426   | 1000.0       | 2872.4         |       |
| 12 Propene oxide                         | 58  | 3.130     | 3.130         | 0.000         | 0   | 321791   | NC           | NC             | a     |
| 28 Acrolein                              | 56  | 3.217     | 3.213         | 0.004         | 100 | 137883   | 125.0        | 101.4          |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.252     | 3.271         | 0.003         | 91  | 209265   | 25.0         | 31.2           |       |
| 30 1,1-Dichloroethene                    | 96  | 3.255     | 3.252         | 0.003         | 91  | 193339   | 25.0         | 29.5           |       |
| 31 Acetone                               | 43  | 3.358     | 3.358         | 0.000         | 100 | 518505   | 125.0        | 164.2          |       |
| 33 Iodomethane                           | 142 | 3.455     | 3.419         | 0.036         | 99  | 337238   | 25.0         | 28.1           |       |
| 35 Carbon disulfide                      | 76  | 3.484     | 3.477         | 0.007         | 99  | 530280   | 25.0         | 29.2           |       |
| 16 Isopropyl alcohol                     | 45  | 3.500     | 3.499         | 0.001         | 97  | 100398   | 250.0        | 173.9          |       |
| 37 3-Chloro-1-propene                    | 41  | 3.590     | 3.586         | 0.004         | 87  | 253545   | 25.0         | 24.7           |       |
| 38 Methyl acetate                        | 43  | 3.615     | 3.615         | 0.000         | 97  | 467307   | 50.0         | 51.8           |       |
| 17 Acetonitrile                          | 40  | 3.651     | 3.651         | 0.007         | 90  | 196665   | 250.0        | 311.3          | a     |
| 39 Methylene Chloride                    | 84  | 3.721     | 3.721         | 0.000         | 85  | 235026   | 25.0         | 27.9           |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.840     | 3.843         | -0.003        | 100 | 467195   | 250.0        | 337.7          |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 41 Methyl tert-butyl ether     | 73  | 3.902     | 3.901         | 0.001         | 93 | 699591   | 25.0         | 27.0           |       |
| 42 trans-1,2-Dichloroethene    | 96  | 3.927     | 3.927         | 0.000         | 97 | 227215   | 25.0         | 28.3           |       |
| 44 Acrylonitrile               | 53  | 3.975     | 3.972         | 0.003         | 98 | 1085993  | 250.0        | 245.5          |       |
| 47 Hexane                      | 57  | 4.088     | 4.085         | 0.003         | 89 | 300432   | 25.0         | 28.1           |       |
| 22 Isopropyl ether             | 45  | 4.281     | 4.281         | 0.000         | 90 | 556139   | 25.0         | 24.4           | a     |
| 23 Halothane                   | 117 | 4.291     | 4.290         | 0.001         | 90 | 150096   | 25.0         | 26.7           |       |
| 50 1,1-Dichloroethane          | 63  | 4.307     | 4.306         | 0.001         | 95 | 388040   | 25.0         | 29.6           |       |
| 49 Vinyl acetate               | 43  | 4.323     | 4.323         | 0.000         | 98 | 1354889  | 50.0         | 80.5           |       |
| 24 2-Chloro-1,3-butadiene      | 53  | 4.358     | 4.358         | 0.000         | 90 | 276255   | 25.0         | 25.7           |       |
| 25 1,1-Dimethoxyethane         | 75  | 4.365     | 4.361         | 0.004         | 94 | 285651   | 125.0        | 100.6          |       |
| 27 Tert-butyl ethyl ether      | 59  | 4.590     | 4.589         | 0.001         | 96 | 603921   | 25.0         | 25.7           |       |
| 56 2,2-Dichloropropane         | 77  | 4.786     | 4.782         | 0.004         | 85 | 251444   | 25.0         | 31.9           |       |
| 58 cis-1,2-Dichloroethene      | 96  | 4.808     | 4.808         | 0.000         | 80 | 250924   | 25.0         | 27.7           |       |
| 57 2-Butanone (MEK)            | 43  | 4.828     | 4.828         | 0.004         | 98 | 1394118  | 125.0        | 234.8          | a     |
| 32 Ethyl acetate               | 43  | 4.828     | 4.827         | 0.001         | 97 | 1393624  | 50.0         | 124.1          |       |
| 34 Propionitrile               | 54  | 4.927     | 4.927         | 0.000         | 99 | 471146   | 250.0        | 263.8          |       |
| 36 Methacrylonitrile           | 41  | 5.027     | 5.027         | 0.000         | 89 | 1704597  | 250.0        | 262.4          |       |
| 60 Chlorobromomethane          | 128 | 5.030     | 5.030         | 0.000         | 73 | 133984   | 25.0         | 27.9           |       |
| 61 Tetrahydrofuran             | 42  | 5.049     | 5.052         | -0.003        | 85 | 251511   | 50.0         | 60.4           |       |
| 62 Chloroform                  | 83  | 5.078     | 5.078         | 0.000         | 92 | 386372   | 25.0         | 27.3           |       |
| 64 1,1,1-Trichloroethane       | 97  | 5.210     | 5.207         | 0.003         | 98 | 327222   | 25.0         | 28.6           |       |
| 65 Cyclohexane                 | 56  | 5.226     | 5.223         | 0.003         | 86 | 342388   | 25.0         | 27.8           |       |
| 66 Carbon tetrachloride        | 117 | 5.339     | 5.339         | 0.000         | 96 | 278091   | 25.0         | 29.2           |       |
| 67 1,1-Dichloropropene         | 75  | 5.342     | 5.342         | 0.000         | 97 | 303547   | 25.0         | 28.1           |       |
| 69 Isobutyl alcohol            | 43  | 5.477     | 5.474         | 0.003         | 97 | 487420   | 625.0        | 764.6          |       |
| 43 Isooctane                   | 57  | 5.503     | 5.503         | 0.000         | 95 | 693999   | 25.0         | 25.8           | a     |
| 70 Benzene                     | 78  | 5.538     | 5.538         | 0.000         | 96 | 893128   | 25.0         | 27.3           |       |
| 45 t-Amyl alcohol              | 59  | 5.545     | 5.541         | 0.004         | 90 | 402625   | 250.0        | 263.6          |       |
| 46 Tert-amyl methyl ether      | 73  | 5.570     | 5.570         | 0.000         | 96 | 888034   | 25.0         | 26.5           |       |
| 72 1,2-Dichloroethane          | 62  | 5.593     | 5.593         | 0.000         | 98 | 312775   | 25.0         | 27.7           |       |
| 73 n-Heptane                   | 43  | 5.647     | 5.647         | 0.000         | 88 | 325046   | 25.0         | 26.6           |       |
| 48 1,4-Difluorobenzene         | 114 | 5.856     | 5.856         | 0.000         | 93 | 625004   | 25.0         | 26.3           |       |
| 51 2,4,4-Trimethyl-1-pentene   | 55  | 5.966     | 5.966         | 0.000         | 97 | 123492   | NC           | NC             |       |
| 52 n-Butanol                   | 56  | 6.049     | 6.049         | 0.000         | 85 | 214513   | 625.0        | 640.4          |       |
| 75 Trichloroethene             | 95  | 6.094     | 6.091         | 0.003         | 97 | 235415   | 25.0         | 27.6           |       |
| 53 Ethyl acrylate              | 55  | 6.165     | 6.165         | 0.000         | 97 | 700032   | 25.0         | 28.1           |       |
| 54 2,4,4-Trimethyl-2-pentene   | 97  | 6.172     | 6.171         | 0.001         | 90 | 466040   | NC           | NC             |       |
| 76 Methylcyclohexane           | 83  | 6.217     | 6.217         | 0.001         | 84 | 401440   | 25.0         | 29.2           | a     |
| 77 1,2-Dichloropropane         | 63  | 6.329     | 6.329         | 0.000         | 93 | 214155   | 25.0         | 27.6           |       |
| 55 Methyl methacrylate         | 41  | 6.371     | 6.368         | 0.003         | 85 | 522374   | 50.0         | 64.3           |       |
| 81 1,4-Dioxane                 | 88  | 6.451     | 6.451         | 0.000         | 91 | 73533    | 500.0        | 610.3          | M     |
| 82 Dibromomethane              | 93  | 6.464     | 6.464         | 0.000         | 96 | 152660   | 25.0         | 27.7           |       |
| 83 Dichlorobromomethane        | 83  | 6.586     | 6.586         | 0.000         | 99 | 268396   | 25.0         | 28.2           |       |
| 84 2-Chloroethyl vinyl ether   | 63  | 6.821     | 6.821         | 0.000         | 81 | 169503   | 25.0         | 27.0           |       |
| 59 2-Nitropropane              | 43  | 6.821     | 6.824         | -0.003        | 84 | 241926   | 50.0         | 88.8           |       |
| 63 Epichlorohydrin             | 57  | 6.937     | 6.933         | 0.004         | 96 | 364410   | 250.0        | 257.4          |       |
| 85 cis-1,3-Dichloropropene     | 75  | 6.982     | 6.982         | 0.000         | 96 | 370358   | 25.0         | 29.3           |       |
| 87 4-Methyl-2-pentanone (MIBK) | 43  | 7.101     | 7.097         | 0.004         | 94 | 1480475  | 125.0        | 116.3          |       |
| 88 Toluene                     | 92  | 7.268     | 7.268         | 0.000         | 98 | 565498   | 25.0         | 24.3           |       |
| 91 trans-1,3-Dichloropropene   | 75  | 7.519     | 7.519         | 0.000         | 97 | 342653   | 25.0         | 26.8           |       |
| 90 Ethyl methacrylate          | 69  | 7.525     | 7.525         | 0.000         | 87 | 341666   | 25.0         | 25.6           |       |
| 93 1,1,2-Trichloroethane       | 83  | 7.715     | 7.712         | 0.003         | 90 | 183830   | 25.0         | 25.2           |       |

| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 94 Tetrachloroethene            | 166 | 7.792     | 7.792         | 0.000         | 97 | 255752   | 25.0         | 24.6           |       |
| 95 1,3-Dichloropropane          | 76  | 7.879     | 7.879         | 0.000         | 94 | 387939   | 25.0         | 24.8           |       |
| 96 2-Hexanone                   | 43  | 7.908     | 7.908         | 0.000         | 94 | 1148564  | 125.0        | 127.3          |       |
| 74 n-Butyl acetate              | 43  | 7.988     | 7.988         | 0.000         | 97 | 397326   | 25.0         | 25.4           |       |
| 98 Chlorodibromomethane         | 129 | 8.120     | 8.117         | 0.003         | 90 | 205001   | 25.0         | 25.5           |       |
| 101 Ethylene Dibromide          | 107 | 8.245     | 8.242         | 0.003         | 98 | 236148   | 25.0         | 24.7           |       |
| 78 1-Chlorohexane               | 55  | 8.602     | 8.602         | 0.000         | 95 | 173275   | 25.0         | 24.3           |       |
| 79 3-Chlorobenzotrifluoride     | 180 | 8.612     | 8.612         | 0.000         | 92 | 301468   | 25.0         | 23.8           |       |
| 80 4-Chlorobenzotrifluoride     | 180 | 8.670     | 8.670         | 0.000         | 95 | 276843   | 25.0         | 23.2           |       |
| 103 Chlorobenzene               | 112 | 8.699     | 8.695         | 0.004         | 98 | 645495   | 25.0         | 24.5           |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.766         | 0.000         | 98 | 1046586  | 25.0         | 24.8           |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.779     | 8.779         | 0.000         | 95 | 219829   | 25.0         | 25.5           |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 409866   | 25.0         | 24.5           |       |
| 107 o-Xylene                    | 106 | 9.316     | 9.316         | 0.000         | 95 | 394430   | 25.0         | 24.0           |       |
| 109 Styrene                     | 104 | 9.342     | 9.342         | 0.000         | 95 | 674963   | 25.0         | 24.7           |       |
| 86 2-Chlorobenzotrifluoride     | 180 | 9.602     | 9.602         | 0.000         | 96 | 294187   | 25.0         | 22.0           |       |
| 110 Bromoform                   | 173 | 9.618     | 9.615         | 0.003         | 97 | 131638   | 25.0         | 23.8           |       |
| 111 Isopropylbenzene            | 105 | 9.686     | 9.686         | 0.000         | 95 | 1047464  | 25.0         | 24.5           |       |
| 89 Cyclohexanone                | 55  | 9.905     | 9.904         | 0.001         | 90 | 116820   | 250.0        | 251.3          |       |
| 113 Bromobenzene                | 156 | 10.081    | 10.078        | 0.003         | 92 | 266995   | 25.0         | 23.9           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.094    | 10.094        | 0.000         | 93 | 341390   | 25.0         | 24.9           |       |
| 114 N-Propylbenzene             | 91  | 10.130    | 10.126        | 0.004         | 99 | 1242292  | 25.0         | 25.0           |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.143    | 10.142        | 0.001         | 73 | 83255    | 25.0         | 22.4           |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.146    | 10.146        | 0.000         | 85 | 117455   | 25.0         | 24.0           |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 97 | 250087   | 25.0         | 24.2           |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.303    | 10.303        | 0.000         | 95 | 870233   | 25.0         | 24.8           |       |
| 92 3-Chlorotoluene              | 126 | 10.319    | 10.319        | 0.000         | 97 | 245034   | 25.0         | 24.4           |       |
| 119 4-Chlorotoluene             | 91  | 10.368    | 10.367        | 0.001         | 97 | 747474   | 25.0         | 24.3           |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 92 | 197937   | 25.0         | 24.3           |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.686    | 10.686        | 0.000         | 96 | 883686   | 25.0         | 24.5           |       |
| 97 Pentachloroethane            | 167 | 10.708    | 10.708        | 0.000         | 0  | 129466   | 25.0         | 26.1           |       |
| 122 sec-Butylbenzene            | 105 | 10.840    | 10.840        | 0.000         | 94 | 1114267  | 25.0         | 24.6           |       |
| 123 4-Isopropyltoluene          | 119 | 10.972    | 10.972        | 0.000         | 97 | 970126   | 25.0         | 24.7           |       |
| 124 1,3-Dichlorobenzene         | 146 | 11.001    | 11.001        | 0.000         | 97 | 518515   | 25.0         | 24.2           |       |
| 99 Dicyclopentadiene            | 66  | 11.069    | 11.068        | 0.001         | 96 | 932969   | 25.0         | 22.1           |       |
| 126 1,4-Dichlorobenzene         | 146 | 11.085    | 11.084        | 0.001         | 96 | 529843   | 25.0         | 24.0           |       |
| 100 1,2,3-Trimethylbenzene      | 105 | 11.101    | 11.097        | 0.004         | 98 | 847083   | 25.0         | 23.7           |       |
| 102 Benzyl chloride             | 126 | 11.223    | 11.223        | 0.000         | 98 | 118849   | 25.0         | 27.1           |       |
| 127 n-Butylbenzene              | 91  | 11.355    | 11.355        | 0.001         | 98 | 873093   | 25.0         | 25.0           |       |
| 128 1,2-Dichlorobenzene         | 146 | 11.435    | 11.435        | 0.000         | 98 | 497525   | 25.0         | 23.5           |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  | 12.133    | 12.136        | -0.003        | 88 | 65827    | 25.0         | 23.5           |       |
| 108 1,3,5-Trichlorobenzene      | 180 | 12.252    | 12.252        | 0.000         | 98 | 334555   | 25.0         | 21.3           |       |
| 130 1,2,4-Trichlorobenzene      | 180 | 12.760    | 12.760        | 0.000         | 94 | 341788   | 25.0         | 21.5           |       |
| 131 Hexachlorobutadiene         | 225 | 12.850    | 12.850        | 0.000         | 96 | 131496   | 25.0         | 19.1           |       |
| 132 Naphthalene                 | 128 | 12.975    | 12.978        | -0.003        | 97 | 1120617  | 25.0         | 22.9           |       |
| 133 1,2,3-Trichlorobenzene      | 180 | 13.178    | 13.178        | 0.000         | 96 | 336636   | 25.0         | 22.4           |       |
| 125 2-Methylnaphthalene         | 142 | 13.972    | 13.975        | -0.003        | 95 | 640993   | 25.0         | 20.6           |       |

**QC Flag Legend**

## Processing Flags

NC - Not Calibrated

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

|                     |                     |           |             |
|---------------------|---------------------|-----------|-------------|
| 8260 CORP mix_00227 | Amount Added: 12.50 | Units: uL |             |
| GAS CORP mix_00524  | Amount Added: 12.50 | Units: uL |             |
| ADD CORP mix_00127  | Amount Added: 12.50 | Units: uL |             |
| 3_MCP_Add_WRK_00364 | Amount Added: 12.50 | Units: uL |             |
| L_8260_SURR_00036   | Amount Added: 2.00  | Units: uL | Run Reagent |
| L_8260_IS_00038     | Amount Added: 2.00  | Units: uL | Run Reagent |



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19196.D

Injection Date: 16-Aug-2022 15:43:41

Instrument ID: HP5977L

Lims ID: LCSD

Client ID:

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 7

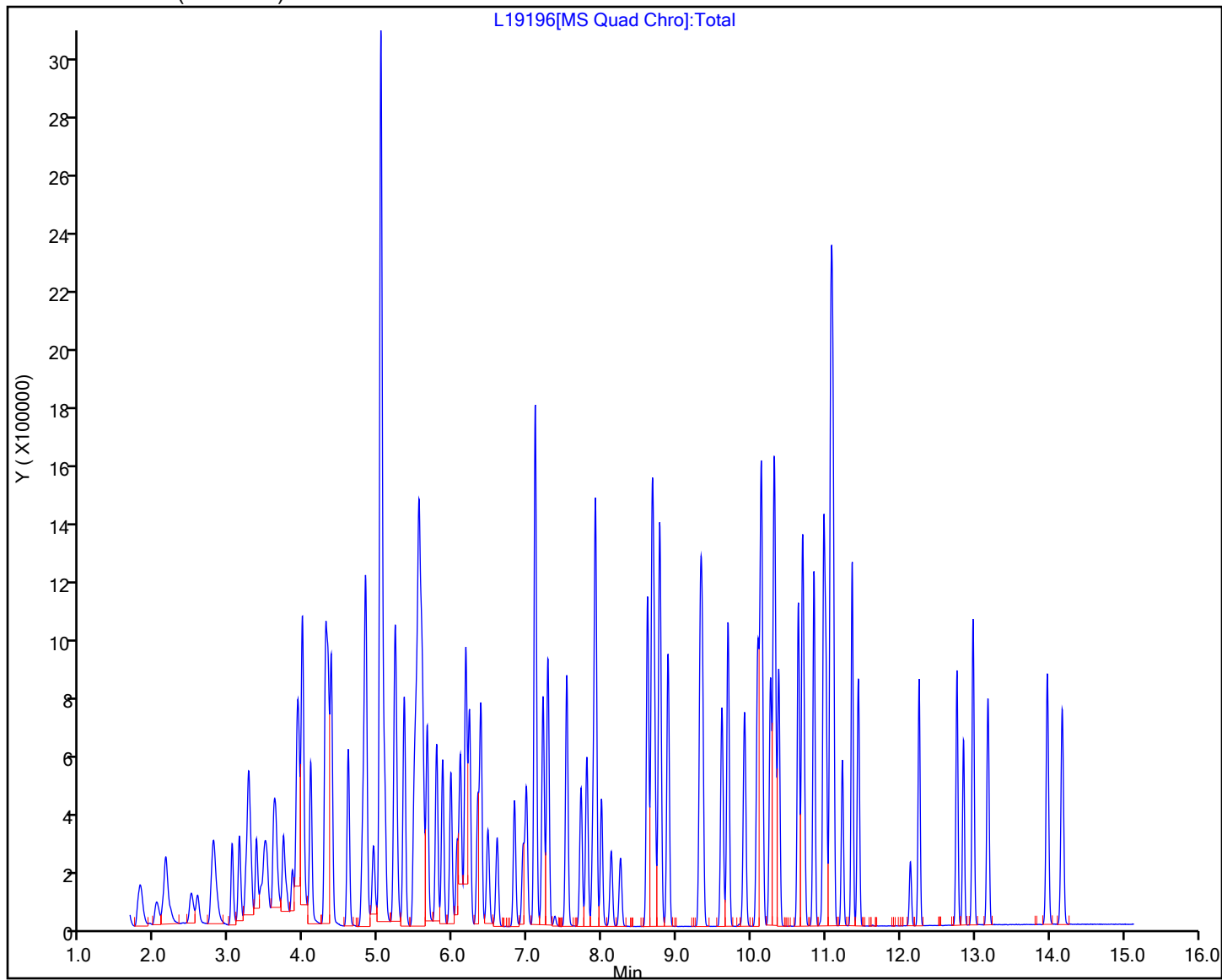
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19196.D  
 Lims ID: LCSD  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 16-Aug-2022 15:43:41 ALS Bottle#: 0 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCSD  
 Misc. Info.: 480-0107114-007  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 16-Aug-2022 16:56:12 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1631

First Level Reviewer: LS5G

Date: 16-Aug-2022 16:56:21

| Compound                          | Amount Added | Amount Recovered | % Rec. |
|-----------------------------------|--------------|------------------|--------|
| \$ 4 Dibromofluoromethane (Surr)  | 25.0         | 26.0             | 103.81 |
| \$ 5 1,2-Dichloroethane-d4 (Surr) | 25.0         | 26.7             | 106.63 |
| \$ 6 Toluene-d8 (Surr)            | 25.0         | 23.7             | 94.90  |
| \$ 7 4-Bromofluorobenzene (Surr)  | 25.0         | 24.3             | 97.34  |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19196.D

Injection Date: 16-Aug-2022 15:43:41

Instrument ID: HP5977L

Lims ID: LCSD

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

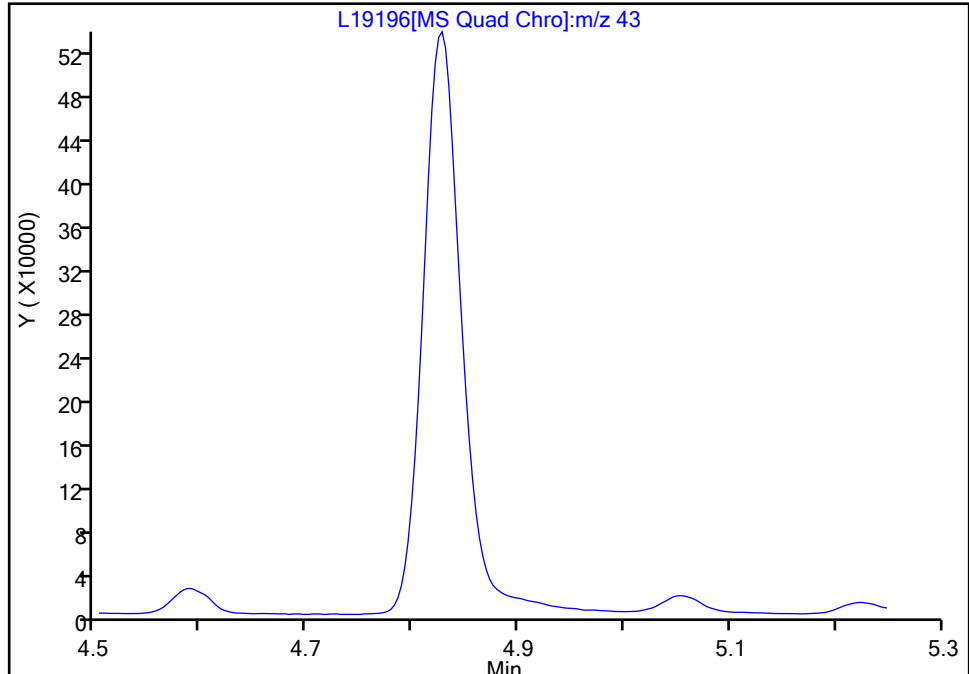
**57 2-Butanone (MEK), CAS: 78-93-3**

Signal: 1

Not Detected

Expected RT: 4.82

## Processing Integration Results



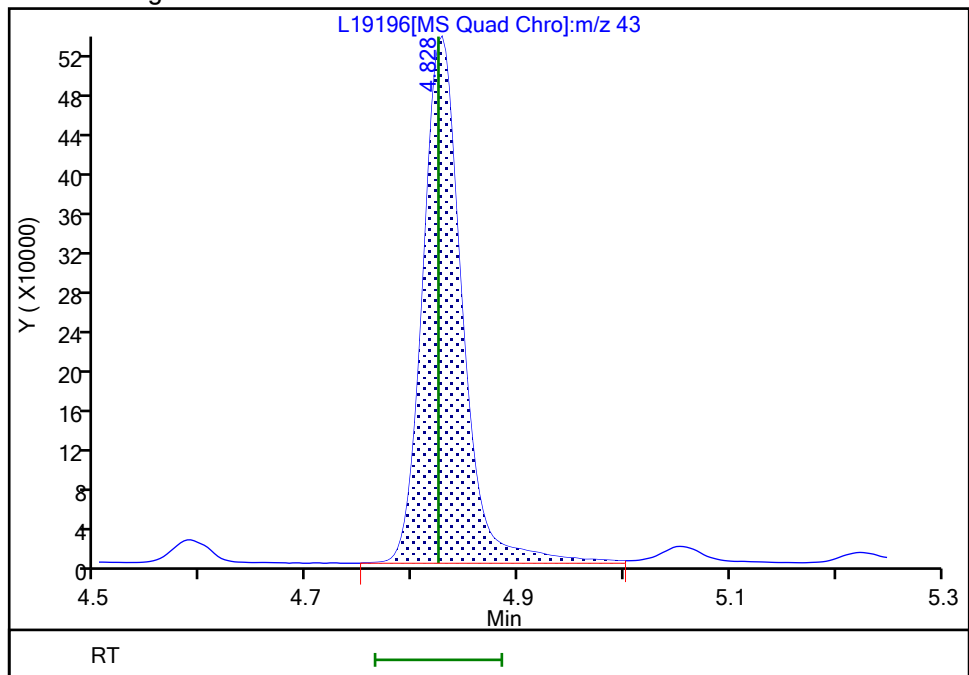
RT: 4.83

Area: 1394118

Amount: 234.8160

Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 16-Aug-2022 16:54:42

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220816-107114.b\L19196.D

Injection Date: 16-Aug-2022 15:43:41

Instrument ID: HP5977L

Lims ID: LCSD

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

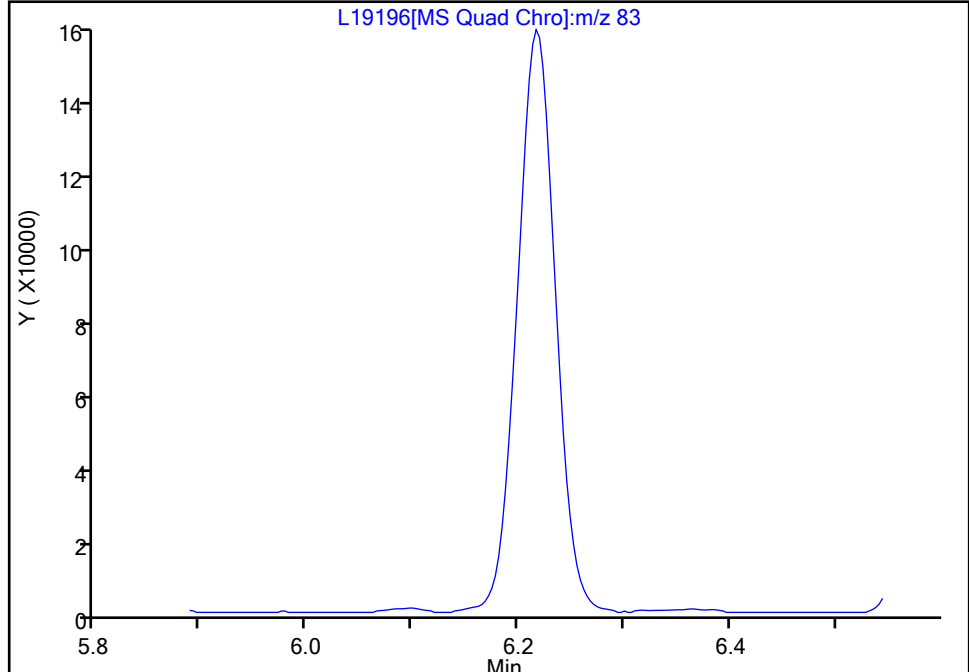
**76 Methylcyclohexane, CAS: 108-87-2**

Signal: 1

Not Detected

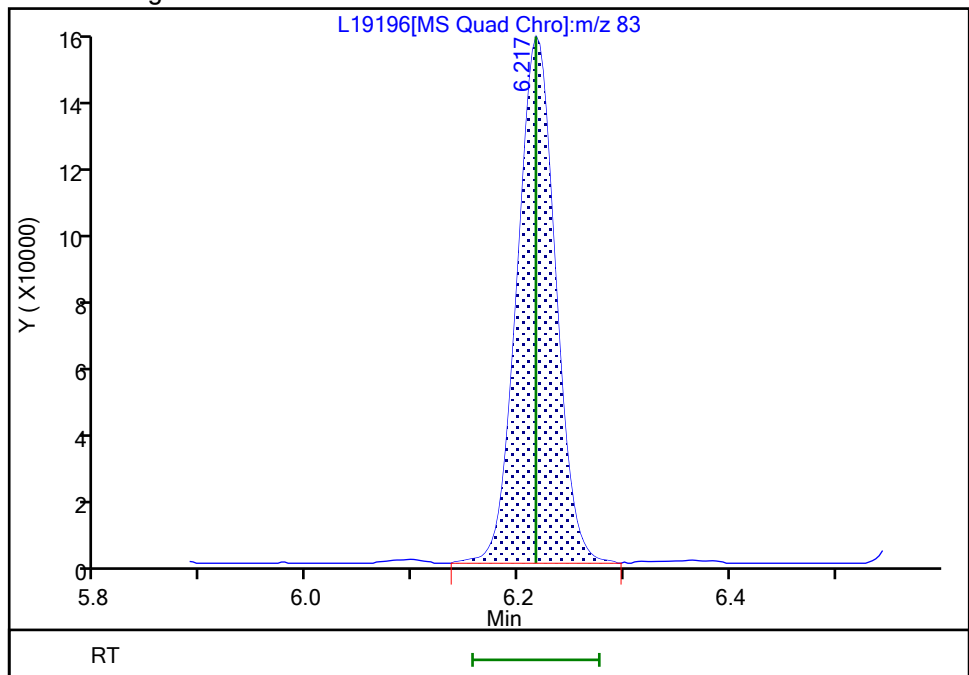
Expected RT: 6.22

## Processing Integration Results



RT: 6.22  
Area: 401440  
Amount: 29.245200  
Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 16-Aug-2022 16:55:11

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                   |                                                |
|-----------------------------------|------------------------------------------------|
| Lab Name: <u>Eurofins Buffalo</u> | Job No.: <u>480-200570-1</u>                   |
| SDG No.: _____                    |                                                |
| Client Sample ID: _____           | Lab Sample ID: <u>LCSD 480-637762/7</u>        |
| Matrix: <u>Water</u>              | Lab File ID: <u>L19229.D</u>                   |
| Analysis Method: <u>8260C</u>     | Date Collected: _____                          |
| Sample wt/vol: <u>5(mL)</u>       | Date Analyzed: <u>08/17/2022 13:14</u>         |
| Soil Aliquot Vol: _____           | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____          | GC Column: <u>ZB-624 (30) VOA ID: 0.25(mm)</u> |
| Purge Volume: <u>5.0(mL)</u>      | Heated Purge: (Y/N) <u>N</u> pH: _____         |
| % Moisture: _____ % Solids: _____ | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>637762</u> | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane                 | 27.1   |   | 1.0 | 0.82 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 22.8   |   | 1.0 | 0.21 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 23.9   |   | 1.0 | 0.23 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 27.4   |   | 1.0 | 0.31 |
| 75-34-3    | 1,1-Dichloroethane                    | 28.3   |   | 1.0 | 0.38 |
| 75-35-4    | 1,1-Dichloroethene                    | 27.8   |   | 1.0 | 0.29 |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 20.2   |   | 1.0 | 0.41 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 21.8   |   | 1.0 | 0.39 |
| 95-50-1    | 1,2-Dichlorobenzene                   | 22.3   |   | 1.0 | 0.79 |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 20.9   |   | 1.0 | 0.41 |
| 107-06-2   | 1,2-Dichloroethane                    | 26.5   |   | 1.0 | 0.21 |
| 78-87-5    | 1,2-Dichloropropane                   | 26.5   |   | 1.0 | 0.72 |
| 541-73-1   | 1,3-Dichlorobenzene                   | 23.0   |   | 1.0 | 0.78 |
| 106-46-7   | 1,4-Dichlorobenzene                   | 22.6   |   | 1.0 | 0.84 |
| 78-93-3    | 2-Butanone (MEK)                      | 221    |   | 10  | 1.3  |
| 591-78-6   | 2-Hexanone                            | 117    |   | 5.0 | 1.2  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 108    |   | 5.0 | 2.1  |
| 67-64-1    | Acetone                               | 152    |   | 10  | 3.0  |
| 71-43-2    | Benzene                               | 25.9   |   | 1.0 | 0.41 |
| 75-27-4    | Bromodichloromethane                  | 27.5   |   | 1.0 | 0.39 |
| 75-25-2    | Bromoform                             | 23.5   |   | 1.0 | 0.26 |
| 74-83-9    | Bromomethane                          | 25.6   |   | 1.0 | 0.69 |
| 75-15-0    | Carbon disulfide                      | 26.7   |   | 1.0 | 0.19 |
| 56-23-5    | Carbon tetrachloride                  | 27.2   |   | 1.0 | 0.27 |
| 108-90-7   | Chlorobenzene                         | 23.4   |   | 1.0 | 0.75 |
| 124-48-1   | Dibromochloromethane                  | 24.9   |   | 1.0 | 0.32 |
| 75-00-3    | Chloroethane                          | 25.2   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                            | 26.1   |   | 1.0 | 0.34 |
| 74-87-3    | Chloromethane                         | 23.4   |   | 1.0 | 0.35 |
| 156-59-2   | cis-1,2-Dichloroethene                | 26.6   |   | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene               | 28.7   |   | 1.0 | 0.36 |
| 110-82-7   | Cyclohexane                           | 25.5   |   | 1.0 | 0.18 |
| 75-71-8    | Dichlorodifluoromethane               | 24.1   |   | 1.0 | 0.68 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 480-637762/7

Matrix: Water Lab File ID: L19229.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5(mL) Date Analyzed: 08/17/2022 13:14

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637762 Units: ug/L

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL  |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4   | Ethylbenzene              | 23.7   |   | 1.0 | 0.74 |
| 106-93-4   | 1,2-Dibromoethane         | 23.5   |   | 1.0 | 0.73 |
| 98-82-8    | Isopropylbenzene          | 22.9   |   | 1.0 | 0.79 |
| 79-20-9    | Methyl acetate            | 47.7   |   | 2.5 | 1.3  |
| 1634-04-4  | Methyl tert-butyl ether   | 25.9   |   | 1.0 | 0.16 |
| 108-87-2   | Methylcyclohexane         | 27.5   |   | 1.0 | 0.16 |
| 75-09-2    | Methylene Chloride        | 26.4   |   | 1.0 | 0.44 |
| 100-42-5   | Styrene                   | 23.6   |   | 1.0 | 0.73 |
| 127-18-4   | Tetrachloroethene         | 23.4   |   | 1.0 | 0.36 |
| 108-88-3   | Toluene                   | 22.8   |   | 1.0 | 0.51 |
| 156-60-5   | trans-1,2-Dichloroethene  | 27.0   |   | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 25.5   |   | 1.0 | 0.37 |
| 79-01-6    | Trichloroethene           | 26.3   |   | 1.0 | 0.46 |
| 75-69-4    | Trichlorofluoromethane    | 27.6   |   | 1.0 | 0.88 |
| 75-01-4    | Vinyl chloride            | 22.2   |   | 1.0 | 0.90 |
| 1330-20-7  | Xylenes, Total            | 46.3   |   | 2.0 | 0.66 |
| 74-97-5    | Chlorobromomethane        | 26.4   |   | 1.0 | 0.87 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 108  |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 104  |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19229.D  
 Lims ID: LCSD  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 17-Aug-2022 13:14:28 ALS Bottle#: 0 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCSD  
 Misc. Info.: 480-0107131-007  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 13:41:00 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 13:41:00

| Compound                                 | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|------------------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| * 1 Fluorobenzene (IS)                   | 70  | 5.776     | 5.773         | 0.003         | 99  | 151802   | 25.0         | 25.0           |       |
| * 2 Chlorobenzene-d5                     | 117 | 8.667     | 8.666         | 0.001         | 84  | 679476   | 25.0         | 25.0           |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 11.062    | 11.062        | 0.000         | 94  | 368027   | 25.0         | 25.0           |       |
| \$ 4 Dibromofluoromethane (Surr)         | 113 | 5.223     | 5.229         | -0.003        | 87  | 201019   | 25.0         | 26.1           |       |
| \$ 5 1,2-Dichloroethane-d4 (Surr)        | 65  | 5.528     | 5.525         | 0.003         | 98  | 235985   | 25.0         | 27.0           |       |
| \$ 6 Toluene-d8 (Surr)                   | 98  | 7.204     | 7.204         | 0.001         | 93  | 789897   | 25.0         | 23.3           |       |
| \$ 7 4-Bromofluorobenzene (Surr)         | 174 | 9.911     | 9.911         | 0.000         | 98  | 266621   | 25.0         | 25.1           |       |
| 10 Dichlorodifluoromethane               | 85  | 1.779     | 1.773         | 0.006         | 99  | 226382   | 25.0         | 24.1           |       |
| 9 Chlorodifluoromethane                  | 51  | 1.808     | 1.805         | 0.003         | 96  | 194729   | 25.0         | 21.5           |       |
| 13 Chloromethane                         | 50  | 2.017     | 2.011         | 0.006         | 99  | 205952   | 25.0         | 23.4           |       |
| 14 Vinyl chloride                        | 62  | 2.117     | 2.114         | 0.003         | 97  | 185162   | 25.0         | 22.2           |       |
| 15 Butadiene                             | 54  | 2.149     | 2.141         | 0.010         | 89  | 167107   | 25.0         | 24.8           |       |
| 18 Bromomethane                          | 94  | 2.487     | 2.477         | 0.010         | 89  | 158201   | 25.0         | 25.6           |       |
| 19 Chloroethane                          | 64  | 2.580     | 2.564         | 0.016         | 99  | 128989   | 25.0         | 25.2           |       |
| 20 Dichlorofluoromethane                 | 67  | 2.779     | 2.770         | 0.009         | 96  | 328680   | 25.0         | 28.4           |       |
| 21 Trichlorofluoromethane                | 101 | 2.792     | 2.792         | 0.010         | 96  | 298924   | 25.0         | 27.6           | M     |
| 26 Ethyl ether                           | 59  | 3.030     | 3.030         | 0.000         | 90  | 192048   | 25.0         | 27.1           |       |
| 11 Ethanol                               | 45  | 3.030     | 3.048         | -0.016        | 0   | 154821   | 1000.0       | 2775.9         |       |
| 12 Propene oxide                         | 58  | 3.130     | 3.130         | 0.000         | 0   | 329049   | NC           | NC             | a     |
| 28 Acrolein                              | 56  | 3.213     | 3.213         | 0.000         | 100 | 128846   | 125.0        | 90.1           |       |
| 29 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 3.265     | 3.252         | 0.013         | 92  | 192841   | 25.0         | 27.4           |       |
| 30 1,1-Dichloroethene                    | 96  | 3.252     | 3.252         | 0.000         | 98  | 191846   | 25.0         | 27.8           |       |
| 31 Acetone                               | 43  | 3.358     | 3.358         | 0.000         | 100 | 504791   | 125.0        | 152.1          |       |
| 33 Iodomethane                           | 142 | 3.416     | 3.416         | -0.003        | 99  | 328619   | 25.0         | 26.0           | M     |
| 35 Carbon disulfide                      | 76  | 3.467     | 3.471         | -0.004        | 99  | 509447   | 25.0         | 26.7           |       |
| 16 Isopropyl alcohol                     | 45  | 3.499     | 3.499         | 0.000         | 99  | 93580    | 250.0        | 154.2          |       |
| 37 3-Chloro-1-propene                    | 41  | 3.590     | 3.590         | 0.000         | 87  | 243525   | 25.0         | 22.5           |       |
| 38 Methyl acetate                        | 43  | 3.615     | 3.615         | 0.000         | 96  | 452205   | 50.0         | 47.7           |       |
| 17 Acetonitrile                          | 40  | 3.651     | 3.651         | 0.001         | 96  | 158663   | 250.0        | 238.9          | a     |
| 39 Methylene Chloride                    | 84  | 3.721     | 3.718         | 0.003         | 85  | 233766   | 25.0         | 26.4           |       |
| 40 2-Methyl-2-propanol                   | 59  | 3.844     | 3.844         | 0.000         | 99  | 429014   | 250.0        | 295.1          |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 41 Methyl tert-butyl ether     | 73  | 3.901     | 3.901         | 0.000         | 93 | 704715   | 25.0         | 25.9           |       |
| 42 trans-1,2-Dichloroethene    | 96  | 3.927     | 3.927         | 0.000         | 97 | 228130   | 25.0         | 27.0           |       |
| 44 Acrylonitrile               | 53  | 3.975     | 3.972         | 0.003         | 99 | 1049215  | 250.0        | 225.7          |       |
| 47 Hexane                      | 57  | 4.085     | 4.085         | 0.000         | 90 | 302631   | 25.0         | 26.9           |       |
| 22 Isopropyl ether             | 45  | 4.281     | 4.281         | 0.000         | 93 | 570517   | 25.0         | 23.9           | a     |
| 23 Halothane                   | 117 | 4.290     | 4.294         | -0.004        | 94 | 154436   | 25.0         | 26.1           |       |
| 50 1,1-Dichloroethane          | 63  | 4.307     | 4.307         | 0.000         | 95 | 389087   | 25.0         | 28.3           |       |
| 49 Vinyl acetate               | 43  | 4.323     | 4.323         | 0.000         | 98 | 1360864  | 50.0         | 76.9           |       |
| 24 2-Chloro-1,3-butadiene      | 53  | 4.358     | 4.361         | -0.003        | 90 | 280600   | 25.0         | 24.8           |       |
| 25 1,1-Dimethoxyethane         | 75  | 4.364     | 4.364         | 0.000         | 95 | 297460   | 125.0        | 99.7           |       |
| 27 Tert-butyl ethyl ether      | 59  | 4.589     | 4.589         | 0.000         | 97 | 609184   | 25.0         | 24.6           |       |
| 56 2,2-Dichloropropane         | 77  | 4.782     | 4.779         | 0.003         | 84 | 240391   | 25.0         | 29.0           |       |
| 58 cis-1,2-Dichloroethene      | 96  | 4.808     | 4.808         | 0.000         | 82 | 252783   | 25.0         | 26.6           |       |
| 57 2-Butanone (MEK)            | 43  | 4.827     | 4.827         | 0.003         | 98 | 1375989  | 125.0        | 220.5          | a     |
| 32 Ethyl acetate               | 43  | 4.827     | 4.827         | 0.000         | 97 | 1376641  | 50.0         | 116.6          |       |
| 34 Propionitrile               | 54  | 4.930     | 4.927         | 0.003         | 99 | 461045   | 250.0        | 245.6          |       |
| 36 Methacrylonitrile           | 41  | 5.027     | 5.027         | 0.000         | 90 | 1706401  | 250.0        | 250.0          |       |
| 60 Chlorobromomethane          | 128 | 5.030     | 5.030         | 0.000         | 88 | 133149   | 25.0         | 26.4           |       |
| 61 Tetrahydrofuran             | 42  | 5.053     | 5.056         | -0.004        | 89 | 251954   | 50.0         | 57.6           |       |
| 62 Chloroform                  | 83  | 5.078     | 5.078         | 0.000         | 91 | 388380   | 25.0         | 26.1           |       |
| 64 1,1,1-Trichloroethane       | 97  | 5.210     | 5.207         | 0.003         | 98 | 326620   | 25.0         | 27.1           |       |
| 65 Cyclohexane                 | 56  | 5.223     | 5.223         | 0.000         | 88 | 330929   | 25.0         | 25.5           |       |
| 66 Carbon tetrachloride        | 117 | 5.339     | 5.339         | 0.000         | 97 | 272048   | 25.0         | 27.2           |       |
| 67 1,1-Dichloropropene         | 75  | 5.342     | 5.339         | 0.003         | 99 | 305749   | 25.0         | 26.9           |       |
| 69 Isobutyl alcohol            | 43  | 5.474     | 5.474         | 0.000         | 97 | 405459   | 625.0        | 605.2          |       |
| 43 Isooctane                   | 57  | 5.503     | 5.503         | 0.001         | 95 | 691491   | 25.0         | 24.5           | a     |
| 70 Benzene                     | 78  | 5.538     | 5.538         | 0.000         | 96 | 893408   | 25.0         | 25.9           |       |
| 45 t-Amyl alcohol              | 59  | 5.544     | 5.548         | 0.000         | 94 | 387624   | 250.0        | 241.4          |       |
| 46 Tert-amyl methyl ether      | 73  | 5.570     | 5.570         | 0.000         | 96 | 900492   | 25.0         | 25.5           |       |
| 72 1,2-Dichloroethane          | 62  | 5.593     | 5.593         | 0.000         | 98 | 314494   | 25.0         | 26.5           |       |
| 73 n-Heptane                   | 43  | 5.651     | 5.647         | 0.004         | 89 | 318837   | 25.0         | 24.9           |       |
| 48 1,4-Difluorobenzene         | 114 | 5.856     | 5.856         | 0.000         | 93 | 633671   | 25.0         | 25.4           |       |
| 51 2,4,4-Trimethyl-1-pentene   | 55  | 5.966     | 5.966         | 0.000         | 97 | 126453   | NC           | NC             |       |
| 52 n-Butanol                   | 56  | 6.049     | 6.049         | 0.000         | 85 | 197321   | 625.0        | 560.5          |       |
| 75 Trichloroethene             | 95  | 6.094     | 6.094         | 0.000         | 97 | 235409   | 25.0         | 26.3           |       |
| 53 Ethyl acrylate              | 55  | 6.165     | 6.168         | 0.000         | 99 | 711407   | 25.0         | 27.2           |       |
| 54 2,4,4-Trimethyl-2-pentene   | 97  | 6.171     | 6.168         | 0.003         | 91 | 481304   | NC           | NC             |       |
| 76 Methylcyclohexane           | 83  | 6.216     | 6.216         | 0.000         | 81 | 397184   | 25.0         | 27.5           | a     |
| 77 1,2-Dichloropropane         | 63  | 6.329     | 6.329         | 0.000         | 93 | 216563   | 25.0         | 26.5           |       |
| 55 Methyl methacrylate         | 41  | 6.368     | 6.368         | 0.001         | 84 | 532362   | 50.0         | 62.3           |       |
| 81 1,4-Dioxane                 | 88  | 6.451     | 6.451         | 0.000         | 88 | 68099    | 500.0        | 526.9          | M     |
| 82 Dibromomethane              | 93  | 6.464     | 6.464         | 0.000         | 97 | 153185   | 25.0         | 26.4           |       |
| 83 Dichlorobromomethane        | 83  | 6.589     | 6.586         | 0.003         | 99 | 275395   | 25.0         | 27.5           |       |
| 84 2-Chloroethyl vinyl ether   | 63  | 6.821     | 6.818         | 0.003         | 81 | 171777   | 25.0         | 26.0           |       |
| 59 2-Nitropropane              | 43  | 6.824     | 6.824         | 0.000         | 88 | 246724   | 50.0         | 82.5           |       |
| 63 Epichlorohydrin             | 57  | 6.937     | 6.937         | 0.000         | 98 | 364987   | 250.0        | 245.3          |       |
| 85 cis-1,3-Dichloropropene     | 75  | 6.982     | 6.982         | 0.000         | 96 | 381059   | 25.0         | 28.7           |       |
| 87 4-Methyl-2-pentanone (MIBK) | 43  | 7.101     | 7.098         | 0.004         | 94 | 1473722  | 125.0        | 107.9          |       |
| 88 Toluene                     | 92  | 7.268     | 7.268         | 0.000         | 98 | 571172   | 25.0         | 22.8           |       |
| 91 trans-1,3-Dichloropropene   | 75  | 7.515     | 7.516         | 0.000         | 96 | 349118   | 25.0         | 25.5           |       |
| 90 Ethyl methacrylate          | 69  | 7.525     | 7.525         | 0.000         | 87 | 348553   | 25.0         | 24.3           |       |
| 93 1,1,2-Trichloroethane       | 83  | 7.712     | 7.715         | -0.003        | 90 | 187055   | 25.0         | 23.9           |       |



| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 94 Tetrachloroethene            | 166 | 7.792     | 7.792         | 0.000         | 98 | 260794   | 25.0         | 23.4           |       |
| 95 1,3-Dichloropropane          | 76  | 7.879     | 7.879         | 0.000         | 90 | 392652   | 25.0         | 23.4           |       |
| 96 2-Hexanone                   | 43  | 7.908     | 7.908         | 0.000         | 94 | 1136046  | 125.0        | 117.4          |       |
| 74 n-Butyl acetate              | 43  | 7.988     | 7.988         | 0.000         | 97 | 404286   | 25.0         | 24.0           |       |
| 98 Chlorodibromomethane         | 129 | 8.120     | 8.120         | 0.000         | 90 | 214868   | 25.0         | 24.9           |       |
| 101 Ethylene Dibromide          | 107 | 8.242     | 8.242         | 0.000         | 99 | 241261   | 25.0         | 23.5           |       |
| 78 1-Chlorohexane               | 55  | 8.605     | 8.602         | 0.003         | 95 | 181228   | 25.0         | 23.7           |       |
| 79 3-Chlorobenzotrifluoride     | 180 | 8.612     | 8.612         | 0.000         | 93 | 312713   | 25.0         | 22.5           |       |
| 80 4-Chlorobenzotrifluoride     | 180 | 8.670     | 8.670         | 0.000         | 95 | 297242   | 25.0         | 22.7           |       |
| 103 Chlorobenzene               | 112 | 8.699     | 8.696         | 0.004         | 97 | 659702   | 25.0         | 23.4           |       |
| 104 Ethylbenzene                | 91  | 8.766     | 8.763         | 0.003         | 98 | 1073852  | 25.0         | 23.7           |       |
| 105 1,1,1,2-Tetrachloroethane   | 131 | 8.782     | 8.779         | 0.003         | 95 | 228996   | 25.0         | 24.7           |       |
| 106 m-Xylene & p-Xylene         | 106 | 8.882     | 8.882         | 0.000         | 98 | 418182   | 25.0         | 23.3           |       |
| 107 o-Xylene                    | 106 | 9.313     | 9.313         | 0.000         | 96 | 404566   | 25.0         | 23.0           |       |
| 109 Styrene                     | 104 | 9.342     | 9.342         | 0.000         | 94 | 692547   | 25.0         | 23.6           |       |
| 86 2-Chlorobenzotrifluoride     | 180 | 9.602     | 9.602         | 0.000         | 97 | 309938   | 25.0         | 21.1           |       |
| 110 Bromoform                   | 173 | 9.615     | 9.615         | 0.000         | 97 | 139917   | 25.0         | 23.5           |       |
| 111 Isopropylbenzene            | 105 | 9.686     | 9.686         | 0.000         | 95 | 1075683  | 25.0         | 22.9           |       |
| 89 Cyclohexanone                | 55  | 9.904     | 9.904         | 0.000         | 90 | 107192   | 250.0        | 210.2          |       |
| 113 Bromobenzene                | 156 | 10.081    | 10.081        | 0.000         | 92 | 275204   | 25.0         | 22.4           |       |
| 112 1,1,2,2-Tetrachloroethane   | 83  | 10.094    | 10.094        | 0.000         | 95 | 343662   | 25.0         | 22.8           |       |
| 114 N-Propylbenzene             | 91  | 10.130    | 10.130        | 0.000         | 99 | 1268256  | 25.0         | 23.3           |       |
| 115 trans-1,4-Dichloro-2-butene | 53  | 10.142    | 10.139        | 0.003         | 74 | 88830    | 25.0         | 21.8           |       |
| 116 1,2,3-Trichloropropane      | 110 | 10.146    | 10.149        | -0.003        | 86 | 118302   | 25.0         | 22.0           |       |
| 117 2-Chlorotoluene             | 126 | 10.258    | 10.258        | 0.000         | 97 | 264476   | 25.0         | 23.4           |       |
| 118 1,3,5-Trimethylbenzene      | 105 | 10.300    | 10.300        | 0.000         | 96 | 900349   | 25.0         | 23.4           |       |
| 92 3-Chlorotoluene              | 126 | 10.319    | 10.319        | 0.000         | 97 | 255870   | 25.0         | 23.2           |       |
| 119 4-Chlorotoluene             | 91  | 10.367    | 10.368        | 0.000         | 97 | 802674   | 25.0         | 23.8           |       |
| 120 tert-Butylbenzene           | 134 | 10.631    | 10.631        | 0.000         | 91 | 206167   | 25.0         | 23.1           |       |
| 121 1,2,4-Trimethylbenzene      | 105 | 10.686    | 10.686        | 0.000         | 97 | 921604   | 25.0         | 23.3           |       |
| 97 Pentachloroethane            | 167 | 10.708    | 10.708        | 0.000         | 0  | 137101   | 25.0         | 25.1           |       |
| 122 sec-Butylbenzene            | 105 | 10.840    | 10.840        | 0.000         | 94 | 1144946  | 25.0         | 23.0           |       |
| 123 4-Isopropyltoluene          | 119 | 10.972    | 10.972        | 0.000         | 97 | 1000168  | 25.0         | 23.2           |       |
| 124 1,3-Dichlorobenzene         | 146 | 11.001    | 11.001        | 0.000         | 97 | 541169   | 25.0         | 23.0           |       |
| 99 Dicyclopentadiene            | 66  | 11.068    | 11.068        | 0.000         | 96 | 958708   | 25.0         | 20.7           |       |
| 126 1,4-Dichlorobenzene         | 146 | 11.085    | 11.085        | 0.000         | 95 | 547573   | 25.0         | 22.6           |       |
| 100 1,2,3-Trimethylbenzene      | 105 | 11.101    | 11.101        | 0.001         | 98 | 881613   | 25.0         | 22.5           |       |
| 102 Benzyl chloride             | 126 | 11.223    | 11.223        | 0.000         | 98 | 125106   | 25.0         | 26.6           |       |
| 127 n-Butylbenzene              | 91  | 11.351    | 11.355        | -0.004        | 98 | 898213   | 25.0         | 23.4           |       |
| 128 1,2-Dichlorobenzene         | 146 | 11.438    | 11.435        | 0.003         | 97 | 516950   | 25.0         | 22.3           |       |
| 129 1,2-Dibromo-3-Chloropropane | 75  | 12.133    | 12.136        | -0.003        | 88 | 66743    | 25.0         | 21.8           |       |
| 108 1,3,5-Trichlorobenzene      | 180 | 12.252    | 12.252        | 0.000         | 97 | 348089   | 25.0         | 20.2           |       |
| 130 1,2,4-Trichlorobenzene      | 180 | 12.760    | 12.760        | 0.000         | 94 | 351761   | 25.0         | 20.2           |       |
| 131 Hexachlorobutadiene         | 225 | 12.847    | 12.850        | -0.003        | 95 | 131685   | 25.0         | 17.4           |       |
| 132 Naphthalene                 | 128 | 12.975    | 12.975        | 0.000         | 97 | 1141266  | 25.0         | 21.2           |       |
| 133 1,2,3-Trichlorobenzene      | 180 | 13.178    | 13.178        | 0.000         | 96 | 344802   | 25.0         | 20.9           |       |
| 125 2-Methylnaphthalene         | 142 | 13.972    | 13.972        | 0.000         | 93 | 649328   | 25.0         | 19.1           |       |

**QC Flag Legend**

## Processing Flags

NC - Not Calibrated

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

|                     |                     |           |             |
|---------------------|---------------------|-----------|-------------|
| 8260 CORP mix_00227 | Amount Added: 12.50 | Units: uL |             |
| GAS CORP mix_00525  | Amount Added: 12.50 | Units: uL |             |
| ADD CORP mix_00127  | Amount Added: 12.50 | Units: uL |             |
| 3_MCP_Add_WRK_00364 | Amount Added: 12.50 | Units: uL |             |
| L_8260_SURR_00036   | Amount Added: 2.00  | Units: uL | Run Reagent |
| L_8260_IS_00038     | Amount Added: 2.00  | Units: uL | Run Reagent |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19229.D

Injection Date: 17-Aug-2022 13:14:28

Instrument ID: HP5977L

Lims ID: LCSD

Client ID:

Operator ID: CR/CB

ALS Bottle#: 0

Worklist Smp#: 7

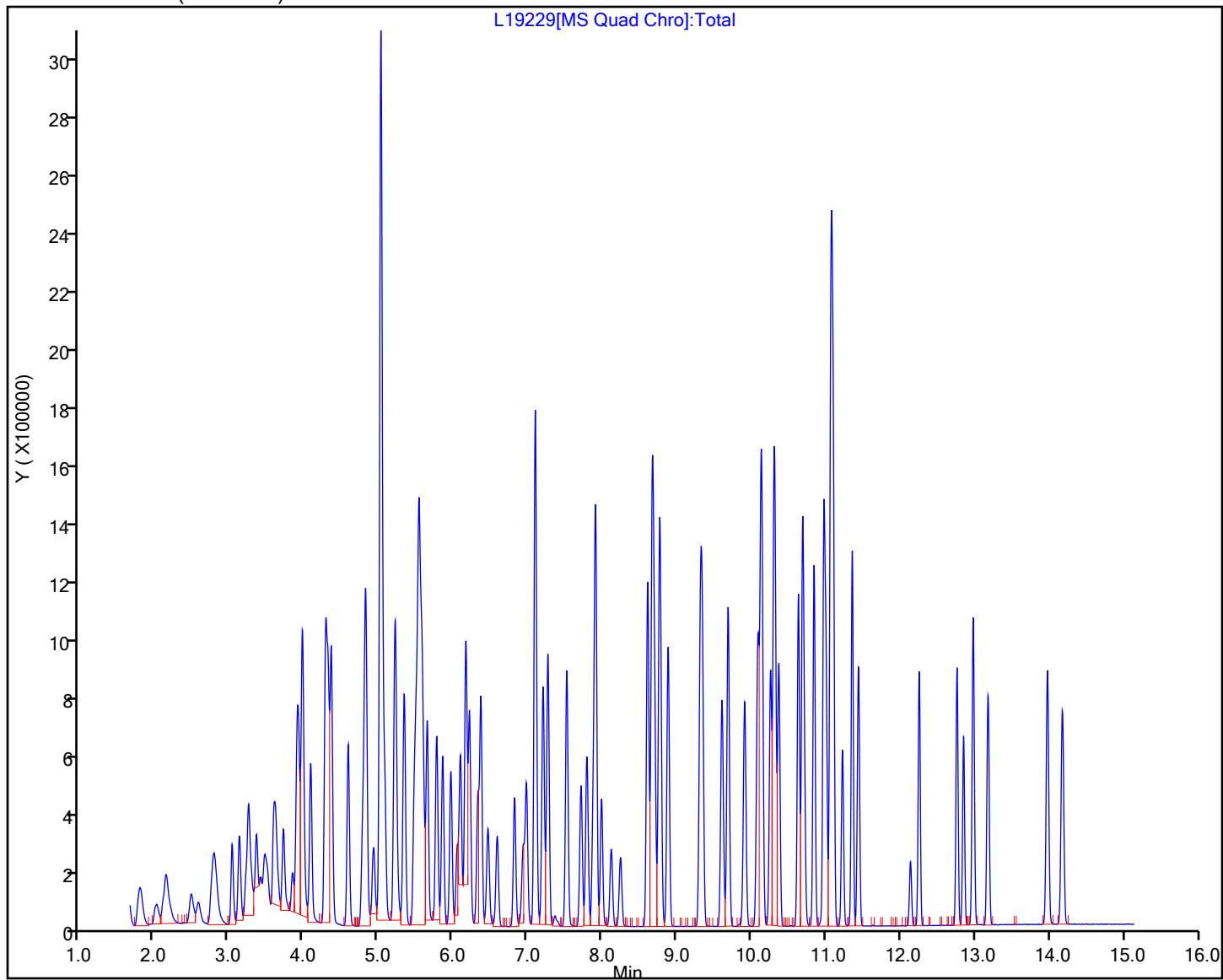
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: L-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19229.D  
 Lims ID: LCSD  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 17-Aug-2022 13:14:28 ALS Bottle#: 0 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCSD  
 Misc. Info.: 480-0107131-007  
 Operator ID: CR/CB Instrument ID: HP5977L  
 Method: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 13:41:00 Calib Date: 07-Jul-2022 20:20:54  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20220707-106458.b\L18043.D  
 Column 1 : ZB-624 ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1628

First Level Reviewer: LS5G

Date: 17-Aug-2022 13:41:00

| Compound                          | Amount Added | Amount Recovered | % Rec. |
|-----------------------------------|--------------|------------------|--------|
| \$ 4 Dibromofluoromethane (Surr)  | 25.0         | 26.1             | 104.31 |
| \$ 5 1,2-Dichloroethane-d4 (Surr) | 25.0         | 27.0             | 108.09 |
| \$ 6 Toluene-d8 (Surr)            | 25.0         | 23.3             | 93.15  |
| \$ 7 4-Bromofluorobenzene (Surr)  | 25.0         | 25.1             | 100.46 |

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19229.D

Injection Date: 17-Aug-2022 13:14:28

Instrument ID: HP5977L

Lims ID: LCSD

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

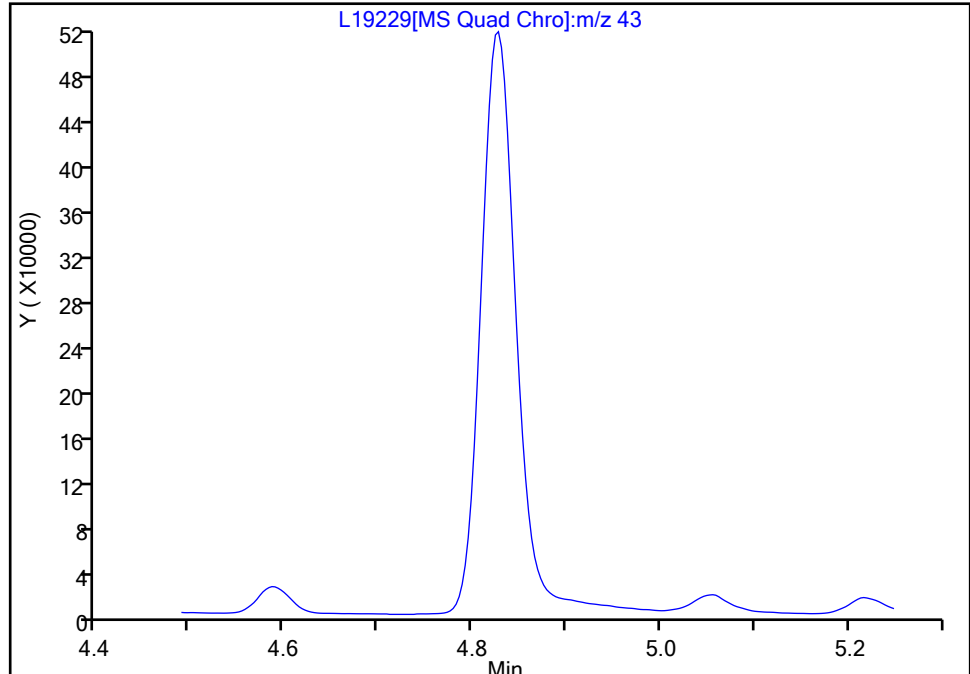
**57 2-Butanone (MEK), CAS: 78-93-3**

Signal: 1

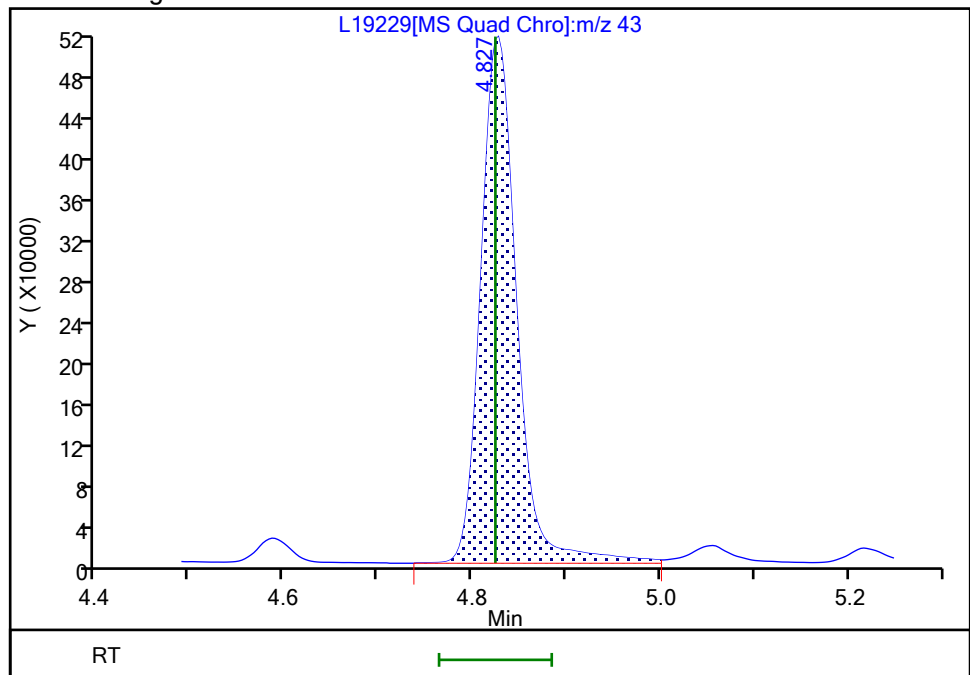
Not Detected

Expected RT: 4.82

## Processing Integration Results



## Manual Integration Results



Reviewer: LS5G, 17-Aug-2022 13:39:27

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19229.D

Injection Date: 17-Aug-2022 13:14:28

Instrument ID: HP5977L

Lims ID: LCSD

Client ID:

Operator ID: CR/CB

ALS Bottle#:

0

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: L-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 ( 0.25 mm)

Detector

MS Quad

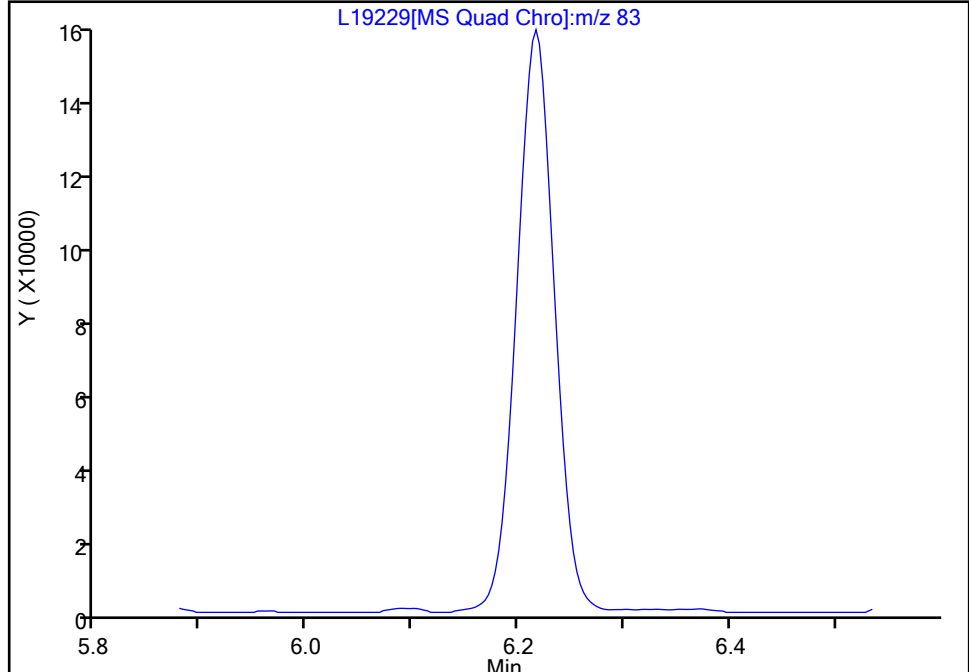
**76 Methylcyclohexane, CAS: 108-87-2**

Signal: 1

Not Detected

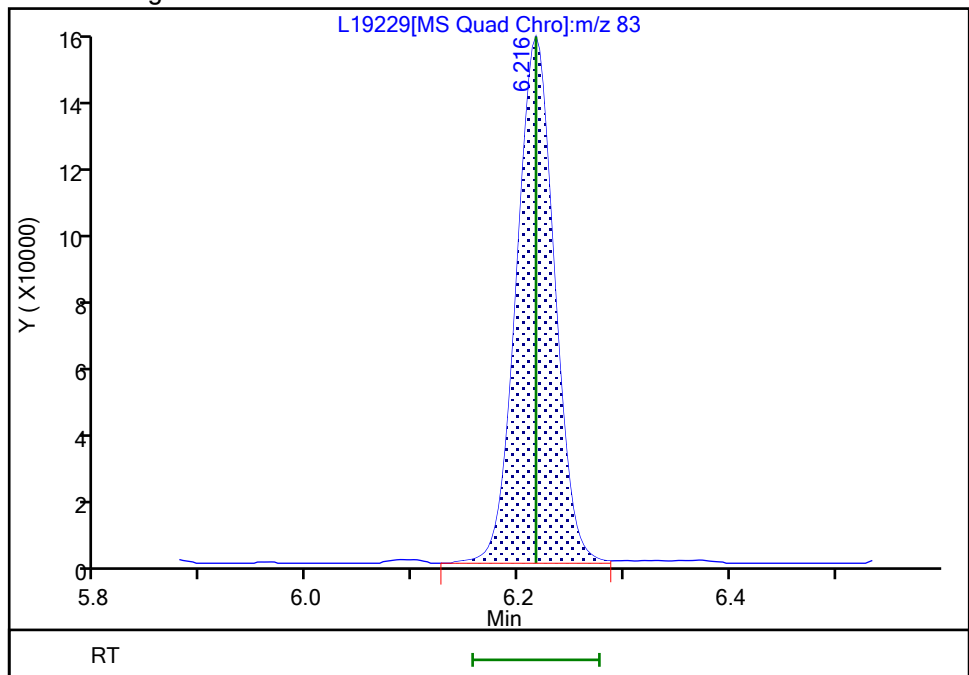
Expected RT: 6.22

## Processing Integration Results



RT: 6.22  
Area: 397184  
Amount: 27.530153  
Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 17-Aug-2022 13:39:53

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

## Eurofins Buffalo

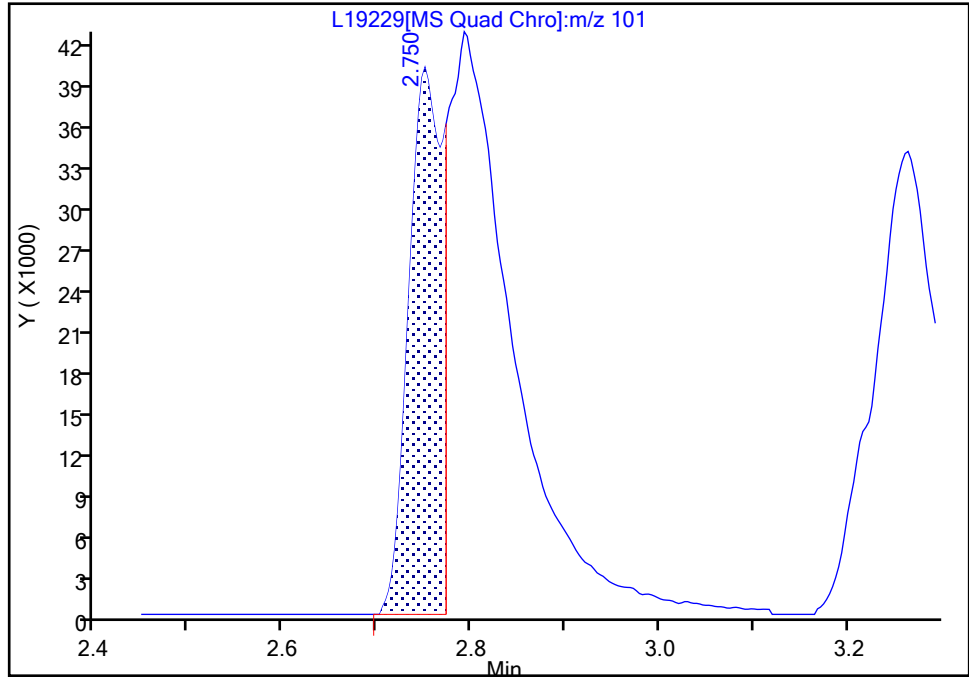
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20220817-107131.b\L19229.D  
Injection Date: 17-Aug-2022 13:14:28 Instrument ID: HP5977L  
Lims ID: LCSD  
Client ID:  
Operator ID: CR/CB ALS Bottle#: 0 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: L-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 ( 0.25 mm) Detector: MS Quad

**21 Trichlorofluoromethane, CAS: 75-69-4**

Signal: 1

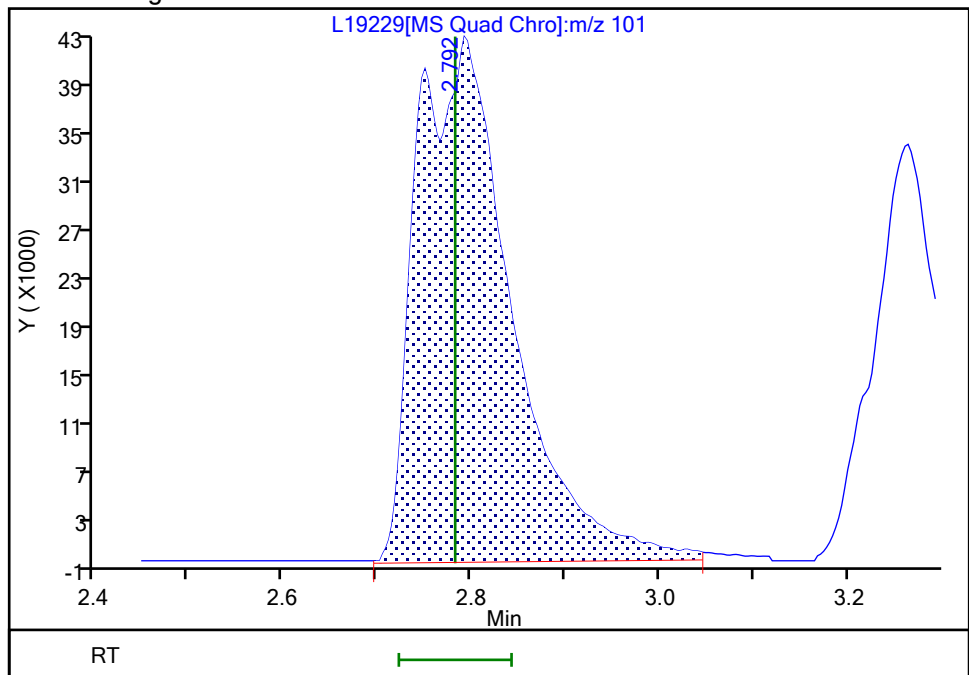
RT: 2.75  
Area: 100032  
Amount: 9.230307  
Amount Units: ug/L

## Processing Integration Results



RT: 2.79  
Area: 298924  
Amount: 27.582778  
Amount Units: ug/L

## Manual Integration Results



Reviewer: LS5G, 17-Aug-2022 13:38:10  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 705 of 733

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: WG-11230275-081022-KM-001 Lab Sample ID: 480-200570-1 MS  
MS

Matrix: Water Lab File ID: S4738.D

Analysis Method: 8260C Date Collected: 08/10/2022 13:30

Sample wt/vol: 5 (mL) Date Analyzed: 08/16/2022 21:08

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637566 Units: ug/L

| CAS NO.    | COMPOUND NAME                         | RESULT | Q | RL  | MDL |
|------------|---------------------------------------|--------|---|-----|-----|
| 71-55-6    | 1,1,1-Trichloroethane                 | 880    |   | 40  | 33  |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 882    |   | 40  | 8.4 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 894    |   | 40  | 9.2 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 917    |   | 40  | 12  |
| 75-34-3    | 1,1-Dichloroethane                    | 902    |   | 40  | 15  |
| 75-35-4    | 1,1-Dichloroethene                    | 965    |   | 40  | 12  |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 955    |   | 40  | 16  |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 897    |   | 40  | 16  |
| 95-50-1    | 1,2-Dichlorobenzene                   | 899    |   | 40  | 32  |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 918    |   | 40  | 16  |
| 107-06-2   | 1,2-Dichloroethane                    | 812    |   | 40  | 8.4 |
| 78-87-5    | 1,2-Dichloropropane                   | 910    |   | 40  | 29  |
| 541-73-1   | 1,3-Dichlorobenzene                   | 892    |   | 40  | 31  |
| 106-46-7   | 1,4-Dichlorobenzene                   | 858    |   | 40  | 34  |
| 78-93-3    | 2-Butanone (MEK)                      | 4430   |   | 400 | 53  |
| 591-78-6   | 2-Hexanone                            | 4470   |   | 200 | 50  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 4380   |   | 200 | 84  |
| 67-64-1    | Acetone                               | 4350   |   | 400 | 120 |
| 71-43-2    | Benzene                               | 908    |   | 40  | 16  |
| 75-27-4    | Bromodichloromethane                  | 908    |   | 40  | 16  |
| 75-25-2    | Bromoform                             | 955    |   | 40  | 10  |
| 74-83-9    | Bromomethane                          | 919    |   | 40  | 28  |
| 75-15-0    | Carbon disulfide                      | 993    |   | 40  | 7.6 |
| 56-23-5    | Carbon tetrachloride                  | 922    |   | 40  | 11  |
| 108-90-7   | Chlorobenzene                         | 878    |   | 40  | 30  |
| 124-48-1   | Dibromochloromethane                  | 979    |   | 40  | 13  |
| 75-00-3    | Chloroethane                          | 947    |   | 40  | 13  |
| 67-66-3    | Chloroform                            | 865    |   | 40  | 14  |
| 74-87-3    | Chloromethane                         | 927    |   | 40  | 14  |
| 156-59-2   | cis-1,2-Dichloroethene                | 882    |   | 40  | 32  |
| 10061-01-5 | cis-1,3-Dichloropropene               | 954    |   | 40  | 14  |
| 110-82-7   | Cyclohexane                           | 1090   |   | 40  | 7.2 |
| 75-71-8    | Dichlorodifluoromethane               | 841    |   | 40  | 27  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: WG-11230275-081022-KM-001 Lab Sample ID: 480-200570-1 MS  
MS

Matrix: Water Lab File ID: S4738.D

Analysis Method: 8260C Date Collected: 08/10/2022 13:30

Sample wt/vol: 5 (mL) Date Analyzed: 08/16/2022 21:08

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637566 Units: ug/L

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL |
|------------|---------------------------|--------|---|-----|-----|
| 100-41-4   | Ethylbenzene              | 942    |   | 40  | 30  |
| 106-93-4   | 1,2-Dibromoethane         | 909    |   | 40  | 29  |
| 98-82-8    | Isopropylbenzene          | 1000   |   | 40  | 32  |
| 79-20-9    | Methyl acetate            | 2340   |   | 100 | 52  |
| 1634-04-4  | Methyl tert-butyl ether   | 904    |   | 40  | 6.4 |
| 108-87-2   | Methylcyclohexane         | 988    |   | 40  | 6.4 |
| 75-09-2    | Methylene Chloride        | 954    |   | 40  | 18  |
| 100-42-5   | Styrene                   | 939    |   | 40  | 29  |
| 127-18-4   | Tetrachloroethene         | 878    |   | 40  | 14  |
| 108-88-3   | Toluene                   | 895    |   | 40  | 20  |
| 156-60-5   | trans-1,2-Dichloroethene  | 898    |   | 40  | 36  |
| 10061-02-6 | trans-1,3-Dichloropropene | 953    |   | 40  | 15  |
| 79-01-6    | Trichloroethene           | 891    |   | 40  | 18  |
| 75-69-4    | Trichlorofluoromethane    | 897    |   | 40  | 35  |
| 75-01-4    | Vinyl chloride            | 951    |   | 40  | 36  |
| 1330-20-7  | Xylenes, Total            | 1860   |   | 80  | 26  |
| 74-97-5    | Chlorobromomethane        | 837    |   | 40  | 35  |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 102  |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4738.D  
 Lims ID: 480-200570-A-1 MS  
 Client ID: WG-11230275-081022-KM-001  
 Sample Type: MS  
 Inject. Date: 16-Aug-2022 21:08:30 ALS Bottle#: 29 Worklist Smp#: 54  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Sample Info: 480-200570-A-1 MS  
 Misc. Info.: 480-0107106-054  
 Operator ID: AG Instrument ID: HP5973S  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:57:52 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1639

First Level Reviewer: FGO5

Date: 17-Aug-2022 10:58:07

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 153 Fluorobenzene (IS)                 | 70  | 4.867        | 4.867            | 0.000            | 98 | 206967   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 82  | 7.824        | 7.824            | 0.000            | 87 | 426835   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 10.263       | 10.263           | 0.000            | 55 | 446568   | 25.0            | 25.0              |       |
| \$ 154 Dibromofluoromethane (Surr)       | 113 | 4.302        | 4.313            | -0.006           | 57 | 257649   | 25.0            | 24.5              |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)        | 67  | 4.600        | 4.606            | -0.006           | 54 | 175462   | 25.0            | 24.5              |       |
| \$ 5 Toluene-d8 (Surr)                   | 98  | 6.358        | 6.358            | 0.000            | 59 | 1058842  | 25.0            | 25.5              |       |
| \$ 6 4-Bromofluorobenzene (Surr)         | 174 | 9.077        | 9.077            | 0.000            | 89 | 346346   | 25.0            | 25.1              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.035        | 1.035            | 0.000            | 97 | 356592   | 25.0            | 21.0              |       |
| 12 Chloromethane                         | 50  | 1.181        | 1.181            | 0.000            | 99 | 623589   | 25.0            | 23.2              |       |
| 13 Vinyl chloride                        | 62  | 1.248        | 1.241            | 0.007            | 85 | 406511   | 25.0            | 23.8              |       |
| 14 Bromomethane                          | 94  | 1.503        | 1.503            | 0.000            | 91 | 229366   | 25.0            | 23.0              |       |
| 15 Chloroethane                          | 64  | 1.576        | 1.576            | 0.000            | 99 | 254895   | 25.0            | 23.7              |       |
| 17 Trichlorofluoromethane                | 101 | 1.746        | 1.740            | 0.006            | 80 | 480636   | 25.0            | 22.4              |       |
| 21 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 2.191        | 2.184            | 0.007            | 52 | 235609   | 25.0            | 22.9              |       |
| 22 1,1-Dichloroethene                    | 96  | 2.197        | 2.197            | 0.000            | 94 | 273093   | 25.0            | 24.1              |       |
| 23 Acetone                               | 43  | 2.312        | 2.312            | 0.000            | 99 | 727241   | 125.0           | 108.8             |       |
| 26 Carbon disulfide                      | 76  | 2.367        | 2.367            | 0.000            | 99 | 907076   | 25.0            | 24.8              |       |
| 27 Methyl acetate                        | 43  | 2.592        | 2.592            | 0.000            | 99 | 1063982  | 50.0            | 58.5              |       |
| 30 Methylene Chloride                    | 84  | 2.677        | 2.677            | 0.000            | 89 | 341559   | 25.0            | 23.9              |       |
| 32 Methyl tert-butyl ether               | 73  | 2.884        | 2.884            | 0.000            | 84 | 1027198  | 25.0            | 22.6              |       |
| 34 trans-1,2-Dichloroethene              | 96  | 2.896        | 2.896            | 0.000            | 91 | 318385   | 25.0            | 22.4              |       |
| 39 1,1-Dichloroethane                    | 63  | 3.298        | 3.298            | 0.000            | 97 | 671970   | 25.0            | 22.6              |       |
| 45 cis-1,2-Dichloroethene                | 96  | 3.839        | 3.839            | 0.000            | 81 | 351721   | 25.0            | 22.1              |       |
| 43 2-Butanone (MEK)                      | 43  | 3.882        | 3.924            | 0.000            | 96 | 1249177  | 125.0           | 110.7             |       |
| 48 Chlorobromomethane                    | 128 | 4.070        | 4.070            | 0.000            | 91 | 182579   | 25.0            | 20.9              |       |
| 50 Chloroform                            | 83  | 4.149        | 4.149            | 0.000            | 95 | 569740   | 25.0            | 21.6              |       |
| 51 1,1,1-Trichloroethane                 | 97  | 4.247        | 4.247            | 0.000            | 74 | 454753   | 25.0            | 22.0              |       |
| 52 Cyclohexane                           | 56  | 4.247        | 4.247            | 0.000            | 91 | 839289   | 25.0            | 27.3              |       |
| 55 Carbon tetrachloride                  | 117 | 4.381        | 4.381            | 0.000            | 95 | 403147   | 25.0            | 23.0              |       |
| 57 Benzene                               | 78  | 4.600        | 4.600            | 0.000            | 96 | 1407104  | 25.0            | 22.7              |       |
| 58 1,2-Dichloroethane                    | 62  | 4.673        | 4.673            | 0.000            | 81 | 504321   | 25.0            | 20.3              |       |

| Compound                        | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|---------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 62 Trichloroethene              | 95  | 5.202        | 5.202            | 0.000            | 93 | 340130   | 25.0            | 22.3              |       |
| 64 Methylcyclohexane            | 83  | 5.305        | 5.311            | -0.006           | 97 | 654158   | 25.0            | 24.7              |       |
| 65 1,2-Dichloropropane          | 63  | 5.439        | 5.439            | 0.000            | 93 | 389190   | 25.0            | 22.7              |       |
| 68 Dichlorobromomethane         | 83  | 5.737        | 5.737            | 0.000            | 98 | 401843   | 25.0            | 22.7              |       |
| 72 cis-1,3-Dichloropropene      | 75  | 6.145        | 6.151            | -0.006           | 89 | 523924   | 25.0            | 23.8              |       |
| 73 4-Methyl-2-pentanone (MIBK)  | 43  | 6.303        | 6.303            | 0.000            | 97 | 2740581  | 125.0           | 109.5             |       |
| 74 Toluene                      | 92  | 6.425        | 6.425            | 0.000            | 94 | 880416   | 25.0            | 22.4              |       |
| 77 trans-1,3-Dichloropropene    | 75  | 6.717        | 6.717            | 0.000            | 97 | 471280   | 25.0            | 23.8              |       |
| 79 1,1,2-Trichloroethane        | 83  | 6.899        | 6.899            | 0.000            | 94 | 266484   | 25.0            | 22.4              |       |
| 81 Tetrachloroethene            | 166 | 6.942        | 6.942            | 0.000            | 90 | 374653   | 25.0            | 22.0              |       |
| 80 2-Hexanone                   | 43  | 7.137        | 7.136            | 0.000            | 98 | 1916465  | 125.0           | 111.7             |       |
| 83 Chlorodibromomethane         | 129 | 7.289        | 7.288            | 0.001            | 87 | 290179   | 25.0            | 24.5              |       |
| 84 Ethylene Dibromide           | 107 | 7.380        | 7.380            | 0.000            | 99 | 326912   | 25.0            | 22.7              |       |
| 87 Chlorobenzene                | 112 | 7.854        | 7.854            | 0.000            | 93 | 1017540  | 25.0            | 22.0              |       |
| 88 Ethylbenzene                 | 91  | 7.952        | 7.952            | 0.000            | 98 | 1737050  | 25.0            | 23.5              |       |
| 90 m-Xylene & p-Xylene          | 106 | 8.073        | 8.073            | 0.000            | 98 | 685017   |                 | 23.4              |       |
| 91 o-Xylene                     | 106 | 8.493        | 8.493            | 0.000            | 98 | 653582   |                 | 23.2              |       |
| 92 Styrene                      | 104 | 8.524        | 8.530            | -0.006           | 92 | 1111886  | 25.0            | 23.5              |       |
| 95 Bromoform                    | 173 | 8.767        | 8.767            | 0.000            | 97 | 188406   | 25.0            | 23.9              |       |
| 94 Isopropylbenzene             | 105 | 8.876        | 8.882            | -0.006           | 96 | 1846585  | 25.0            | 25.1              |       |
| 97 1,1,2,2-Tetrachloroethane    | 83  | 9.314        | 9.314            | 0.000            | 58 | 437477   | 25.0            | 22.1              |       |
| 111 1,3-Dichlorobenzene         | 146 | 10.197       | 10.196           | 0.001            | 99 | 871224   | 25.0            | 22.3              |       |
| 113 1,4-Dichlorobenzene         | 146 | 10.288       | 10.288           | 0.000            | 94 | 870441   | 25.0            | 21.4              |       |
| 116 1,2-Dichlorobenzene         | 146 | 10.647       | 10.647           | 0.000            | 97 | 840976   | 25.0            | 22.5              |       |
| 117 1,2-Dibromo-3-Chloropropane | 75  | 11.395       | 11.395           | 0.000            | 73 | 74465    | 25.0            | 22.4              |       |
| 119 1,2,4-Trichlorobenzene      | 180 | 12.070       | 12.076           | -0.006           | 93 | 677042   | 25.0            | 23.9              |       |
| 122 1,2,3-Trichlorobenzene      | 180 | 12.490       | 12.490           | 0.000            | 96 | 640802   | 25.0            | 23.0              |       |
| S 124 Xylenes, Total            | 1   |              |                  |                  | 0  |          |                 | 46.6              |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

8260 CORP mix\_00227

Amount Added: 12.50

Units: uL

GAS CORP mix\_00524

Amount Added: 12.50

Units: uL

S\_8260\_IS\_00358

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00427

Amount Added: 1.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4738.D

Injection Date: 16-Aug-2022 21:08:30

Instrument ID: HP5973S

Operator ID: AG

Lims ID: 480-200570-A-1 MS

Worklist Smp#: 54

Client ID: WG-11230275-081022-KM-001

Purge Vol: 5.000 mL

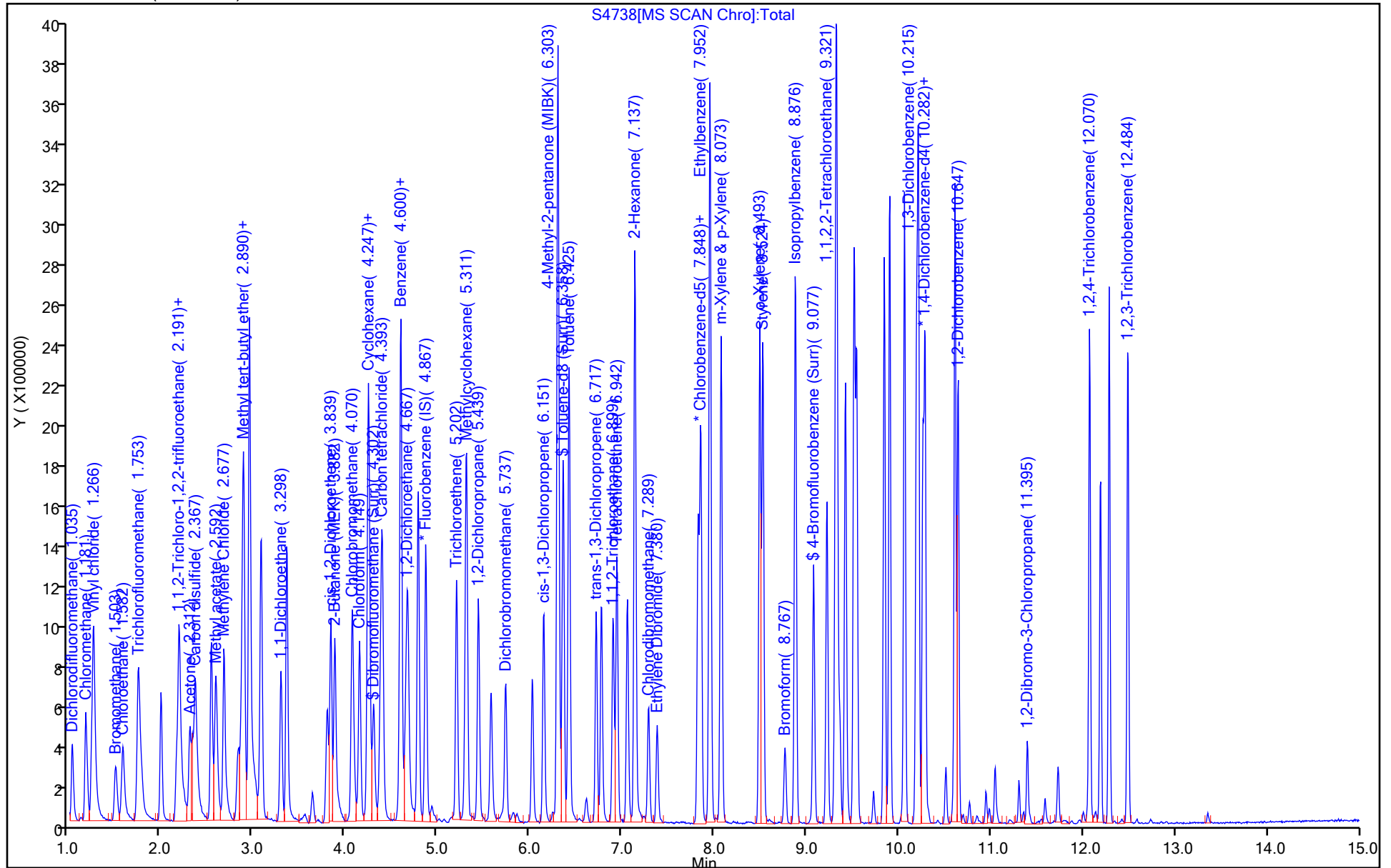
Dil. Factor: 40.0000

ALS Bottle#: 29

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4738.D  
 Lims ID: 480-200570-A-1 MS  
 Client ID: WG-11230275-081022-KM-001  
 Sample Type: MS  
 Inject. Date: 16-Aug-2022 21:08:30 ALS Bottle#: 29 Worklist Smp#: 54  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Sample Info: 480-200570-A-1 MS  
 Misc. Info.: 480-0107106-054  
 Operator ID: AG Instrument ID: HP5973S  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:57:52 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1639

First Level Reviewer: FGO5

Date: 17-Aug-2022 10:58:07

| Compound                           | Amount Added | Amount Recovered | % Rec. |
|------------------------------------|--------------|------------------|--------|
| \$ 154 Dibromofluoromethane (Surr) | 25.0         | 24.5             | 98.05  |
| \$ 4 1,2-Dichloroethane-d4 (Surr)  | 25.0         | 24.5             | 97.93  |
| \$ 5 Toluene-d8 (Surr)             | 25.0         | 25.5             | 101.80 |
| \$ 6 4-Bromofluorobenzene (Surr)   | 25.0         | 25.1             | 100.27 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: WG-11230275-081022-KM-001 Lab Sample ID: 480-200570-1 MSD

Matrix: Water Lab File ID: S4739.D

Analysis Method: 8260C Date Collected: 08/10/2022 13:30

Sample wt/vol: 5 (mL) Date Analyzed: 08/16/2022 21:31

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637566 Units: ug/L

| CAS NO.    | COMPOUND NAME                         | RESULT | Q | RL  | MDL |
|------------|---------------------------------------|--------|---|-----|-----|
| 71-55-6    | 1,1,1-Trichloroethane                 | 802    |   | 40  | 33  |
| 79-34-5    | 1,1,2,2-Tetrachloroethane             | 884    |   | 40  | 8.4 |
| 79-00-5    | 1,1,2-Trichloroethane                 | 870    |   | 40  | 9.2 |
| 76-13-1    | 1,1,2-Trichloro-1,2,2-trifluoroethane | 672    |   | 40  | 12  |
| 75-34-3    | 1,1-Dichloroethane                    | 845    |   | 40  | 15  |
| 75-35-4    | 1,1-Dichloroethene                    | 891    |   | 40  | 12  |
| 120-82-1   | 1,2,4-Trichlorobenzene                | 911    |   | 40  | 16  |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane           | 885    |   | 40  | 16  |
| 95-50-1    | 1,2-Dichlorobenzene                   | 873    |   | 40  | 32  |
| 87-61-6    | 1,2,3-Trichlorobenzene                | 879    |   | 40  | 16  |
| 107-06-2   | 1,2-Dichloroethane                    | 786    |   | 40  | 8.4 |
| 78-87-5    | 1,2-Dichloropropane                   | 867    |   | 40  | 29  |
| 541-73-1   | 1,3-Dichlorobenzene                   | 871    |   | 40  | 31  |
| 106-46-7   | 1,4-Dichlorobenzene                   | 851    |   | 40  | 34  |
| 78-93-3    | 2-Butanone (MEK)                      | 4340   |   | 400 | 53  |
| 591-78-6   | 2-Hexanone                            | 4430   |   | 200 | 50  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK)           | 4310   |   | 200 | 84  |
| 67-64-1    | Acetone                               | 4370   |   | 400 | 120 |
| 71-43-2    | Benzene                               | 853    |   | 40  | 16  |
| 75-27-4    | Bromodichloromethane                  | 854    |   | 40  | 16  |
| 75-25-2    | Bromoform                             | 939    |   | 40  | 10  |
| 74-83-9    | Bromomethane                          | 784    |   | 40  | 28  |
| 75-15-0    | Carbon disulfide                      | 940    |   | 40  | 7.6 |
| 56-23-5    | Carbon tetrachloride                  | 810    |   | 40  | 11  |
| 108-90-7   | Chlorobenzene                         | 848    |   | 40  | 30  |
| 124-48-1   | Dibromochloromethane                  | 970    |   | 40  | 13  |
| 75-00-3    | Chloroethane                          | 916    |   | 40  | 13  |
| 67-66-3    | Chloroform                            | 813    |   | 40  | 14  |
| 74-87-3    | Chloromethane                         | 818    |   | 40  | 14  |
| 156-59-2   | cis-1,2-Dichloroethene                | 844    |   | 40  | 32  |
| 10061-01-5 | cis-1,3-Dichloropropene               | 914    |   | 40  | 14  |
| 110-82-7   | Cyclohexane                           | 999    |   | 40  | 7.2 |
| 75-71-8    | Dichlorodifluoromethane               | 786    |   | 40  | 27  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Client Sample ID: WG-11230275-081022-KM-001 Lab Sample ID: 480-200570-1 MSD  
MSD

Matrix: Water Lab File ID: S4739.D

Analysis Method: 8260C Date Collected: 08/10/2022 13:30

Sample wt/vol: 5 (mL) Date Analyzed: 08/16/2022 21:31

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40

Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: \_\_\_\_\_

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 637566 Units: ug/L

| CAS NO.    | COMPOUND NAME             | RESULT | Q | RL  | MDL |
|------------|---------------------------|--------|---|-----|-----|
| 100-41-4   | Ethylbenzene              | 902    |   | 40  | 30  |
| 106-93-4   | 1,2-Dibromoethane         | 867    |   | 40  | 29  |
| 98-82-8    | Isopropylbenzene          | 976    |   | 40  | 32  |
| 79-20-9    | Methyl acetate            | 2170   |   | 100 | 52  |
| 1634-04-4  | Methyl tert-butyl ether   | 845    |   | 40  | 6.4 |
| 108-87-2   | Methylcyclohexane         | 926    |   | 40  | 6.4 |
| 75-09-2    | Methylene Chloride        | 883    |   | 40  | 18  |
| 100-42-5   | Styrene                   | 917    |   | 40  | 29  |
| 127-18-4   | Tetrachloroethene         | 851    |   | 40  | 14  |
| 108-88-3   | Toluene                   | 865    |   | 40  | 20  |
| 156-60-5   | trans-1,2-Dichloroethene  | 867    |   | 40  | 36  |
| 10061-02-6 | trans-1,3-Dichloropropene | 958    |   | 40  | 15  |
| 79-01-6    | Trichloroethene           | 843    |   | 40  | 18  |
| 75-69-4    | Trichlorofluoromethane    | 809    |   | 40  | 35  |
| 75-01-4    | Vinyl chloride            | 835    |   | 40  | 36  |
| 1330-20-7  | Xylenes, Total            | 1800   |   | 80  | 26  |
| 74-97-5    | Chlorobromomethane        | 781    |   | 40  | 35  |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 2037-26-5  | Toluene-d8 (Surr)            | 102  |   | 80-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95   |   | 77-120 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 95   |   | 75-123 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4739.D  
 Lims ID: 480-200570-A-1 MSD  
 Client ID: WG-11230275-081022-KM-001  
 Sample Type: MSD  
 Inject. Date: 16-Aug-2022 21:31:30 ALS Bottle#: 30 Worklist Smp#: 55  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Sample Info: 480-200570-A-1 MSD  
 Misc. Info.: 480-0107106-055  
 Operator ID: AG Instrument ID: HP5973S  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:57:52 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1639

First Level Reviewer: FGO5

Date: 17-Aug-2022 10:58:25

| Compound                                 | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/L | OnCol Amt<br>ug/L | Flags |
|------------------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 153 Fluorobenzene (IS)                 | 70  | 4.867        | 4.867            | 0.000            | 98  | 218563   | 25.0            | 25.0              |       |
| * 2 Chlorobenzene-d5                     | 82  | 7.824        | 7.824            | 0.000            | 85  | 439206   | 25.0            | 25.0              |       |
| * 3 1,4-Dichlorobenzene-d4               | 152 | 10.264       | 10.263           | 0.001            | 49  | 452115   | 25.0            | 25.0              |       |
| \$ 154 Dibromofluoromethane (Surr)       | 113 | 4.302        | 4.313            | -0.006           | 54  | 264073   | 25.0            | 23.8              |       |
| \$ 4 1,2-Dichloroethane-d4 (Surr)        | 67  | 4.600        | 4.606            | -0.006           | 55  | 178996   | 25.0            | 23.7              |       |
| \$ 5 Toluene-d8 (Surr)                   | 98  | 6.358        | 6.358            | 0.000            | 64  | 1094510  | 25.0            | 25.6              |       |
| \$ 6 4-Bromofluorobenzene (Surr)         | 174 | 9.077        | 9.077            | 0.000            | 92  | 351590   | 25.0            | 24.7              |       |
| 10 Dichlorodifluoromethane               | 85  | 1.035        | 1.035            | 0.000            | 98  | 352028   | 25.0            | 19.6              |       |
| 12 Chloromethane                         | 50  | 1.181        | 1.181            | 0.000            | 100 | 581251   | 25.0            | 20.4              |       |
| 13 Vinyl chloride                        | 62  | 1.248        | 1.241            | 0.007            | 81  | 376993   | 25.0            | 20.9              |       |
| 14 Bromomethane                          | 94  | 1.503        | 1.503            | 0.000            | 91  | 206663   | 25.0            | 19.6              |       |
| 15 Chloroethane                          | 64  | 1.594        | 1.576            | 0.018            | 95  | 260375   | 25.0            | 22.9              |       |
| 17 Trichlorofluoromethane                | 101 | 1.740        | 1.740            | 0.000            | 96  | 458191   | 25.0            | 20.2              |       |
| 21 1,1,2-Trichloro-1,2,2-trifluoroethane | 101 | 2.191        | 2.184            | 0.007            | 47  | 182235   | 25.0            | 16.8              |       |
| 22 1,1-Dichloroethene                    | 96  | 2.197        | 2.197            | 0.000            | 96  | 266266   | 25.0            | 22.3              |       |
| 23 Acetone                               | 43  | 2.312        | 2.312            | 0.000            | 100 | 771656   | 125.0           | 109.4             |       |
| 26 Carbon disulfide                      | 76  | 2.367        | 2.367            | 0.000            | 99  | 906184   | 25.0            | 23.5              |       |
| 27 Methyl acetate                        | 43  | 2.592        | 2.592            | 0.000            | 98  | 1042096  | 50.0            | 54.3              |       |
| 30 Methylene Chloride                    | 84  | 2.683        | 2.677            | 0.006            | 89  | 334182   | 25.0            | 22.1              |       |
| 32 Methyl tert-butyl ether               | 73  | 2.884        | 2.884            | 0.000            | 85  | 1013815  | 25.0            | 21.1              |       |
| 34 trans-1,2-Dichloroethene              | 96  | 2.896        | 2.896            | 0.000            | 92  | 324630   | 25.0            | 21.7              |       |
| 39 1,1-Dichloroethane                    | 63  | 3.298        | 3.298            | 0.000            | 97  | 664284   | 25.0            | 21.1              |       |
| 45 cis-1,2-Dichloroethene                | 96  | 3.839        | 3.839            | 0.000            | 82  | 355400   | 25.0            | 21.1              |       |
| 43 2-Butanone (MEK)                      | 43  | 3.882        | 3.924            | 0.000            | 97  | 1292878  | 125.0           | 108.5             |       |
| 48 Chlorobromomethane                    | 128 | 4.070        | 4.070            | 0.000            | 94  | 179993   | 25.0            | 19.5              |       |
| 50 Chloroform                            | 83  | 4.150        | 4.149            | 0.001            | 95  | 565823   | 25.0            | 20.3              |       |
| 51 1,1,1-Trichloroethane                 | 97  | 4.247        | 4.247            | 0.000            | 75  | 437646   | 25.0            | 20.1              |       |
| 52 Cyclohexane                           | 56  | 4.247        | 4.247            | 0.000            | 89  | 810655   | 25.0            | 25.0              |       |
| 55 Carbon tetrachloride                  | 117 | 4.381        | 4.381            | 0.000            | 96  | 374422   | 25.0            | 20.3              |       |
| 57 Benzene                               | 78  | 4.600        | 4.600            | 0.000            | 96  | 1395034  | 25.0            | 21.3              |       |
| 58 1,2-Dichloroethane                    | 62  | 4.673        | 4.673            | 0.000            | 79  | 515751   | 25.0            | 19.7              |       |



| Compound                        | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 62 Trichloroethene              | 95  | 5.202     | 5.202         | 0.000         | 94 | 339902   | 25.0         | 21.1           |       |
| 64 Methylcyclohexane            | 83  | 5.311     | 5.311         | 0.000         | 96 | 647588   | 25.0         | 23.2           |       |
| 65 1,2-Dichloropropane          | 63  | 5.439     | 5.439         | 0.000         | 93 | 391848   | 25.0         | 21.7           |       |
| 68 Dichlorobromomethane         | 83  | 5.737     | 5.737         | 0.000         | 98 | 398813   | 25.0         | 21.3           |       |
| 72 cis-1,3-Dichloropropene      | 75  | 6.151     | 6.151         | 0.000         | 88 | 529799   | 25.0         | 22.8           |       |
| 73 4-Methyl-2-pentanone (MIBK)  | 43  | 6.303     | 6.303         | 0.000         | 97 | 2772515  | 125.0        | 107.7          |       |
| 74 Toluene                      | 92  | 6.425     | 6.425         | 0.000         | 94 | 875861   | 25.0         | 21.6           |       |
| 77 trans-1,3-Dichloropropene    | 75  | 6.717     | 6.717         | 0.000         | 97 | 487342   | 25.0         | 23.9           |       |
| 79 1,1,2-Trichloroethane        | 83  | 6.899     | 6.899         | 0.000         | 94 | 266685   | 25.0         | 21.7           |       |
| 81 Tetrachloroethene            | 166 | 6.942     | 6.942         | 0.000         | 90 | 373398   | 25.0         | 21.3           |       |
| 80 2-Hexanone                   | 43  | 7.137     | 7.136         | 0.001         | 98 | 1956012  | 125.0        | 110.7          |       |
| 83 Chlorodibromomethane         | 129 | 7.289     | 7.288         | 0.001         | 90 | 295781   | 25.0         | 24.2           |       |
| 84 Ethylene Dibromide           | 107 | 7.380     | 7.380         | 0.000         | 99 | 321041   | 25.0         | 21.7           |       |
| 87 Chlorobenzene                | 112 | 7.854     | 7.854         | 0.000         | 94 | 1010885  | 25.0         | 21.2           |       |
| 88 Ethylbenzene                 | 91  | 7.952     | 7.952         | 0.000         | 99 | 1712493  | 25.0         | 22.6           |       |
| 90 m-Xylene & p-Xylene          | 106 | 8.073     | 8.073         | 0.000         | 98 | 677272   |              | 22.5           |       |
| 91 o-Xylene                     | 106 | 8.493     | 8.493         | 0.000         | 98 | 653142   |              | 22.5           |       |
| 92 Styrene                      | 104 | 8.524     | 8.530         | -0.006        | 91 | 1116957  | 25.0         | 22.9           |       |
| 95 Bromoform                    | 173 | 8.767     | 8.767         | 0.000         | 96 | 190644   | 25.0         | 23.5           |       |
| 94 Isopropylbenzene             | 105 | 8.876     | 8.882         | -0.006        | 96 | 1816706  | 25.0         | 24.4           |       |
| 97 1,1,2,2-Tetrachloroethane    | 83  | 9.314     | 9.314         | 0.000         | 59 | 443855   | 25.0         | 22.1           |       |
| 111 1,3-Dichlorobenzene         | 146 | 10.190    | 10.196        | -0.006        | 98 | 862061   | 25.0         | 21.8           |       |
| 113 1,4-Dichlorobenzene         | 146 | 10.288    | 10.288        | 0.000         | 95 | 874205   | 25.0         | 21.3           |       |
| 116 1,2-Dichlorobenzene         | 146 | 10.647    | 10.647        | 0.000         | 97 | 826944   | 25.0         | 21.8           |       |
| 117 1,2-Dibromo-3-Chloropropane | 75  | 11.395    | 11.395        | 0.000         | 73 | 74396    | 25.0         | 22.1           |       |
| 119 1,2,4-Trichlorobenzene      | 180 | 12.070    | 12.076        | -0.006        | 94 | 653991   | 25.0         | 22.8           |       |
| 122 1,2,3-Trichlorobenzene      | 180 | 12.490    | 12.490        | 0.000         | 95 | 621285   | 25.0         | 22.0           |       |
| S 124 Xylenes, Total            | 1   |           |               |               | 0  |          |              | 45.0           |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

8260 CORP mix\_00227

Amount Added: 12.50

Units: uL

GAS CORP mix\_00524

Amount Added: 12.50

Units: uL

S\_8260\_IS\_00358

Amount Added: 1.00

Units: uL

Run Reagent

S\_8260\_Surr\_00427

Amount Added: 1.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4739.D

Injection Date: 16-Aug-2022 21:31:30

Instrument ID: HP5973S

Operator ID: AG

Lims ID: 480-200570-A-1 MSD

Worklist Smp#: 55

Client ID: WG-11230275-081022-KM-001

Purge Vol: 5.000 mL

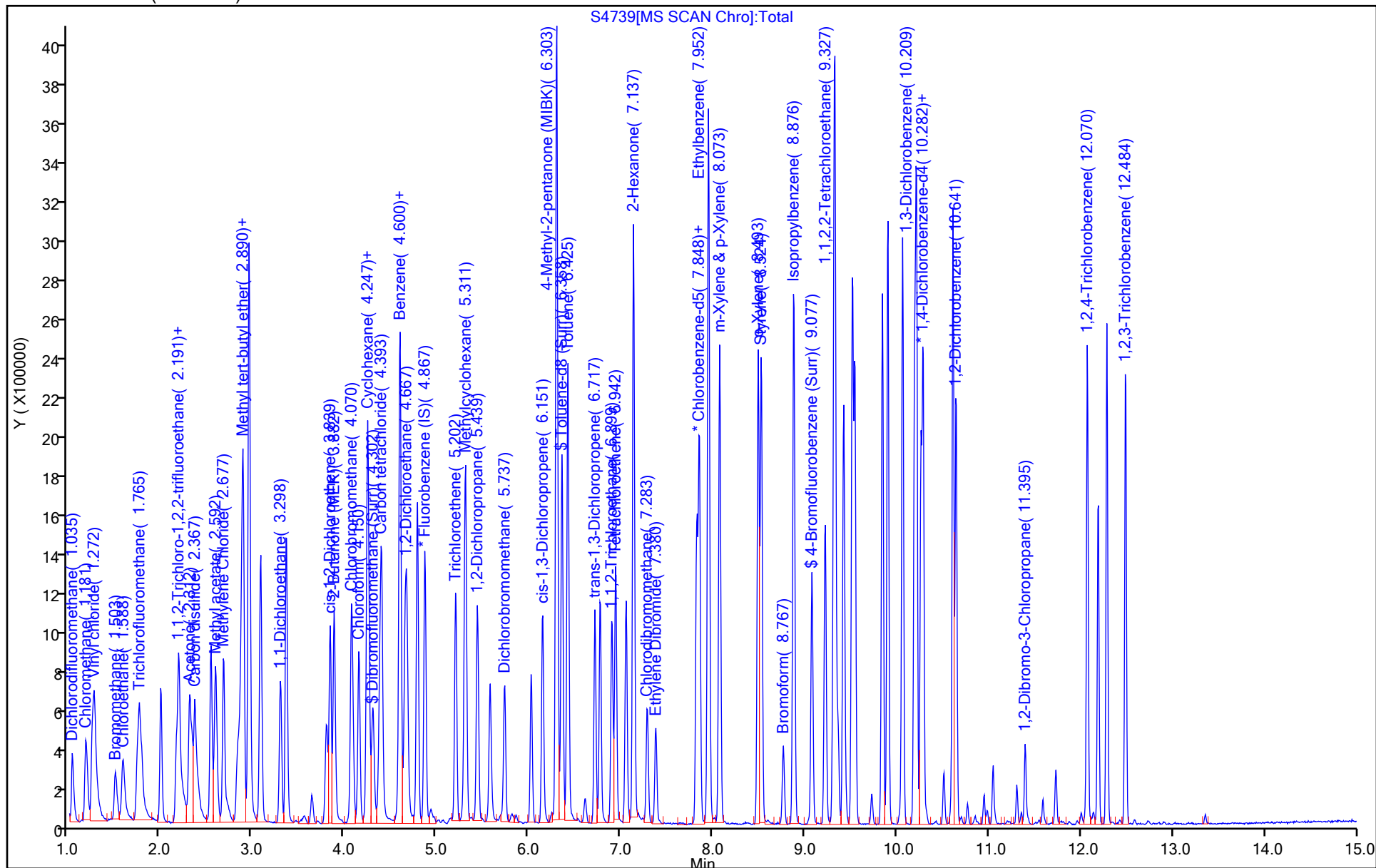
Dil. Factor: 40.0000

ALS Bottle#: 30

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 ( 0.18 mm)



Eurofins Buffalo  
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S4739.D  
 Lims ID: 480-200570-A-1 MSD  
 Client ID: WG-11230275-081022-KM-001  
 Sample Type: MSD  
 Inject. Date: 16-Aug-2022 21:31:30 ALS Bottle#: 30 Worklist Smp#: 55  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Sample Info: 480-200570-A-1 MSD  
 Misc. Info.: 480-0107106-055  
 Operator ID: AG Instrument ID: HP5973S  
 Method: \\chromfs\Buffalo\ChromData\HP5973S\20220816-107106.b\S-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Aug-2022 10:57:52 Calib Date: 10-Aug-2022 00:05:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20220809-106979.b\S4513.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX1639

First Level Reviewer: FGO5

Date: 17-Aug-2022 10:58:25

| Compound                           | Amount Added | Amount Recovered | % Rec. |
|------------------------------------|--------------|------------------|--------|
| \$ 154 Dibromofluoromethane (Surr) | 25.0         | 23.8             | 95.16  |
| \$ 4 1,2-Dichloroethane-d4 (Surr)  | 25.0         | 23.7             | 94.60  |
| \$ 5 Toluene-d8 (Surr)             | 25.0         | 25.6             | 102.27 |
| \$ 6 4-Bromofluorobenzene (Surr)   | 25.0         | 24.7             | 98.92  |

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins BuffaloJob No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5977LStart Date: 07/07/2022 11:11Analysis Batch Number: 632802End Date: 07/07/2022 22:12

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID                    |
|--------------------|------------------|------------------|--------------------|-------------|------------------------------|
| BFB 480-632802/7   |                  | 07/07/2022 11:11 | 1                  | L18023.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/9    |                  | 07/07/2022 12:02 | 1                  | L18025.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/10   |                  | 07/07/2022 12:30 | 1                  | L18026.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/11   |                  | 07/07/2022 12:57 | 1                  | L18027.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/12   |                  | 07/07/2022 13:25 | 1                  | L18028.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/13   |                  | 07/07/2022 13:53 | 1                  | L18029.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| ICIS 480-632802/14 |                  | 07/07/2022 14:21 | 1                  | L18030.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/15   |                  | 07/07/2022 14:48 | 1                  | L18031.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/16   |                  | 07/07/2022 15:16 | 1                  | L18032.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| ZZZZZ              |                  | 07/07/2022 16:11 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/21   |                  | 07/07/2022 17:35 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/22   |                  | 07/07/2022 18:02 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/23   |                  | 07/07/2022 18:30 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/24   |                  | 07/07/2022 18:58 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/25   |                  | 07/07/2022 19:25 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/26   |                  | 07/07/2022 19:53 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| IC 480-632802/27   |                  | 07/07/2022 20:20 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| ZZZZZ              |                  | 07/07/2022 21:16 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| ICV 480-632802/30  |                  | 07/07/2022 21:44 | 1                  | L18046.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| ICV 480-632802/31  |                  | 07/07/2022 22:12 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973S Start Date: 08/09/2022 16:17Analysis Batch Number: 636697 End Date: 08/10/2022 01:37

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID             |
|--------------------|------------------|------------------|--------------------|-------------|-----------------------|
| BFB 480-636697/11  |                  | 08/09/2022 16:17 | 1                  | S4493.D     | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/13   |                  | 08/09/2022 17:06 | 1                  | S4495.D     | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/14   |                  | 08/09/2022 17:30 | 1                  | S4496.D     | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/15   |                  | 08/09/2022 17:53 | 1                  | S4497.D     | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/16   |                  | 08/09/2022 18:16 | 1                  | S4498.D     | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/17   |                  | 08/09/2022 18:40 | 1                  | S4499.D     | ZB-624 (20) 0.18 (mm) |
| ICIS 480-636697/18 |                  | 08/09/2022 19:03 | 1                  | S4500.D     | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/19   |                  | 08/09/2022 19:26 | 1                  | S4501.D     | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/20   |                  | 08/09/2022 19:49 | 1                  | S4502.D     | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                  | 08/09/2022 20:36 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                  | 08/09/2022 20:59 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/25   |                  | 08/09/2022 21:46 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/26   |                  | 08/09/2022 22:09 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/27   |                  | 08/09/2022 22:32 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/28   |                  | 08/09/2022 22:56 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/29   |                  | 08/09/2022 23:18 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/30   |                  | 08/09/2022 23:42 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| IC 480-636697/31   |                  | 08/10/2022 00:05 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                  | 08/10/2022 00:51 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| ICV 480-636697/34  |                  | 08/10/2022 01:14 | 1                  | S4516.D     | ZB-624 (20) 0.18 (mm) |
| ICV 480-636697/35  |                  | 08/10/2022 01:37 | 1                  |             | ZB-624 (20) 0.18 (mm) |

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo

Job No.: 480-200570-1

SDG No.:

Instrument ID: HP5973S

Start Date: 08/16/2022 10:45

Analysis Batch Number: 637566

End Date: 08/16/2022 22:41

| LAB SAMPLE ID      | CLIENT SAMPLE ID              | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID             |
|--------------------|-------------------------------|------------------|--------------------|-------------|-----------------------|
| BFB 480-637566/3   |                               | 08/16/2022 10:45 | 1                  | S4712.D     | ZB-624 (20) 0.18 (mm) |
| CCVIS 480-637566/4 |                               | 08/16/2022 11:17 | 1                  | S4713.D     | ZB-624 (20) 0.18 (mm) |
| CCV 480-637566/5   |                               | 08/16/2022 11:40 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| LCS 480-637566/6   |                               | 08/16/2022 12:03 | 1                  | S4715.D     | ZB-624 (20) 0.18 (mm) |
| RL 480-637566/7    |                               | 08/16/2022 12:27 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| MB 480-637566/8    |                               | 08/16/2022 12:50 | 1                  | S4717.D     | ZB-624 (20) 0.18 (mm) |
| 480-200570-1       | WG-11230275-081022-KM-001     | 08/16/2022 13:25 | 40                 | S4718.D     | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 13:48 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 14:11 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 14:34 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 14:57 | 20                 |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 15:20 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 15:44 | 800                |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 16:06 | 4000               |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 16:29 | 2000               |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 16:52 | 5000               |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 17:15 | 200                |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 17:38 | 2500               |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 18:01 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 18:25 | 2000               |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 18:48 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 19:12 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 19:35 | 2                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 19:58 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 20:21 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 20:45 | 1                  |             | ZB-624 (20) 0.18 (mm) |
| 480-200570-1 MS    | WG-11230275-081022-KM-001 MS  | 08/16/2022 21:08 | 40                 | S4738.D     | ZB-624 (20) 0.18 (mm) |
| 480-200570-1 MSD   | WG-11230275-081022-KM-001 MSD | 08/16/2022 21:31 | 40                 | S4739.D     | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 21:54 | 2                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 22:17 | 2                  |             | ZB-624 (20) 0.18 (mm) |
| ZZZZZ              |                               | 08/16/2022 22:41 | 1                  |             | ZB-624 (20) 0.18 (mm) |

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L Start Date: 08/16/2022 13:58Analysis Batch Number: 637640 End Date: 08/16/2022 17:43

| LAB SAMPLE ID      | CLIENT SAMPLE ID              | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID                    |
|--------------------|-------------------------------|------------------|--------------------|-------------|------------------------------|
| BFB 480-637640/3   |                               | 08/16/2022 13:58 | 1                  | L19192.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| CCVIS 480-637640/4 |                               | 08/16/2022 14:21 | 1                  | L19193.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| CCV 480-637640/5   |                               | 08/16/2022 14:55 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| LCS 480-637640/6   |                               | 08/16/2022 15:19 | 1                  | L19195.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| LCSD 480-637640/7  |                               | 08/16/2022 15:43 | 1                  | L19196.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| RL 480-637640/8    |                               | 08/16/2022 16:07 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| MB 480-637640/9    |                               | 08/16/2022 16:30 | 1                  | L19198.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| 480-200570-2       | WG-11230275-081022-KM<br>-002 | 08/16/2022 16:56 | 40                 | L19199.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| 480-200570-3       | WG-11230275-081022-KM<br>-003 | 08/16/2022 17:20 | 10                 | L19200.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| 480-200570-4       | TB-11230275-081022-KM         | 08/16/2022 17:43 | 1                  | L19201.D    | ZB-624 (30) VOA<br>0.25 (mm) |

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5977L Start Date: 08/17/2022 11:14Analysis Batch Number: 637762 End Date: 08/17/2022 22:12

| LAB SAMPLE ID      | CLIENT SAMPLE ID                 | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID                    |
|--------------------|----------------------------------|------------------|--------------------|-------------|------------------------------|
| BFB 480-637762/3   |                                  | 08/17/2022 11:14 | 1                  | L19225.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| CCVIS 480-637762/4 |                                  | 08/17/2022 11:41 | 1                  | L19226.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| CCV 480-637762/5   |                                  | 08/17/2022 12:16 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| LCS 480-637762/6   |                                  | 08/17/2022 12:51 | 1                  | L19228.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| LCSD 480-637762/7  |                                  | 08/17/2022 13:14 | 1                  | L19229.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| RL 480-637762/8    |                                  | 08/17/2022 13:45 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| MB 480-637762/9    |                                  | 08/17/2022 14:09 | 1                  | L19231.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| 480-200570-3 DL    | WG-11230275-081022-KM<br>-003 DL | 08/17/2022 14:43 | 40                 | L19232.D    | ZB-624 (30) VOA<br>0.25 (mm) |
| ZZZZZ              |                                  | 08/17/2022 21:49 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |
| ZZZZZ              |                                  | 08/17/2022 22:12 | 1                  |             | ZB-624 (30) VOA<br>0.25 (mm) |



## GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Batch Number: 632802 Batch Start Date: 07/07/22 11:11 Batch Analyst: Hill, Leah CBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | 8260 CORP mix<br>00226 | BFB_WRK 00136 | GAS CORP mix<br>00517 | L_8260_IS 00038 |
|-----------------------|------------------|--------------|-------|---------------|-------------|------------------------|---------------|-----------------------|-----------------|
| BFB<br>480-632802/7   |                  | 8260C        |       | 1 uL          | 1 uL        |                        | 1 uL          |                       |                 |
| IC 480-632802/9       |                  | 8260C        |       | 5 mL          | 5 mL        | 0.4 uL                 |               | 0.4 uL                | 2 uL            |
| IC<br>480-632802/10   |                  | 8260C        |       | 5 mL          | 5 mL        | 1 uL                   |               | 1 uL                  | 2 uL            |
| IC<br>480-632802/11   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                   |               | 2 uL                  | 2 uL            |
| IC<br>480-632802/12   |                  | 8260C        |       | 5 mL          | 5 mL        | 5 uL                   |               | 5 uL                  | 2 uL            |
| IC<br>480-632802/13   |                  | 8260C        |       | 5 mL          | 5 mL        | 5 uL                   |               | 5 uL                  | 2 uL            |
| ICIS<br>480-632802/14 |                  | 8260C        |       | 5 mL          | 5 mL        | 12.5 uL                |               | 12.5 uL               | 2 uL            |
| IC<br>480-632802/15   |                  | 8260C        |       | 5 mL          | 5 mL        | 25 uL                  |               | 25 uL                 | 2 uL            |
| IC<br>480-632802/16   |                  | 8260C        |       | 5 mL          | 5 mL        | 50 uL                  |               | 50 uL                 | 2 uL            |
| ICV<br>480-632802/30  |                  | 8260C        |       | 5 mL          | 5 mL        |                        |               |                       | 2 uL            |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | L_8260_SURR<br>00036 | SS 8260 CORP<br>00101 | SS GAS CORP<br>00461 |  |  |  |
|-----------------------|------------------|--------------|-------|----------------------|-----------------------|----------------------|--|--|--|
| BFB<br>480-632802/7   |                  | 8260C        |       |                      |                       |                      |  |  |  |
| IC 480-632802/9       |                  | 8260C        |       | 2 uL                 |                       |                      |  |  |  |
| IC<br>480-632802/10   |                  | 8260C        |       | 2 uL                 |                       |                      |  |  |  |
| IC<br>480-632802/11   |                  | 8260C        |       | 2 uL                 |                       |                      |  |  |  |
| IC<br>480-632802/12   |                  | 8260C        |       | 2 uL                 |                       |                      |  |  |  |
| IC<br>480-632802/13   |                  | 8260C        |       | 2 uL                 |                       |                      |  |  |  |
| ICIS<br>480-632802/14 |                  | 8260C        |       | 2 uL                 |                       |                      |  |  |  |
| IC<br>480-632802/15   |                  | 8260C        |       | 2 uL                 |                       |                      |  |  |  |
| IC<br>480-632802/16   |                  | 8260C        |       | 2 uL                 |                       |                      |  |  |  |
| ICV<br>480-632802/30  |                  | 8260C        |       | 2 uL                 | 12.5 uL               | 12.5 uL              |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

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## GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Batch Number: 632802 Batch Start Date: 07/07/22 11:11 Batch Analyst: Hill, Leah CBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Batch Notes |  |
|-------------|--|
|             |  |
|             |  |

| Basis | Basis Description |
|-------|-------------------|
|       |                   |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

Page 2 of 2

## GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Batch Number: 636697 Batch Start Date: 08/09/22 16:17 Batch Analyst: Gruning, Anton TBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | 8260 CORP mix<br>00228 | BFB_WRK 00137 | GAS CORP mix<br>00524 | S_8260_IS 00357 |
|-----------------------|------------------|--------------|-------|---------------|-------------|------------------------|---------------|-----------------------|-----------------|
| BFB<br>480-636697/11  |                  | 8260C        |       | 1 uL          | 1 uL        |                        | 1 uL          |                       |                 |
| IC<br>480-636697/13   |                  | 8260C        |       | 5 mL          | 5 mL        | 0.5 uL                 |               | 0.5 uL                | 1 uL            |
| IC<br>480-636697/14   |                  | 8260C        |       | 5 mL          | 5 mL        | 1 uL                   |               | 1 uL                  | 1 uL            |
| IC<br>480-636697/15   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                   |               | 2 uL                  | 1 uL            |
| IC<br>480-636697/16   |                  | 8260C        |       | 5 mL          | 5 mL        | 5 uL                   |               | 5 uL                  | 1 uL            |
| IC<br>480-636697/17   |                  | 8260C        |       | 5 mL          | 5 mL        | 5 uL                   |               | 5 uL                  | 1 uL            |
| ICIS<br>480-636697/18 |                  | 8260C        |       | 5 mL          | 5 mL        | 12.5 uL                |               | 12.5 uL               | 1 uL            |
| IC<br>480-636697/19   |                  | 8260C        |       | 5 mL          | 5 mL        | 25 uL                  |               | 25 uL                 | 1 uL            |
| IC<br>480-636697/20   |                  | 8260C        |       | 5 mL          | 5 mL        | 50 uL                  |               | 50 uL                 | 1 uL            |
| ICV<br>480-636697/34  |                  | 8260C        |       | 5 mL          | 5 mL        |                        |               |                       | 1 uL            |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | S_8260_Surr<br>00426 | SS 8260 CORP<br>00102 | SS GAS CORP<br>00469 |  |  |  |
|-----------------------|------------------|--------------|-------|----------------------|-----------------------|----------------------|--|--|--|
| BFB<br>480-636697/11  |                  | 8260C        |       |                      |                       |                      |  |  |  |
| IC<br>480-636697/13   |                  | 8260C        |       | 1 uL                 |                       |                      |  |  |  |
| IC<br>480-636697/14   |                  | 8260C        |       | 1 uL                 |                       |                      |  |  |  |
| IC<br>480-636697/15   |                  | 8260C        |       | 1 uL                 |                       |                      |  |  |  |
| IC<br>480-636697/16   |                  | 8260C        |       | 1 uL                 |                       |                      |  |  |  |
| IC<br>480-636697/17   |                  | 8260C        |       | 1 uL                 |                       |                      |  |  |  |
| ICIS<br>480-636697/18 |                  | 8260C        |       | 1 uL                 |                       |                      |  |  |  |
| IC<br>480-636697/19   |                  | 8260C        |       | 1 uL                 |                       |                      |  |  |  |
| IC<br>480-636697/20   |                  | 8260C        |       | 1 uL                 |                       |                      |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

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## GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Batch Number: 636697 Batch Start Date: 08/09/22 16:17 Batch Analyst: Gruning, Anton TBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | S_8260_Surr<br>00426 | SS 8260 CORP<br>00102 | SS GAS CORP<br>00469 |  |  |  |
|----------------------|------------------|--------------|-------|----------------------|-----------------------|----------------------|--|--|--|
| ICV<br>480-636697/34 |                  | 8260C        |       | 1 uL                 | 12.5 uL               | 12.5 uL              |  |  |  |

| Batch Notes |  |
|-------------|--|
|             |  |

| Basis | Basis Description |
|-------|-------------------|
|       |                   |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Batch Number: 637566 Batch Start Date: 08/16/22 10:45 Batch Analyst: Gruning, Anton TBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID              | Method Chain | Basis | InitialAmount | FinalAmount | Initial pH | 8260 CORP mix<br>00227 | BFB_WRK 00137 | GAS CORP mix<br>00524 |
|-----------------------|-------------------------------|--------------|-------|---------------|-------------|------------|------------------------|---------------|-----------------------|
| BFB<br>480-637566/3   |                               | 8260C        |       | 1 uL          | 1 uL        |            |                        | 1 uL          |                       |
| CCVIS<br>480-637566/4 |                               | 8260C        |       | 5 mL          | 5 mL        |            | 12.5 uL                |               | 12.5 uL               |
| LCS<br>480-637566/6   |                               | 8260C        |       | 5 mL          | 5 mL        |            | 12.5 uL                |               | 12.5 uL               |
| MB 480-637566/8       |                               | 8260C        |       | 5 mL          | 5 mL        |            |                        |               |                       |
| 480-200570-A-1        | WG-11230275-0810<br>22-KM-001 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      |                        |               |                       |
| 480-200570-A-1<br>MS  | WG-11230275-0810<br>22-KM-001 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 12.5 uL                |               | 12.5 uL               |
| 480-200570-A-1<br>MSD | WG-11230275-0810<br>22-KM-001 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 12.5 uL                |               | 12.5 uL               |

| Lab Sample ID         | Client Sample ID              | Method Chain | Basis | S_8260_IS 00358 | S_8260_Surr<br>00427 | AnalysisComment |  |  |  |
|-----------------------|-------------------------------|--------------|-------|-----------------|----------------------|-----------------|--|--|--|
| BFB<br>480-637566/3   |                               | 8260C        |       |                 |                      |                 |  |  |  |
| CCVIS<br>480-637566/4 |                               | 8260C        |       | 1 uL            | 1 uL                 |                 |  |  |  |
| LCS<br>480-637566/6   |                               | 8260C        |       | 1 uL            | 1 uL                 |                 |  |  |  |
| MB 480-637566/8       |                               | 8260C        |       | 1 uL            | 1 uL                 |                 |  |  |  |
| 480-200570-A-1        | WG-11230275-0810<br>22-KM-001 | 8260C        | T     | 1 uL            | 1 uL                 | foam            |  |  |  |
| 480-200570-A-1<br>MS  | WG-11230275-0810<br>22-KM-001 | 8260C        | T     | 1 uL            | 1 uL                 | client, foam    |  |  |  |
| 480-200570-A-1<br>MSD | WG-11230275-0810<br>22-KM-001 | 8260C        | T     | 1 uL            | 1 uL                 | client, foam    |  |  |  |

| Batch Notes |  |
|-------------|--|
|             |  |
|             |  |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

Page 1 of 1

## GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Batch Number: 637640 Batch Start Date: 08/16/22 13:58 Batch Analyst: Baker, ChristaBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID              | Method Chain | Basis | InitialAmount | FinalAmount | Initial pH | 3_MCP_Add_WRK<br>00364 | 8260 CORP mix<br>00227 | ADD CORP mix<br>00127 |
|-----------------------|-------------------------------|--------------|-------|---------------|-------------|------------|------------------------|------------------------|-----------------------|
| BFB<br>480-637640/3   |                               | 8260C        |       | 1 uL          | 1 uL        |            |                        |                        |                       |
| CCVIS<br>480-637640/4 |                               | 8260C        |       | 5 mL          | 5 mL        |            |                        | 12.5 uL                |                       |
| LCS<br>480-637640/6   |                               | 8260C        |       | 5 mL          | 5 mL        |            | 12.5 uL                | 12.5 uL                | 12.5 uL               |
| LCSD<br>480-637640/7  |                               | 8260C        |       | 5 mL          | 5 mL        |            | 12.5 uL                | 12.5 uL                | 12.5 uL               |
| MB 480-637640/9       |                               | 8260C        |       | 5 mL          | 5 mL        |            |                        |                        |                       |
| 480-200570-B-2        | WG-11230275-0810<br>22-KM-002 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      |                        |                        |                       |
| 480-200570-B-3        | WG-11230275-0810<br>22-KM-003 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      |                        |                        |                       |
| 480-200570-B-4        | TB-11230275-0810<br>22-KM     | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      |                        |                        |                       |

| Lab Sample ID         | Client Sample ID              | Method Chain | Basis | BFB_WRK 00137 | GAS CORP mix<br>00524 | L_8260_IS 00038 | L_8260_SURR<br>00036 | AnalysisComment |  |
|-----------------------|-------------------------------|--------------|-------|---------------|-----------------------|-----------------|----------------------|-----------------|--|
| BFB<br>480-637640/3   |                               | 8260C        |       | 1 uL          |                       |                 |                      |                 |  |
| CCVIS<br>480-637640/4 |                               | 8260C        |       |               | 12.5 uL               | 2 uL            | 2 uL                 |                 |  |
| LCS<br>480-637640/6   |                               | 8260C        |       |               | 12.5 uL               | 2 uL            | 2 uL                 |                 |  |
| LCSD<br>480-637640/7  |                               | 8260C        |       |               | 12.5 uL               | 2 uL            | 2 uL                 |                 |  |
| MB 480-637640/9       |                               | 8260C        |       |               |                       | 2 uL            | 2 uL                 |                 |  |
| 480-200570-B-2        | WG-11230275-0810<br>22-KM-002 | 8260C        | T     |               |                       | 2 uL            | 2 uL                 | target          |  |
| 480-200570-B-3        | WG-11230275-0810<br>22-KM-003 | 8260C        | T     |               |                       | 2 uL            | 2 uL                 | target, rr 40X  |  |
| 480-200570-B-4        | TB-11230275-0810<br>22-KM     | 8260C        | T     |               |                       | 2 uL            | 2 uL                 |                 |  |

| Batch Notes |  |
|-------------|--|
|             |  |
|             |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

Page 1 of 2

## GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Batch Number: 637640 Batch Start Date: 08/16/22 13:58 Batch Analyst: Baker, ChristaBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

Page 2 of 2

## GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-200570-1

SDG No.: \_\_\_\_\_

Batch Number: 637762 Batch Start Date: 08/17/22 11:14 Batch Analyst: Baker, ChristaBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID              | Method Chain | Basis | InitialAmount | FinalAmount | Initial pH | 3_MCP_Add_WRK<br>00364 | 8260 CORP mix<br>00227 | ADD CORP mix<br>00127 |
|-----------------------|-------------------------------|--------------|-------|---------------|-------------|------------|------------------------|------------------------|-----------------------|
| BFB<br>480-637762/3   |                               | 8260C        |       | 1 uL          | 1 uL        |            |                        |                        |                       |
| CCVIS<br>480-637762/4 |                               | 8260C        |       | 5 mL          | 5 mL        |            |                        | 12.5 uL                |                       |
| LCS<br>480-637762/6   |                               | 8260C        |       | 5 mL          | 5 mL        |            | 12.5 uL                | 12.5 uL                | 12.5 uL               |
| LCSD<br>480-637762/7  |                               | 8260C        |       | 5 mL          | 5 mL        |            | 12.5 uL                | 12.5 uL                | 12.5 uL               |
| MB 480-637762/9       |                               | 8260C        |       | 5 mL          | 5 mL        |            |                        |                        |                       |
| 480-200570-C-3        | WG-11230275-0810<br>22-KM-003 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      |                        |                        |                       |

| Lab Sample ID         | Client Sample ID              | Method Chain | Basis | BFB_WRK 00137 | GAS CORP mix<br>00525 | L_8260_IS 00038 | L_8260_SURR<br>00036 | AnalysisComment |  |
|-----------------------|-------------------------------|--------------|-------|---------------|-----------------------|-----------------|----------------------|-----------------|--|
| BFB<br>480-637762/3   |                               | 8260C        |       | 1 uL          |                       |                 |                      |                 |  |
| CCVIS<br>480-637762/4 |                               | 8260C        |       |               | 12.5 uL               | 2 uL            | 2 uL                 |                 |  |
| LCS<br>480-637762/6   |                               | 8260C        |       |               | 12.5 uL               | 2 uL            | 2 uL                 |                 |  |
| LCSD<br>480-637762/7  |                               | 8260C        |       |               | 12.5 uL               | 2 uL            | 2 uL                 |                 |  |
| MB 480-637762/9       |                               | 8260C        |       |               |                       | 2 uL            | 2 uL                 |                 |  |
| 480-200570-C-3        | WG-11230275-0810<br>22-KM-003 | 8260C        | T     |               |                       | 2 uL            | 2 uL                 | target          |  |

| Batch Notes |  |
|-------------|--|
|             |  |
|             |  |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



# Shipping and Receiving Documents

## CHAIN OF CUSTODY RECORD

COC NO.: 60050

Address: 2055 Niagara Fall Blvd Niagara Falls NY 14304 PAGE 1 OF 1

Phone: 716 297 6150 Fax:

|                                           |                                      |                                |            |
|-------------------------------------------|--------------------------------------|--------------------------------|------------|
| Project No/ Phase/Task Code:<br>11230275- | Laboratory Name:<br>EuroFins Buffalo | Lab Location:<br>to Amherst NY | SSOW ID:   |
| Project Name:<br>815 River Rd             | Lab Contact:<br>Denise Heckler       |                                | Cooler No: |

|                                             |             |                                                         |                         |
|---------------------------------------------|-------------|---------------------------------------------------------|-------------------------|
| Project Location: 815 River Rd N. Tonawanda | SAMPLE TYPE | ANALYSIS REQUESTED<br>(See Back of COC for Definitions) | Carrier: Hand Delivered |
|---------------------------------------------|-------------|---------------------------------------------------------|-------------------------|

[illegible]

|                                                  |     |         |    |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------|-----|---------|----|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Sampler(s): <u>D. Tyran K. Miller J. Kawecki</u> | COC | Comp (( | N) | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------|-----|---------|----|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

[illegible][illegible]

|   |                           |         |      |    |   |   |   |   |
|---|---------------------------|---------|------|----|---|---|---|---|
| 1 | WG-11230275-081022-KM-001 | 8/10/22 | 1330 | WG | G | N | X | 9 |
| 2 | WG-11230275-081022-KM-002 | 8/10/22 | 1430 | WG | G | N | X | 3 |
| 3 | WG-11230275-081022-KM-003 | 8/10/22 | 1430 | WG | G | N | X | 3 |
| 4 | TB-11230275-081022-KM     | 8/10/22 |      | TB | G | N | X | 2 |

5

6

7

8

9

10

11

12

KM

|                                                                                                                                                                                                                                                                                                                                       |                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <p><b>TAT Required in business days (use separate COCs for different TATs):</b></p> <p> <input type="checkbox"/> <input type="checkbox"/> 1 Day         <input checked="" type="checkbox"/> 2 Days         <input type="checkbox"/> 3 Days         <input type="checkbox"/> 1 Week         <input type="checkbox"/> 2 Week       </p> | <p><b>Notes/ Special Requirements:</b></p> <p>8/1/2024 4.6 #1 ICE</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|

| RELINQUISHED BY | COMPANY | DATE    | TIME | RECEIVED BY       | COMPANY | DATE    | TIME |
|-----------------|---------|---------|------|-------------------|---------|---------|------|
| 1. <i>RR</i>    | GHD     | 8/10/22 | 1435 | 1. <i>Chauhan</i> | TA      | 8/10/22 | 1600 |
| 2.              |         |         |      | 2.                |         |         |      |
| 3.              |         |         |      | 3.                |         |         |      |

**THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY**

**Distribution:** WHITE – Fully Executed Copy (CRA)

YELLOW – Receiving Laboratory Copy

PINK - Shinnor

COLLEGE 2 2 1

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-200570-1

**Login Number: 200570**

**List Source: Eurofins Buffalo**

**List Number: 1**

**Creator: Stopa, Erik S**

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True   |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |         |
| Samples are received within Holding Time (Excluding tests with immediate HTs)..  | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified                                                     | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |         |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True   |         |
| Multiphasic samples are not present.                                             | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Sampling Company provided.                                                       | True   | GHD     |
| Samples received within 48 hours of sampling.                                    | True   |         |
| Samples requiring field filtration have been filtered in the field.              | N/A    |         |
| Chlorine Residual checked.                                                       | N/A    |         |

# **Appendix C**

## **Data Usability Report**

# Technical Memorandum

30 September 2022

|                |                                                                                                                                                                        |                 |                        |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|
| <b>To</b>      | John Pentilchuk                                                                                                                                                        | <b>Tel</b>      | 716-205-1942           |
| <b>Copy to</b> | John Sweeney, Linda Waters                                                                                                                                             | <b>Email</b>    | Kathleen.Willy@ghd.com |
| <b>From</b>    | Kathy Willy/cs/2                                                                                                                                                       | <b>Ref. No.</b> | 11230275               |
| <b>Subject</b> | <b>Data Usability Summary Report<br/>North Tonawanda 815 River Road Groundwater Sampling<br/>City of North Tonawanda<br/>North Tonawanda, New York<br/>August 2022</b> |                 |                        |

## 1. Introduction

This document details the data usability and quality assessment of the analytical data resulting from the collection of groundwater samples from 815 River Road located in North Tonawanda, New York. Samples were submitted to Eurofins Buffalo, located in Amherst, New York. The sample summary detailing sample identification and analytical parameters is presented in Table 1. The validated analytical results are summarized in Table 2. Samples were analyzed in accordance with the methodology presented in Table 3.

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation "DER 10, Technical Guidance for Site Investigation and Remediation, Appendix 2B Guidance for Data Deliverables and the Development of Data Usability Summary Reports," (DER 10) May 2010.

## 2. Analytical Methodology and Data Validation

Evaluation of the data was based on information obtained from the finished data sheets, raw data, the chain of custody form, calibration data, blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field QC samples. The assessment of analytical and in house data included checks for adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical method referenced in Table 3 and applicable guidance from the document entitled: "National Functional Guidelines for Organic Superfund Methods Data Review", USEPA 540R20005, November 2020. This document will subsequently be referred to as the "Guidelines" in this Memorandum.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results, supporting QA/QC and all raw data provided.

### **3. QA/QC Review**

#### **3.1 Deliverables**

The data package was complete as defined under the requirements for Analytical Service Protocol (ASP).

### **4. Sample Holding Time and Preservation**

The sample holding time criteria for the analysis is summarized in Table 3. The sample chain of custody document and analytical report was used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

### **5. Gas Chromatography/Mass Spectrometer (GC/MS)**

Prior to volatile organic compound (VOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the method requires the analysis of the specific tuning compound bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

### **6. Initial Calibration**

To quantify VOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

1. All relative response factors (RRFs) must be greater than or equal to the values listed in the Guidelines.
2. The percent relative standard deviation (%RSD) values must not exceed 20.0 percent or a minimum correlation coefficient (R) and minimum coefficient of determination ( $R^2$ ) of 0.99 if linear and quadratic equation calibration curves are used.

The initial calibration data for VOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

### **7. Continuing Calibration**

To ensure that instrument calibration for VOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

1. All RRF values must be greater than or equal to the values listed in the Guidelines.
2. Percent difference (%D) values must not exceed 20.0 percent.

Calibration standards were analyzed at the required frequency, and results met the above criteria for instrument sensitivity and stability with the exception of acetone and 1,2,4-trichlorobenzene. Associated sample results were qualified as estimated to reflect the indicated variability in instrument response (see Table 4).

## **8. Laboratory Blank Analyses**

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blanks were non-detect, indicating that laboratory contamination was not a factor for this investigation.

## **9. Surrogate Spike Recoveries**

In accordance with the method employed, all samples, blanks, and QC samples analyzed for volatile organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Each individual surrogate compound is expected to meet the laboratory control limits.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory criteria.

## **10. Internal Standards (IS) Analyses**

IS data were evaluated for all VOC sample analyses.

To ensure that changes in the GC/MS sensitivity and response do not affect sample analysis results, IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

1. The retention time of the IS must not vary more than  $\pm 30$  seconds from the associated calibration standard.
2. IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard.

All IS recoveries and retention times met the above criteria.

## **11. Laboratory Control Sample Analyses**

LCS and LCS/laboratory duplicates (LCSD) are analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS and LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS and LCS/LCSD contained all compounds of interest. All LCS recoveries and RPDs (where applicable) were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision with the exception of some high LCS recoveries. All associated sample results were non-detect and would not have been impacted by the implied high bias.

## **12. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses**

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with all compounds of. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision, with the exception of high RPD values for bromomethane (methyl bromide) and trifluorotrichloroethane (CFC-113). All associated sample results were non-detect and would not have been affected by the demonstrated variability.

## **13. Field QA/QC Samples**

The field QA/QC consisted of one trip blank sample and one field duplicate sample set.

### **13.1 Trip Blank Sample Analysis**

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

### **13.2 Field Duplicate Sample Analysis**

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with this duplicate sample must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value.

All field duplicate results met the above criteria, demonstrating acceptable sampling and analytical precision.



## 14. Analyte Reporting

The laboratory reported detected results down to the laboratory's MDL for each analyte. Positive analyte detections less than the RL but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

## 15. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Regards,

*Kathy Willy*

**Kathy Willy**  
Data Management – Data Intelligence - Chemist

Table 1

**Sample Collection and Analysis Summary**  
**North Tonawanda 815 River Road Groundwater Sampling**  
**City of North Tonawanda**  
**North Tonawanda, New York**  
**August 2022**

| Sample Identification     | Location | Matrix | Collection Date<br>(mm/dd/yyyy) | Collection Time<br>(hr:min) | Analysis/Parameters | Comments                                     |
|---------------------------|----------|--------|---------------------------------|-----------------------------|---------------------|----------------------------------------------|
|                           |          |        |                                 |                             | VOC                 |                                              |
| WG-11230275-081022-KM-001 | MW-1     | Water  | 08/10/2022                      | 13:30                       | X                   | MS/MSD                                       |
| WG-11230275-081022-KM-002 | MW-2     | Water  | 08/10/2022                      | 14:30                       | X                   |                                              |
| WG-11230275-081022-KM-003 | MW-2     | Water  | 08/10/2022                      | 14:30                       | X                   | Field duplicate of WG-11230275-081022-KM-002 |
| TB-11230275-081022-KM     | -        | Water  | 08/10/2022                      | -                           | X                   | Trip Blank                                   |

## Notes:

VOC            - Volatile Organic Compound  
 "-"            - Not Applicable  
 MS/MSD      - Matrix Spiike/Matrix Spike Duplicate

Table 2

**Analytical Results Summary**  
**North Tonawanda 815 River Road Groundwater Sampling**  
**City of North Tonawanda**  
**North Tonawanda, New York**  
**August 2022**

| Location ID:                                         |      | MW-1                      | MW-2                      | MW-2                      |
|------------------------------------------------------|------|---------------------------|---------------------------|---------------------------|
| Sample Name:                                         |      | WG-11230275-081022-KM-001 | WG-11230275-081022-KM-002 | WG-11230275-081022-KM-003 |
| Sample Date:                                         |      | 08/10/2022                | 08/10/2022                | 08/10/2022<br>Duplicate   |
| Parameters                                           | Unit |                           |                           |                           |
| <b>Volatile Organic Compounds</b>                    |      |                           |                           |                           |
| 1,1,1-Trichloroethane                                | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 1,1,2,2-Tetrachloroethane                            | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 1,1,2-Trichloroethane                                | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 1,1-Dichloroethane                                   | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 1,1-Dichloroethene                                   | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 1,2,3-Trichlorobenzene                               | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 1,2,4-Trichlorobenzene                               | µg/L | 40 U                      | 40 UJ                     | 10 UJ                     |
| 1,2-Dibromo-3-chloropropane (DBCP)                   | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 1,2-Dibromoethane (Ethylene dibromide)               | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 1,2-Dichlorobenzene                                  | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 1,2-Dichloroethane                                   | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 1,2-Dichloropropane                                  | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 1,3-Dichlorobenzene                                  | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 1,4-Dichlorobenzene                                  | µg/L | 40 U                      | 40 U                      | 10 U                      |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L | 400 U                     | 400 U                     | 100 U                     |
| 2-Hexanone                                           | µg/L | 200 U                     | 200 U                     | 50 U                      |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 200 U                     | 200 U                     | 50 U                      |
| Acetone                                              | µg/L | 400 U                     | 400 UJ                    | 51 J                      |
| Benzene                                              | µg/L | 40 U                      | 130                       | 120                       |
| Bromodichloromethane                                 | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Bromoform                                            | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Bromomethane (Methyl bromide)                        | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Carbon disulfide                                     | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Carbon tetrachloride                                 | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Chlorobenzene                                        | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Chlorobromomethane                                   | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Chloroethane                                         | µg/L | 40 U                      | 40 U                      | 10 U                      |

Table 2

**Analytical Results Summary**  
**North Tonawanda 815 River Road Groundwater Sampling**  
**City of North Tonawanda**  
**North Tonawanda, New York**  
**August 2022**

| Location ID:                       |      | MW-1                      | MW-2                      | MW-2                      |
|------------------------------------|------|---------------------------|---------------------------|---------------------------|
| Sample Name:                       |      | WG-11230275-081022-KM-001 | WG-11230275-081022-KM-002 | WG-11230275-081022-KM-003 |
| Sample Date:                       |      | 08/10/2022                | 08/10/2022                | 08/10/2022                |
|                                    |      |                           |                           | Duplicate                 |
| Parameters                         | Unit |                           |                           |                           |
| <b>Volatile Organic Compounds</b>  |      |                           |                           |                           |
| Chloroform (Trichloromethane)      | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Chloromethane (Methyl chloride)    | µg/L | 40 U                      | 40 U                      | 10 U                      |
| cis-1,2-Dichloroethene             | µg/L | 40 U                      | 40 U                      | 10 U                      |
| cis-1,3-Dichloropropene            | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Cyclohexane                        | µg/L | 67                        | 40 U                      | 130                       |
| Dibromochloromethane               | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Dichlorodifluoromethane (CFC-12)   | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Ethylbenzene                       | µg/L | 40 U                      | 1400                      | 1600                      |
| Isopropyl benzene                  | µg/L | 45                        | 240                       | 260                       |
| Methyl acetate                     | µg/L | 100 U                     | 100 U                     | 25 U                      |
| Methyl cyclohexane                 | µg/L | 40                        | 40 U                      | 21                        |
| Methyl tert butyl ether (MTBE)     | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Methylene chloride                 | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Styrene                            | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Tetrachloroethene                  | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Toluene                            | µg/L | 40 U                      | 40 U                      | 6.9 J                     |
| trans-1,2-Dichloroethene           | µg/L | 40 U                      | 40 U                      | 10 U                      |
| trans-1,3-Dichloropropene          | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Trichloroethene                    | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Trichlorofluoromethane (CFC-11)    | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Trifluorotrichloroethane (CFC-113) | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Vinyl chloride                     | µg/L | 40 U                      | 40 U                      | 10 U                      |
| Xylenes (total)                    | µg/L | 80 U                      | 80 U                      | 15 J                      |

## Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

**Table 3**

**Analytical Methods**  
**North Tonawanda 815 River Road Groundwater Sampling**  
**City of North Tonawanda**  
**North Tonawanda, New York**  
**August 2022**

| <b>Parameter</b>                  | <b>Method</b> | <b>Matrix</b> | <b>Preservation</b>     | <b>Collection<br/>to Analysis<br/>(Days)</b> |
|-----------------------------------|---------------|---------------|-------------------------|----------------------------------------------|
| Volatile Organic Compounds (VOCs) | SW-846 8260C  | water         | pH < 2 and Iced, 0-6° C | 14                                           |

Notes:

Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

**Qualified Sample Results Due to Outlying Continuing Calibration Results**  
**North Tonawanda 815 River Road Groundwater Sampling**  
**City of North Tonawanda**  
**North Tonawanda, New York**  
**August 2022**

| Parameter | Analyte                | Calibration Date<br>(mm/dd/yyyy) | %D   | Associated Sample ID      | Qualified<br>Result | Units |
|-----------|------------------------|----------------------------------|------|---------------------------|---------------------|-------|
| VOCs      | 1,2,4-Trichlorobenzene | 08/16/2022                       | 20.4 | WG-11230275-081022-KM-002 | 40 UJ               | µg/L  |
|           |                        |                                  |      | WG-11230275-081022-KM-003 | 10 UJ               | µg/L  |
| VOCs      | Acetone                | 08/16/2022                       | 55.5 | WG-11230275-081022-KM-002 | 400 UJ              | µg/L  |
|           |                        |                                  |      | WG-11230275-081022-KM-003 | 51 J                | µg/L  |

## Notes:

- %D - Percent difference
- J - Estimated concentration
- UJ - Not detected; associated reporting limit is estimated
- VOCs - Volatile Organic Compounds

# **Appendix D**

## **IC EC Certification**



|                        |                     |              |
|------------------------|---------------------|--------------|
| <b>Site No.</b> B00178 | <b>Site Details</b> | <b>Box 1</b> |
|------------------------|---------------------|--------------|

**Site Name** 815 River Road Investigation

Site Address: 815 River Road      Zip Code: 14120  
City/Town: North Tonawanda  
County: Niagara  
Site Acreage: 0.857

Reporting Period: February 01, <sup>2022</sup>~~2019~~ to February 01, <sup>2023</sup>~~2020~~

|                                                                                                                                                                    | YES                      | NO                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|
| 1. Is the information above correct?                                                                                                                               | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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?                              | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?                                                             | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?                      | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.</b> |                          |                                     |
| 5. Is the site currently undergoing development?                                                                                                                   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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|                                                                                                  |                                     |                          |
|--------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|
|                                                                                                  | <b>Box 2</b>                        |                          |
|                                                                                                  | YES                                 | NO                       |
| 6. Is the current site use consistent with the use(s) listed below?<br>Commercial and Industrial | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are all ICs/ECs in place and functioning as designed?                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**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

181.12-1-19

Metzger Removal, Inc.

Ground Water Use Restriction  
Site Management Plan  
Soil Management PlanMonitoring Plan  
Landuse Restriction  
IC/EC Plan

An Environmental Easement was filed with the Niagara County Clerk's Office on November 17, 2014. The Controlled Property may be used for commercial and industrial use as long as the following long-term institutional controls are employed: (1) restrict the use of site groundwater as a source of potable or process water without necessary water quality treatment as determined by the NYSDOH or Niagara County Department of Health; (2) all future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the Site Management Plan; and (3) monitoring to assess the performance and effectiveness of the remedy must be conducted as defined in the Site management Plan.

**Box 4****Description of Engineering Controls**ParcelEngineering Control

181.12-1-19

Monitoring Wells

None required by the December 2008 Record of Decision other than tangible monitoring wells.

**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 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. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

- (a) the Institutional Control and/or 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. B00178

Box 6

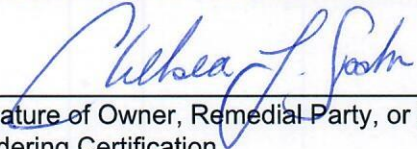
**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

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 CHELSEA L. SPAHR at 216 PAYNE AVE, NORTH TONAWANDA, NY 14120  
print name print business address

am certifying as CITY ENGINEER (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

5/8/23  
Date



## IC/EC CERTIFICATIONS

Box 7

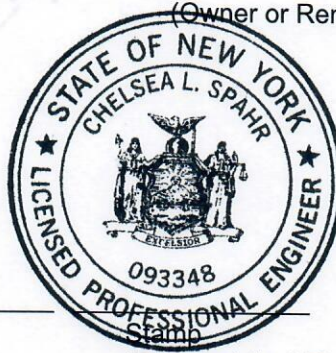
Signature

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 CHELSEA L. SPAHR at 216 PAYNE AVE., NORTH TONAWANDA, NY 14120  
print name print business address

am certifying as a for the CITY ENGINEER

(Owner or Remedial Party)



Chelsea L. Spahr  
Signature of , for the Owner or Remedial Party,  
Rendering Certification

(Required for PE)

5/8/23  
Date



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