INVENTUM ENGINEERING, PC

Pre-Design Investigation

Development of Soil Cleanup Objective for Ammonia

Riverview Innovation & Technology Campus

Brownfield Cleanup Program Site No. C915353

3875 River Road

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September 05, 2025

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List of Acronyms and Abbreviations

AOI	Area of Investigation
BCP	Brownfield Cleanup Program
bgs	Below Ground Surface
CAMP	Community Air Monitoring Plan
ft bgs	Feet below ground surface
GPS	Global Positioning System
GWTT	BCP Site groundwater pre-treatment facility
HASP	Health and Safety Plan
Kd	Soil-water distribution coefficient
LEAF	Leaching Environmental Assessment Framework
LSP	Liquid-solid partitioning of inorganic and non-volatile organic constituents
L/kg	Liters per kilogram
L/S	Liquid-to-solid ratio under percolation conditions.
mg/Kg	Milligrams per kilogram
mL/min	Milliliters per minute
MW	Monitoring Well
NAPL	Non-aqueous Phase Liquid
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
ORP	Oxygen Reduction Potential
OSC	Ontario Specialty Contracting
pH	Potential of Hydrogen
PID	Photoionization detector
POTW	Publicly Owned Treatment Works
PPE	Personal Protective Equipment
QAPP	Quality Assurance Project Plan
RD	Remedial Design
RITC	Riverview Innovation & Technology Campus, Inc.
SCO	Soil Cleanup Objective
SVOC	Semi-volatile organic compound
SWPPP	Stormwater Pollution Prevention Plan
TOC	Top of Casing
TP	Test Pit
ug/Kg	Micrograms per kilogram
ug/L	Micrograms per liter
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compound

Engineering Certification

I, John P. Black certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Pre-design Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the NYSDEC Technical Guidance for Site Investigation and Remediation (DER-10) and Green Remediation (DER-31), and that all activities producing the data shall be performed in full accordance with NYSDEC-approved work plans and any NYSDEC-approved modifications.

Respectfully Submitted,

Inventum Engineering, P.C.

Date: 10.28.2025

John P. Black, P.E.

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1 Introduction

On behalf of Riverview Innovation & Technology Campus, Inc (RITC), Inventum Engineering, P.C. (Inventum) has implemented the Pre-design Investigation and prepared this Pre-Design Investigation Report to define a site-specific Soil Cleanup Objective for Ammonia for the RITC Brownfield Cleanup Program Site (BCP Site #C915353) located at 3875 River Road in Tonawanda, Erie County, New York.

This report has been prepared to document the data collection and data evaluation followed to develop a site-specific Ammonia Soil Cleanup Objective (SCO) for the fill on the RITC BCP Site. The work was completed in accordance with the September 2024 *Pre-Design Investigation Work Plan Development of Soil Cleanup Objective for Ammonia* approved by the New York State Department of Environmental Conservation (NYSDEC) in a letter dated September 11, 2024. The approved work plan provided the protocol and steps required to be followed for development of a SCO to be used during remedial action.

Ammonia has been detected in groundwater samples collected at the BCP site (Figure 1-1) although the highest concentrations were primarily detected in samples from the former production area (Area of Investigation [AOI] 2). Sources of ammonia may have been (1) leaks from pipes, tanks, and process equipment and (2) historical placement of impacted fill by Tonawanda Coke Corporation (TCC) on the property. Interim Remedial Measure (IRMs) completed by RITC have reduced ammonia concentrations in both the stormwater outfall (Figure 1-2) and influent to the BCP Site groundwater pre-treatment facility (GWTT) which discharges to the Town of Tonawanda Publicly Owned Treatment Works (POTW) (Figure 1-3). Additional actions are required while the Remedial Action Work Plan (RAWP) is being reviewed.

While the IRMs have been successful at removing historical industrial sources of ammonia, the residual concentrations of ammonia in fill may act as a secondary source and influence stormwater and shallow groundwater quality.

The scope of work documented in this report included the collection of samples for testing to identify an SCO and back calculate the soil water distribution coefficient (Kd), quantification of ammonia in fill samples across the BCP Site, and quantification of the concentration of ammonia in groundwater and fill on the BCP Site.

1.1 PDI Organization

This PDI has been organized into the following sections:

Section 1 - Introduction
Section 2 - Sampling and Analysis
Section 3 – Data Evaluation and Findings
Section 4 – Conclusion and Recommended Soil Cleanup Objective
Section 5 - Bibliography

2 Sampling and Analysis

The sampling and analysis activities were developed to collect data for confirming source materials were addressed during the remedial actions. Ammonia has been detected in groundwater samples collected at the BCP Site (Figure 1-1). The highest concentrations are primarily in the former productions area (AOI 2). Sources of ammonia may have been (1) leaks from pipes, tanks, and process equipment and (2) TCC placement of impacted fill on various locations on the property.

Ammonia concentrations in stormwater has decreased (Figure 1-2) as process equipment and piping have been removed through implementation of various IRMs. A similar trend has been observed in the influent of the groundwater treatment system, suggesting the IRMs and equipment removals have had beneficial influence on the sources impacting shallow groundwater quality (Figure 1-3).

While the piping and process equipment has been removed, concentrations of ammonia in fill and soil may continue to act as a residual source.

The scope of work included the collection of samples for testing to identify a SCO and back calculate the soil-water distribution coefficient (Kd), quantification of the concentration of ammonia in fill samples, and quantification of the concentration of ammonia in groundwater and fill samples.

2.1 Ammonia SCO Calculation Methodology

Representative fill samples (Table 2-1) were collected and analyzed to provide the data required to back-calculate the soil water distribution coefficient and propose an Ammonia SCO. Direct testing for the Kd in accordance with ASTM D4646-16 “Standard Test Method for 24hr Batch-type Measurement of Contaminant Sorption by Soils and Sediment” was not possible as the test would require a fill sample that was free of Ammonia. At the time of the work plan submittal, there were no fill samples that were non-detect for Ammonia.

Inventum consulted with two laboratories, Eurofins and Prima Environmental in California, and both recommended using US Environmental Protection Agency, 2017, SW-846 Test Method 1314: “Liquid-Solid Partitioning as a Function of Liquid-Solid Ratio for Constituents in Solid Materials Using An Up-Flow Percolation Column Procedure” (EPA Method 1314) to determine the appropriate SCO and allow calculation of the Kd. This method was the basis of the approved Work Plan.

EPA Method 1314 (Appendix A) is part of the USEPA’s Leaching Environmental Assessment Framework (LEAF). A general summary of the methodology is provided below:

1. Collection of initial characterization fill samples at nineteen monitoring well cluster locations, one sump sample from Battery No. 2, one soil sample from the former “Think Safety” area, one soil sample from the Weak Ammonia Liquor area, one soil sample from the solidified material within MW-BCP-05 area, and one fill soil sample north of the Tar Management area (Figure 1-1, Figure 2-1).
2. The fill samples were analyzed in accordance with Table 2-1 and included:
    a. 24 total soil samples (24 Cyanide, 24 Mercury, 24 Ammonia, 24 pH)
3. A statistical analysis was performed on the ammonia data from the 24 fill samples to calculate the maximum, minimum, mean, median, and standard deviation.
4. Based on the statistical analyses, six unsolidified fill samples were then collected from those locations representing the minimum, maximum, and the samples closest to; the mean, the mean

minus one standard deviation, the mean plus one standard deviation, and the mean plus two standard deviations;

5. The six unsolidified fill samples were then used as the material in the percolation column within the LEAF analysis to provide a characterization of ammonia leaching potential. A sample was also collected from solidified materials in the MW-BCP-05 area and analyzed via the same procedure.
6. Each LEAF test yields nine ammonia leachate concentration results based on aliquots of leachate collected from the percolation column at varying intervals over the duration of the test. The mean and standard deviation of each set of nine leachate results was then calculated. The mean plus one standard deviation was plotted against the initial ammonia concentration from the corresponding unsolidified fill sample.
7. The recommended Ammonia SCO was selected using the best fit line of the mean plus one standard deviation plotted against the initial ammonia concentration from the corresponding unsolidified fill sample.
   The soil water distribution coefficient was back calculated using the following expression:

   Ammonia SCO (Cs) = Kd x Cw
   Where:
   Kd = soil water distribution coefficient
   Cw = Class GA Standard = 2,000 ug/L for Ammonia
   Ammonia SCO (Cs) = inferred from graph

All sampling and analysis was completed in accordance with the Health and Safety Plan (HASP, Appendix B of the Pre-design Work Plan), Quality Assurance Project Plan (QAPP Appendix C of the Pre-design Work Plan), and Community Air Monitoring Plan (CAMP, Appendix D of the Pre-design Work Plan).

2.2 Groundwater Sampling

Groundwater sampling was conducted as part of the scope of work to refine the identification of the locations affecting surface water quality, primarily ammonia, and to determine if there have been any short-term effects of the IRMs. While the presence and distribution of ammonia is the primary target of the pre-design sampling, additional parameters were also collected from selected monitoring wells (Table 2-1) for characterization outside the scope of the Ammonia SCO Work Plan.

Liquid level measurements were collected from all the monitoring wells and staff gauges. The depth to groundwater was measured in all monitoring wells, piezometers, and collection system sumps. Water elevations were recorded at all BCP Site staff gage locations. Depth and elevation measurements were collected prior to the collection of any analytical samples. The depth to water and overall total depth of the wells were collected using an oil/water interface probe and recorded in a field notebook. The presence of any non-aqueous phase liquid (NAPL) was also recorded. The total depth of the well was verified to determine if any significant sediment accumulation had occurred since the prior sampling event. None of the monitoring wells required redevelopment due to sediment accumulation.

Monitoring wells (Table 2-1, Figure 1-1) were purged a minimum of three well volumes or until dry. The monitoring wells were purged using a bailer prior to collecting groundwater samples. Field measurements of pH, temperature, conductivity, turbidity, dissolved oxygen, and oxygen reduction potential (ORP) were recorded over at least three intervals during the purging process (Appendix B).

Groundwater samples were collected with a bailer. Groundwater samples for analysis were packed in coolers with ice and delivered by courier under strict chain of custody to Eurofins laboratories of Pittsburgh, PA.

2.3 Soil Sample Collection

Test pits were excavated in order to collect the initial characterization fill samples. Test pits were excavated approximately 5-feet from the monitoring wells included in the groundwater program and at the three supplemental soil sample locations (Figure 2-1). Test pits were extended vertically to delineate the extent of the target material including to the underlying clay. A minimum of one fill sample was collected from each test pit using a clean disposable stainless-steel spoon. Soil lithology and field screening with a PID (10.6eV lamp) were made directly from each exposed interval. The elevation of the ground surface, sample depth(s), and top of clay were recorded in the field logs for each test pit.

Once the initial characterization sampling results were received and analyzed, the six LEAF sampling locations were selected. The LEAF sampling locations were located with on-site GPS equipment using the survey data recorded during the characterization sampling and collected from the same depth in the zone of impact.

Photographs of each test pit were taken. Photographs of any significant features exposed by the test pit (ex. buried debris, viscous tar seeps, etc.) were collected after the final depth was reached. All pertinent information was recorded in the field notebook.

2.4 Survey

Sample locations and test pits were surveyed with onsite GPS equipment from a datum established by a surveyor licensed in the state of New York consistent with standard technical practices. Horizontal locations referenced the North American Datum of 1983 and the New York State Plane system (west zone) and were accurate to within ±0.1 foot. Vertical elevations from the ground surface and top of casing (TOC) were referenced to the North American Vertical Datum of 1988 and reported in feet above mean sea level. Vertical measurements were accurate to within ±0.01 foot.

2.5 Community Air Monitoring

The air monitoring program during the Pre-design Investigation was conducted in accordance with the CAMP provided in the Pre-Design Investigation Work Plan. Three (3) perimeter air monitoring units (1 Upwind and 2 Downwind) were installed on the BCP Site on April 29, 2020. These units are fixed to monitor perimeter air quality, and their locations were not adjusted as the work area(s) shifted over the course of the design investigations except when the work would undermine the units.

Additional air monitors (PID and particulate meters) were utilized to monitor downwind air quality more locally to the test pit during implementation of the pre-design investigation. The location of these work area specific perimeter air monitors were adjusted as necessary as the work area shifted and/or with noticeably sustained shifts in prevalent wind directions. A weather station has been installed at the upwind monitoring station and will be a guide to determine prevalent wind direction. The prevalent wind direction and the location of the air monitors were documented daily as part of routine BCP Site operations.

2.6 Deviations From the Work Plan

Deviations from the work plan were minor and are not considered to have an influence on the overall goal of identifying a site-specific Ammonia SCO.

The minor deviations from the approved work plan are noted in the bullets below.

- MW-BCP-26B was dry and could not be gauged.
- MW-BCP-08B was not gauged due to the presence of bees.
- Water quality measurements were not collected from MW-BCP-10A due to the presence of NAPL within the well.
- Ammonia in groundwater at MW-BCP-01A was not analyzed due to insufficient sample volume.
- Cyanide in groundwater at MW-BCP-17A was not analyzed due to insufficient sample volume.
- All groundwater samples analyzed for VOCs were also analyzed for SVOCs.
- Eight ammonia leachate samples instead of nine were analyzed from the LEAF sample “LEAF-05AREA-12182024” due to a laboratory error.

3 Data Evaluation and Findings

3.1 Initial Characterization Sampling

Initial characterization groundwater sampling and analysis (Appendix C) was conducted in accordance with the workplan (Figure 1-1). The results from the groundwater sampling and analysis was used to refine the understanding of the distribution of ammonia in groundwater and selection of representative LEAF sampling locations.

Initial characterization soil sampling and analysis (Appendix D) was conducted in accordance with the workplan. Representative fill soil samples were collected and analyzed to determine the concentrations in the fill samples that may result in groundwater concentrations exceeding the Class GA standards (i.e. an Ammonia SCO) and to back calculate the soil water distribution coefficient (Kd).

3.1.1 Groundwater Sampling Results

Thirty-five (35) groundwater samples were collected between the dates of October 22nd and October 25th, 2024, from "A", "B", and "C" zone monitoring wells and analyzed for a combination of Ammonia, Mercury, Cyanide, VOCs, and SVOCs as outlined in the work plan (Appendix C). Samples were sent to Eurofins of Buffalo, NY for analysis. A groundwater sample was unable to be collected at MW-BCP-01A and some wells allowed for only ammonia analysis due to lack of groundwater recharge.

The groundwater sample results (Figure 1-1, Table 3-1) showed exceedances of the Class GA Ambient water Quality Standard for ammonia of 2,000 micrograms per liter (ug/L) at sampling locations MW-BCP-04A (4,300 ug/L), MW-BCP-05A (166,000 ug/L), the battery sump (31,800 ug/L), MW-BCP-25A (5,100 ug/L), MW-BCP-19A (37,000 ug/L), MW-BCP-10A (223,000 ug/L), and MW-BCP-13A (7,800 ug/L). These results reflect the elevated ammonia groundwater concentration within the fill layer and more specifically, within the fill layer within AOI2 the Production Area, AOI 4 the Coke Yard, and AOI 5 the Coal Yard. The highest groundwater ammonia concentrations, based on this sampling event, were shown to be in the samples from the "A" zone monitoring wells within AOI 2 The Production Area with a maximum concentration of 223,000 ug/L in the sample from MW-BCP-10A (the monitoring well containing NAPL) and from the eastern portions of AOI4 Coke Yard and AOI5 Coal Yard with a maximum concentration of 37,000 ug/L in the sample from MW-BCP-19A. MW-BCP-17A was the only "A" zone well that produced a sample that was non-detect for Ammonia. There were no sample results from "B" and "C" zone monitoring wells that were above the Ammonia Class GA standard of 2,000 ug/L.

In general, sampled groundwater with elevated ammonia concentrations also showed elevated detections of Volatile Organic Compounds (VOCs) and Semi volatile Organic Compounds (SVOC)s in the majority of samples and, in most cases, cyanide. The sample collected from MW-BCP-19A was the only sample with ammonia above Class GA standards that did not also have a detection of cyanide. Cyanide concentrations ranged between 240 ug/L (MW-BCP-04A) to 16,800 ug/L (MW-BCP-27A), with respect to the Class GA standard of 200 ug/L.

Ethylbenzene, Chlorobenzene, Total Xylenes, Benzene, and Methylene chloride were the VOCs detected the most frequently in the samples collected for this Work Plan. In most cases, SVOCs were detected where ammonia was detected. Based on the sample results, the detection of mercury did not have a direct correlation with the detection of ammonia. Detections of mercury above the Class GA standard (0.7 ug/L)

were found in multiple locations: MW-BCP-05A at 3.5 ug/L, MW-BCP-13B at 0.99 ug/L, and MW-BCP-27A at 1.5 ug/L, but at a lower frequency and at concentrations closer to the Class GA standard. Ammonia was detected in all of these samples.

3.1.2 Soil Sampling Results

Twenty (20) fill soil samples and four (4) supplemental soil samples were collected between October 17th and October 21st, 2024, and analyzed for Cyanide, Mercury, Ammonia, and pH as outlined in the work plan (Appendix D). The samples were collected within the fill layer at depths between 15 to 60 inches below ground surface (bgs). Two samples located west of the phenol area and west of the weak ammonia area were collected at 6 inches bgs. Ammonia was detected in nine of the twenty-four samples (Table 3-1; Figure 2-1).

The ammonia concentrations were detected in samples from within AOI 1 The North Rail Corridor and AOI 2 The Production Area with a maximum concentration of 247 milligrams per kilogram (mg/Kg) in the sample collected near monitoring well MW-BCP-05A in AOI 2. Additionally, samples collected near monitoring well MW-BCP-10A and from the solidified material near monitoring well MW-BCP-05 both had comparatively elevated ammonia concentrations at 228 mg/Kg and 171 mg/Kg, respectfully. Because the material was solidified and not similar to the other sampled materials, the initial characterization data from the solidified material near MW-BCP-05 was not used in the calculation of an ammonia SCO. The highest concentrations of ammonia from the fill soil samples (MW-BCP-05A) also had the highest pH results (9.7).

The eastern portions of AOI 4 The Coke Yard, AOI 5 The Coal Yard, and AOI 7 South Drainage also contained detectable concentrations of ammonia with a maximum of 7.4 mg/Kg in the sample collected near MW-BCP-09A in AOI 5 (Figure 2-1 and Table 3-2).

All but one (SD-MW-BCP-22A-10172024) of the fill soil samples collected contain detectable concentrations of Mercury. Mercury analysis showed concentrations greater than the Industrial Use SCO (5.7 mg/Kg) in samples collected from the former Think Safety Tank (a former weak ammonia liquor and oil water separator vessel) area (31.5 mg/Kg) and near monitoring well MW-BCP-05A (6.5 mg/Kg). Mercury exceeded the commercial use SCO (2.8 mg/Kg) was detected in samples collected near monitoring well MW-BCP-10A (3.6 mg/Kg) and from solidified material near MW-BCP-05 (5.4 mg/Kg).

Cyanide was detected above the Commercial Use SCO (27 mg/Kg) in the sample collected near monitoring well MW-BCP-27A (265 mg/Kg) and from the solidified material near MW-BCP-05 (115 mg/Kg).

The pH of the fill soil samples ranged from 6.0 to 9.7 with one outlier, as anticipated, from the solidified sample near MW-BCP-05 which had a pH of 11.7.

3.2 LEAF Analysis

The NYSDEC was notified of the pre-characterization sampling results and proposed LEAF sampling locations in the memo *PDIWP Development of Soil Cleanup Objective for Ammonia LEAF Sampling* on November 20, 2024 (Appendix F).

LEAF sampling locations were selected after calculating the minimum, the maximum, and the samples closest to; the mean, the mean minus one standard deviation, the mean plus one standard deviation, and the mean plus two standard deviations from the pre-characterization fill soil sample ammonia results. Statistical analysis of the pre-characterization samples did not include the sample from the solidified material ("SD-MW05AREA-10212024") and did not include any sample results that were non-detect. Two additional

LEAF sample locations were chosen due to the minimum and mean minus one standard deviation resulting in the same proposed sample location and the maximum and mean plus two standard deviations resulting in the same proposed sample location. The two additional samples were selected to get representative samples of the full range of ammonia concentrations in soil across the BCP Site as delineated from the pre-characterization sampling.

The fill soil LEAF sample locations are shown in Figure 2-1 and summarized below.

- SD-MW-BCP-25A (Minimum detection),
- SD-MW-BCP-05A (Maximum detection),
- SD-TM-10212024 (closest to the Mean),
- SD-MW-BCP-10A (closest to the Mean plus one standard deviation),
- SD-MW-BCP-27A- (additional sample location),
- SD-MW-BCP-21A (additional sample location),
- SD-MW05AREA (LEAF sample location to represent solidified material)

LEAF samples were collected from the same location, depth, and material as the pre-characterization fill soil samples. The samples were sent to Eurofins of Pittsburgh for the LEAF analysis (EPA Method 1314). The LEAF laboratory data report is provided for reference in Appendix E.

The chosen LEAF sampling locations showed elevated groundwater ammonia concentrations at corresponding monitoring well locations (Table 3-3). The two highest groundwater ammonia concentrations were detected at MW-BCP-10A (223,000 ug/L) and MW-BCP-05A (166,000 ug/L) and were both selected as areas to collect soil LEAF samples based on their corresponding fill soil ammonia concentrations. These two fill soil sample locations also had corresponding “C” zone wells that contained detectable concentrations of ammonia, but the sample concentrations from the “C” zone wells were below the Class GA standard of 2,000 ug/L.

Each sample that was analyzed in accordance with the LEAF analysis protocol produced nine (9) ammonia leachate results (T01-T09) reflecting increasing duration in the percolation column (Table 3-4). With a few outliers, the leachate samples progressively decreased in ammonia concentration with T01 being the first leachate collected (least amount of time in column) and the highest relative concentration and T09 being the last leachate collected (greatest amount of time in column) and the lowest relative concentration. The LEAF samples had a decrease in concentration throughout the leachate procedure between 89-100%. Samples with greater initial leachate concentrations decreased more in concentration throughout the LEAF analysis procedure compared to samples with less initial leachate concentrations. The LEAF sample collected near monitoring well MW-BCP-10A had the greatest T01 at 370,000 ug/L and decreased the most to 14,000 ug/L throughout the LEAF analysis procedure. The LEAF sample collected near monitoring well MW-BCP-27A had the lowest T01 at 710 ug/L and decreased to non-detect throughout the LEAF leachate procedure.

The nine leachate results (T01 – T09) from each LEAF sample were used to calculate the mean, standard deviation, and mean plus one standard deviation. Leachate results that were non-detect were included in the calculations as the method detection limit.

The initial fill soil concentration results were plotted against the mean plus one standard deviation calculated from the nine leachate ammonia concentrations of the LEAF sampling results. A linear trend line was applied to the graph. The linear equation supplied from the trend line was used to calculate the allowable soil concentration using the Ammonia Class GA standard of 2,000 ug/L (Figure 3-1).

Using the linear equation supplied from the trend line (y = 643.75x – 5111.6), the Ammonia SCO ("x") was calculated to find the site-specific ammonia SCO when "y" equaled the Ammonia Class GA standard of 2,000 ug/L. The calculation equates to a recommended site-specific Ammonia SCO of 11.05 mg/Kg.

An estimated soil-water distribution coefficient (Kd) was back calculated using the equation Kd = Cs/Cw to equal 0.005 liters per kilogram (L/kg).

3.2.1 Solidified Materials

The pre-characterization solidified fill soil sample collected from the MW-BCP-05 area was 171 mg/Kg. This was the third highest detection of ammonia compared to the other pre-characterization samples collected. This sample also had the highest pH of all pre-characterization samples at 11.7 pH and the second highest cyanide detection at 115 mg/Kg. The sample was collected from 34 inches bgs within the solidified fill and field olfactory observations by Inventum personnel noted petroleum and ammonia like odors.

SD-MW05AREA-10212024 was the solidified material sample to be selected for LEAF sampling as an indicator of the effect of solidification on ammonia leachability in the fill in that area. This sample was not using the statistical analysis of the pre-characterization samples and was not used in the calculation of the site-specific ammonia SCO for soils.

The sample was sent to Eurofins of Pittsburgh for LEAF sampling analysis. T01 and T07 were unable to be collected due to a lab error. This sample had a T02 result of 77000 ug/L and a T09 result of 790 ug/L. The Leachate process showed a progressive decrease from T02 to T09. The laboratory noted during T01 analysis there was a matrix interference preventing the instrument from accurately calculating the ammonia concentration. During TO2 analysis, there was a matrix interference causing a skew in the peaks for accurate ammonia measurements. With the data supplied, there was a 98% decrease from T02 to T09 throughout the leachate procedure.

Comparing the solidified LEAF sample to the unsolidified LEAF samples, the results and trends are similar and lead Inventum to conclude that the effects of solidification (which targeted VOCs, primarily Benzene) may not have influenced the ammonia leachability.

4 Conclusions and Recommended Soil Cleanup Objective

The pre-characterization sampling confirmed that the distribution of ammonia in fill soil and groundwater throughout the site is concentrated more within the Production Area (AOI2) and near the southeast corner of the site in the Coal Yard (AOI5) and the Coke Yard (AOI4). The highest ammonia pre-characterization results within the Production Area were in fill soils surrounding MW-BCP-05A, MW-BCP-10A, and within the MW-BCP-05 solidified area. The highest fill soil ammonia pre-characterization detections within the Coke Yard and Coal Yard were near MW-BCP-19A and MW-BCP-24A, but were significantly less than the concentrations within the Production Area. The pre-characterization groundwater sampling found detections of ammonia within every "A" zone well except MW-BCP-17A (in an area that had little discerable industrial activity). Exceedances of the Class GA standard for ammonia were detected within the Production Area (four locations - 4,300- to 223,000-ug/L), the Coke Yard (one location – 7,800 ug/L), and the Coal Yard (two locations - 5,100- to 37,000 ug/L). The highest groundwater ammonia detections within the Production area (AOI2) were in the samples from MW-BCP-05A and MW-BCP-10A. The highest detection within the Coal Yard and Coke Yard was at MW-BCP-19A (an area of suspected disposal activity based on nearby burried and former surface debris). The correlation between ammonia concentrations in the "A" zone wells and the concentration of ammonia in the surrounding fill soils confirm the selected LEAF sample locations were representative of ammonia leachability potential on the site.

The ammonia LEAF leachate procedure showed that the ability of ammonia to leach from areas that contained ammonia within the fill soil is increased as ammonia concentrations increase in the fill soils. Comparing the results of unsolidified fill versus solidifified fill, the leachability of ammonia from the soil was similar.

Taking into account the ammonia leachate results from the fill soil LEAF samplng and the Class GA standard of 2,000 ug/L, the recomended site-specific ammonia SCO for soils was identified to be 11.05 mg/Kg. As shown in Figure 4-1, the samples that exceed the recommended ammonia SCO are in the Production area, the area with the highest ammonia concentrations in groundwater samples.

5 Bibliography

The bibliography provides a list of documents used to develop this pre-design investigation.

1. Inventum Engineering, Pre-Design Investigation Work Plan Development of Soil Cleanup Objective for Ammonia, Riverview Innovation & Technology Campus Brownfield Cleanup Program Site No. C915353, September 2024.

2. ASTM International, 2016, Standard test Method for 24-h Batch Type Measurement of Contaminant Sorption by Soils and Sediments"

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Tables

Table - 2-1
Initial Pre-Characterization Sample Location Summary
Ammonia SCO Work Plan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

Plant Subsection	Plant Subsection AOI	Cell Location	Target Location	Monitoring Well Designation	Type	Rationale	Groundwater Sample Analysis					Soil Sample Depth (inches)	Fill/Soil Sample Analysis			
							VOCs (8260C)	SVOCs (8270D)	Mercury (7470)	Cyanide (9012)	Ammonia (E350.1)		Cyanide	Mercury	Ammonia	pH
North-western Perimeter	AOI 3 - Parking Lot	B-15	Downgradient Parking Lot	MW-BCP-01A	Shallow Monitoring Well	Downgradient of former rail yard facilities. No ammonia data.	No Sample. Not enough volume.	No Sample. Not enough volume.	No Sample. Not enough volume.	No Sample. Not enough volume.	No Sample. Not enough volume.	20"	1	1	1	1
				MW-BCP-01B	Medium Depth Monitoring Well						1					
Light Oil Area	AOI 2 - Production Area	F-11	Downgradient Weak Ammonia and Phenol Tanks	MW-BCP-04A	Shallow Monitoring Well	Downgradient Well, downgradient of Light Oil and Weak Ammonia Tanks. Area of potential impact by weak ammonia and light oil.	1	1	1	1	1	40"	1	1	1	1
				MW-BCP-04B	Medium Depth Monitoring Well						1					
		F-9		N.A.	Soil Sample, Shallow Test Pit	Limit of former Secondary Containment						6"	1	1	1	1
		G-8		N.A.	Soil Sample, Shallow Test Pit	Limit of former Secondary Containment						6"	1	1	1	1
Tar Processing Area	AOI 2 - Production Area	N-6	Tar Processing	MW-BCP-05A	Shallow Monitoring Well	Significant source to groundwater IRM. Highest ammonia concentration in groundwater.	1	1	1	1	1	34"	1	1	1	1
				MW-BCP-05C	Medium Deep Depth Monitoring Well	Confirm there is no Vertical Migration					1					
		V-6		N.A.	Soil Sample, Shallow Test Pit	Limit of former Secondary Containment						60"	1	1	1	1
North Perimeter Well	AOI 1 - North Rail Corridor	U-1	North Perimeter	MW-BCP-06A	Shallow Monitoring Well	North Perimeter well.	1	1	1	1	1	35"	1	1	1	1
				MW-BCP-06C	Medium Deep Depth Monitoring Well						1					

Table - 2-1
Initial Pre-Characterization Sample Location Summary
Ammonia SCO Work Plan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

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							VOCs (8260C)	SVOCs (8270D)	Mercury (7470)	Cyanide (9012)	Ammonia (E350.1)		Cyanide	Mercury	Ammonia	pH
Coke Management Area	AOI 4 - Coke Yard	O-13	Coke Yard	MW-BCP-08A	Shallow Monitoring Well	No ammonia groundwater data.					1	70"	1	1	1	1
				MW-BCP-08B	Medium Deep Depth Monitoring Well						1					
Process Area	AOI 2 - Production Area	Q-9	South Process Area	MW-BCP-09A	Shallow Monitoring Well	Low concentration adjacent to Battery No. 1	1	1	1	1	1	15"	1	1	1	1
				MW-BCP-09B	Medium Depth Monitoring Well						1					
Tar Processing Area	AOI 2 - Production Area	R-6	Tar Processing	MW-BCP-10A	Shallow Monitoring Well	Significant source to groundwater IRM.	1	1	1	1	1	35"	1	1	1	1
				MW-BCP-10C	Medium Deep Depth Monitoring Well	Confrim no vertical migration					1					
Processing Area	AOI 4 - Coke Yard		South of former Battery	MW-BCP-11A	Shallow Monitoring Well	Potential source area, south of Battery No. 2.	1	1	1	1	1	50"	1	1	1	1
				MW-BCP-11B	Medium Depth Monitoring Well						1					

Table - 2-1
Initial Pre-Characterization Sample Location Summary
Ammonia SCO Work Plan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

Plant Subsection	Plant Subsection AOI	Cell Location	Target Location	Monitoring Well Designation	Type	Rationale	Groundwater Sample Analysis					Soil Sample Depth (inches)	Fill/Soil Sample Analysis			
							VOCs (8260C)	SVOCs (8270D)	Mercury (7470)	Cyanide (9012)	Ammonia (E350.1)		Cyanide	Mercury	Ammonia	pH
Processing Area	AOI 2 - Production Area	AE-8	Boiler House Purifier Box Area	MW-BCP-12A	Shallow Monitoring Well	Potential source area, north of Battery No. 1.	1	1	1	1	1	40"	1	1	1	1
				MW-BCP-12B	Medium Depth Monitoring Well						1					
Battery No. 2	AOI 2 - Production Area		Battery Sump	N.A.		Battery Sump Data					1	45"	1	1	1	1
Coke Yard	AOI 4 - Coke Yard	AQ-16	East Coke Yard, West of Tar Seep No. 1 (On Site 110)	MW-BCP-13A	Shallow Monitoring Well	Area of groundwater impact from Tar Seep No. 1	1	1	1	1	1	52"	1	1	1	1
				MW-BCP-13B	Medium Depth Monitoring Well		1	1	1	1	1					
Coal Yard	AOI 7 -	AN-21	South Drainage	MW-BCP-17A	Shallow Monitoring Well	No ammonia data					1	20"	1	1	1	1
				MW-BCP-17B	Medium Depth Monitoring Well					1	1					
Coal Yard	AOI 5 - Coal Yard	AN-21	South Coal Yard, West of Tar Seep No. 2	MW-BCP-19A	Shallow Monitoring Well	Area of groundwater impact from Tar Seep No. 2	1	1	1		1	40"	1	1	1	1
				MW-BCP-19B	Medium Depth Monitoring Well		1	1	1		1					

Table - 2-1
Initial Pre-Characterization Sample Location Summary
Ammonia SCO Work Plan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

Plant Subsection	Plant Subsection AOI	Cell Location	Target Location	Monitoring Well Designation	Type	Rationale	Groundwater Sample Analysis					Soil Sample Depth (inches)	Fill/Soil Sample Analysis			
							VOCs (8260C)	SVOCs (8270D)	Mercury (7470)	Cyanide (9012)	Ammonia (E350.1)		Cyanide	Mercury	Ammonia	pH
Mixing Pad	AOI 5 - Coal Yard	AB-24	Downgradient of Mixing Pad	MW-BCP-20A	Shallow Monitoring Well	No ammonia data					1	30"	1	1	1	1
				MW-BCP-20B	Medium Depth Monitoring Well						1					
North Property Boundary	AOI1 - North Rail Corridor		Boundary Wells	MW-BCP-21A	Supplemental Shallow Monitoring Well	Northern Limit	1	1	1	1	1	30"	1	1	1	1
				MW-BCP-21C	Supplemental Medium Deep Monitoring Well						1					
North Property Boundary	AOI1 - North Rail Corridor		Boundary Well	MW-BCP-22A	Supplemental Shallow Monitoring Well	Northern Limit			1	1	1	48"	1	1	1	1
Northeast Corner	AOI1 - North Rail Corridor		Boundary Well	MW-BCP-23A	Supplemental Shallow Monitoring Well	Confirm Shallow Water Quality at Northeast Boundary			1	1	1	54"	1	1	1	1
Coke Yard	AOI4 - Coke yard		Downgradient of MW-BCP-13	MW-BCP-24A			1	1	1	1	1	64"	1	1	1	1
				MW-BCP-24B					1	1	1					

Table - 2-1
Initial Pre-Characterization Sample Location Summary
Ammonia SCO Work Plan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

Plant Subsection	Plant Subsection AOI	Cell Location	Target Location	Monitoring Well Designation	Type	Rationale	Groundwater Sample Analysis					Soil Sample Depth (inches)	Fill/Soil Sample Analysis			
							VOCs (8260C)	SVOCs (8270D)	Mercury (7470)	Cyanide (9012)	Ammonia (E350.1)		Cyanide	Mercury	Ammonia	pH
Coal Yard	AOI5 - Coal Yard		Downgradient of MW-BCP-19	MW-BCP-25A			1	1	1	1	1	60"	1	1	1	1
				MW-BCP-25B					1	1	1					
Southeast Corner	AOI7 - South Drainage		Boundary Well	MW-BCP-27A	Supplemental Shallow Monitoring Well	Water Quality at Southeast Boundary			1	1	1	36"	1	1	1	1
						Total Analyses:	14	14	19	18	35		23	23	23	23

Table - 2-2
Column Test Sample Location Summary
Ammonia SCO Work Plan
Riverview Innovation Technology Campus
Town of Tonawanda, New York

Plant Subsection AOI	Sample ID	Rationale/Specific Requirements	Test Pit Depth (Feet)	Soil Samples Formation	Sample Depth (inches)	pH	Ammonia (350.1)	SW 846 - 1314 (Bulk Sample for LEAF testing)	Ammonia Eluate (350.1)
AOI 5	LEAF-MW25A-12182024	Minimum Concentration from Initial Samples	62"	Shallow fill	60"	1	1	1	9
AOI 2	LEAF-MW05A-12182024	Maximum Concentration from Initial Samples	39"	Shallow fill	34"	1	1	1	9
AOI 2	LEAF-TM-12182024	Closest to mean	31"	Shallow fill	29"	1	1	1	9
AOI 7	LEAF-MW27A-12182024	Selected as additional sample location	80"	Shallow Fill	36"	1	1	1	9
AOI 2	LEAD-MW10A-12182024	Closest to mean plus one standard deviation	37"	Shallow fill	35"	1	1	1	9
AOI 1	LEAF-MW21A-12182024	Selected as additional sample location	37"	Shallow fill	30"	1	1	1	9
AOI 2	LEAF-05AREA-12182024	Solidified material from MW-BCP-05 Area	80"	Solidified Material	60"	1	1	1	8
					Total Analyses:	7	7	7	62

Notes:
(1) "LEAF-05AREA-12182024" sample supplied 8 ammonia eluate results due to a lab error.

Table 2-3
Pump House Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE		SAMPLE ID:	H43-V1-10312023	H44-V2-10312023	E48-V5-11302023	D47-V6-12072023	C47-V7-12112023
		LAB ID:	L2364459-01	L2364459-02	L2370531-01	L2372250-01	L2372961-01
		COLLECTION DATE:	10/31/2023	10/31/2023	11/30/2023	12/7/2023	12/11/2023
		SAMPLE DEPTH:	2' - 3' BGS	3' - 4' BGS	2.5' - 3.5' BGS	3' - 4' BGS	4' - 5' BGS
		SAMPLE MATRIX:	SOIL	SOIL	SOLID	SOLID	SOIL
	UNITS		Pump House, Cell H43, 10% Breeze, 6% LKD	Pump House, Cell H44, 10% Breeze, 15% LKD	Pump House, Cell E48, 10% Breeze, 15% LKD	Pump House, Cell D47, 10% Breeze, 15% LKD	Pump House, Cell C46, 10% Breeze, 15% LKD
GENERAL CHEMISTRY							
Nitrogen, Ammonia	mg/kg		**140**	**300**	**27**	**38**	**25**
Solids, Total	%		**84.3**	**80.8**	**78.9**	**80.2**	**80.7**

Qualifiers:
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-3
Pump House Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE		SAMPLE ID:	F45-V8-12142023	D45-V9-12202023	G44-V10-12202023	E43-V11-12222023
		LAB ID:	L2374090-01	L2375164-01	L2375164-02	L2375952-01
		COLLECTION DATE:	12/14/2023	12/20/2023	12/20/2023	12/22/2023
		SAMPLE DEPTH:	5' - 6' BGS	4.5' - 5.5' BGS	5' - 6' BGS	48" BGS
		SAMPLE MATRIX:	SOIL	SOIL	SOIL	SOIL
	UNITS		Pump House, Cell F48, 10% Breeze, 15% LKD	Pump House, Cell D45, 10% Breeze, 15% LKD	Pump House, Cell G44, 10% Breeze, 15% LKD	Pump House, Cell E43, 10% Breeze, 15% LKD
GENERAL CHEMISTRY						
Nitrogen, Ammonia	mg/kg		**230**	**70**	**140**	**140**
Solids, Total	%		**75.3**	**80.8**	**79**	**78.5**

Qualifiers:
U - Not detected at the reported detection lim
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-4
Weak Ammonia Liquor Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:	L7-V28-01292024	M6-V31-01292024	M9-V32-01292024	L11-V39-02052024	N10-V38-02052024	N5-V37-02052024	O8-V43-02092024
	LAB ID:	L2404917-01	L2404917-02	L2404917-03	L2406252-03	L2406252-02	L2406252-01	L2407437-02
	COLLECTION DATE:	1/29/2024	1/29/2024	1/29/2024	2/5/2024	2/5/2024	2/5/2024	2/9/2024
	SAMPLE DEPTH:	4' - 5' BGS	4' - 5' BGS	4.5' - 5.5' BGS	4.5' - 5.5' BGS	5' - 6' BGS	5' - 6' BGS	5' - 6' BGS
	SAMPLE MATRIX:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	UNITS	WAL Area, Cell L7 5% Breeze, 5% LKD	WAL Area, Cell M6 5% Breeze, 5% LKD	WAL Area, Cell M9 5% Breeze, 5% LKD	WAL Area, Cell L11 5% Breeze, 5% LKD	WAL Area, Cell N10 5% Breeze, 5% LKD	WAL Area, Cell N5 5% Breeze, 5% LKD	WAL Area, Cell O8 5% Breeze, 5% LKD
GENERAL CHEMISTRY								
Nitrogen, Ammonia	mg/kg	**190**	**120**	**99**	**59**	**62**	**62**	**41**
Solids, Total	%	**77.9**	**79.9**	**77.3**	**81.7**	**77.9**	**83.2**	**79.9**

Qualifiers:
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-4
Weak Ammonia Liquor Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:	N7-V42-02092024	K12-V46-02152024	L13-V45-02152024	L7-V60-03152024	N10-V61-03152024	N11-V62-03152024	M9-V65-03192024	L11-V67-03262024	L7-V72-04182024
	LAB ID:	L2407437-01	L2408354-02	L2408354-01	L2414278-01	L2414278-02	L2414278-03	L2414943-01	L2416469-01	L2421439-01
	COLLECTION DATE:	2/9/2024	2/15/2024	2/15/2024	3/15/2024	3/15/2024	3/15/2024	3/19/2024	3/26/2024	4/18/2024
	SAMPLE DEPTH:	4' - 5' BGS	4.5' - 5.5' BGS	6' - 7' BGS	5' BGS	5.5' BGS	4.5' BGS	4.5' BGS	5.5' BGS	4.5' BGS
	SAMPLE MATRIX:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	UNITS	WAL Area, Cell N7 5% Breeze, 5% LKD	WAL Area, Cell K12 5% Breeze, 5% LKD	WAL Area, Cell l13 5% Breeze, 5% LKD	WAL Area, Cell L7 10% Breeze, 15% LKD	WAL Area, Cell N10 10% Breeze,15% LKD	WAL Area, Cell N11 10% Breeze,15% LKD	WAL Area, Cell M9 10% Breeze,15% LKD	WAL Area, Cell L11 10% Breeze,15% LKD	WAL Area, Cell L7 15% Breeze, 22% LKD
GENERAL CHEMISTRY										
Nitrogen, Ammonia	mg/kg	**49**	**27**	**5.4** J	**110**	**54**	**78**	**62**	**37**	**56**
Solids, Total	%	**77.6**	**71.5**	**83.6**	**79.6**	**72.5**	**64.4**	**79.7**	**81.9**	**76**

Qualifiers:
U - Not detected at the reported detection lir
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-5
Exhauster Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:	D35-V12-01042024	C33-V14-01092024	F35-V13-01092024	F33-V17-01112024
	LAB ID:	L2400628-01	L2401408-02	L2401408-01	L2401966-01
	COLLECTION DATE:	1/4/2024	1/9/2024	1/9/2024	1/11/2024
	SAMPLE DEPTH:	6.5' - 7' BGS	2' - 3' BGS	5' - 6' BGS	5' - 6' BGS
	SAMPLE MATRIX:	SOIL	SOIL	SOIL	SOIL
	UNITS	Exhauster Area, Cell D35, 5% Breeze, 5% LKD	Exhauster Area, Cell C33 5% Breeze, 5% LKD	Exhauster Area, Cell F35 5% Breeze, 5% LKD	Exhauster Area, Cell F33 5% Breeze, 5% LKD
GENERAL CHEMISTRY					
Nitrogen, Ammonia	mg/kg	**220**	**300**	**72**	**170**
Solids, Total	%	**77.4**	**84**	**78.1**	**81.5**

Qualifiers:
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-5
Exhauster Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:	G34-V18-01112024	E32-V19-01162024	F31-V21-01162024	G32-V20-01162024
	LAB ID:	L2401966-02	L2402644-01	L2402644-03	L2402644-02
	COLLECTION DATE:	1/11/2024	1/16/2024	1/16/2024	1/16/2024
	SAMPLE DEPTH:	5.5' - 6.5' BGS	8' - 9' BGS	5' - 6' BGS	7' - 8' BGS
	SAMPLE MATRIX:	SOIL	SOIL	SOIL	SOIL
	UNITS	Exhauster Area, Cell G34 5% Breeze, 5% LKD	Exhauster Area, Cell E32 5% Breeze, 5% LKD	Exhauster Area, Cell F31 5% Breeze, 5% LKD	Exhauster Area, Cell G32 5% Breeze, 5% LKD
GENERAL CHEMISTRY					
Nitrogen, Ammonia	mg/kg	**130**	**210**	**160**	**170**
Solids, Total	%	**81.5**	**79.1**	**79.6**	**79.3**

Qualifiers:
U - Not detected at the reported detection limit for the samp
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-6
MW-BCP-05 Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:	C30-V15-01092024	D27-V16-01112024	E28-V23-01162024	E30-V22-01162024	E25-V24-01192024	D24-V26-01222024	E23-V27-01222024
	LAB ID:	L2401406-01	L2401960-01	L2402646-02	L2402646-01	L2403586-01	L2403586-03	L2403586-04
	COLLECTION DATE:	1/9/2024	1/11/2024	1/16/2024	1/16/2024	1/19/2024	1/22/2024	1/22/2024
	SAMPLE DEPTH:	4' - 5' BGS	4' - 5' BGS	4.5' - 5' BGS	4.5' - 5.5' BGS	7' - 8' BGS	6' - 7' BGS	5' - 6' BGS
	SAMPLE MATRIX:	SOIL	SOIL	SOIL	SOIL	SOLID	SOLID	SOLID
	UNITS	MW-BCP-05, Cell C30 5% Breeze, 5% LKD	MW-BCP-05, Cell D27 5% Breeze, 5% LKD	MW-BCP-05, Cell E28 5% Breeze, 5% LKD	MW-BCP-05, Cell E30 5% Breeze, 5% LKD	MW-BCP-05, Cell E25 5% Breeze, 5% LKD	MW-BCP-05, Cell D24 5% Breeze, 5% LKD	MW-BCP-05, Cell E23 5% Breeze, 5% LKD
GENERAL CHEMISTRY								
Nitrogen, Ammonia	mg/kg	**260**	**300**	**210**	**170**	**280**	**260**	**330**
Solids, Total	%	**82.8**	**80.6**	**76.8**	**81.4**	**78.6**	**72.7**	**79.3**

Qualifiers:
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-6
MW-BCP-05 Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:	F27-V25-01222024	F29-V29-01252024	G29-V30-01252024	G26-V33-01292024	F24-V34-01302024	G26-V70-03292024	G29-V69-03292024
	LAB ID:	L2403586-02	L2404351-01	L2404351-02	L2404919-01	L2405118-02	L2417251-02	L2417251-01
	COLLECTION DATE:	1/22/2024	1/25/2024	1/25/2024	1/29/2024	1/30/2024	3/29/2024	3/29/2024
	SAMPLE DEPTH:	5' - 6' BGS	4' - 5' BGS	3' - 4' BGS	5.5' - 6' BGS	3' - 4' BGS	6' BGS	4.5' BGS
	SAMPLE MATRIX:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	UNITS	MW-BCP-05, Cell F27 5% Breeze, 5% LKD	MW-BCP-05, Cell F29 5% Breeze, 5% LKD	MW-BCP-05, Cell G29 5% Breeze, 5% LKD, SAND	MW-BCP-05, Cell G26 5% Breeze, 5% LKD	MW-BCP-05, Cell F24 5% Breeze, 5% LKD	MW-BCP-05, Cell G26 10% Breeze, 15% LKD	MW-BCP-05, Cell G29 10% Breeze, 15% LKD
GENERAL CHEMISTRY								
Nitrogen, Ammonia	mg/kg	**240**	**120**	**140**	**260**	**310**	**140**	**87**
Solids, Total	%	**76.9**	**79.1**	**76.8**	**71.5**	**77.5**	**77.2**	**81.5**

Qualifiers:
U - Not detected at the reported detection lin
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-7
Tar Management Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:	H42-V4102082024	F41-V47-02152024	D40-V48-02222024	E41-V49-02222024	F39-V53-02282024	C42-V54-03042024	G38-V55-03042024
	LAB ID:	L2407192-01	L2408356-01	L2409722-01	L2409722-02	L2410797-01	L2411555-01	L2411555-02
	COLLECTION DATE:	2/8/2024	2/15/2024	2/22/2024	2/22/2024	2/28/2024	3/4/2024	3/4/2024
	SAMPLE DEPTH:	7' - 8' BGS	7' - 8' BGS	5' - 5.5' BGS	4' - 5' BGS	5' - 6' BGS	5' BGS	5' BGS
	SAMPLE MATRIX:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	UNITS	Tar Management, Cell H42 15% Breeze, 20% LKD	Tar Management, Cell F41 15% Breeze, 20% LKD	Tar Management, Cell D40 15% Breeze, 20% LKD	Tar Management, Cell E41 15% Breeze, 20% LKD	Tar Management, Cell F39 15% Breeze, 20% LKD	Tar Management, Cell C42 15% Breeze, 20% LKD	Tar Management, Cell G38 15% Breeze, 20% LKD
GENERAL CHEMISTRY								
Nitrogen, Ammonia	mg/kg	**190**	**210**	**170**	**240**	**160**	**82**	**110**
Solids, Total	%	**80.5**	**83.6**	**81.1**	**80**	**79**	**77.1**	**79.2**

Qualifiers:
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-7
Tar Management Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:	C38-V56-03082024	B40-V57-03132024	B38-V64-03192024	E37-V63-03192024	C42-V68-03292024
	LAB ID:	L2412741-01	L2413556-01	L2414944-02	L2414944-01	L2417252-01
	COLLECTION DATE:	3/8/2024	3/13/2024	3/19/2024	3/19/2024	3/29/2024
	SAMPLE DEPTH:	4' - 5' BGS	4' BGS	5' BGS	5' BGS	4' BGS
	SAMPLE MATRIX:	SOLID	SOLID	SOLID	SOLID	SOLID
	UNITS	Tar Management, Cell C38 15% Breeze, 20% LKD	Tar Management, Cell B40 15% Breeze, 20% LKD	Tar Management, Cell B38 15% Breeze, 20% LKD	Tar Management, Cell E37 15% Breeze, 20% LKD	Tar Management, Cell C42 22% Breeze, 30% LKD
GENERAL CHEMISTRY						
Nitrogen, Ammonia	mg/kg	**12**	**68**	**100**	**120**	**84**
Solids, Total	%	**83.4**	**77.5**	**66.6**	**82.1**	**64.9**

Qualifiers:
U - Not detected at the reported detection limi
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-8
Phenol Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:	J5-V36-02052024	K8-V40-02052024	J9-V44-02092024	J9-V58-03132024	K8-V59-03132024	K8-V71-04182024	
	LAB ID:	L2406250-02	L2406250-03	L2407436-01	L2413557-01	L2413557-02	L2421442-01	
	COLLECTION DATE:	2/5/2024	2/5/2024	2/9/2024	3/13/2024	3/13/2024	4/18/2024	
	SAMPLE DEPTH:	4.5' - 5.5' BGS	4.5' - 5.5' BGS	5' - 6' BGS	4' BGS	5' BGS	5' BGS	
	SAMPLE MATRIX:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	
	UNITS	Phenol Area, Cell J5 5% Breeze, 5% LKD	Phenol Area, Cell K8 5% Breeze, 5% LKD	Phenol Area, Cell J9 5% Breeze, 5% LKD	Phenol Area, Cell J9 10% Breeze, 15% LKD	Phenol Area, Cell K8 10% Breeze, 15% LKD	Phenol Area, Cell K8 15% Breeze, 22% LKD	
GENERAL CHEMISTRY								
Nitrogen, Ammonia	mg/kg	**290**	**94**	**56**	**33**	**66**	**6.7**	J
Solids, Total	%	**81.5**	**84.4**	**78**	**82.4**	**77.4**	**78.7**	

Qualifiers:
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-9
Light Oil Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:	I5-V35-02052024	H9-V51-02282024	I11-V52-02282024	I7-V50-02282024	H12-V66-03262024
	LAB ID:	L2406250-01	L2410796-02	L2410796-03	L2410796-01	L2416468-01
	COLLECTION DATE:	2/5/2024	2/28/2024	2/28/2024	2/28/2024	3/26/2024
	SAMPLE DEPTH:	4' - 5.5' BGS	7' - 8' BGS	5.5' - 6.5' BGS	3' - 4' BGS	6' BGS
	SAMPLE MATRIX:	SOLID	SOIL	SOIL	SOIL	SOLID
	UNITS	Light Oil Area, Cell I5 5% Breeze, 5% LKD	Light Oil Area, Cell H9 10% Breeze, 15% LKD	Light Oil Area, Cell I11 10% Breeze, 15% LKD	Light Oil Area, Cell I7 10% Breeze, 15% LKD	Vitrified Clay Sump 10% Breeze, 15% LKD
GENERAL CHEMISTRY						
Nitrogen, Ammonia	mg/kg	**220**	**72**	**48**	**71**	**51**
Solids, Total	%	**82.6**	**83.3**	**86.8**	**81.7**	**81.7**

Qualifiers:
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-10
Tar Seep No. 2 Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:	AN87-V73-05012024	AN88-V74-05012024	AO89-V75-05142024	AP87-V76-05142024	AN91-V77-05222024	V78-AQ88-05312024	V79-AL91-05312024
	LAB ID:	L2424061-01	L2424061-02	L2426623-01	L2426623-02	L2428548-01	L2430357-01	L2430357-02
	COLLECTION DATE:	5/1/2024	5/1/2024	5/14/2024	5/14/2024	5/22/2024	5/31/2024	5/31/2024
	SAMPLE DEPTH:	5.5' BGS	6.5' BGS	5.0' BGS	5.0' BGS	6.0' BGS	6.5' BGS	4' BGS
	SAMPLE MATRIX:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	UNITS	Tar Seep No. 2, Cell AN87	Tar Seep No. 2, Cell AN88	Tar Seep No. 2, Cell AO89	Tar Seep No. 2, Cell AP87	Tar Seep No. 2, Cell AN91	Tar Seep No. 2, Cell AQ88	Tar Seep No. 2, Cell AL91
GENERAL CHEMISTRY								
Nitrogen, Ammonia	mg/kg	**140**	**150**	**150**	**92**	**240**	**130**	**130**
Solids, Total	%	**72.6**	**71.6**	**76.6**	**77.8**	**74.7**	**69.1**	**75.8**

Qualifiers:
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound.
Bold - Compound is detected

Table 2-10
Tar Seep No. 2 Area Solidification - Ammonia Concentrations
Ammonia SCO Workplan
Riverview Innovation & Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:	V80-AM90-06102024	V81-AQ90-06242024	V82-AP91-06242024
	LAB ID:	L2432391, L2435632	L2435635-01	L2435637-01
	COLLECTION DATE:	6/10/2024	6/24/2024	6/24/2024
	SAMPLE DEPTH:	4.5' BGS	5.0' BGS	4.0' BGS
	SAMPLE MATRIX:	SOLID	SOLID	SOLID
	UNITS	Tar Seep No. 2, Cell AM90	Tar Seep No. 2, Cell AQ90	Tar Seep No. 2, Cell AP91
GENERAL CHEMISTRY				
Nitrogen, Ammonia	mg/kg	**140**	**160**	**97**
Solids, Total	%	**72.1**	**76.2**	**79.8**

Qualifiers:
U - Not detected at the reported detection limit
J - Presumptive evidence of compound.
Bold - Compound is detected

Table - 3-1
Groundwater Initial Pre-Characterization Sampling Results
Ammonia SCD Work Plan
Riverview Innovation Technology Campus
Town of Tonawanda, New York

SAMPLE ID:	MW-BCP-01B-20250324	MW-BCP-06B-20250324	MW-BCP-04A-20250324	MW-BCP-04B-20250324	MW-BCP-05A-20250324	MW-BCP-05C-20250324	BATTERYSUMP-20250324	MW-BCP-06A-20250324	MW-BCP-06C-20250324	MW-BCP-08A-20250324	MW-BCP-08A-20250324	MW-BCP-13B-20250324	MW-BCP-24A-20250324	MW-BCP-25A-20250324	MW-BCP-29B-20250324	MW-BCP-22A-20250324	MW-BCP-25B-20250324	MW-BCP-21A-20250324	MW-BCP-10A-20250324	MW-BCP-09B-20250324	MW-BCP-20A-20250324	MW-BCP-20B-20250324	MW-BCP-17A-20250324	MW-BCP-21C-20250324	MW-BCP-17B-20250324	MW-BCP-27A-20250324	MW-BCP-10A-20250324	MW-BCP-10C-20250324	MW-BCP-01A-20250324	MW-BCP-13B-20250324	MW-BCP-12A-20250324	MW-BCP-12B-20250324	MW-BCP-13A-20250324
LAB ID:	480-224705-1	480-224705-2	480-224705-3	480-224705-4	480-224705-5	480-224705-6	480-224705-7	480-224705-8	480-224705-9	480-224705-10	480-224705-11	480-224689-9	480-224689-10	480-224689-11	480-224689-12	480-224689-13	480-224689-14	480-224689-15	480-224689-16	480-224689-17	480-224689-18	480-224689-19	480-224689-2	480-224689-20	480-224689-21	480-224689-22	480-224689-23	480-224689-24	480-224689-25	480-224689-3	480-224689-4	480-224689-5	480-224689-6	480-224689-7	480-224689-8	480-224689-9
COLLECTION DATE:	3/27/2025	3/27/2025	3/27/2025

Table - 3-2
Soil Initial Pre-Characterization Sampling Results
Ammonia SCO Work Plan
Riverview Innovation Technology Campus
Town of Tonawanda, New York

ANALYTE	SAMPLE ID:		SD-MW-BCP-01A-10172024		SD-MW-BCP-25A-10182024		SD-MW-BCP-20A-10182024		SD-MW-BCP-17A-10182024		SD-MW-BCP-04A-1012024		SD-WAL-10182024 Solid		SD-THINKSAFETY-10182024		SD-MW-BCP-08A-10182024		SD-MW-BCP-09-10182024		SD-MW-BCP-11A-10182024		SD-BATTERYSUMP-10182024		SD-MW-BCP-21A-10172024		SD-MW-BCP-12A-10182024		SD-MW-BCP-06A-10172024		SD-MW-BCP-22A-10172024		SD-MW-BCP-23A-10172024		SD-MW-BCP-27A-10172024		SD-MW-BCP-13A-10172024		SD-MW-BCP-24A-10172024		SD-MW-BCP-19A-10172024		SD-TM-10212024		SD-MW-BCP-10A-10212024		SD-MW05AREA-10212024		SD-MW-BCP-05A-10212024	
	LAB ID:		480-224585-1		480-224585-10		480-224585-11		480-224585-12		480-224585-13		480-224585-14		480-224585-15		480-224585-16		480-224585-17		480-224585-18		480-224585-19		480-224585-2		480-224585-20		480-224585-3		480-224585-4		480-224585-5		480-224585-6		480-224585-7		480-224585-8		480-224585-9		480-224610-1		480-224610-2		480-224610-3		480-224610-4	
	COLLECTION DATE:		10/17/2024		10/18/2024		10/18/2024		10/18/2024		10/18/2024		10/18/2024		10/18/2024		10/18/2024		10/18/2024		10/18/2024		10/18/2024		10/17/2024		10/18/2024		10/17/2024		10/17/2024		10/17/2024		10/17/2024		10/17/2024		10/17/2024		10/17/2024		10/21/2024		10/21/2024		10/21/2024		10/21/2024	
	SAMPLE DEPTH:		20"		60"		30"		20"		40"		6"		6"		70"		15"		50"		45"		30"		40"		35"		48"		54"		36"		52"		64"		40"		29"		35"		60"		34"	
	SAMPLE MATRIX:		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
	Commercial	Industrial																																														
	(mg/kg)	(mg/kg)																																														
Nitrogen, Ammonia 350.1																																																	
Ammonia			<1.9		0.0011		<1.9		<1.9		<2.0		<1.9		<1.8		<2.0		<1.8		<2.0		<1.9		7.1		<1.9		<1.9		<1.9		<0.00019		6.8		<0.00019		4.4		7.4		64.2		228		171		247	
Mercury (CVAA) 7471B																																																	
Mercury	2.8	5.7	0.28	F1 F2	0.16		0.10		0.021	J	0.084		0.19		31.5		0.33		0.29		0.11		0.50		0.088		0.45		0.0051	J	<0.0068		0.11		1.9		0.074		0.081		0.28		1.3	^-	3.6	^-	5.4	^-	6.5	^-
Cyanide, Total and/or Amenable 9021B																																																	
Cyanide, Total	27	10000	0.65	J	1.7		<0.51	F1	<0.55		0.91	J	2.1		3.4		1.9		2.0		0.93	J	4.8		<0.52		2.5		<0.54		<0.61		1.3	J	265		0.97	J	2.7		4.0		2.2	F1	10.5		115		7.1	
GENERAL CHEMISTRY																																																
pH			7.7	HF	7.7	HF	8.2	HF	6.0	HF	7.8	HF	8.6	HF	8.7	HF	7.9	HF	6.5	HF	8.4	HF	7.9	HF	8.4	HF	8.5	HF	7.9	HF	7.5	HF	7.7	HF	6.2	HF	6.2	HF	7.5	HF	7.6	HF	8.8	HF	9.3	HF	11.7	HF	9.7	HF
Temperature			17.3	HF	18.6	HF	17.9	HF	17.8	HF	17.7	HF	17.7	HF	17.6	HF	17.6	HF	17.6	HF	17.7	HF	17.9	HF	17.8	HF	17.9	HF	17.7	HF	17.9	HF	18.1	HF	18.0	HF	17.9	HF	18.0	HF	17.6	HF	18.2	HF	18.1	HF	18.4	HF	18.3	HF
Percent Solids			88.3		85.5		87.9		86.9		75.3		82.4		82.4		72.3		90.1		79.5		81.7		82.7		85.5		85.5		67.0		70.6		62.8		81.7		73.7		86.6		85.7		78.9		78.9		78.3	

* Comparison is not performed on parameters with non-numeric criteria.

NY-RESC: New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESI: New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

Notes:
NS = Not Sampled
"<" = Analyzed for but detected at or above the quantitation limit
HF = Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
"^-" = Continuing Calibration Verification (CCV) is outside acceptable limits, low biased
F1 = MS and/or MSD recovery exceeds control limits
F2 = MS/MSD RPD exceeds control limits.
J = Analyte detected below quantitation limit
Bold = Analyte was detected
Green Highlight = Analyte concentration exceeds Commercial SCOs
Red Highlight = Analyte concentration exceeds Industrial SCOs

Table - 3-3
Ammonia LEAF Results Versus Groundwater
Ammonia SCO Work Plan
Riverview Innovation Technology Campus
Town of Tonawanda, New York

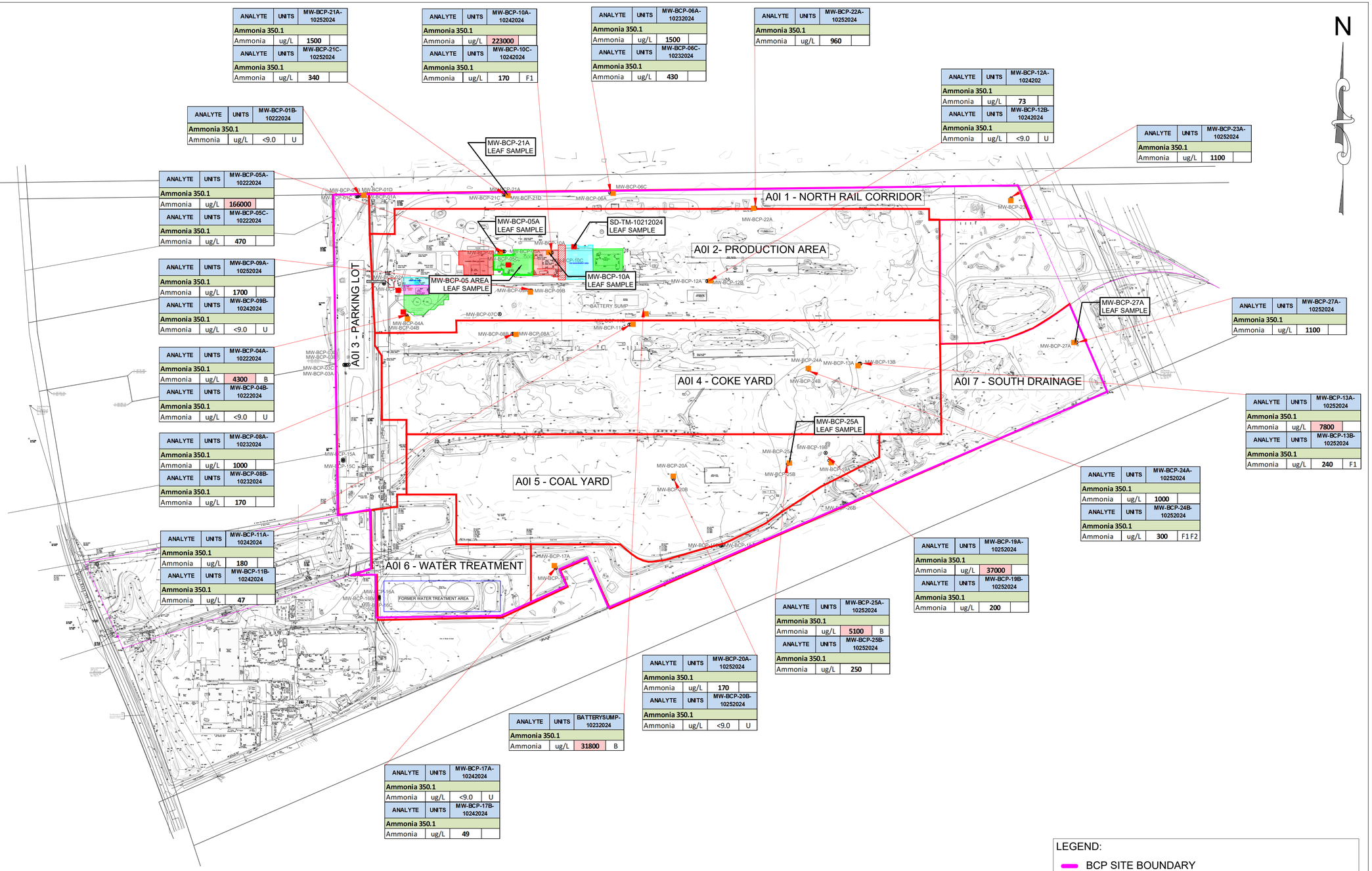
PROPOSED LEAF SAMPLING LOCATIONS	GROUNDWATER AMMONIA CONCENTRATIONS AT CORRESPONDING LOCATIONS (ug/L)					
	A WELLS		B WELLS		C WELLS	
SD-MW-BCP-25A-10182024	5100	B	250		-	
SD-MW-BCP-05A-10212024	166000		-		470	
SD-TM-10212024	-		-		-	
SD-MW-BCP-10A-10212024	223000		-		170	F1
SD-MW-BCP-27A-10172024	1100		-		-	
SD-MW-BCP-21A-10172024	1500		-		340	

Table - 3-4
LEAF Results
Ammonia SCO Work Plan
Riverview Innovation Technology Campus
Town of Tonawanda, New York

Analyte	Units	Sample ID:	LEAF-MW27A-12182024		LEAF-MW25A-12182024		LEAF-TM-12182024		LEAF-MW10A-12182024		LEAF-MW21A-12182024		LEAF-MW05A-12182024		LEAF-05AREA-12182024	
		Sample Date:	12/18/2024		12/18/2024		12/18/2024		12/18/2024		12/18/2024		12/18/2024		12/18/2024	
		Sample Depth:	36"		60"		29"		35"		30"		34"		60"	
		Sample Matrix:	FILL		FILL		FILL		FILL		FILL		FILL		SOLIDIFIFIED MATERIAL	
Pre-Drying Sample (Lab Report J184461-1)																
Ammonia 350.1	mg/Kg		**110**		**36**		**26**		**820**		**87**		**540**		**110**	
% Moisture SM22 2540G	%		**41.4**		**20.7**		**20.2**		**23.2**		**26.3**		**21.4**		**20.2**	
Dried Sample (Lab Report J184461-1)																
% Moisture SM22 2540G	%		**1.7**		**0.4**		**2.5**		**0.6**		**0.9**		**1.8**		**1**	
Leachate Results (Lab Reports J184465-1, J184462-1)																
T01																
Ammonia, distilled 350.1	mg/L		**0.71**		**5.7**		**10**		**370**		**10**		**240**		NS	
pH	SU		**5.8**	H3	**7.7**	H3	**12**	H3	**8.4**	H3	**8.1**	H3	**8.2**	H3	**9.5**	H3
Specific Conductance 2510B	umhos/cm		**3100**		**2400**		**5400**		**5300**		**1100**		**8500**		**21000**	
Oxidation Reduction Potential 2580B	millivolts		**150**		**100**		**-60**		**70**		**94**		**99**		**48**	
T02																
Ammonia, distilled 350.1	mg/L		**3.1**		**3.3**		**7**		**110**		**6**		<0.18	U	**77**	
pH	SU		**6.3**	H3	**8**	H3	**12**	H3	**8.7**	H3	**8**	H3	**8.1**	H3	**9.8**	H3
Specific Conductance 2510B	uhmos/cm		**2700**		**1300**		**3300**		**1100**		**390**		**2700**		**4600**	
Oxidation Reduction Potential 2580B	millivolts		**120**		**110**		**20**		**82**		**110**		**120**		**16**	
T03																
Ammonia, distilled 350.1	mg/L		**0.52**		**1.9**		**3.7**		**82**		**5.4**		**33**		**27**	
pH	SU		**6.6**	H3	**8**	H3	**12**	H3	**8.8**	H3	**8**	H3	**8.8**	H3	**9.9**	H3
Specific Conductance 2510B	umhos/cm		**2500**		**720**		**2900**		**760**		**320**		**960**		**1600**	
Oxidation Reduction Potential 2580B	millivolts		**110**		**110**		**-32**		**74**		**130**		**120**		**40**	
T04																
Ammonia, distilled 350.1	mg/L		**1.8**	F1	**1.1**		**2.6**		**75**		**5.2**		**32**		**12**	
pH	SU		**6.6**	H3	**8.1**	H3	**11.9**	H3	**9**	H3	**8**	H3	**8.6**	H3	**9.6**	H3
Specific Conductance 2510B	umhos/cm		**2400**		**390**		**2400**		**600**		**280**		**590**		**950**	
Oxidation Reduction Potential 2580B	millivolts		**160**		**90**		**-70**		**82**		**110**		**110**		**28**	
T05																
Ammonia, distilled 350.1	mg/L		**1.2**		**0.85**		**1.8**		**70**		**4.1**		**31**		**6.3**	
pH	SU		**5.8**	H3	**7.9**	H3	**11.9**	H3	**9.1**	H3	**8.1**	H3	**8.7**	H3	**10.2**	H3
Specific Conductance 2510B	umhos/cm		**2300**		**310**		**2100**		**510**		**240**		**420**		**660**	
Oxidation Reduction Potential 2580B	millivolts		**130**		**92**		**+6**		**70**		**120**		**140**		**+2**	
T06																
Ammonia, distilled 350.1	mg/L		**0.63**		**0.56**		**1**	F1	**42**		**3**		**18**		**1.3**	
pH	SU		**6.1**	H3	**8.1**	H3	**11.8**	H3	**9**	H3	**7.8**	H3	**8.1**	H3	**10.9**	H3
Specific Conductance 2510B	umhos/cm		**2300**		**250**		**1600**		**360**		**190**		**290**		**380**	
Oxidation Reduction Potential 2580B	millivolts		**100**		**96**		**-20**		**40**		**150**		**100**		**11**	
T07																
Ammonia, distilled 350.1	mg/L		**0.37**		**0.36**		**0.81**		**35**		**1.8**		**13**		NS	
pH	SU		**6.3**	H3	**8.1**	H3	**11.7**	H3	**9**	H3	**7.9**	H3	**8.1**	H3	NS	
Specific Conductance 2510B	umhos/cm		**2200**		**230**		**1400**		**260**		**160**		**250**		NS	
Oxidation Reduction Potential 2580B	millivolts		**130**		**81**		**+6**		**75**		**130**		**110**		NS	
T08																
Ammonia, distilled 350.1	mg/L		**0.18**	J	**0.26**		**0.6**		**22**		**1.2**		**7.7**		**1.2**	
pH	SU		**6.2**	H3	**8.1**	H3	**11.2**	H3	**8.5**	H3	**7.7**	H3	**8**	H3	**9.8**	H3
Specific Conductance 2510B	umhos/cm		**1800**		**190**		**620**		**210**		**150**		**220**		**300**	
Oxidation Reduction Potential 2580B	millivolts		**110**		**76**		**12**		**90**		**140**		**100**		**140**	
T09																
Ammonia, distilled 350.1	mg/L		<0.088	U	**0.22**		**0.52**		**14**		**1.1**		**5.7**		**0.79**	
pH	SU		**6.6**	H3	**8.2**	H3	**11.6**	H3	**8.5**	H3	**7.9**	H3	**8.1**	H3	**9.8**	H3
Specific Conductance 2510B	umhos/cm		**1200**		**170**		**820**		**170**		**130**		**200**		**220**	
Oxidation Reduction Potential 2580B	millivolts		**60**		**120**		**30**		**22**		**160**		**100**		**40**	
Monolith Post Leachate Sampling (Lab Report ID J184461-2)																
Ammonia, distilled 350.1	mg/Kg		**210**		**8**	J	**17**		**160**		**29**		**130**		**56**	F1
% Moisture SM22 2540G	%		**35.1**		**28.7**		**36.4**		**26.6**		**27.5**		**29.1**		**34.3**	

Notes:
(1) "NS" = Not Sampled
(2) "H3" = Sample received and analyzed past holding time.
(3) "J" = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
(4) "F1" = MS and/or MSD recovery exceeds control limits

Figures



ANALYTE	UNITS	MW-BCP-21A-10252024	
Ammonia 350.1			
Ammonia	ug/L	**1500**	
ANALYTE	**UNITS**	**MW-BCP-21C-10252024**	
Ammonia 350.1			
Ammonia	ug/L	**340**	

ANALYTE	UNITS	MW-BCP-10A-10242024	
Ammonia 350.1			
Ammonia	ug/L	**223000**	
ANALYTE	**UNITS**	**MW-BCP-10C-10242024**	
Ammonia 350.1			
Ammonia	ug/L	**170**	F1

ANALYTE	UNITS	MW-BCP-06A-10232024	
Ammonia 350.1			
Ammonia	ug/L	**1500**	
ANALYTE	**UNITS**	**MW-BCP-06C-10232024**	
Ammonia 350.1			
Ammonia	ug/L	**430**	

ANALYTE	UNITS	MW-BCP-22A-10252024	
Ammonia 350.1			
Ammonia	ug/L	**960**	

ANALYTE	UNITS	MW-BCP-01B-10222024	
Ammonia 350.1			
Ammonia	ug/L	<9.0	U

ANALYTE	UNITS	MW-BCP-12A-1024202	
Ammonia 350.1			
Ammonia	ug/L	**73**	
ANALYTE	**UNITS**	**MW-BCP-12B-10242024**	
Ammonia 350.1			
Ammonia	ug/L	<9.0	U

ANALYTE	UNITS	MW-BCP-23A-10252024	
Ammonia 350.1			
Ammonia	ug/L	**1100**	

ANALYTE	UNITS	MW-BCP-05A-10222024	
Ammonia 350.1			
Ammonia	ug/L	**166000**	
ANALYTE	**UNITS**	**MW-BCP-05C-10222024**	
Ammonia 350.1			
Ammonia	ug/L	**470**	

ANALYTE	UNITS	MW-BCP-09A-10252024	
Ammonia 350.1			
Ammonia	ug/L	**1700**	
ANALYTE	**UNITS**	**MW-BCP-09B-10242024**	
Ammonia 350.1			
Ammonia	ug/L	<9.0	U

ANALYTE	UNITS	MW-BCP-27A-10252024	
Ammonia 350.1			
Ammonia	ug/L	**1100**	

ANALYTE	UNITS	MW-BCP-04A-10222024	
Ammonia 350.1			
Ammonia	ug/L	**4300**	B
ANALYTE	**UNITS**	**MW-BCP-04B-10222024**	
Ammonia 350.1			
Ammonia	ug/L	<9.0	U

ANALYTE	UNITS	MW-BCP-13A-10252024	
Ammonia 350.1			
Ammonia	ug/L	**7800**	
ANALYTE	**UNITS**	**MW-BCP-13B-10252024**	
Ammonia 350.1			
Ammonia	ug/L	**240**	F1

ANALYTE	UNITS	MW-BCP-08A-10232024	
Ammonia 350.1			
Ammonia	ug/L	**1000**	
ANALYTE	**UNITS**	**MW-BCP-08B-10232024**	
Ammonia 350.1			
Ammonia	ug/L	**170**	

ANALYTE	UNITS	MW-BCP-24A-10252024	
Ammonia 350.1			
Ammonia	ug/L	**1000**	
ANALYTE	**UNITS**	**MW-BCP-24B-10252024**	
Ammonia 350.1			
Ammonia	ug/L	**300**	F1F2

ANALYTE	UNITS	MW-BCP-11A-10242024	
Ammonia 350.1			
Ammonia	ug/L	**180**	
ANALYTE	**UNITS**	**MW-BCP-11B-10242024**	
Ammonia 350.1			
Ammonia	ug/L	**47**	

ANALYTE	UNITS	MW-BCP-19A-10252024	
Ammonia 350.1			
Ammonia	ug/L	**37000**	
ANALYTE	**UNITS**	**MW-BCP-19B-10252024**	
Ammonia 350.1			
Ammonia	ug/L	**200**	

ANALYTE	UNITS	MW-BCP-25A-10252024	
Ammonia 350.1			
Ammonia	ug/L	**5100**	B
ANALYTE	**UNITS**	**MW-BCP-25B-10252024**	
Ammonia 350.1			
Ammonia	ug/L	**250**	

ANALYTE	UNITS	MW-BCP-20A-10252024	
Ammonia 350.1			
Ammonia	ug/L	**170**	
ANALYTE	**UNITS**	**MW-BCP-20B-10252024**	
Ammonia 350.1			
Ammonia	ug/L	<9.0	U

ANALYTE	UNITS	BATTERYSUMP-10232024	
Ammonia 350.1			
Ammonia	ug/L	**31800**	B

ANALYTE	UNITS	MW-BCP-17A-10242024	
Ammonia 350.1			
Ammonia	ug/L	<9.0	U
ANALYTE	**UNITS**	**MW-BCP-17B-10242024**	
Ammonia 350.1			
Ammonia	ug/L	**49**	

LEGEND:
- BCP SITE BOUNDARY
- AOI BOUNDARY
- SSF SITE BOUNDARY
- MONITORING WELL LOCATION
- MONITORING WELL LOCATION SOIL SAMPLES
- SUPPLEMENTAL SOIL SAMPLE

Notes:
1. Groundwater results from samples collected between the dates of October 22nd and October 25th 2024.
2. Ammonia concentration results compares to TOGS 1.1.1 Class GA Ambient Water Quality Standards (2000 ug/L).
3. Ammonia concentrations exceeding the standard highlighted red in chem boxes.

D

1" = 200'
200' 100' 0' 200'

Reference: Niagara Boundary, Map Showing Topographic Survey of Property Owned by Riverview Innovation & Technology Campus Inc., April 2022

DRAWING BY: CB
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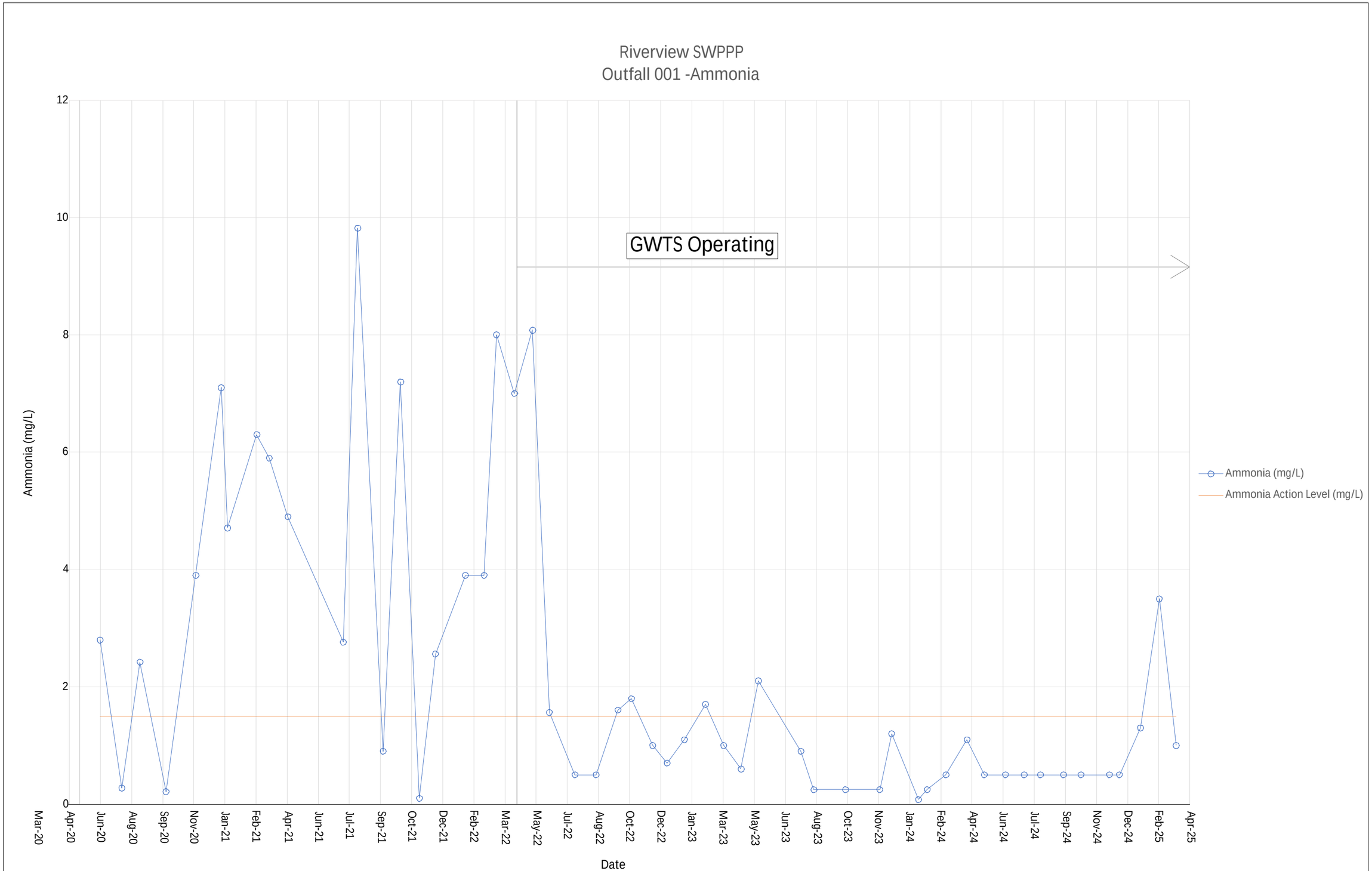
AMMONIA SCO GROUINDWATER CONCENTRATIONS

RIVERVIEW INNOVATION & TECHNOLOGY CAMPUS, INC.
3875 RIVER ROAD
TONAWANDA, NY 14150

INVENTUM ENGINEERING
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170
(703) 722-6049
www.InventumEng.com

FIGURE 1-1

AMMONIA SCO



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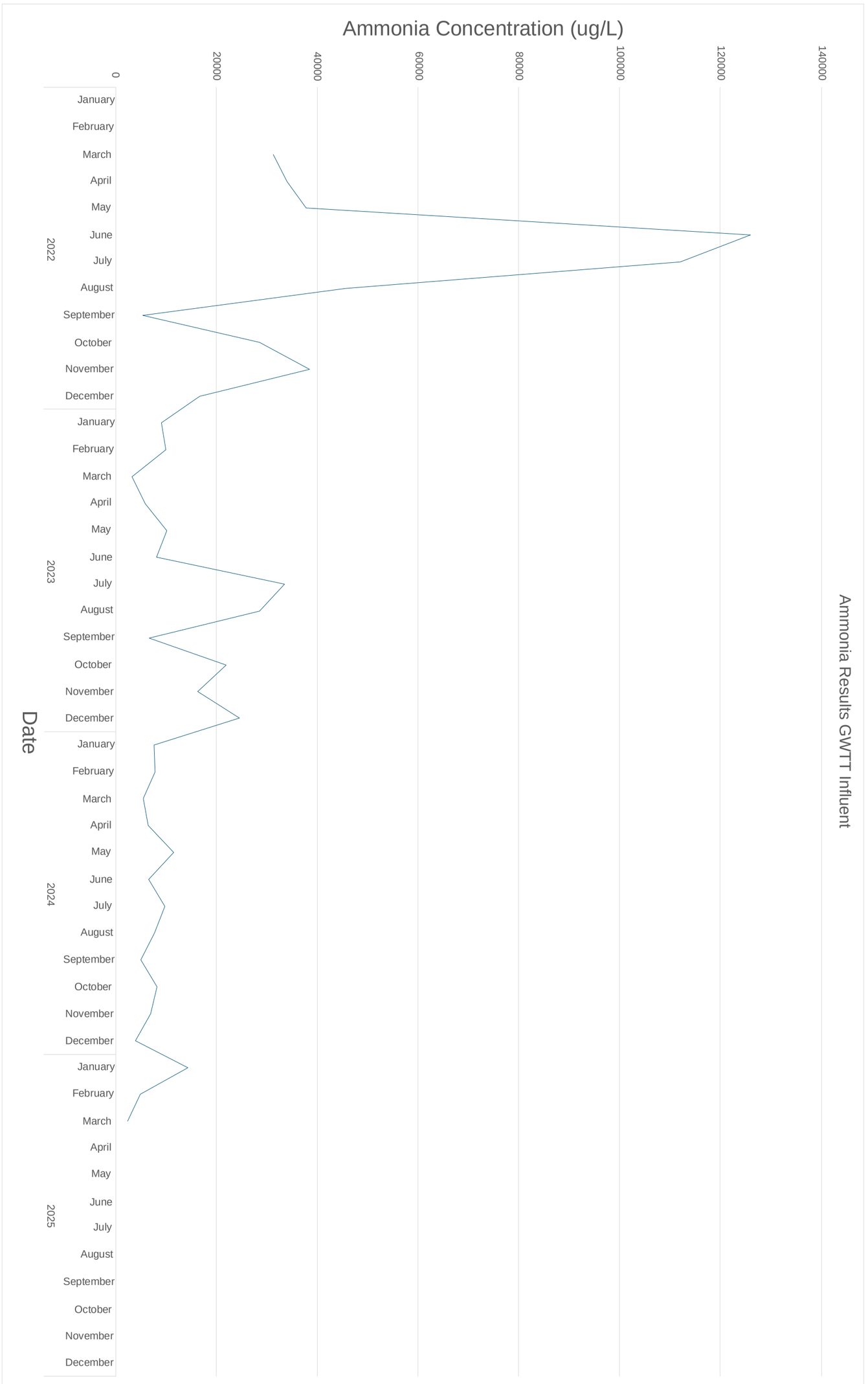
STORMWATER POLLUTION PREVENTION PLAN DATA - OUTFALL #001
JUNE 2020 TO DATE
RIVERVIEW INNOVATION & TECHNOLOGY CAMPUS, INC.
TONAWANDA, NEW YORK

INVENTUM ENGINEERING
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170

FIGURE 1-2

DRAWING NUMBER
AMMONIA SCO

B



DRAWING NUMBER
AMMONIA SCO

FIGURE 1-3

INVENTUM ENGINEERING
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170

AMMONIA CONCENTRATION - GROUNDWATER TREATMENT PLANT INFLUENT
MARCH 2022 TO DATE
RIVERVIEW INNOVATION & TECHNOLOGY CAMPUS, INC.
TONAWANDA, NEW YORK

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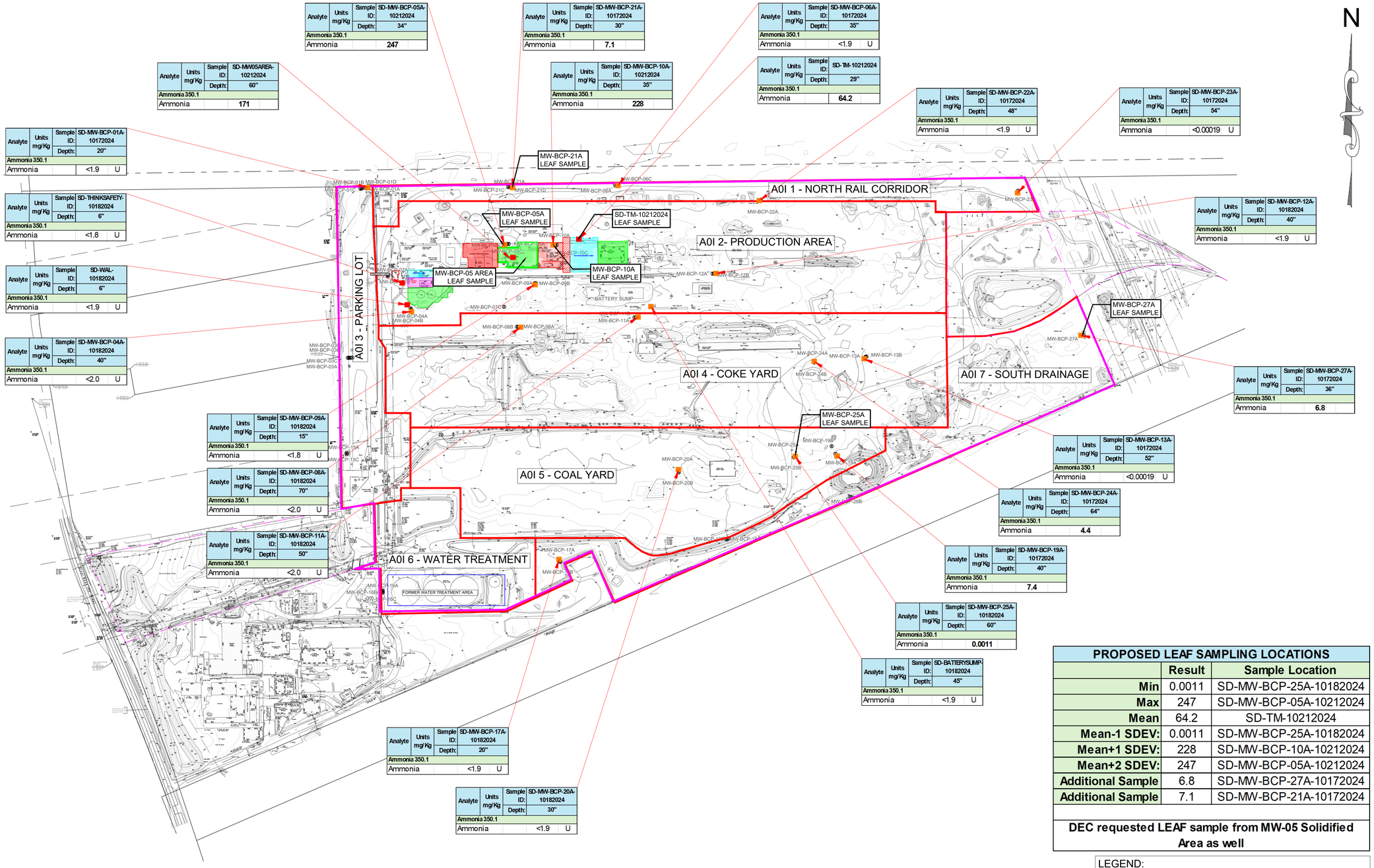

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-05A-10212024
		Depth:	34"
Ammonia 350.1			
Ammonia			247

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-21A-10172024
		Depth:	30"
Ammonia 350.1			
Ammonia			7.1

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-06A-10172024
		Depth:	35"
Ammonia 350.1			
Ammonia			<1.9 U

Analyte	Units mg/Kg	Sample ID:	SD-MW05AREA-10212024
		Depth:	60"
Ammonia 350.1			
Ammonia			171

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-10A-10212024
		Depth:	35"
Ammonia 350.1			
Ammonia			228

Analyte	Units mg/Kg	Sample ID:	SD-TM-10212024
		Depth:	29"
Ammonia 350.1			
Ammonia			64.2

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-22A-10172024
		Depth:	48"
Ammonia 350.1			
Ammonia			<1.9 U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-23A-10172024
		Depth:	54"
Ammonia 350.1			
Ammonia			<0.00019 U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-01A-10172024
		Depth:	20"
Ammonia 350.1			
Ammonia			<1.9 U

Analyte	Units mg/Kg	Sample ID:	SD-THINKSAFETY-10182024
		Depth:	6"
Ammonia 350.1			
Ammonia			<1.8 U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-12A-10182024
		Depth:	40"
Ammonia 350.1			
Ammonia			<1.9 U

Analyte	Units mg/Kg	Sample ID:	SD-WAL-10182024
		Depth:	6"
Ammonia 350.1			
Ammonia			<1.9 U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-04A-10182024
		Depth:	40"
Ammonia 350.1			
Ammonia			<2.0 U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-27A-10172024
		Depth:	36"
Ammonia 350.1			
Ammonia			6.8

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-09A-10182024
		Depth:	15"
Ammonia 350.1			
Ammonia			<1.8 U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-13A-10172024
		Depth:	52"
Ammonia 350.1			
Ammonia			<0.00019 U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-08A-10182024
		Depth:	70"
Ammonia 350.1			
Ammonia			<2.0 U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-24A-10172024
		Depth:	64"
Ammonia 350.1			
Ammonia			4.4

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-11A-10182024
		Depth:	50"
Ammonia 350.1			
Ammonia			<2.0 U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-19A-10172024
		Depth:	40"
Ammonia 350.1			
Ammonia			7.4

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-25A-10182024
		Depth:	60"
Ammonia 350.1			
Ammonia			0.0011

Analyte	Units mg/Kg	Sample ID:	SD-BATTERYSUMP-10182024
		Depth:	45"
Ammonia 350.1			
Ammonia			<1.9 U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-17A-10182024
		Depth:	20"
Ammonia 350.1			
Ammonia			<1.9 U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-20A-10182024
		Depth:	30"
Ammonia 350.1			
Ammonia			<1.9 U

PROPOSED LEAF SAMPLING LOCATIONS		
	Result	**Sample Location**
Min	0.0011	SD-MW-BCP-25A-10182024
Max	247	SD-MW-BCP-05A-10212024
Mean	64.2	SD-TM-10212024
Mean-1 SDEV:	0.0011	SD-MW-BCP-25A-10182024
Mean+1 SDEV:	228	SD-MW-BCP-10A-10212024
Mean+2 SDEV:	247	SD-MW-BCP-05A-10212024
Additional Sample	6.8	SD-MW-BCP-27A-10172024
Additional Sample	7.1	SD-MW-BCP-21A-10172024
DEC requested LEAF sample from MW-05 Solidified Area as well		

LEGEND:
- BCP SITE BOUNDARY
- AOI BOUNDARY
- SSF SITE BOUNDARY
- MONITORING WELL LOCATION
- MONITORING WELL LOCATION SOIL SAMPLES
- SUPPLEMENTAL SOIL SAMPLE

Notes:
1. Former Water Treatment Area has been excavated to native clay.
2. Soil samples were collected from test pits advanced within 5-feet of the associated monitory wells.

D

1" = 200'
200' 100' 0' 200'

Reference: Niagara Boundary, Map Showing Topographic Survey of Property Owned by Riverview Innovation & Technology Campus Inc., April 2022

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AMMONIA SCO SOIL SAMPLING RESULTS AND PROPOSED LEAF SAMPLE LOCATIONS

RIVERVIEW INNOVATION & TECHNOLOGY CAMPUS, INC.
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TONAWANDA, NY 14150

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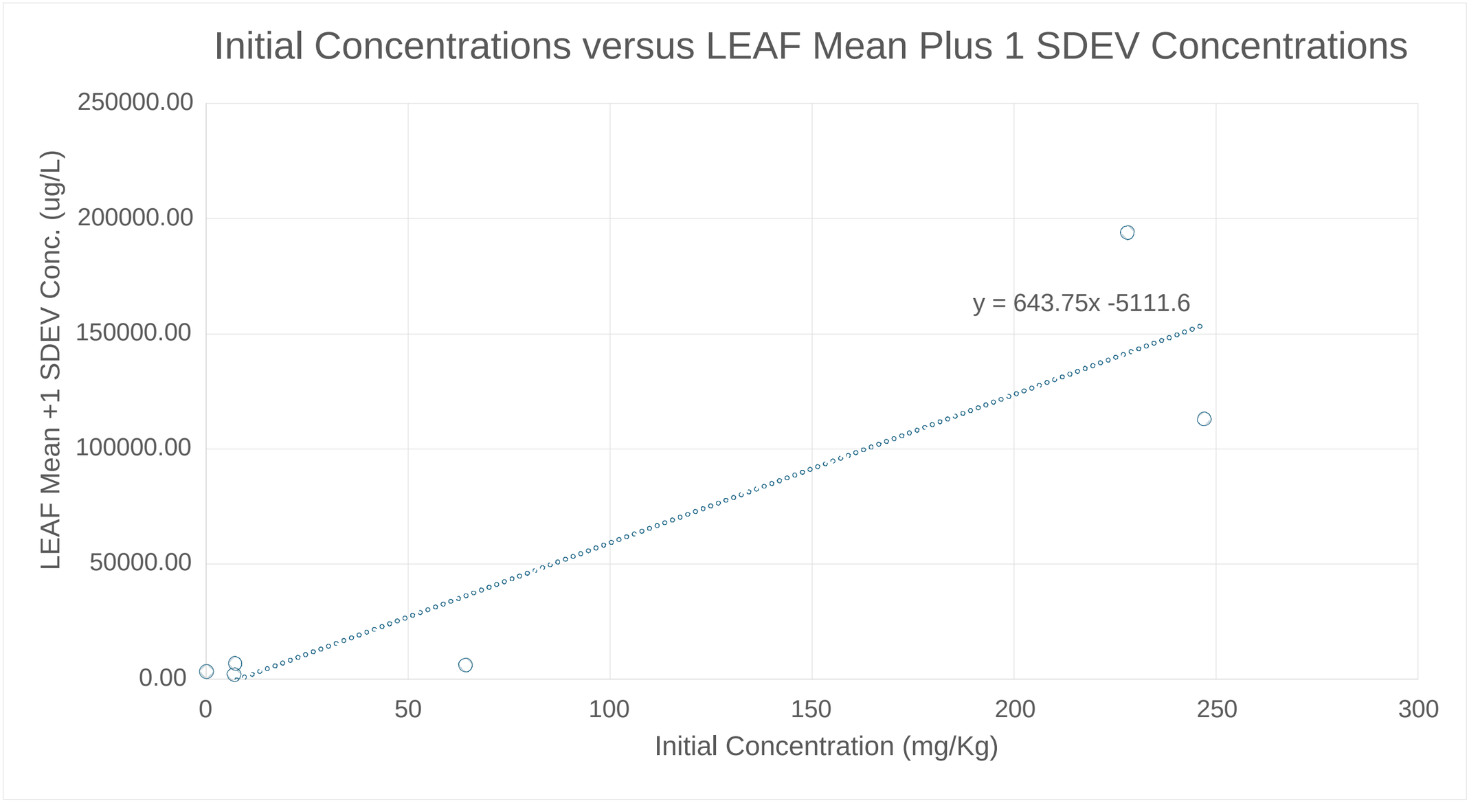
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170
(703) 722-6049
www.InventumEng.com

FIGURE 2-1

AMMONIA SCO



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INITIAL PRE-CHARACTERIZATION SOIL VERSUS LEAF MEAN PLUS ONE STANDARD DEVIATION

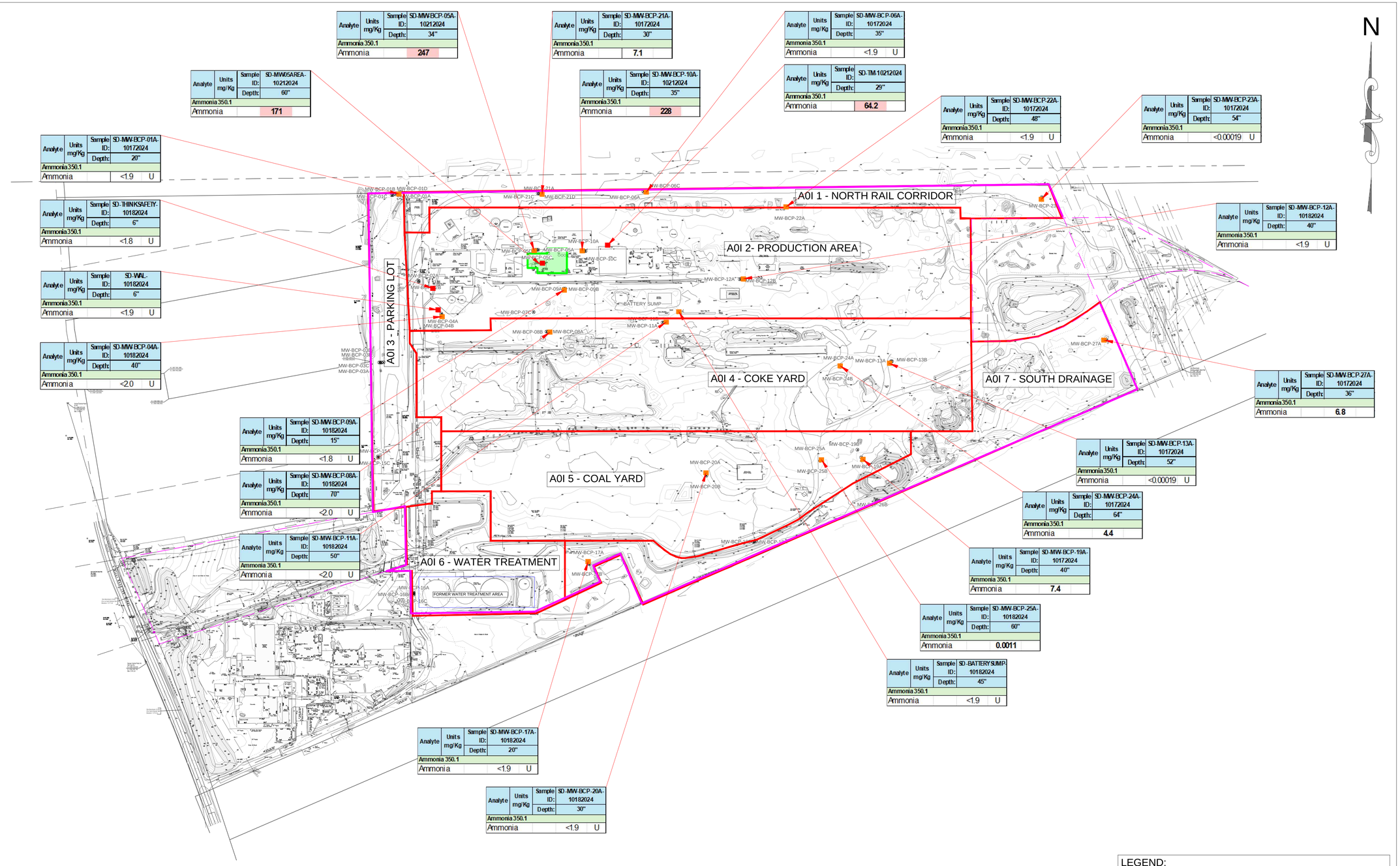
RIVERVIEW INNOVATION & TECHNOLOGY CAMPUS, INC.

TONAWANDA, NEW YORK

INVENTUM ENGINEERING
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170

FIGURE 3-1

DRAWING NUMBER
AMMONIA SCO



Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-05A-10212024
		Depth:	34"
Ammonia 350.1			
Ammonia			247

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-21A-10172024
		Depth:	30"
Ammonia 350.1			
Ammonia			7.1

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-06A-10172024
		Depth:	35"
Ammonia 350.1			
Ammonia		<1.9	U

Analyte	Units mg/Kg	Sample ID:	SD-MW05AREA-10212024
		Depth:	60"
Ammonia 350.1			
Ammonia			171

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-10A-10212024
		Depth:	35"
Ammonia 350.1			
Ammonia			228

Analyte	Units mg/Kg	Sample ID:	SD-TM-10212024
		Depth:	29"
Ammonia 350.1			
Ammonia			64.2

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-22A-10172024
		Depth:	48"
Ammonia 350.1			
Ammonia		<1.9	U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-23A-10172024
		Depth:	54"
Ammonia 350.1			
Ammonia		<0.00019	U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-01A-10172024
		Depth:	20"
Ammonia 350.1			
Ammonia		<1.9	U

Analyte	Units mg/Kg	Sample ID:	SD-THINKSAFETY-10182024
		Depth:	6"
Ammonia 350.1			
Ammonia		<1.8	U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-12A-10182024
		Depth:	40"
Ammonia 350.1			
Ammonia		<1.9	U

Analyte	Units mg/Kg	Sample ID:	SD-WWL-10182024
		Depth:	6"
Ammonia 350.1			
Ammonia		<1.9	U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-04A-10182024
		Depth:	40"
Ammonia 350.1			
Ammonia		<2.0	U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-27A-10172024
		Depth:	36"
Ammonia 350.1			
Ammonia			6.8

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-09A-10182024
		Depth:	15"
Ammonia 350.1			
Ammonia		<1.8	U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-13A-10172024
		Depth:	52"
Ammonia 350.1			
Ammonia		<0.00019	U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-08A-10182024
		Depth:	70"
Ammonia 350.1			
Ammonia		<2.0	U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-24A-10172024
		Depth:	64"
Ammonia 350.1			
Ammonia			4.4

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-11A-10182024
		Depth:	50"
Ammonia 350.1			
Ammonia		<2.0	U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-19A-10172024
		Depth:	40"
Ammonia 350.1			
Ammonia			7.4

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-25A-10182024
		Depth:	60"
Ammonia 350.1			
Ammonia			0.0011

Analyte	Units mg/Kg	Sample ID:	SD-BATTERYSUMP-10182024
		Depth:	45"
Ammonia 350.1			
Ammonia		<1.9	U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-17A-10182024
		Depth:	20"
Ammonia 350.1			
Ammonia		<1.9	U

Analyte	Units mg/Kg	Sample ID:	SD-MW-BCP-20A-10182024
		Depth:	30"
Ammonia 350.1			
Ammonia		<1.9	U

LEGEND:
- BCP SITE BOUNDARY
- AOI BOUNDARY
- SSF SITE BOUNDARY
- MONITORING WELL LOCATION
- MONITORING WELL LOCATION SOIL SAMPLES
- SUPPLEMENTAL SOIL SAMPLE

Notes:
1. Former Water Treatment Area has been excavated to native clay.
2. Soil samples were collected from test pits advanced within 5-feet of the associated monitory wells.
3. Ammonia results highlighted in red represent values above the recommended site-specific Ammonia SCO of 11.05 mg/Kg.

D

1" = 200'
200' 100' 0' 200'

Reference: Niagara Boundary, Map Showing Topographic Survey of Property Owned by Riverview Innovation & Technology Campus Inc., April 2022

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AMMONIA SOIL SAMPLING RESULTS ABOVE PROPOSED SCO

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FIGURE 4-1

AMMONIA SCO

Appendices

Appendix A – Laboratory Method

METHOD 1314[1]

LIQUID-SOLID PARTITIONING AS A FUNCTION OF LIQUID-SOLID RATIO FOR CONSTITUENTS IN SOLID MATERIALS USING AN UP-FLOW PERCOLATION COLUMN PROCEDURE

SW-846 is not intended to be an analytical training manual. Therefore, method procedures are written based on the assumption that they will be performed by analysts who are formally trained in at least the basic principles of chemical analysis and in the use of the subject technology.

In addition, SW-846 methods, with the exception of required methods used for the analysis of method-defined parameters, are intended to be guidance methods that contain general information on how to perform an analytical procedure or technique, which a laboratory can use as a basic starting point for generating its own detailed standard operating procedure (SOP), either for its own general use or for a specific project application. Performance data included in this method are for guidance purposes only and must not be used as absolute quality control (QC) acceptance criteria for purposes of laboratory QC or accreditation.

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[1] This method has been derived from the CT001 procedure (Ref. 4) and is analogous to column percolation method CEN/TS 14405 (Ref. 5) developed for the Comité Européen de Normalisation (CEN).

1.0 SCOPE AND APPLICATION

1.1 This method is designed to provide the liquid-solid partitioning (LSP) of inorganic constituents (e.g., metals, radionuclides) and non-volatile organic constituents (e.g., polycyclic aromatic hydrocarbons (PAHs), dissolved organic carbon, etc.) in a granular solid material as a function of liquid-to-solid ratio (L/S) under percolation conditions. The first eluates of the column test may provide insight into the composition of pore solution either in a granular bed (e.g., soil column) or in the pore space of low-permeability material (e.g., solidified monolithic or compacted granular fill). Analyses of eluates for dissolved organic carbon and of the solid phase for total organic carbon afford evaluation of the impact of organic carbon release and the influence of dissolved organic carbon on the LSP of inorganic constituents.

1.2 This method is intended to be used as part of an environmental leaching assessment for the evaluation of disposal, beneficial use, treatment effectiveness, and site remediation. The method is not required by federal regulations to determine whether waste passes or fails the toxicity characteristic as defined at 40 CFR 261.24.

1.3 This method is suitable to a wide range of granular solid materials. Example materials include industrial wastes, soils, sludges, combustion residues, sediments, construction materials, and mining wastes. This method is not suitable to monolithic materials (e.g., cement-based and stabilized materials) without particle size reduction prior to testing.

1.4 This test method is intended as a means for obtaining a series of extracts (i.e., the eluates) of a granular solid material that may be used to show eluate concentrations and/or cumulative release as a function of L/S, which can be related to a time scale when data on mean infiltration rate, density and height of application are available.

1.5 This method provides options for the preparation of analytical samples that provide flexibility based on the level of detail required. For example, when the purpose of characterization is for comparison to previous testing, compositing of eluates may be possible to create a reduced set of analytical samples. Table 1 outlines the eluate fractions and collection options, based on whether concentration or cumulative release is to be reported. The collection schemes are described below.

1.5.1 Complete characterization

For complete characterization of eluate concentration and cumulative release as a function of L/S, nine discrete eluate collections and analyses are required (see Table 1, Option A). No compositing of eluate fractions is performed for complete characterization, and all eluate fractions are analyzed.

Eluate concentrations from complete characterization may be used in conjunction with information regarding environmental management scenarios to estimate anticipated leaching concentrations, release rates, and extents of release for individual material constituents in the management scenarios evaluated. Eluate concentrations may also be used along with geochemical speciation modeling to infer the mineral phases that control the LSP in the pore structure of the solid material.

1.5.2 Limited analysis

Under a limited analysis approach, nine eluate collections and analysis of six analytical samples are required. If evaluation is based on eluate concentrations, six discrete eluate fractions are chemically analyzed (see Table 1, Option B). If evaluation is based on cumulative release, some eluate fractions are composited by volume-weighted averaging to create a set of six analytical samples (see Table 1, Option C). The concentrations of composite analytical samples cannot be interpreted along with eluate fractions on the basis of concentration.

1.5.3 Index testing

For the determination of consistency between the subject material and previously characterized materials, nine eluate collections and analysis of three analytical samples are required. If consistency is to be determined by eluate concentrations, three discrete eluate fractions are chemically analyzed (see Table 1, Option D). If consistency is to be determined by cumulative release, some eluate fractions are composited by volume-weighted averaging to create a set of three analytical samples (see Table 1, Option E). The concentrations of composited analytical samples cannot be interpreted along with eluate fractions on the basis of concentration.

1.6 This method is not applicable to characterize the release of volatile organic analytes.

1.7 This method provides eluate solutions considered indicative of leachate under field conditions only where the field leaching pH is controlled by the alkalinity or acidity of the solid material and the field leachate is not subject to dilution or other attenuation mechanisms. The cumulative mass of constituent released over a L/S range may be considered an estimate of the maximum mass of that constituent to be leached under field leaching over intermediate timeframes (e.g., up to 100 years) and the domain of laboratory test pH.

1.8 Prior to employing this method, analysts are advised to take reasonable measures to ensure that the granular sample is homogenized to the most practical extent. Particle size reduction may provide additional assurance of sample homogenization.

1.9 In preparation of solid materials for use in this method, particle size reduction or exclusion of samples with large grain size is used to enhance the approach towards liquid-solid equilibrium over the residence time of eluent in the column.

1.10 The structure and use of this method is similar to that of NEN 7343 (see Ref. 3) and CEN/TS 14405 (see Ref. 5).

1.11 Prior to employing this method, analysts are advised to consult the base method for each type of procedure that may be employed in the overall analysis (e.g., Methods 9040, 9045 and 9050, and the determinative methods for the target analytes) for additional information on QC procedures, development of QC acceptance criteria, calculations, and general guidance. Analysts also should consult the disclaimer statement at the front of the manual and the information in Chapter Two for: 1) guidance on the intended flexibility in the choice of methods, apparatus, materials, reagents, and supplies, and 2) the responsibilities of the analyst for demonstrating that the techniques employed are appropriate for the analytes of interest, in the matrix of interest, and at the levels of concern.

In addition, analysts and data users are advised that, except where explicitly specified in a regulation, the use of SW-846 methods is *not* mandatory in response to federal testing requirements. The information contained in this method is provided by the Environmental Protection Agency (EPA or the Agency) as guidance to be used by the analyst and the regulated community in making judgments necessary to generate results that meet the data quality objectives (DQOs) for the intended application. Guidance on defining DQOs can be obtained at http://www.epa.gov/QUALITY/qs-docs/g4-final.pdf.

1.12 This method is restricted to use by, or under supervision of, properly experienced and trained personnel. Each analyst must demonstrate the ability to generate acceptable results with this method.

2.0 SUMMARY OF METHOD

Eluent is introduced into a column of moderately packed granular material in an up-flow pumping mode, with eluate collection performed as a function of the cumulative L/S. Up-flow pumping is used to minimize air entrainment and flow channeling. The default eluent for most materials is reagent water. However, a solution of 1.0 mM calcium chloride in reagent water is used when testing materials with either a high clay content (i.e., to prevent deflocculation of clay layers) or high organic matter (i.e., to moderate mobilization of dissolved organic carbon). The flow rate is maintained between 0.5-1.0 L/S per day to increase the likelihood of local equilibrium between the solid and liquid phases, due to residence times longer than one day. Eluate volumes are chemically analyzed for a combination of inorganic and non-volatile organic analytes depending on the constituents of potential concern (COPC). For the purposes of chemical speciation modeling, the entire eluent volume up to 10 mL/g dry sample (g-dry) is collected in nine specific aliquots of varying volume. A limited subset of eluent volumes within the same L/S range may be collected and analyzed for regulatory and compliance purposes. A flowchart for performing this method is shown in Figure 1.

3.0 DEFINITIONS

3.1 Constituent of potential concern (COPC) – A chemical species of interest, which may or may not be regulated, but may be characteristic of release-controlling properties of the sample geochemistry.

3.2 Release – The dissolution or partitioning of a COPC from the solid phase to the aqueous phase during laboratory testing (or under field conditions). In this method, mass release is expressed in units of mg COPC/kg dry solid material.

3.3 Liquid-solid partitioning (LSP) – The distribution of COPCs between the solid and liquid phases at the conclusion of the extraction.

3.4 Liquid-to-solid ratio (L/S) – The fraction of the total liquid volume (including the moisture contained in the "as-used" solid sample) to the dry mass equivalent of the solid material. L/S is typically expressed in volume units of liquid per dry mass of solid material (mL/g-dry).

3.5 "As-tested" sample – The solid sample at the conditions (e.g., moisture content and particle size distribution) present at the time of the start of the test procedure. The "as-tested"

conditions will differ from the "as-received" sample conditions if particle size reduction and drying were performed.

3.6 Dry-mass equivalent – The mass of an "as-tested" (i.e., "wet") sample that equates to the mass of dry solids plus associated moisture, based on the moisture content of the "as-tested" material. The dry-mass equivalent is typically expressed in mass units of the "as-tested" sample (g).

3.7 Eluent – The solution used to contact the solid material in a leaching test. The eluent is usually free of COPCs but may contain other species used to control the test conditions of the extraction.

3.8 Eluate – The solution collected as an extract from a leaching test that contains the eluent plus constituents leached from the solid phase.

3.9 Refer to Chapter One, Chapter Three, and the manufacturer's instructions for definitions that may be relevant to this procedure.

4.0 INTERFERENCES

4.1 Solvents, reagents, glassware, and other sample processing hardware may yield artifacts and/or interferences during sample analysis. All of these materials must be demonstrated to be free from interferences under the conditions of the analysis by analyzing method blanks. Specific selection of reagents and purification of solvents by distillation in all-glass systems may be necessary. Refer to each method to be used for specific guidance on QC procedures and to Chapters Three and Four for general guidance on glassware cleaning. Also refer to Methods 9040, 9045 and 9050 and the determinative methods to be used for information regarding potential interferences.

4.2 When the test method is applied to solid materials with a clay content greater than 10% or an organic matter content greater than 1%, a solution of 1.0 mM calcium chloride in reagent water is recommended to minimize deflocculation of clay minerals. However, the use of calcium chloride solution will interfere with the determination of actual calcium and chloride release.

4.3 When this method is applied to fine-grained granular materials, tamping during column preparation may result in flow problems due to a low-permeability sample bed. This problem can be resolved by incorporating 20 - 50% inert material (e.g., 20-30-mesh normal sand or 2-mm borosilicate glass beads) into the solid sample. Alternatively, mass release from low-permeability materials may be measured using Method 1315.

5.0 SAFETY

5.1 This method does not address all safety issues associated with its use. The laboratory is responsible for maintaining a safe work environment and a current awareness file of Occupational Safety and Health Administration (OSHA) regulations regarding the safe handling of the chemicals specified in this method. A reference file of safety data sheets (SDSs) should be available to all personnel involved in these analyses.

5.2 During preparation and processing of extracts and/or eluents/eluates, some waste materials may generate heat or evolve potentially harmful gases when contacted with acids and bases. Adequate prior knowledge of the material being tested should be used to establish appropriate personal protection and workspace ventilation.

6.0 EQUIPMENT AND SUPPLIES

The mention of trade names or commercial products in this manual is for illustrative purposes only, and does not constitute an EPA endorsement or exclusive recommendation for use. The products and instrument settings cited in SW-846 methods represent those products and settings used during the method development or subsequently evaluated by the Agency. Glassware, reagents, supplies, equipment, and settings other than those listed in this manual may be employed provided that method performance appropriate for the intended application has been demonstrated and documented.

This section does not list common laboratory glassware (e.g., beakers and flasks) that might be used.

6.1 Column apparatus

This method recommends the use of a specific column apparatus (see Figure 2). Equipment with equivalent specifications may be substituted. The apparatus should have valves and quick connectors (e.g., Luer lock fittings) such that the column with end caps can be removed for packing with test material and mass measurements.

6.1.1 A 30-cm, straight cylindrical column with an inner diameter (ID) of 5 cm and constructed of inert material, resistant to high and low pH conditions and interaction with constituents of interest.

6.1.1.1 For the evaluation of inorganic COPC mobility, equipment composed of borosilicate glass (e.g., Kimble-Kontes CHROMAFLEX #420830-3020 or equivalent), polytetra-fluoroethylene (PTFE), high density polyethylene (HDPE), polypropylene (PP), or polyvinyl chloride (PVC) is recommended.

6.1.1.2 For the evaluation of non-volatile organic and mixed organic/inorganic COPCs, equipment composed of glass or Type 316 stainless steel is recommended. PTFE is not recommended for non-volatile organics, due to sorption of species with high hydrophobicity (e.g., PAHs). Borosilicate glass is recommended over other types of glass, especially when inorganic analytes are of concern.

6.1.2 The column must be of sufficient volume to accommodate a minimum of 300 g dry material plus a 1-cm layer of silica sand (20-30 mesh) used at the bottom of the column to distribute eluent flow and at the top of the column to form a coarse filter for eluate particulates.

6.1.3 The column must have end cap materials that form a leak-proof seal and that can withstand pressures, such as encountered when pumping eluent through the column.

6.2 Eluent feed stock container – Resealable bottle or other container, constructed of inert material, capable of withstanding extreme pH conditions and interaction with any constituents of interest (see guidance in Sec. 6.1.2)

6.3 Eluent feed tubing – 2-mm or similarly small ID tubing composed of chemically inert material such as PVC or equivalent

NOTE: Larger ID tubing may be required as a feed to the pump and manifold if a single eluent stock container is used to feed multiple column set-ups.

6.4 Eluate collection bottles – Capable of assembly with column apparatus using simple water locks in order to prevent the intrusion of air (see Figure 2)

6.5 20-30 mesh normal washed quartz sand

6.6 Balance – Capable of 0.01 g resolution for masses less than 500 g

6.7 Filtration apparatus – Pressure or vacuum filtration apparatus composed of appropriate materials so as to maximize the collection of extracts and minimize loss of the COPCs (e.g., Nalgene #300-4000 or equivalent) (see Sec. 6.1)

6.8 Filtration membranes – Composed of hydrophilic polypropylene or equivalent material with an effective pore size of 0.45 µm (e.g., Gelman Sciences GH Polypro #66548 from Fisher Scientific or equivalent)

6.9 pH meter – Laboratory model with the capability for temperature compensation (e.g., Accumet 20, Fisher Scientific or equivalent) and a minimum resolution of 0.1 pH units

6.10 pH combination electrode – Composed of chemically resistant materials

6.11 Conductivity meter – Laboratory model (e.g., Accumet 20, Fisher Scientific or equivalent), with a minimum resolution of 5% of the measured value

6.12 Conductivity electrodes – Composed of chemically resistant materials

7.0 REAGENTS AND STANDARDS

7.1 Reagent-grade chemicals, at a minimum, should be used in all tests. Unless otherwise indicated, all reagents should conform to the specifications of the Committee on Analytical Reagents of the American Chemical Society (ACS), where such specifications are available. Other grades may be used, provided the reagent is of sufficiently high purity to permit use without lessening the accuracy of the determination. Inorganic reagents and extracts should be stored in plastic to prevent interaction of constituents from glass containers.

7.2 Reagent water – Reagent water must be interference free. All references to water in this method refer to reagent water unless otherwise specified.

7.3 Calcium chloride (1.0 mM), $CaCl_2$ – Prepared by dissolving 0.11 g of ACS grade (or better) solid calcium chloride in 1 L of reagent water

8.0 SAMPLE COLLECTION, PRESERVATION, AND STORAGE

8.1 See Chapter Three, "Inorganic Analytes," and Chapter Four, "Organic Analytes," for sample collection and preservation instructions.

8.2 All samples should be collected using an appropriate sampling plan.

8.3 All containers should be composed of materials that minimize interaction with solution COPCs. For further information, see Chapters Three and Four.

8.4 Preservatives should not be added to samples before extraction.

8.5 Samples can be refrigerated, unless refrigeration results in an irreversible physical change to the sample.

8.6 Analytical extracts should be preserved according to the guidance given in the individual determinative methods for the COPCs.

8.7 Extract holding times should be consistent with the aqueous sample holding times specified in the determinative methods for the COPCs.

9.0 QUALITY CONTROL

9.1 Refer to Chapter One for guidance on quality assurance (QA) and quality control (QC) protocols. When inconsistencies exist between QC guidelines, method-specific QC criteria take precedence over both technique-specific criteria and Chapter One criteria, and technique-specific QC criteria take precedence over Chapter One criteria. Any effort involving the collection of analytical data should include development of a structured and systematic planning document, such as a quality assurance project plan (QAPP) or a sampling and analysis plan (SAP), which translates project objectives and specifications into directions for those who will implement the project and assess the results.

Each laboratory should maintain a formal QA program. The laboratory should also maintain records to document the quality of the data generated. Development of in-house QC limits for each method is encouraged. Use of instrument-specific QC limits is encouraged, provided such limits will generate data appropriate for use in the intended application. All data sheets and QC data should be maintained for reference or inspection.

9.2 In order to demonstrate the purity of reagents, at least one eluent blank should be tested. If multiple batches of eluent are employed, one eluent blank from each batch should be analyzed.

9.3 The analysis of extracts should follow appropriate QC procedures, as specified in the determinative methods for the COPCs. Refer to Chapter One for specific QC procedures.

9.4 Unless the "as-received" samples are part of a time-dependent (e.g., aging) study, solid materials should be processed and tested within one month of their receipt.

9.5 Initial demonstration of proficiency (IDP)

Leachate methods are not amenable to typical IDPs when reference materials with known values are not available. However, prior to using this method an analyst should have documented proficiency in the skills required for successful implementation of the method. For example, skill should be demonstrated in the use of an analytical balance, the determination of pH using Methods 9040 and 9045, and the determination of conductance using Method 9050.

10.0 CALIBRATION AND STANDARDIZATION

10.1 The balance should be calibrated and certified, at a minimum, annually or in accordance with laboratory policy.

10.2 Prior to measurement of eluate pH, the pH meter should be calibrated using a minimum of two standards that bracket the range of pH measurements. Refer to Methods 9040 and 9045 for additional guidance.

10.3 Prior to measurement of eluate conductivity, the meter should be calibrated using at least one standard at a value greater than the range of conductivity measurements. Refer to Method 9050 for additional guidance.

11.0 PROCEDURE

A flowchart for the method procedure is presented in Figure 1. Microsoft Excel® data templates are available to aid in collecting and archiving of laboratory and analytical data.[2]

11.1 Preparatory procedures – Particle size reduction (if required)

11.1.1 In this method, particle size reduction is used to prepare large-grained samples for the column test so that the approach toward liquid-solid equilibrium is enhanced and fluid channeling along column walls is minimized. The maximum particle size of the solid should ≤ 1/20 of the column diameter. For the column recommended in this method, a maximum particle size of 2.5 mm is acceptable. Therefore, 85% of the test material should pass through a 2.38-mm (U.S. No. 8) sieve. If less than 15% of the solid material is larger than the maximum acceptable particle size, this fraction of the solid may be excluded from the material tested, rather than particle size-reduced. The mass and nature of the discarded fraction should be documented.

11.1.2 Particle size reduction of an "as received" sample may be achieved through crushing, milling, or grinding with equipment made from chemically inert materials. During the reduction process, care should be taken to minimize the loss of sample and potentially volatile constituents in the sample.

11.1.3 If the moisture content of the "as received" material is greater than 15% (wet basis), air drying or desiccation may be necessary. Oven drying is not recommended for the

[2] These Excel® templates form the basis for uploading method data into the data management program, LeachXS Lite™. Both the data templates and LeachXS Lite™ are available at http://vanderbilt.edu/leaching.

preparation of test samples due to the potential for mineral alteration and volatility loss. In all cases, the moisture content of the "as received" material should be recorded.

NOTE: If the solid material is susceptible to interaction with the atmosphere (e.g., carbonation, oxidation), drying should be conducted in an inert environment.

11.1.4 When the material seems to be of a relatively uniform particle size, calculate the percentage less than the sieve size as follows:

$$\% \text{ Passing} = \frac{M_{sieved}}{M_{total}} \times 100\%$$

Where: M_{sieved} = mass of sample passing the sieve (g)
M_{total} = mass of total sample (g) (e.g., M_{sieved} + mass not passing sieve)

11.1.5 The fraction retained by the sieve should be recycled for further particle size reduction until at least 85% of the initial mass has been reduced below the designated maximum particle size. Calculate and record the final percentage passing the sieve and the designated maximum particle size. For the uncrushable fraction of the "as-received" material, record the fraction mass and nature (e.g., rock, metal or glass shards, etc).

11.1.6 Store the size-reduced material in an airtight container in order to prevent contamination via gas exchange with the atmosphere. Store the container in a cool, dark, and dry place prior to use.

11.2 Determination of solids and moisture content

11.2.1 In order to provide the dry mass equivalent of the "as-tested" material, the solids content of the subject material should be determined. Often, the moisture content of the solid sample is recorded. In this method, the moisture content is determined and recorded on the basis of the "wet" or "as-tested" sample.

WARNING: The drying oven should be contained in a hood or otherwise properly ventilated. Significant laboratory contamination or inhalation hazards may result when drying heavily contaminated samples. Consult the laboratory safety officer for proper handling procedures prior to drying samples that may contain volatile, hazardous, flammable, or explosive materials.

11.2.2 Place a 5 to10-g sample of solid material into a tared dish or crucible. Dry the sample to a constant mass at 105 ± 2 °C. Check for constant mass by returning the dish to the drying oven for 24 hours, cooling to room temperature in a desiccator and re-weighing. The two mass readings should agree within the larger of 0.2% or 0.02 gram.

NOTE: The oven-dried sample is not used for the extraction and should be properly disposed once the dry mass is determined.

11.2.3 Calculate and report the solids content as follows:

$$SC = \frac{M_{dry}}{M_{test}}$$

Where: SC = solids content of "as-tested" material (g-dry/g)
M_{dry} = mass of dry material specified in the method (g-dry)
M_{test} = mass of "as-tested" solid equivalent to the dry-material mass (g)

11.2.4 Calculate and report the moisture content (wet basis) as follows:

$$MC_{wet} = \frac{M_{test} - M_{dry}}{M_{test}}$$

Where: MC_{wet} = moisture content on a wet basis (g_{H_2O}/g)
M_{dry} = mass of dry material specified in the method (g-dry)
M_{test} = mass of "as-tested" solid equivalent to the dry-material mass (g)

11.3 Apparatus preparation

11.3.1 Prepare the column test apparatus as depicted in Figure 2. Eluent feed should be directed through the lower end cap and upwards into the column to minimize air retention in the packed bed and fluid channeling along the column walls.

NOTE: When solid samples may be affected by dissolved oxygen in the feed stock, an inert gas (e.g., nitrogen or argon) may be bubbled through the feed solution to displace oxygen or used to purge the headspace above the feed solution.

NOTE: When alkaline or other air-sensitive eluates are expected, the vapor space of empty collection bottles may be purged with an inert gas (e.g., nitrogen or argon) prior to eluate collection.

11.4 Column packing

11.4.1 The column is packed with test material surrounded by layers of quartz sand at the top and bottom of the column to provide flow pattern regulation and coarse filtration.

NOTE: The following procedure describes the packing of the column from starting at the outflow (top) of the column and ending with the inflow (bottom) of the column. This is done to allow for a wider layer of quartz sand on the inflow side in cases where less than a full column of test material is available. The column is inverted prior to assembly into the leaching apparatus and initial wetting.

11.4.2 Record the mass of the empty column with end caps and any tubing leads or valves that would be needed to completely separate the column, which may include both solid material and water, from the entire apparatus.

11.4.3 Secure one end cap to the outflow side of the column and invert the column and end cap so that the outflow side of the column is facing downward.

11.4.4 Place an approximately 1-cm thick layer of quartz sand (Sec. 6.5) on the outflow side of the column using a small scoop or spoon. Record the mass of the column and sand layer. Level the sand layer by tapping the sides of the column.

11.4.5 Pack the main body of the column with a minimum 300-g dry-mass equivalent of "as-tested" sample in approximately five layers with light tamping with a glass or plastic rod to level the material between layers. When enough test material is available to produce a full column, the top of the packed sample should be approximately 1 cm from the level of the column interface with the inflow end cap (the end facing upwards). Record the mass of the column, lower sand layer, and "as-tested" sample.

11.4.6 Place a layer of sand to fill the remaining gap between the sample packing and the interface between the column and inflow end cap. When enough test material is available to pack a full column, the sand layer at the inflow end of the column should be approximately 1 cm. This gap may be larger if less test material is used. Record the total mass of the completely packed column.

11.4.7 Secure the inflow end cap. Invert the column so that the inflow end of the column is downward prior to inserting the column into the leaching apparatus.

11.4.8 Calculate the "as-tested" mass of the sample packing by subtracting the mass of the column and lower sand layer (Sec. 11.4.4) from the mass of the column, sand layer and packing (Sec. 11.4.5).

11.4.9 Calculate the dry mass equivalent packed of "as-tested" sample into the column using the solids content as follows:

$$M_{dry} = SC \cdot M_{test}$$

Where: M_{dry} = dry-mass equivalent of sample in column (g-dry)
SC = solids content (g-dry/g)
M_{test} = mass of "as-tested" solid equivalent to the dry-material mass (g)

11.5 Pump setup

11.5.1 Prior to the start of the test, set the flow rate of the pump to a value that will provide an eluate production rate of 0.75 ± 0.25 L/S per day. For example, given a dry-mass equivalent of 300 g-dry, an L/S of 0.75 mL/g-dry would translate to a volume of 225 mL/g-dry, in which case the pump should be set to a flow rate of 225 mL (0.75 L/S) per day.

11.5.2 Prime the tubing with eluent

11.5.2.1 Detach the inlet tubing from the bottom of the column and place the open end into a waste container.

11.5.2.2 Turn on the pump and allow the inlet tubing to fill with eluent. Remove any air bubbles trapped in the inlet tubing.

11.5.2.3 When the inlet tubing is full with eluent, stop the pump and reconnect the tubing to the bottom of the column.

11.6 Eluent collection schedule

11.6.1 Table 2 provides a schedule of fraction end-point L/S, interval L/S, and eluate fraction volumes for collection, assuming a dry-mass equivalent of 300 g-dry. The minimum volume of each collection bottle should be scaled so as to capture the entire eluate fraction.

11.6.2 Using the assumed pump rate and the dry mass equivalent of the sample, estimate the durations of column testing required to reach the target eluate collection L/S shown in Table 2 as follows:

$$T_i = \frac{M_{dry} - \sum L/S_i}{R_i}$$

Where: T_i = target time from start for collection of eluent fraction, i (day)
M_{dry} = dry-mass equivalent of sample in column (g-dry)
$\sum L/S$ = target cumulative L/S for interval i from Table 1 (mL/g-dry)
R_i = pump rate assumed for interval, i (mL/day)

Alternatively, use the Microsoft Excel® spreadsheet template available at http://www.vanderbilt.edu/leaching/downloads/test-methods/ to develop the schedule of target collection times.

NOTE: The schedule of predicted collection times is for reference purposes only. Typically, the eluate collection rate is slower that predicted initially, due in part to pump inefficiency, back pressure, and dead-volume lag times. The decision to switch collection bottles should be made based on the volume of eluate collected with time. The schedule may be revised with each eluate fraction collected, so that the prediction of future collections may be more accurate. Pump flow rate adjustment may be necessary.

11.6.3 After each eluate collection, calculate the time required to reach the next collection time using the equation in 11.6.2 and the pump rate calculated from the previous collection interval.

NOTE: If eluate volumes other than those calculated for the fraction volume (i.e., T01, T02, etc.) are collected (e.g., manual collection will have inherent errors in the collection volumes), the cumulative L/S may quickly become out of alignment with the tolerances shown in Table 2. If this happens or appears to be likely, adjustments to the collection volumes for the two large collection fractions (i.e., T06 and T08) can be made in order to bring the cumulative L/S for subsequent collection intervals back in line with tolerances. The objective is to maintain the cumulative L/S target values for fractions T07 and T09. The Excel® data template available with LeachXS Lite™ can be helpful in maintaining target L/S ratios if updated after each collection interval. However, throughout the test, the user should ensure that the minimum eluate volume required for the chosen chemical analyses is collected.

11.7 Column test procedure – Column/eluent equilibration

11.7.1 Turn on the pump and allow the column to fill with eluent, thus wetting the column packing.

11.7.2 When the column packing is completely wetted and the eluent level is even with the top of the column (or just beginning to be seen through the effluent tubing at the top of the column apparatus), stop the pump and allow the column to equilibrate for 21 ± 3 hours.

11.8 Column test

11.8.1 Following equilibration, begin the column test by starting the pump and recording the date and time.

NOTE: The eluate production rate should be monitored frequently during the column test and the pump rate adjusted, such that the eluate production rate is maintained at approximately 0.75 ± 0.25 L/S per day.

11.8.2 When the eluate fraction has reached the target volume according to the predicted collection schedule, release the Luer lock connecting the active collection bottle and attach the eluent tubing to a new collection bottle.

NOTE: Alkaline eluate solutions may be susceptible to neutralization due to carbon dioxide uptake. When materials with alkaline pH are tested, precautions (e.g., purging collection bottles with inert gas) should be taken to prevent contact of the eluate with air.

11.9 Eluate processing

11.9.1 Decant a minimum volume (approximately 5 mL) of the eluate fraction from the collection vessel in order to measure the solution characteristics.

11.9.2 Measure and record the pH, specific conductivity, and oxidation-reduction potential (ORP) of the eluate (see Methods 9040, 9045 and 9050).

NOTE: Measurement of pH, conductivity, and ORP should be taken within 15 minutes of eluate processing (Sec. 11.9.1) to avoid neutralization of the solution due to exposure to carbon dioxide, especially when alkaline materials are tested.

NOTE: The measurement of ORP is optional, but strongly recommended, especially when testing materials where oxidation is likely to change the LSP of COPCs.

11.9.3 Separate any suspended particulates from the remaining liquid in the collection bottle by pressure or vacuum filtration through a 0.45-µm filtration membrane (Sec. 6.8).

NOTE: If either low volatility organic species or mercury is a COPC, pressure filtration is recommended over vacuum filtration in order to minimize volatility losses.

11.9.4 Immediately preserve and store the volume(s) of eluate required for chemical analysis. Preserve all analytical samples in a manner that is consistent with the determinative chemical analyses to be performed.

11.10 Reiterate Secs. 11.8.2 - 11.9.4 until nine eluate fractions are collected up to an L/S of 10 ± 0.2 mL/g-dry.

NOTE: The complete method requires that all nine eluate fractions be collected from the column. However, for purposes of limiting chemical analysis or index testing where interpretation may be based on cumulative release from the column, eluate fractions may be composited by volume-weighted averaging to create a single analytical sample from multiple eluate fractions (see Sec 11.11).

11.11 Analytical sample preparation options

This method allows for options in the preparation of analytical samples based on the detail of characterization required (e.g., complete, limited or index) and the basis for data reporting (e.g., concentration or cumulative release). However, the complete set of nine eluate fractions must be collected in all cases.

11.11.1 Table 1 shows the analytical preparation scheme for Options A-E described in the following sections. Each composite sample may be created either by combining the total eluate volumes and preserving the total sample for analysis; or combining aliquots of two eluate fractions using volume-weighted averages. However, it is recommended that composite analytical samples be prepared using aliquots of eluate fractions whenever possible, rather than whole eluate fractions. This approach allows for potential analysis of discrete eluate fractions, if desired, at a later date.

11.11.1.1 Option A – This sample preparation option is used for complete characterization and includes analysis of all eluate fractions. Since the entire cumulative release curve is captured in nine discrete fractions, reported data may be based on either eluate concentrations or cumulative release.

11.11.1.2 Option B – This sample preparation option is used only for limited analyses based on eluate concentration. Six discrete eluate fractions are analyzed. Data obtained using this option cannot be used for cumulative release since there are sections of the cumulative release curve not analyzed.

11.11.1.3 Option C – This sample preparation option is used only for limited analysis based on cumulative release. Six analytical samples are created from three discrete eluate fractions and three composite samples. In the scheme shown in Table 1, the following fractions are composited:

- T04 and T05
- T06 and T07
- T08 and T09

11.11.1.4 Option D – This sample preparation option is used only for index testing based on eluate concentration. Three discrete eluate fractions are analyzed. Data obtained using this option cannot be used for cumulative release since there are sections of the cumulative release curve not analyzed.

11.11.1.5 Option E – This sample preparation option is used only for index testing based on cumulative release. Three analytical samples are created from one discrete eluate fraction and two composite samples. In the scheme shown in Table 1, the following fractions are composited:

- T02, T03, T04, and T05
- T06, T07, T08, and T09

11.11.2 Volume-weighted composites

11.11.2.1 The volume of aliquots of eluate fractions for composite analytical samples may be calculated using the Excel template provided or the following formula:

$$V_i = \frac{F_i}{\sum_i^n F_i} \times V_{sample}$$

Where: V_i = the volume of an aliquot from eluate fraction, i (mL)
F_i = the collected volume of eluate fraction, i (mL)
V_{sample} = the total volume of the analytical sample (mL)
n = total number of eluate fractions to be composited

As an illustration of volume-weighted averaging, eluate fraction aliquots are calculated as required to create an analytical sample by compositing eluate fractions T06 through T09 for index testing based on cumulative release. The calculation follows the example volumes shown in Table 2 and assumes that an analytical sample volume of 100 mL is required.

$$\sum_i^n F_i = F_{T06} + F_{T07} + F_{T08} + F_{T09} = 450\ mL + 150\ mL + 1350\ mL + 150\ mL = 2100\ mL$$

$$V_{T06} = \frac{F_{T06}}{\sum_i^n F_i} \times V_{sample} = \frac{450\ mL}{2100\ mL} \times 100\ mL = 21.5\ mL$$

$$V_{T07} = \frac{F_{T07}}{\sum_i^n F_i} \times V_{sample} = \frac{150\ mL}{2100\ mL} \times 100\ mL = 7.1\ mL$$

$$V_{T08} = \frac{F_{T08}}{\sum_i^n F_i} \times V_{sample} = \frac{1350\ mL}{2100\ mL} \times 100\ mL = 64.3\ mL$$

$$V_{T09} = \frac{F_{T09}}{\sum_i^n F_i} \times V_{sample} = \frac{150\ mL}{2100\ mL} \times 100\ mL = 7.1\ mL$$

$$V_{sample} = V_{T06} + V_{T07} + V_{T08} + V_{T09} = 21.5\ mL + 7.1\ mL + 64.3\ mL + 7.1\ mL = 100.0\ mL$$

NOTE: The above illustration uses example eluate fraction volumes based on interval L/S ratios and an assumed test material mass. When calculating the aliquots of collected eluate fractions for composite samples, the actual collected fraction volumes should be used.

12.0 DATA ANALYSIS AND CALCULATIONS (Excel® template[3])

12.1 Data reporting

12.1.1 Figure 3 shows an example of a data sheet that may be used to report the concentration results of this method. At a minimum, the basic test report should include the following:

a) Name of the laboratory
b) Laboratory technical contact information
c) Date and time at the start of the test
d) Name or code of the solid material
e) Particle size (85 wt% less than designated particle size)
f) Packed bed dimensions (column ID and bed depth (cm))
g) Mass of solid material in column packing
h) Moisture content of solid material packed in column (g_{H_2O}/g)
i) Eluate specific information (see Sec. 12.1.2 below)

12.1.2 The minimum set of data that should be reported for each eluate includes:

a) Eluate sample ID
b) Eluate collection date and time
c) Amount of eluate collected (mass or volume)
d) Measured eluate pH
e) Measured eluate conductivity (mS/cm)
f) Measured ORP (mV) (optional)
g) Concentration of all COPCs
h) Analytical QC qualifiers as appropriate

12.2 Data Interpretation (optional)

12.2.1 Concentration as a function of L/S

[3] Excel® data templates are provided to aid in collection and archiving of laboratory and analytical data. These templates form the basis for uploading method data into the data management program, LeachXS Lite™. Both the data templates and LeachXS Lite™ are available at http://vanderbilt.edu/leaching.

12.2.1.1 A curve of the eluate concentration as a function of L/S can be generated for each COPC after chemical analysis of all extracts by plotting the constituent concentration in the liquid phase as a function of the cumulative collected L/S ratio. The curve indicates the nominal equilibrium concentration of the constituent of interest as a function of L/S from 0 to 10 mL/g-dry at natural pH. An example curve is provided in Figure 4.

12.2.1.2 The lower limit of quantitation (LLOQ) of the determinative method for each COPC may be shown as a horizontal line. COPC concentrations below this line indicate negligible or non-quantitative concentrations.

NOTE: The LLOQ is highly matrix dependent and should be determined as part of a QA/QC plan.

12.3 Cumulative release as a function of L/S

12.3.1 The cumulative mass release of a COPC per unit solid material may be calculated as follows:

$$\Sigma M_i = \sum_{i=1}^{9} \left[C_i \times \left(\Sigma L/S_i - \Sigma L/S_{i-1} \right) \right]$$

Where: ΣM_i = the cumulative mass release through interval i (mg/kg-dry)

C_i = the concentration of the COPC in the eluent collected during interval i (mg/L)

$\Sigma L/S_i$ = the cumulative L/S of eluate collected through interval i (L/kg-dry)

$\Sigma L/S_{i-1}$ = the cumulative L/S of eluate collected through interval i-1 (L/kg-dry)

12.3.2 Prepare a curve of the cumulative mass release generated for each COPC by plotting the cumulative mass release calculated in Sec. 12.3.1 as a function of the cumulative collected L/S. This curve provides an interpretation of the cumulative mass expected to be leached from a column of material as a function of L/S percolating through the column.

12.3.3 A comparison of the slope of the mass release curve to a unity slope, which is indicative of solubility-controlled release, may be made by plotting the cumulative mass release calculated in Sec. 12.3.1 versus the logarithm of the cumulative collected L/S. An example is provided in Figure 5.

12.4 Interpolation/extrapolation to target L/S values

The collected L/S dependence data may be interpolated or extrapolated to the nearest target L/S value for purposes of comparing different data sets (e.g., test replicates of the same or different materials). The most transparent and straightforward method is linear interpolation/extrapolation of data after $\log_{10}$ transformation.

12.4.1 Log_{10} transformation

Collected concentration values are transformed by taking the $\log_{10}$ of the measured concentration at each test position, i:

$$C_i = \log_{10}(c_i)$$

Where: C_i = $\log_{10}$-transformed concentration at test position i ($\log_{10}$[mL/g-dry])
c_i = the concentration measured at test position i (mg/L)

12.4.2 Linear interpolation/extrapolation

Given a set of coordinate data { ($\Sigma L/S_i$,C_i) : i = 1,...n } sorted by increasing order according to $\Sigma L/S$ value (e.g., $\Sigma L/S_1 < \Sigma L/S_2 < \cdots < \Sigma L/S_n$), an interpolated/extrapolated $\log_{10}$-transformed concentration at a known L/S target is calculated as:

$$C_T = a_T + b_T \cdot \sum L/S_T$$

Where: C_T = the concentration at target $\Sigma L/S$ value, $\Sigma L/S_T$ ($\log_{10}$[mg/L])
a_T and b_T are coefficients of the linear interpolation/extrapolation equation
$\Sigma L/S_T$ = a target pH value

Depending on the values of observed L/S values relative to target L/S values, the calculations of the coefficients a_T and b_T in the equation may differ according to the following algorithm:

If $\Sigma L/S_T < \Sigma L/S_1$, then $b_T = (C_2 - C_1) / (\Sigma L/S_2 - \Sigma L/S_1)$ and $a_T = C_2 - b_T \cdot \Sigma L/S_2$ (extrapolation from the two points with closest L/S values);

If $\Sigma L/S_T \geq \Sigma L/S_n$, then $b_T = (C_n - C_{n-1}) / (\Sigma L/S_n - \Sigma L/S_{n-1})$ and $a_T = C_n - b_T \cdot \Sigma L/S_n$ (extrapolation from the two points with closest L/S values);

If $\Sigma L/S_{j-1} \leq \Sigma L/S_T < \Sigma L/S_j$, then $b_T = (C_j - C_{j-1}) / (\Sigma L/S_j - \Sigma L/S_{j-1})$and $a_T = y_j - b_T \cdot \Sigma L/S_j$ (interpolation from the two closest points surrounding $\Sigma L/S_T$).

NOTE: Interpolation or extrapolation of data should only be conducted within a distance of ±20% of the target L/S value. Since the allowable L/S tolerance about a target L/S value is variable (see Table 2), interpolation/extrapolation should not create data at a target L/S value where collected data is missing.

13.0 METHOD PERFORMANCE

13.1 Performance data and related information are provided in SW-846 methods only as examples and guidance. The data do not represent required performance criteria for users of the methods. Instead, performance criteria should be developed on a project-specific basis, and the laboratory should establish in-house QC performance criteria for the application of this method. Performance data must not be used as absolute QC acceptance criteria for purposes of laboratory QC or accreditation.

13.2 Interlaboratory validation of this method was conducted using a contaminated smelter site soil (material code CFS) and a brass foundry sand (material code JaFS). Repeatability and reproducibility were determined at an L/S of 10 mL/g-dry for eluate concentration (see Table 3) and for cumulative mass released (see Table 4). More details on the interlaboratory validation may be found in Ref. 1.

13.3 Ref. 2 and Ref. 4 may provide additional guidance and insight on the use, performance, and application of this method.

14.0 POLLUTION PREVENTION

14.1 Pollution prevention encompasses any technique that reduces or eliminates the quantity and/or toxicity of waste at the point of generation. Numerous opportunities for pollution prevention exist in laboratory operations. The EPA has established a preferred hierarchy of environmental management techniques that places pollution prevention as the management option of first choice. Whenever feasible, laboratory personnel should use pollution prevention techniques to address their waste generation. When wastes cannot be feasibly reduced at the source, the Agency recommends recycling as the next best option.

14.2 For information about pollution prevention that may be applicable to laboratories and research institutions consult *Less is Better: Laboratory Chemical Management for Waste Reduction*, a free publication available from the ACS, Committee on Chemical Safety, https://www.acs.org/content/dam/acsorg/about/governance/committees/chemicalsafety/publications/less-is-better.pdf.

15.0 WASTE MANAGEMENT

The EPA requires that laboratory waste management practices be conducted consistent with all applicable rules and regulations. Laboratories are urged to protect air, water, and land by minimizing and controlling all releases from hoods and bench operations, complying with the letter and spirit of any sewer discharge permits and regulations, and by complying with all solid and hazardous waste regulations, particularly the hazardous waste identification rules and land disposal restrictions. For further information on waste management, consult *The Waste Management Manual for Laboratory Personnel* available at: http://www.labsafetyinstitute.org/FreeDocs/WasteMgmt.pdf.

16.0 REFERENCES

1. A.C. Garrabrants, D.S. Kosson, R. DeLapp, P. Kariher, P.F.A.B. Seignette, H.A. van der Sloot, L. Stefanski, and M. Baldwin, "Interlaboratory Validation of the Leaching Environmental Assessment (LEAF) Method 1314 and Method 1315," EPA 600/R-12/624, *U.S. Environmental Protection Agency*, Washington, DC, 2012.

2. A.C. Garrabrants, D.S. Kosson, H.A. van der Sloot, F. Sanchez, and O. Hjelmar, "Background Information for the Leaching Environmental Assessment Framework (LEAF) Test Methods," EPA/600/R-10-170, *U.S. Environmental Protection Agency*, Washington, DC, 2010.

3. NEN 7343, "Leaching Characteristics of Solid Earth and Stony Materials - Leaching Tests - Determination of the leaching of Inorganic Constituents from Powdery and Granular Materials with the Percolation Test," *Dutch Standardization Institute*, Delft, The Netherlands, 1995.

4. D.S. Kosson, H.A. van der Sloot, F. Sanchez, and A.C. Garrabrants, "An Integrated Framework for Evaluating Leaching in Waste Management and Utilization of Secondary Materials," *Environmental Engineering Science,*, 19(3) 159-204, 2002.

5. CEN/TS 14405, "Characterization of Waste - Leaching Behaviour Tests - Up-flow Percolation Test (Under Specified Conditions)," *Comité Européen de Normalisation*, Brussels, Belgium, 2004, 2004.

17.0 TABLES, DIAGRAMS, FLOWCHARTS, AND VALIDATION DATA

The following pages contain the tables and figures referenced by this method.

TABLE 1

SCHEDULE OF FRACTION COLLECTIONS AND ANALYTICAL SAMPLES

Fraction Label	ΣLS (mL/g-dry)	Option A: Characterization – Conc.	Option A: Characterization – ΣRel	Option B: Limited Analysis – Conc.	Option C: Limited Analysis – ΣRel	Option D: Index Testing – Conc.	Option E: Index Testing – ΣRel
T01	0.2 ± 0.1	✓	✓	✓	✓	✓	✓
T02	0.5 ± 0.1	✓	✓	✓	✓	X	↓
T03	1.0 ± 0.1	✓	✓	✓	✓	X	↓
T04	1.5 ± 0.2	✓	✓	X	↓	X	↓
T05	2.0 ± 0.2	✓	✓	✓	T05c	✓	✓T05c
T06	4.5 ± 0.2	✓	✓	X	↓	X	↓
T07	5.0 ± 0.2	✓	✓	✓	✓T07c	X	↓
T08	9.5 ± 0.2	✓	✓	X	↓	X	↓
T09	10.0 ± 0.2	✓	✓	✓	✓T09c	✓	✓T09c

NOTE: ΣRel = Cumulative release

✓ = Collect eluate fraction (or pool of fractions) as analytical sample

↓ = Composite eluate fraction with next fraction to create analytical sample

X = No fraction to collect

TABLE 2

SCHEDULE OF ELUATE FRACTIONS FOR COLLECTION WITH EXAMPLE VOLUMES

Interval Label	End Point ΣL/S (mL/g-dry)	Fraction L/S (mL/g-dry)	Example Fraction Volume (mL)
T01	0.2 ± 0.1	0.2	60
T02	0.5 ± 0.1	0.3	90
T03	1.0 ± 0.1	0.5	150
T04	1.5 ± 0.2	0.5	150
T05	2.0 ± 0.2	0.5	150
T06	4.5 ± 0.3	2.5	750
T07	5.0 ± 0.2	0.5	150
T08	9.5 ± 0.3	4.5	1350
T09	10.0 ± 0.2	0.5	150
B01	Eluent	N/A	100

NOTE: Example fraction volumes based on assumed packing mass of 300 g-dry

TABLE 3

METHOD PRECISION FOR ELUATE CONCENTRATION AT L/S=10 mL/g-dry

Analyte	Symbol	Repeatability – CFS %RSD_r	Repeatability – JaFS %RSD_r	Reproducibility – CFS %RSD_R	Reproducibility – JaFS %RSD_R
Aluminum	Al	8.6	12.7	16.6	28.2
Barium	Ba	6.9	13.9	23.0	24.2
Boron	B	11.9	14.4	14.3	23.9
Cadmium	Cd	9.2	-	14.6	-
Calcium	Ca	6.9	5.6	12.7	52.5
Copper	Cu	8.1	13.3	15.2	31.8
Magnesium	Mg	-	7.7	-	53.3
Manganese	Mn	-	22.0	-	26.6
Molybdenum	Mo	25.2	27.5	28.4	54.4
Lead	Pb	7.3	12.4	14.8	23.5
Thallium	Tl	9.6	-	19.2	-
Zinc	Zn	8.6	23.0	16.0	58.5

Material	Repeatability – CFS %RSD_r	Repeatability – JaFS %RSD_r	Repeatability – Overall	Reproducibility – CFS %RSD_R	Reproducibility – JaFS %RSD_R	Reproducibility – Overall
Mean	10%	15%	13%	18%	38%	28%

Data taken from Ref. 1.

TABLE 4

METHOD PRECISION FOR CUMULATIVE RELEASE AT L/S=10 mL/g-dry

Analyte	Symbol	Repeatability – CFS %RSD_r	Repeatability – JaFS %RSD_r	Reproducibility – CFS %RSD_R	Reproducibility – JaFS %RSD_R
Aluminum	Al	4.6	7.2	14.3	13.1
Barium	Ba	3.4	6.2	23.0	10.9
Boron	B	2.9	4.4	11.1	6.3
Cadmium	Cd	2.2	-	8.5	-
Calcium	Ca	2.1	3.6	8.2	19.9
Copper	Cu	3.9	4.6	15.3	21.4
Magnesium	Mg	-	4.2	-	17.2
Manganese	Mn	-	7.0	-	14.9
Molybdenum	Mo	4.4	4.5	12.3	11.1
Lead	Pb	1.8	9.5	10.8	15.1
Thallium	Tl	2.9	-	10.2	-
Zinc	Zn	4.0	7.3	11.3	18.6

Material	Repeatability – CFS %RSD_r	Repeatability – JaFS %RSD_r	Repeatability – Overall	Reproducibility – CFS %RSD_R	Reproducibility – JaFS %RSD_R	Reproducibility – Overall
Mean	3%	6%	5%	13%	15%	14%

Data taken from Ref. 1.

FIGURE 1

METHOD FLOWCHART

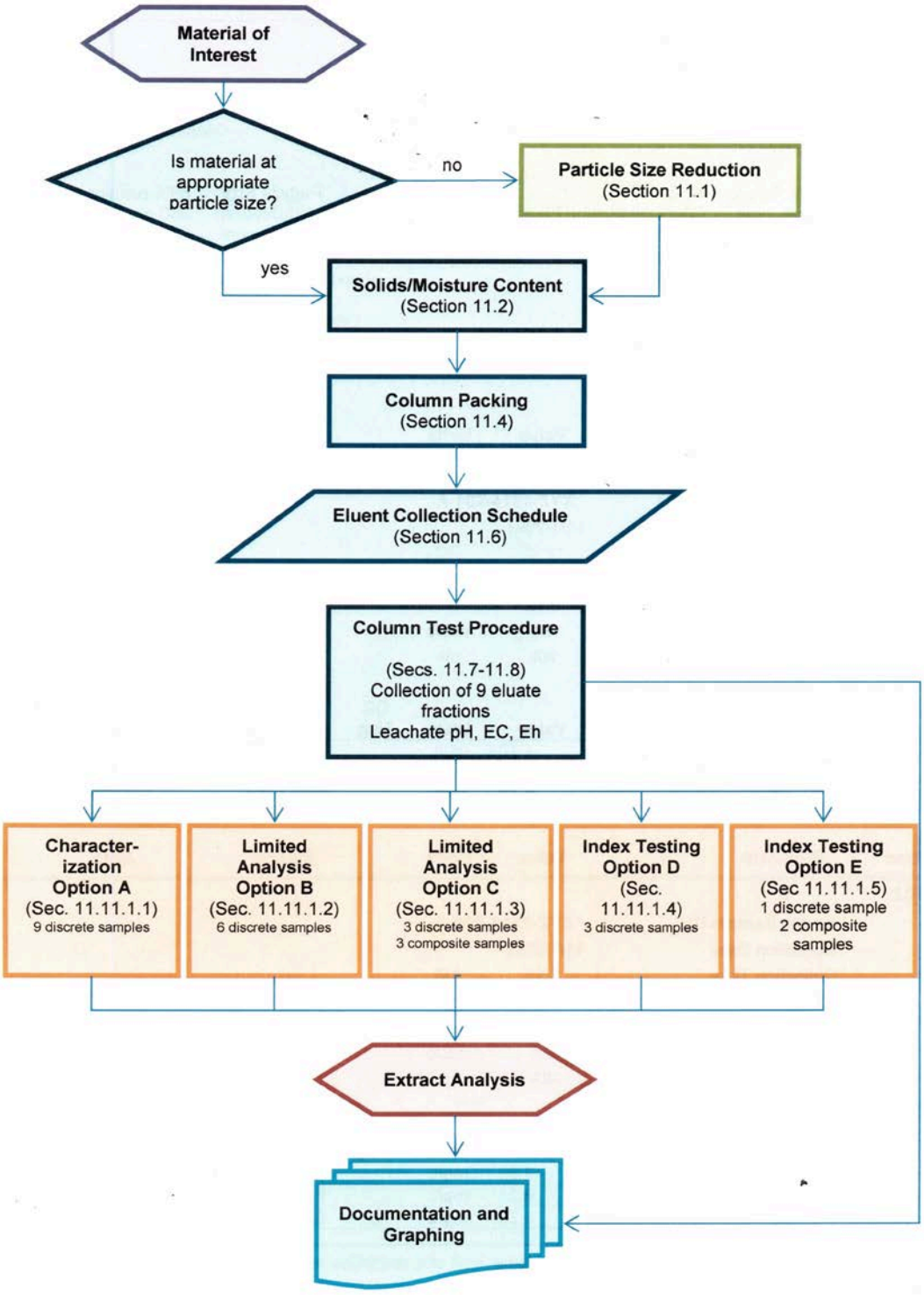
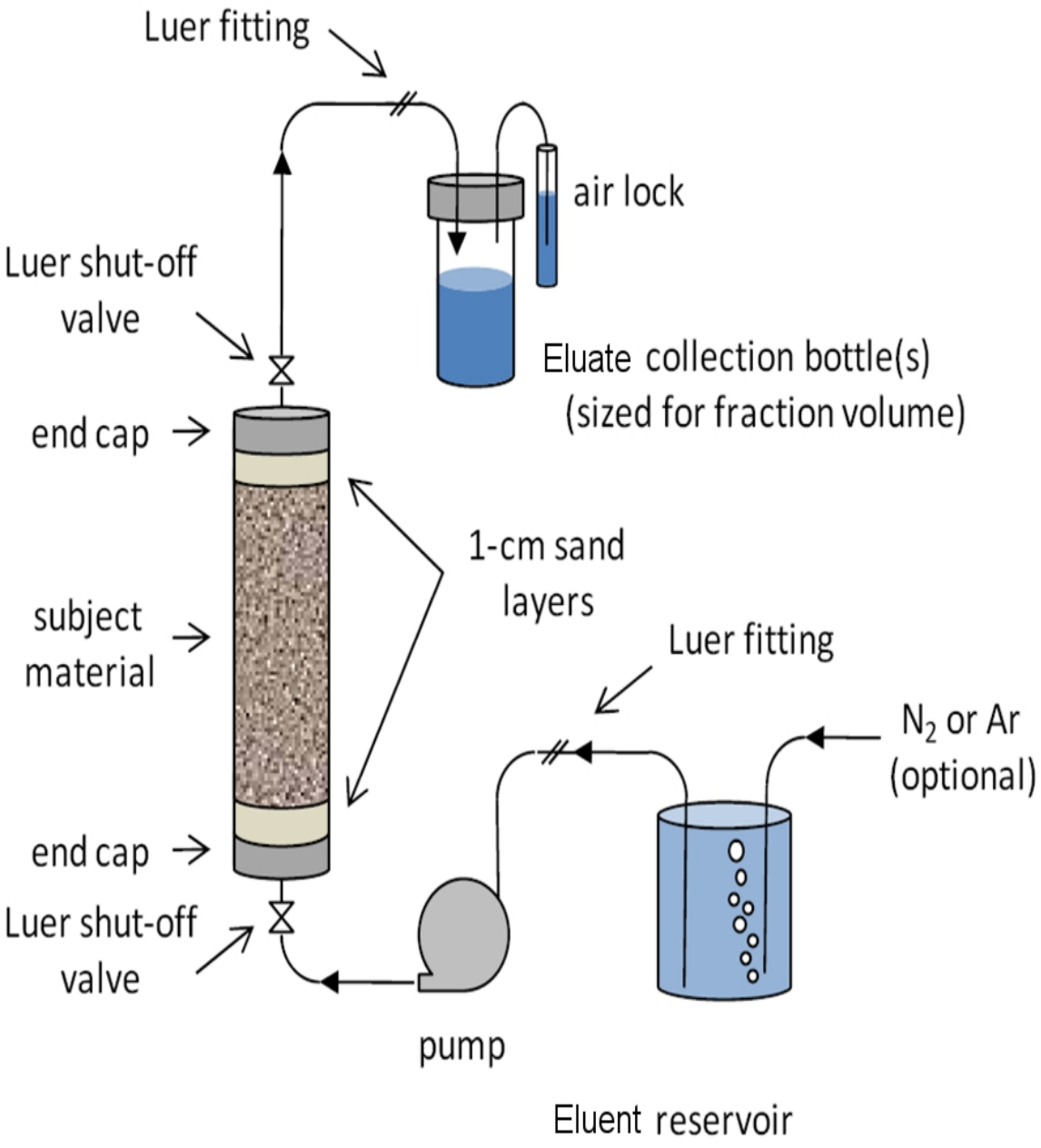


FIGURE 2

SCHEMATIC OF COLUMN TEST APPARATUS



NOTE: Figure not drawn to scale

FIGURE 3

EXAMPLE DATA REPORT FORMAT

EPA METHOD 1314
Report of Analysis

ABC Laboratories
123 Main Street
Anytown, USA
Contact: John Smith
(555) 111-1111

Client Contact: Susan Jones
(555) 222-2222

Material Code:	XYZ	Particle Size:	88% passing 2-mm sieve
Material Type:	Coal Combustion Fly Ash	Mass used in Column:	360 g
Date Received:	10/1/20xx	Moisture Content:	0.002 g_{H_2O}/g
Test Date:	11/1/20xx	Column ID:	4.8 cm
Report Date:	12/1/20xx	Packing Bed Depth:	28 cm
		Eluent:	ASTM Type II Water
		Lab Temperature:	21 ± 2 °C

Test Position	Replicate	Value	Units	Method	Note
T01	A				
	Eluate Sample ID	**XYZ-1314-T01-A**			
	Collection Date	11/1/20xx			
	Collection Time	12:35	PM		
	Eluate Mass	70.4	g		
	Eluate pH	8.82	-	EPA 9040	
	Eluate Conductivity	5.4	mS/c	EPA 9050	
	Eluate ORP	NA	mv		

Chemical Analysis	Value	Units	QC Flag	Method	Date	Dilution Factor
Al	4.72	mg/L		EPA 6020	11/7/20xx	1000
As	0.12	mg/L		EPA 6020	11/7/20xx	10
Cl	5.42	mg/L		EPA 9056	11/9/20xx	1

Test Position	Replicate	Value	Units	Method	Note
T02	A				
	Eluate Sample ID	**XYZ-1314-T02-A**			
	Collection Date	11/1/20xx			
	Collection Time	9:15	AM		
	Eluate Mass	105.1	g		
	Eluate pH	9.15	-		
	Eluate Conductivity	2.3	mS/c		
	Eluate ORP	NA	mv		

Chemical Analysis	Value	Units	QC Flag	Method	Date	Dilution Factor
Al	2.99	mg/L		EPA 6020	11/7/20xx	1000
As	0.21	mg/L		EPA 6020	11/7/20xx	10
Cl	4.20	mg/L	U	EPA 9056	11/7/20xx	1

QC Flag Key: U Value below lower limit of quantitation as reported (< "LLOQ")

FIGURE 4

EXAMPLE ELUATE CONCENTRATION CURVES FOR COMPLETE CHARACTERIZATION OF A COAL COMBUSTION FLY ASH

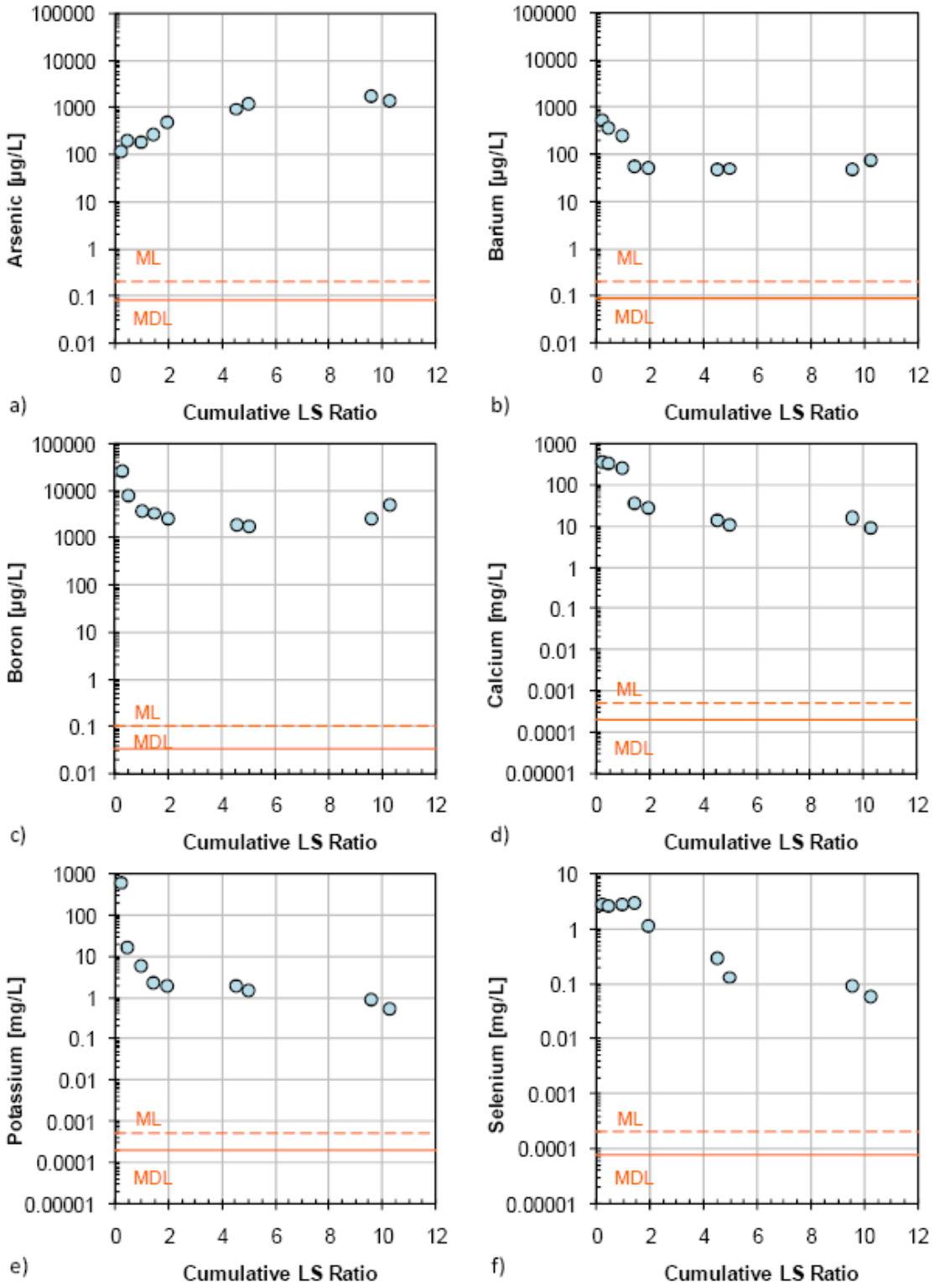
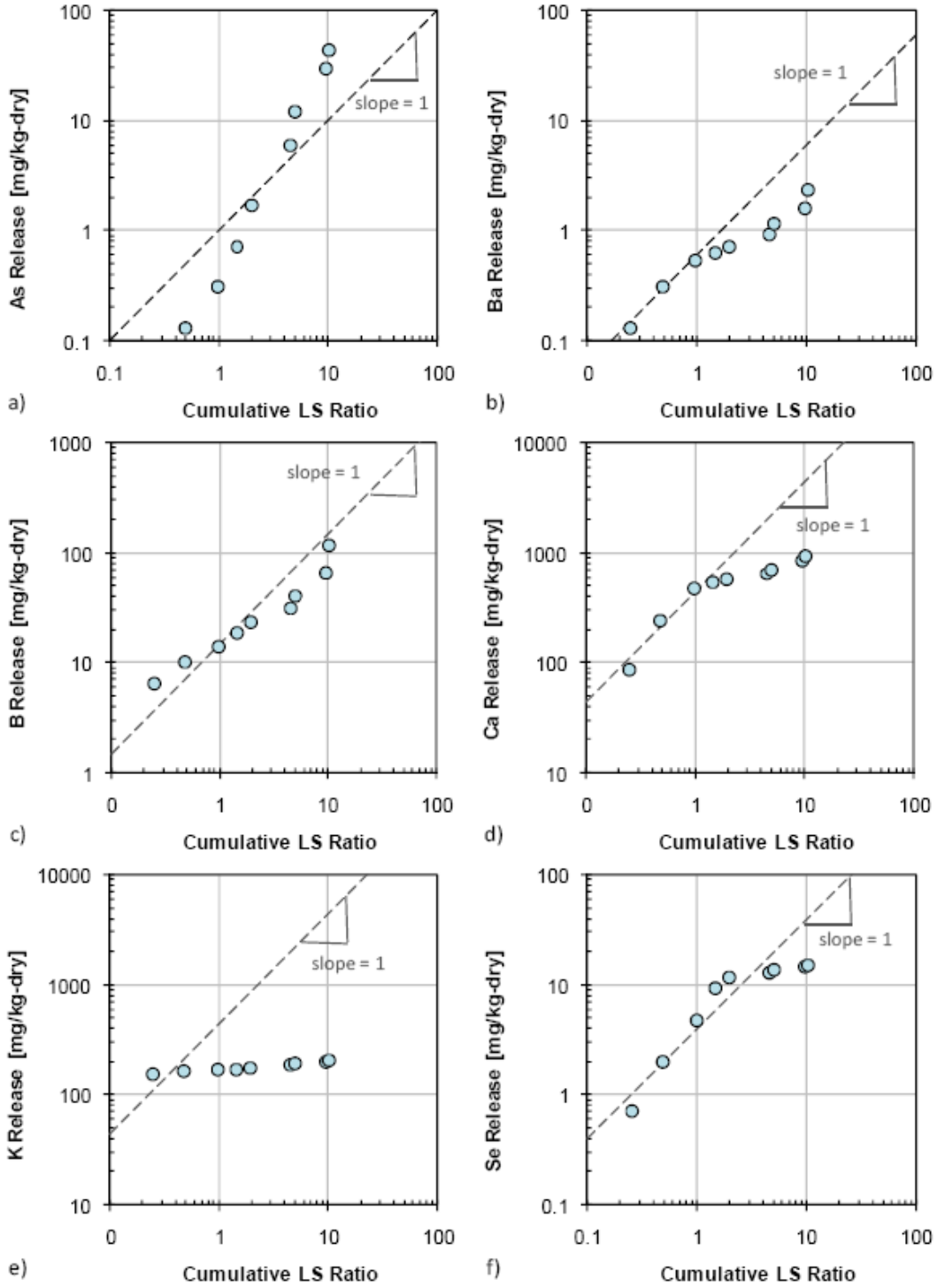


FIGURE 5

EXAMPLE CUMULATIVE RELEASE CURVES FOR COMPLETE CHARACTERIZATION OF A COAL COMBUSTION FLY ASH



NOTE: Dashed line represents solubility control (slope = 1).

Appendix B – Ammonia Groundwater Sampling Purge Data

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-01A			Depth to Water (ft BTOC): 6.73			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/22/2024			Total Depth (ft BTOC): 9.35			
Purge Details						
Time Start: 10:00			Comments/Notes: Well was dry after bailing 0.4 gallons. Did not recharge water after a couple of days.			
Time Ended: 10:05						
Total Purge Volume: 0.4 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	6.86	16.9	27.22	921	-66.3	4.47
0.40	6.99	16.6	57.87	921	-73.9	6.1
Sample Details						
Sample Date: -			Analysis: Not enough groundwater volume for sample.			
Sample Time: -						
Sampled By: -						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-01B			Depth to Water (ft BTOC): 7.8			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/22/2024			Total Depth (ft BTOC): 24.12			
Purge Details						
Time Start: 10.07			Comments/Notes: Well was dry after bailing 7.5 gallons. Medium recharge rate.			
Time Ended: 10:25						
Total Purge Volume: 7.5 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	7.53	16.3	2.44	1323	-59.5	4.19
3.0	7.54	14.6	449.41	1326	-19.3	5.52
6.0	7.54	13.9	532.22	1318	9.1	5.75
7.5	7.7	13.8	95.26	1321	12.1	8.32
Sample Details						
Sample Date: 10/22/2024			Analysis: Ammonia 350.1			
Sample Time: 1:18			"MW-BCP-01B-10222024"			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-04A			Depth to Water (ft BTOC): 6.89			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/22/2024			Total Depth (ft BTOC): 8.58			
Purge Details						
Time Start: 10:30			Comments/Notes: Well dry after bailing 0.25 gallons. Slow-medium recharge. Wait until end of day to recharge to allow for enough sample volume.			
Time Ended: 10:39						
Total Purge Volume: 0.25 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	7.27	17.9	103.71	1028	47.5	4.02
Sample Details						
Sample Date: 10/22/2024			Analysis: "MW-BCP-04A-10222024"			
Sample Time: 1:32			Sampled for Ammonia, Mercury, Cyanide, SVOCs, and VOCs			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-04B			Depth to Water (ft BTOC): 7.38			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/22/2024			Total Depth (ft BTOC): 29.2			
Purge Details						
Time Start: 10:47			Comments/Notes: Well dry after bailing 9.00 gallons. It had a medium recharge and was sampled at the end of the day.			
Time Ended: 11:00						
Total Purge Volume: 9.00 Galons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	7.15	18.00	6.85	1056	38.70	4.23
5.75	7.19	14.80	152.59	1101	46.10	5.18
7.50	7.14	14.90	166.30	1067	52.60	5.86
9.00	7.22	14.40	41.48	1071	53.00	7.08
Sample Details						
Sample Date: 10/22/2024			Analysis: "MW-BCP-04B-10222024" Ammonia 350.1			
Sample Time: 1:40						
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-05A			Depth to Water (ft BTOC): 5.02			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/22/2024			Total Depth (ft BTOC): 8.98			
Purge Details						
Time Start: 11:30			Comments/Notes: Fast recharge. Petroleum-like odor.			
Time Ended: 11:45						
Total Purge Volume: 2.5 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	9.19	17.80	20.81	1997	301.70	3.34
0.75	8.78	17.50	59.62	1742	291.60	2.36
1.50	8.44	17.50	93.42	1793	-275.30	2.39
2.50	8.84	17.70	63.90	1790	-271.90	3.51
Sample Details						
Sample Date: 10/22/2024			Analysis: "MW-BCP-05A-10222024"			
Sample Time: 12:05			Sampled for Ammonia, Mercury, Cyanide, SVOCs, and VOCs			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-05C			Depth to Water (ft BTOC): 19.9			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/22/2024			Total Depth (ft BTOC): 44.65			
Purge Details						
Time Start: 1:57			Comments/Notes: Well dry at 7.75 gallons bailed. Medium recharge and was sampled at the end of the day.			
Time Ended: 2:20						
Total Purge Volume: 7.75 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	7.48	15.10	5.68	1577	-179.60	3.52
4.25	7.43	14.50	278.25	1531	-176.20	4.28
7.75	7.64	15.90	280.48	1584	-147.60	5.18
Sample Details						
Sample Date: 10/22/2024			Analysis: "MW-BCP-05C-10222024"			
Sample Time: 2:25			Sampled for Ammonia only.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: Battery Sump			Depth to Water (ft BTOC): 4.58			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/23/2024			Total Depth (ft BTOC): 15.00			
Purge Details						
Time Start: 8:56			Comments/Notes: A godwin pump was used to purge this 14" diameter sump well over 3 volumes.			
Time Ended: 9:30						
Total Purge Volume: 8,400 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0	7.29	17.5	5.43	5777	73.1	2.47
4,200	7.34	17.4	3.25	4912	80.7	3.89
5,700	7.32	17.4	2.68	4707	44.0	2.44
8,700	7.33	17.4	4.47	4375	42.4	2.79
Sample Details						
Sample Date: 10/23/2024			Analysis: "BATTERYSUMP-10232024" Tested for Ammonia only.			
Sample Time: 9:40						
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-06A			Depth to Water (ft BTOC): 4.73			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/22/2024			Total Depth (ft BTOC): 8.15			
Purge Details						
Time Start: 3:08			Comments/Notes: Well was dry at 1 gallon. Medium to slow recharge rate and was sampled the following morning.			
Time Ended: 3:17						
Total Purge Volume: 2 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	8	16.9	17.23	507	109.6	4.90
0.75	8.29	16.5	124.02	515	-168.9	8.34
Sample Details						
Sample Date: 10/23/2024			Analysis: "MW-BCP-10232024"			
Sample Time: 10:15			Sampled for Ammonia, Mercury, Cyanide, SVOCs, and VOCs			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-06C			Depth to Water (ft BTOC): 20.42			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/22/2024			Total Depth (ft BTOC): 44.35			
Purge Details						
Time Start: 3.22			Comments/Notes: The well was dry at 6.5 gallons. It had a slow recharge rate and was sampled the following morning.			
Time Ended: 3.42						
Total Purge Volume: 6.5 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	11.68	14.4	48.14	796	-133.1	8.36
4.0	9.57	12.8	155.15	826	-50.1	6.91
6.5	8.8	13.1	2063.00	925	-57.3	9.82
Sample Details						
Sample Date: 10/23/2024			Analysis: "MW-BCP-06C-10232024"			
Sample Time: 10:20			Sampled for Ammonia only.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-08A			Depth to Water (ft BTOC): 6.63			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/23/2024			Total Depth (ft BTOC): 10.6			
Purge Details						
Time Start: 10:40			Comments/Notes: Well had a fast recharge.			
Time Ended: 10:47						
Total Purge Volume: 3 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	6.95	17.6	448.19	1387	-147.8	3.71
0.75	6.95	17.2	652.55	1271	-134.2	4.99
1.50	9.98	17.0	317.89	1250	-136.4	3.35
3.00	7.04	16.9	94.83	1263	-161.4	4.49
Sample Details						
Sample Date: 10/23/2024			Analysis: "MW-BCP-08A-10232024"			
Sample Time: 10:50			Sampled for Ammonia only.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-08B			Depth to Water (ft BTOC): 8.12			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/23/2024			Total Depth (ft BTOC): 29.07			
Purge Details						
Time Start: 10:55			Comments/Notes: For the first two well volumes, the water was black. This color changed into a reddish/clear color. The well was dry at 5 gallons purged, sampled after it recharged.			
Time Ended: 11:00						
Total Purge Volume: 5 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	7.59	16.5	38.98	719	-81.8	5.27
2.25	7.25	14.6	730.23	1513	-29.5	4.17
4.50	7.20	13.6	1301.93	1470	-3.9	5.39
5.00	7.31	13.6	1693.91	1422	-6.3	7.38
Sample Details						
Sample Date: 10/23/2024			Analysis: "MW-BCP-08B-10232024"			
Sample Time: 11:05			Sampled for Ammonia only.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-09A			Depth to Water (ft BTOC): 6.52			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/24/2024			Total Depth (ft BTOC): 8.10			
Purge Details						
Time Start: 1:20			Comments/Notes: Well was dry at 0.25 gallons bailed. It had a slow recharge and was collected the next afternoon.			
Time Ended: 1:25						
Total Purge Volume: 0.25						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0	7.08	16.3	72.35	2515	161.2	5.46
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-09A-10252024"			
Sample Time: 16:30			Sampled for Ammonia, Mercury, Cyanide, SVOCs, and VOCs			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-09B			Depth to Water (ft BTOC): 7.26			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/24/2024			Total Depth (ft BTOC): 24.00			
Purge Details						
Time Start: 1:30			Comments/Notes: Well was dry at 6.25 gallons. Fast to medium recharge			
Time Ended: 2:20						
Total Purge Volume: 6.25 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	7.99	16.7	13.92	1109	110.8	7.15
3.0	7.41	15.9	256.43	1177	70.9	6.10
6.0	7.50	14.4	124.09	1100	67.1	5.25
Sample Details						
Sample Date: 10/24/2024			Analysis: "MW-BCP-09A-10241024"			
Sample Time: 14:25			Sampled for Ammonia only.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-10A			Depth to Water (ft BTOC): 5.05			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/24/2024			Total Depth (ft BTOC): 8.65			
Purge Details						
Time Start: 9:30			Comments/Notes: The well contained an amount of black tar-like material at the bottom. Water quality reading was not taken.			
Time Ended: 10:00						
Total Purge Volume: About 2 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
-	-	-	-	-	-	-
Sample Details						
Sample Date: 10/24/2024			Analysis: "MW-BCP-10A-10242024"			
Sample Time: 10:40			Sampled for Ammonia, Mercury, Cyanide, SVOCs, and VOCs			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-10C			Depth to Water (ft BTOC): 18.85			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/24/2024			Total Depth (ft BTOC): 43.10			
Purge Details						
Time Start: 10:00			Comments/Notes: Well was dry after bailing 5.6 gallons. It had a fast recharge.			
Time Ended: 10:40						
Total Purge Volume: 5.6 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	9.22	13.4	13.74	994	-5.6	3.88
4.00	7.28	12.4	100.25	1192	-18	6.58
5.60	7.32	12.1	133.84	551	-56.9	5.38
Sample Details						
Sample Date: 10/24/2024			Analysis: "MW-BCP-10A-10242024"			
Sample Time: 10:55			Sampled for Ammonia only.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-11A			Depth to Water (ft BTOC): 6.52			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/24/2024			Total Depth (ft BTOC): 8.10			
Purge Details						
Time Start: 11:13			Comments/Notes: Well had a medium recharge.			
Time Ended: 11:20						
Total Purge Volume: 1 gallon						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	7.14	17.1	275.20	934	-129.6	4.56
0.33	7.13	17.4	252.75	944	-137.0	3.10
0.66	7.16	17.5	282.20	936	-147.1	2.94
1.00	7.17	16.9	286.21	940	-151.9	2.86
Sample Details						
Sample Date: 10/23/2024			Analysis: "MW-BCP-11A-10242024"			
Sample Time: 11:35			Sampled for Ammonia, Mercury, Cyanide, SVOCs, and VOCs			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-11B			Depth to Water (ft BTOC): 7.76			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/24/2024			Total Depth (ft BTOC): 24.00			
Purge Details						
Time Start: 12:30			Comments/Notes: Well was dry after bailing 7 gallons out. It had a medium recharge rate.			
Time Ended: 12:50						
Total Purge Volume: 7 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	7.93	16.9	5.66	1826	-201.3	4.12
3.00	7.06	15.3	450.26	2437	-53.3	3.79
6.00	7.16	14.6	715.10	2296	-69.3	4.55
Sample Details						
Sample Date: 10/24/2024			Analysis: "MW-BCP-11B-10252024"			
Sample Time: 1:00			Sampled for Ammonia only.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-12A			Depth to Water (ft BTOC): 6.82			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/24/2024			Total Depth (ft BTOC): 8.72			
Purge Details						
Time Start: 2:40			Comments/Notes: Well was dry after bailing 0.5 gallons. It had a medium-slow recharge rate.			
Time Ended: 2:45						
Total Purge Volume: 0.5 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0	7.23	15.9	395.1	1706	-153.3	4.4
Sample Details						
Sample Date: 10/24/2024			Analysis: "MW-BCP-12A-10242024"			
Sample Time: 3:15			Sampled for Ammonia, Mercury, Cyanide, SVOCs, and VOCs			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-12B			Depth to Water (ft BTOC): 7.19			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/24/2024			Total Depth (ft BTOC): 29.37			
Purge Details						
Time Start: 2:45			Comments/Notes: The well was dry after bailing 8 gallons. It had a medium recharge rate.			
Time Ended: 3:05						
Total Purge Volume: 8 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	7.72	17.1	11.85	990	-89.2	5.40
4.0	7.41	16.9	189.62	1009	-66.4	4.25
8.0	7.38	14.3	22.71	1005	-50.0	3.76
Sample Details						
Sample Date: 10/24/2024			Analysis: "MW-BCP-12B-10242024"			
Sample Time: 15:10			Sampled for Ammonia only.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-13A			Depth to Water (ft BTOC): 6.65			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 10.53			
Purge Details						
Time Start: 8:35			Comments/Notes: The well was dry after bailing 1.66 gallons. The well had a medium recharge rate.			
Time Ended: 8:45						
Total Purge Volume: 1.66 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	6.35	15.5	4.08	926	134.6	3.62
1.00	6.25	15.9	33.8	1357	-120.8	3.01
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-13A-10252024"			
Sample Time: 8:50			Sampled for Ammonia, Mercury, Cyanide, SVOCs, and VOCs			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-13B			Depth to Water (ft BTOC): 8.85			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 33.21			
Purge Details						
Time Start: 8:50			Comments/Notes: The well was dry after bailing 6.33 gallons.			
Time Ended: 9:05			Meadium to fast recharge.			
Total Purge Volume: 6.33						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	7.28	14.5	28.43	1278	-162.9	2.13
4.33	7.21	12.6	648.13	1348	-157.5	2.76
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-13B-10252024"			
Sample Time: 9:10			Sampled for Ammonia, Cyanide, Mercury, SVOCs, and VOCs			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-17A			Depth to Water (ft BTOC): 6.82			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/23/2024			Total Depth (ft BTOC): 9.18			
Purge Details						
Time Start: 11:35			Comments/Notes: The well was dry after bailing 0.3 gallons out. Very slow recharge rate. Not able to get the full sample suite for this well due to limited volume.			
Time Ended: 11:42						
Total Purge Volume: 0.3 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0	7.36	15.6	11.46	1303	-140.4	6.65
Sample Details						
Sample Date: 10/23/2024			Analysis: MW-BCP-17A-10242024			
Sample Time: 8:35			Sampled for Ammonia only.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-17B			Depth to Water (ft BTOC): 10.33			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/23/2024			Total Depth (ft BTOC): 24.15			
Purge Details						
Time Start: 11:55			Comments/Notes: The well was dry after bailing 6 gallons. It had a slow recharge and was sampled the following morning.			
Time Ended: 12:16						
Total Purge Volume: 6 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	7.40	13.9	20.00	1149	25.4	3.80
2.5	7.39	14.9	159.93	1148	57.6	3.66
5.0	7.36	13.7	193.35	1159	-29.4	3.39
6.0	7.45	13.4	83.07	1156	-148	5.90
Sample Details						
Sample Date: 10/24/2024			Analysis: "MW-BCP-17B-10242024"			
Sample Time: 8:40			Sampled for Ammonia and Cyanide.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-19A			Depth to Water (ft BTOC): 6.21			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 10.26			
Purge Details						
Time Start: 9:25			Comments/Notes: The well was dry after bailing 1.25 gallons. It had a medium recharge rate.			
Time Ended: 9:25						
Total Purge Volume: 1.25 gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	5.96	15.4	6.85	3401	-90.2	3.07
1.0	6.07	15.9	43.16	3519	-100.1	3.77
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-19A-10252024"			
Sample Time: 9:40			Sampled for Ammonia, Mercury, SVOCs and VOCs.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-19B			Depth to Water (ft BTOC): 7.36			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 23.74			
Purge Details						
Time Start: 9:40			Comments/Notes: The well was dry after 8.5 gallons were bailed. It had a fast-medium recharge.			
Time Ended: 9:50						
Total Purge Volume: 8.5 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	6.80	18.1	6.79	2593	-70.7	2.68
3.0	6.82	15.9	523.23	2619	-76.5	3.64
6.0	6.92	14.8	1326.60	2581	-108.8	4.9
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-19B-10252024"			
Sample Time: 9:55			Sampled for Ammonia, Mercury, SVOCs, and VOCs.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-20A			Depth to Water (ft BTOC): 5.6			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 9.18			
Purge Details						
Time Start: 10:05			Comments/Notes: The well was dry after bailing 0.66 gallons of water. Fast recharge rate.			
Time Ended: 10:15						
Total Purge Volume: 0.66						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	6.80	14.2	76.36	1256	-168.8	2.33
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-20A-10252024"			
Sample Time: 10:20			Sampled for Ammonia only.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-20B			Depth to Water (ft BTOC): 7.32			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 24.11			
Purge Details						
Time Start: 10:15			Comments/Notes: Three well volumes were able to be purged before sampling.			
Time Ended: 10:30						
Total Purge Volume: 9 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	7.24	13.0	10.52	1328	-106	3.67
3.0	7.23	12.5	156.21	1321	79.2	3.22
6.0	7.32	12.1	144.38	653	-74.9	5.19
9.0	7.36	12.0	123.67	1286	-70.5	6.98
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-20A-10252024"			
Sample Time: 10:35			Sampled for Ammonia only.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-21A			Depth to Water (ft BTOC): 4.71			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 8.66			
Purge Details						
Time Start: 10:50			Comments/Notes: Well was dry after bailing 1 gallon. Fast-medium recharge rate.			
Time Ended: 10:55						
Total Purge Volume: 1 Gallon						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	7.75	15.2	4.5	979	-53.9	4.05
1.0	7.64	14.9	50.71	1035	-148.3	8.62
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-21A-10252024"			
Sample Time: 11:00			Sampled for Ammonia, Mercury, Cyanide, SVOCs, and VOCs			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-21C			Depth to Water (ft BTOC): 21.18			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 43.07			
Purge Details						
Time Start: 11:00			Comments/Notes: Three well volumes were able to be purged before sampling.			
Time Ended: 11:15						
Total Purge Volume: 12 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	7.50	11.9	52.60	1138	-169.9	2.61
4.0	8.27	11.4	50.37	797	-181.0	6.34
8.0	7.37	11.3	56.30	1065	-102.5	4.02
12.0	7.38	10.9	81.84	1125	-105.5	3.76
Sample Details						
Sample Date: 10:25			Analysis: "MW-BCP-21C-10252024"			
Sample Time: 11:20			Sampled for Ammonia only			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-22A			Depth to Water (ft BTOC): 5.77			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 8.81			
Purge Details						
Time Start: 11:20			Comments/Notes:			
Time Ended: 11:30						
Total Purge Volume: 3.5 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	6.46	15.4	18.00	907	-12.0	4.52
0.75	6.25	15.4	75.61	849	7.3	3.89
3.00	6.29	15.6	40.05	848	7.8	4.07
3.50	6.29	15.3	61.27	850	9.8	3.7
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-22A-10252024"			
Sample Time: 11:35			Sampled for Ammonia, Mercury, and Cyanide.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-23A			Depth to Water (ft BTOC): 5.31			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 8.66			
Purge Details						
Time Start: 11:35			Comments/Notes: The well went dry after 1.33 gallons were bailed out. Medium recharge rate.			
Time Ended: 11:40						
Total Purge Volume: 1.33						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	6.36	14.9	119.60	957	-73.5	4.95
0.66	6.34	15.1	73.37	900	-95.2	4.05
1.33	6.51	15.0	17.38	945	-91.0	5.57
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-23A-10252024"			
Sample Time: 11:45			Sampled for Ammonia, Mercury, and Cyanide.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-24A			Depth to Water (ft BTOC): 6.58			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 12.66			
Purge Details						
Time Start: 10:05			Comments/Notes: The well went dry after 2.66 gallons were bailed out. Medium recharge rate.			
Time Ended: 10:15						
Total Purge Volume: 2.66 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	6.79	16.0	279.26	540	-135.7	3.05
1.33	6.83	15.7	794.28	593	-141.4	4.14
2.66	6.83	15.6	792.77	602	-135.6	3.39
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-24A-10252024"			
Sample Time: 1:20			Sampled for Ammonia, Mercury, Cyanide, SVOCs, and VOCs			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-24B			Depth to Water (ft BTOC): 6.51			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 28.16			
Purge Details						
Time Start: 1:20			Comments/Notes: Well was dry after bailing 8 gallons out. Medium recharge rate.			
Time Ended: 1:30						
Total Purge Volume: 8 gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.0	6.96	12.7	13.87	1660	-82.4	2.07
4.0	7.07	12.8	722.83	1652	-39.3	5.10
8.0	7.38	11.9	1765.63	1595	38.9	7.22
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-24B-10252024"			
Sample Time: 1:35			Sampled for Ammonia, Mercury, and Cyanide.			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-25A			Depth to Water (ft BTOC): 6.19			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 8.00			
Purge Details						
Time Start: 1:50			Comments/Notes: Three well volumes were able to be purged from this well.			
Time Ended: 2:00						
Total Purge Volume: 1 Gallon						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	7.28	14.9	20.97	1091	-120.4	4.75
0.33	7.40	14.9	159.5	1052	-164.9	5.6
0.66	7.46	14.8	128.92	1056	-181.9	3.98
1.00	7.48	14.6	29.08	1058	-176.9	5.32
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-25A-10252024"			
Sample Time: 2:05			Sampled for Ammonia, Mercury, Cyanide, SVOCs, and VOCs			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-25B			Depth to Water (ft BTOC): 7.9			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 27.97			
Purge Details						
Time Start: -			Comments/Notes: Three well volumes were able to be purged from this well.			
Time Ended: -						
Total Purge Volume: 10.66 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	7.57	14.1	129.55	1902	-140.5	4.81
3.66	7.40	12.8	907.54	1972	-98	4.94
7.33	7.37	12.1	1089.87	1891	-61	4.98
10.66	7.32	12.0	1130.01	1784	-55	5.24
Sample Details						
Sample Date: 10/25/2024			Analysis: "MW-BCP-25A-10252024"			
Sample Time: 14:15			Sampled for Ammonia, Mercury, and Cyanide			
Sampled By: Austin Oare						

GROUNDWATER MONITORING WELL PURGE FORM						
Site: RITC						
Well ID: MW-BCP-27A			Depth to Water (ft BTOC): 6.32			
Inventum Sampler: Austin Oare			Depth to Product (ft BTOC): -			
Date: 10/25/2024			Total Depth (ft BTOC): 9.72			
Purge Details						
Time Start: -			Comments/Notes: Three well volumes were able to be purged from this well. The water contained a blue tint.			
Time Ended: -						
Total Purge Volume: 2 Gallons						
Volume	pH	Temperature	Turbidity	Conductivity	ORP	DO
0.00	6.75	14.8	105.3	375	-130.1	5.8
0.66	6.55	14.8	100.0	734	-115.0	6.3
1.33	6.40	14.9	95.0	745	-105.0	2.2
2.00	6.40	14.8	87.0	845	-108.0	2.5
Sample Details						
Sample Date: 10/25/2024			Analysis: MW-BCP-27A-10252024			
Sample Time: 14:30			Sampled for Ammonia, Mercury, and Cyanide			
Sampled By: Austin Oare						

Appendix C – Pre-Characterization Groundwater Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Austin Oare
Inventum Engineering LLC
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Suite C
Herndon, Virginia 20170

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JOB DESCRIPTION

Ammonia SCO

JOB NUMBER

480-224726-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

Job Notes

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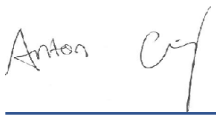
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery 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.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job Narrative
480-224726-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/23/2024 1:38 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 time was 3.8°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-729816 recovered outside acceptance criteria, low biased, for Chloroform. 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 laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-729816 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane and Bromoform. 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 sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: MW-BCP-05A-10222024 (480-224726-4), (480-224726-F-4 MS) and (480-224726-F-4 MSD).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-BCP-05A-10222024 (480-224726-4), (480-224726-F-4 MS) and (480-224726-F-4 MSD). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-BCP-05A-10222024 (480-224726-4). The reporting limits (RLs) have been adjusted proportionately.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: MW-BCP-04A-10222024 (480-224726-2) and MW-BCP-05A-10222024 (480-224726-4). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-729894 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. 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 8270D: The continuing calibration verification (CCV) associated with batch 480-729894 recovered above the upper control limit for bis (2-chloroisopropyl) ether, 2-Nitroaniline, 4-Nitrophenol, Bis(2-ethylhexyl) phthalate and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-BCP-04A-10222024 (480-224726-2), MW-BCP-05A-10222024 (480-224726-4) and MW-BCP-06A-10232024 (480-224726-7).

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Atrazine. The laboratory control sample (LCS) associated with preparation batch 480-729657 and analytical batch 480-730061 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

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

Job ID: 480-224726-1 (Continued) Eurofins Buffalo

Metals
Method 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples(s): MW-BCP-05A-10222024 (480-224726-4). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample(s) was prepared and analyzed at a 30x dilution, which maintained the purple color during digestion.

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

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

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Client Sample ID: MW-BCP-01B-10222024 — Lab Sample ID: 480-224726-1

No Detections.

Client Sample ID: MW-BCP-04A-10222024 — Lab Sample ID: 480-224726-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.2		1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	0.21	J	1.0	0.19	ug/L	1		8260C	Total/NA
2,4-Dimethylphenol	6.1	J	25	2.5	ug/L	5		8270D	Total/NA
2-Methylphenol	14	J	25	2.0	ug/L	5		8270D	Total/NA
4-Methylphenol	32	J	50	1.8	ug/L	5		8270D	Total/NA
Phenol	23	J	25	2.0	ug/L	5		8270D	Total/NA
Mercury	0.00013	J	0.00020	0.000042	mg/L	1		7470A	Total/NA
Ammonia	4.3	B	0.10	0.045	mg/L	5		350.1	Total/NA
Cyanide, Total	0.24		0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-04B-10222024 — Lab Sample ID: 480-224726-3

No Detections.

Client Sample ID: MW-BCP-05A-10222024 — Lab Sample ID: 480-224726-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1900		50	21	ug/L	50		8260C	Total/NA
Ethylbenzene	98		50	37	ug/L	50		8260C	Total/NA
Toluene	35	J	50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	160		100	33	ug/L	50		8260C	Total/NA
2,4-Dimethylphenol	23	J	130	13	ug/L	5		8270D	Total/NA
2-Methylphenol	34	J	130	10	ug/L	5		8270D	Total/NA
4-Methylphenol	27	J	250	9.0	ug/L	5		8270D	Total/NA
Acenaphthene	14	J	130	10	ug/L	5		8270D	Total/NA
Fluoranthene	15	J	130	10	ug/L	5		8270D	Total/NA
Naphthalene	290		130	19	ug/L	5		8270D	Total/NA
Phenanthrene	13	J	130	11	ug/L	5		8270D	Total/NA
Phenol	15	J	130	9.8	ug/L	5		8270D	Total/NA
Pyrene	15	J	130	8.5	ug/L	5		8270D	Total/NA
Mercury	0.0035	J	0.0060	0.0013	mg/L	1		7470A	Total/NA
Ammonia	166		1.8	0.81	mg/L	90		350.1	Total/NA
Cyanide, Total	6.7		0.20	0.082	mg/L	20		9012B	Total/NA

Client Sample ID: MW-BCP-05C-10222024 — Lab Sample ID: 480-224726-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.47		0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: BATTERYSUMP-10232024 — Lab Sample ID: 480-224726-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	31.8	B	0.40	0.18	mg/L	20		350.1	Total/NA

Client Sample ID: MW-BCP-06A-10232024 — Lab Sample ID: 480-224726-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	1.5		0.10	0.045	mg/L	5		350.1	Total/NA
Cyanide, Total	0.072		0.010	0.0041	mg/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Client Sample ID: MW-BCP-06C-10232024 — Lab Sample ID: 480-224726-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.43		0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: MW-BCP-08A-10232024 — Lab Sample ID: 480-224726-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	1.0		0.10	0.045	mg/L	5		350.1	Total/NA

Client Sample ID: MW-BCP-08B-10232024 — Lab Sample ID: 480-224726-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.17		0.020	0.0090	mg/L	1		350.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-BCP-01B-10222024

Lab Sample ID: 480-224726-1

Date Collected: 10/22/24 13:18

Matrix: Water

Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/30/24 21:53	1

Client Sample ID: MW-BCP-04A-10222024

Lab Sample ID: 480-224726-2

Date Collected: 10/22/24 13:32

Matrix: Water

Date Received: 10/23/24 13:38

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/25/24 18:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/25/24 18:08	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/25/24 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/25/24 18:08	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/25/24 18:08	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/25/24 18:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/25/24 18:08	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			10/25/24 18:08	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/25/24 18:08	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/25/24 18:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/25/24 18:08	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/25/24 18:08	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/25/24 18:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/25/24 18:08	1
2-Hexanone	ND		5.0	1.2	ug/L			10/25/24 18:08	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/25/24 18:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/25/24 18:08	1
Acetone	**3.0**	**J**	10	3.0	ug/L			10/25/24 18:08	1
Benzene	**1.2**		1.0	0.41	ug/L			10/25/24 18:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/25/24 18:08	1
Bromoform	ND	*+	1.0	0.26	ug/L			10/25/24 18:08	1
Bromomethane	ND		1.0	0.69	ug/L			10/25/24 18:08	1
Carbon disulfide	**0.21**	**J**	1.0	0.19	ug/L			10/25/24 18:08	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/25/24 18:08	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/25/24 18:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/25/24 18:08	1
Chloroethane	ND		1.0	0.32	ug/L			10/25/24 18:08	1
Chloroform	ND		1.0	0.34	ug/L			10/25/24 18:08	1
Chloromethane	ND		1.0	0.35	ug/L			10/25/24 18:08	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/25/24 18:08	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/25/24 18:08	1
Cyclohexane	ND		1.0	0.18	ug/L			10/25/24 18:08	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/25/24 18:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/25/24 18:08	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/25/24 18:08	1
Methyl acetate	ND		2.5	1.3	ug/L			10/25/24 18:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/25/24 18:08	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/25/24 18:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/25/24 18:08	1
Styrene	ND		1.0	0.73	ug/L			10/25/24 18:08	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/25/24 18:08	1
Toluene	ND		1.0	0.51	ug/L			10/25/24 18:08	1

Client Sample ID: MW-BCP-04A-10222024
Date Collected: 10/22/24 13:32
Date Received: 10/23/24 13:38

Lab Sample ID: 480-224726-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/25/24 18:08	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/25/24 18:08	1
Trichloroethene	ND		1.0	0.46	ug/L			10/25/24 18:08	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/25/24 18:08	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/25/24 18:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/25/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*10/25/24 18:08*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/25/24 18:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*10/25/24 18:08*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*10/25/24 18:08*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		25	3.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,4-Dimethylphenol	**6.1**	**J**	25	2.5	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,4-Dinitrophenol	ND		50	11	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
2-Chloronaphthalene	ND		25	2.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
2-Chlorophenol	ND		25	2.7	ug/L		10/24/24 14:02	10/26/24 15:18	5
2-Methylnaphthalene	ND		25	3.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
2-Methylphenol	**14**	**J**	25	2.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
2-Nitroaniline	ND		50	2.1	ug/L		10/24/24 14:02	10/26/24 15:18	5
2-Nitrophenol	ND		25	2.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
3-Nitroaniline	ND		50	2.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Chloroaniline	ND		25	3.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Methylphenol	**32**	**J**	50	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Nitroaniline	ND		50	1.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Nitrophenol	ND		50	7.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
Acenaphthene	ND		25	2.1	ug/L		10/24/24 14:02	10/26/24 15:18	5
Acenaphthylene	ND		25	1.9	ug/L		10/24/24 14:02	10/26/24 15:18	5
Acetophenone	ND		25	2.7	ug/L		10/24/24 14:02	10/26/24 15:18	5
Anthracene	ND		25	1.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
Atrazine	ND		25	2.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
Benzaldehyde	ND		25	1.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
Benzo(a)anthracene	ND		25	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
Benzo(a)pyrene	ND		25	2.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		10/24/24 14:02	10/26/24 15:18	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5

Client Sample ID: MW-BCP-04A-10222024
Date Collected: 10/22/24 13:32
Date Received: 10/23/24 13:38

Lab Sample ID: 480-224726-2
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(k)fluoranthene	ND		25	3.7	ug/L		10/24/24 14:02	10/26/24 15:18	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		10/24/24 14:02	10/26/24 15:18	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
Caprolactam	ND		25	11	ug/L		10/24/24 14:02	10/26/24 15:18	5
Carbazole	ND		25	1.5	ug/L		10/24/24 14:02	10/26/24 15:18	5
Chrysene	ND		25	1.7	ug/L		10/24/24 14:02	10/26/24 15:18	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		10/24/24 14:02	10/26/24 15:18	5
Dibenzofuran	ND		50	2.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
Diethyl phthalate	ND		25	1.1	ug/L		10/24/24 14:02	10/26/24 15:18	5
Dimethyl phthalate	ND		25	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
Fluoranthene	ND		25	2.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
Fluorene	ND		25	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
Hexachlorobenzene	ND		25	2.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
Hexachlorobutadiene	ND		25	3.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
Hexachloroethane	ND		25	3.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
Indeno(1,2,3-cd)pyrene	ND		25	2.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
Isophorone	ND		25	2.2	ug/L		10/24/24 14:02	10/26/24 15:18	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		10/24/24 14:02	10/26/24 15:18	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
Naphthalene	ND		25	3.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
Nitrobenzene	ND		25	1.5	ug/L		10/24/24 14:02	10/26/24 15:18	5
Pentachlorophenol	ND		50	11	ug/L		10/24/24 14:02	10/26/24 15:18	5
Phenanthrene	ND		25	2.2	ug/L		10/24/24 14:02	10/26/24 15:18	5
Phenol	**23**	**J**	25	2.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
Pyrene	ND		25	1.7	ug/L		10/24/24 14:02	10/26/24 15:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*25 - 144*	*10/24/24 14:02*	*10/26/24 15:18*	*5*
2-Fluorobiphenyl	*80*		*53 - 126*	*10/24/24 14:02*	*10/26/24 15:18*	*5*
2-Fluorophenol	*69*		*24 - 120*	*10/24/24 14:02*	*10/26/24 15:18*	*5*
Nitrobenzene-d5	*88*		*29 - 129*	*10/24/24 14:02*	*10/26/24 15:18*	*5*
p-Terphenyl-d14	*61*		*33 - 132*	*10/24/24 14:02*	*10/26/24 15:18*	*5*
Phenol-d5	*53*		*10 - 120*	*10/24/24 14:02*	*10/26/24 15:18*	*5*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00013**	**J**	0.00020	0.000042	mg/L		10/25/24 15:08	10/26/24 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**4.3**	**B**	0.10	0.045	mg/L			10/30/24 23:33	5
Cyanide, Total (SW846 9012B)	**0.24**		0.010	0.0041	mg/L			10/28/24 10:00	1

Client Sample ID: MW-BCP-04B-10222024

Lab Sample ID: 480-224726-3

Date Collected: 10/22/24 13:40

Matrix: Water

Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/30/24 21:55	1

Client Sample ID: MW-BCP-05A-10222024

Lab Sample ID: 480-224726-4

Date Collected: 10/22/24 12:05

Matrix: Water

Date Received: 10/23/24 13:38

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			10/25/24 18:31	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			10/25/24 18:31	50
1,1,2-Trichloroethane	ND		50	12	ug/L			10/25/24 18:31	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			10/25/24 18:31	50
1,1-Dichloroethane	ND		50	19	ug/L			10/25/24 18:31	50
1,1-Dichloroethene	ND		50	15	ug/L			10/25/24 18:31	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			10/25/24 18:31	50
1,2-Dibromo-3-Chloropropane	ND	*+	50	20	ug/L			10/25/24 18:31	50
1,2-Dibromoethane	ND		50	37	ug/L			10/25/24 18:31	50
1,2-Dichlorobenzene	ND		50	40	ug/L			10/25/24 18:31	50
1,2-Dichloroethane	ND		50	11	ug/L			10/25/24 18:31	50
1,2-Dichloropropane	ND		50	36	ug/L			10/25/24 18:31	50
1,3-Dichlorobenzene	ND		50	39	ug/L			10/25/24 18:31	50
1,4-Dichlorobenzene	ND		50	42	ug/L			10/25/24 18:31	50
2-Hexanone	ND		250	62	ug/L			10/25/24 18:31	50
2-Butanone (MEK)	ND		500	66	ug/L			10/25/24 18:31	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			10/25/24 18:31	50
Acetone	ND		500	150	ug/L			10/25/24 18:31	50
Benzene	**1900**		50	21	ug/L			10/25/24 18:31	50
Bromodichloromethane	ND		50	20	ug/L			10/25/24 18:31	50
Bromoform	ND	*+ F1	50	13	ug/L			10/25/24 18:31	50
Bromomethane	ND		50	35	ug/L			10/25/24 18:31	50
Carbon disulfide	ND		50	9.5	ug/L			10/25/24 18:31	50
Carbon tetrachloride	ND		50	14	ug/L			10/25/24 18:31	50
Chlorobenzene	ND		50	38	ug/L			10/25/24 18:31	50
Dibromochloromethane	ND		50	16	ug/L			10/25/24 18:31	50
Chloroethane	ND		50	16	ug/L			10/25/24 18:31	50
Chloroform	ND		50	17	ug/L			10/25/24 18:31	50
Chloromethane	ND		50	18	ug/L			10/25/24 18:31	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			10/25/24 18:31	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			10/25/24 18:31	50
Cyclohexane	ND		50	9.0	ug/L			10/25/24 18:31	50
Dichlorodifluoromethane	ND		50	34	ug/L			10/25/24 18:31	50
Ethylbenzene	**98**		50	37	ug/L			10/25/24 18:31	50
Isopropylbenzene	ND		50	40	ug/L			10/25/24 18:31	50
Methyl acetate	ND		130	65	ug/L			10/25/24 18:31	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			10/25/24 18:31	50
Methylcyclohexane	ND		50	8.0	ug/L			10/25/24 18:31	50
Methylene Chloride	ND		50	22	ug/L			10/25/24 18:31	50
Styrene	ND		50	37	ug/L			10/25/24 18:31	50
Tetrachloroethene	ND		50	18	ug/L			10/25/24 18:31	50
Toluene	**35**	**J**	50	26	ug/L			10/25/24 18:31	50

Client Sample ID: MW-BCP-05A-10222024
Date Collected: 10/22/24 12:05
Date Received: 10/23/24 13:38

Lab Sample ID: 480-224726-4
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		50	45	ug/L			10/25/24 18:31	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			10/25/24 18:31	50
Trichloroethene	ND		50	23	ug/L			10/25/24 18:31	50
Trichlorofluoromethane	ND		50	44	ug/L			10/25/24 18:31	50
Vinyl chloride	ND		50	45	ug/L			10/25/24 18:31	50
Xylenes, Total	**160**		100	33	ug/L			10/25/24 18:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*10/25/24 18:31*	*50*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/25/24 18:31*	*50*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*10/25/24 18:31*	*50*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*10/25/24 18:31*	*50*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		130	16	ug/L		10/24/24 14:02	10/26/24 15:46	5
bis (2-chloroisopropyl) ether	ND		130	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,4,5-Trichlorophenol	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,4,6-Trichlorophenol	ND		130	15	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,4-Dichlorophenol	ND		130	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,4-Dimethylphenol	**23**	**J**	130	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,4-Dinitrophenol	ND		250	56	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,4-Dinitrotoluene	ND		130	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,6-Dinitrotoluene	ND		130	10	ug/L		10/24/24 14:02	10/26/24 15:46	5
2-Chloronaphthalene	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
2-Chlorophenol	ND		130	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
2-Methylnaphthalene	ND		130	15	ug/L		10/24/24 14:02	10/26/24 15:46	5
2-Methylphenol	**34**	**J**	130	10	ug/L		10/24/24 14:02	10/26/24 15:46	5
2-Nitroaniline	ND		250	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
2-Nitrophenol	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
3,3'-Dichlorobenzidine	ND		130	10	ug/L		10/24/24 14:02	10/26/24 15:46	5
3-Nitroaniline	ND		250	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
4,6-Dinitro-2-methylphenol	ND		250	55	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Bromophenyl phenyl ether	ND		130	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Chloro-3-methylphenol	ND		130	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Chloroaniline	ND		130	15	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Chlorophenyl phenyl ether	ND		130	8.8	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Methylphenol	**27**	**J**	250	9.0	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Nitroaniline	ND		250	6.3	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Nitrophenol	ND		250	38	ug/L		10/24/24 14:02	10/26/24 15:46	5
Acenaphthene	**14**	**J**	130	10	ug/L		10/24/24 14:02	10/26/24 15:46	5
Acenaphthylene	ND		130	9.5	ug/L		10/24/24 14:02	10/26/24 15:46	5
Acetophenone	ND		130	14	ug/L		10/24/24 14:02	10/26/24 15:46	5
Anthracene	ND		130	7.0	ug/L		10/24/24 14:02	10/26/24 15:46	5
Atrazine	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
Benzaldehyde	ND		130	6.7	ug/L		10/24/24 14:02	10/26/24 15:46	5
Benzo(a)anthracene	ND		130	9.0	ug/L		10/24/24 14:02	10/26/24 15:46	5
Benzo(a)pyrene	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
Benzo(b)fluoranthene	ND		130	8.5	ug/L		10/24/24 14:02	10/26/24 15:46	5
Benzo(g,h,i)perylene	ND		130	8.8	ug/L		10/24/24 14:02	10/26/24 15:46	5

Client Sample ID: MW-BCP-05A-10222024
Date Collected: 10/22/24 12:05
Date Received: 10/23/24 13:38

Lab Sample ID: 480-224726-4
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(k)fluoranthene	ND		130	18	ug/L		10/24/24 14:02	10/26/24 15:46	5
Bis(2-chloroethoxy)methane	ND		130	8.8	ug/L		10/24/24 14:02	10/26/24 15:46	5
Bis(2-chloroethyl)ether	ND		130	10	ug/L		10/24/24 14:02	10/26/24 15:46	5
Bis(2-ethylhexyl) phthalate	ND		130	55	ug/L		10/24/24 14:02	10/26/24 15:46	5
Butyl benzyl phthalate	ND		130	25	ug/L		10/24/24 14:02	10/26/24 15:46	5
Caprolactam	ND		130	55	ug/L		10/24/24 14:02	10/26/24 15:46	5
Carbazole	ND		130	7.5	ug/L		10/24/24 14:02	10/26/24 15:46	5
Chrysene	ND		130	8.3	ug/L		10/24/24 14:02	10/26/24 15:46	5
Di-n-butyl phthalate	ND		130	7.8	ug/L		10/24/24 14:02	10/26/24 15:46	5
Di-n-octyl phthalate	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
Dibenz(a,h)anthracene	ND		130	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
Dibenzofuran	ND		250	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
Diethyl phthalate	ND		130	5.5	ug/L		10/24/24 14:02	10/26/24 15:46	5
Dimethyl phthalate	ND		130	9.0	ug/L		10/24/24 14:02	10/26/24 15:46	5
Fluoranthene	**15**	**J**	130	10	ug/L		10/24/24 14:02	10/26/24 15:46	5
Fluorene	ND		130	9.0	ug/L		10/24/24 14:02	10/26/24 15:46	5
Hexachlorobenzene	ND		130	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
Hexachlorobutadiene	ND		130	17	ug/L		10/24/24 14:02	10/26/24 15:46	5
Hexachlorocyclopentadiene	ND		130	15	ug/L		10/24/24 14:02	10/26/24 15:46	5
Hexachloroethane	ND		130	15	ug/L		10/24/24 14:02	10/26/24 15:46	5
Indeno(1,2,3-cd)pyrene	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
Isophorone	ND		130	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
N-Nitrosodi-n-propylamine	ND		130	14	ug/L		10/24/24 14:02	10/26/24 15:46	5
N-Nitrosodiphenylamine	ND		130	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
Naphthalene	**290**		130	19	ug/L		10/24/24 14:02	10/26/24 15:46	5
Nitrobenzene	ND		130	7.3	ug/L		10/24/24 14:02	10/26/24 15:46	5
Pentachlorophenol	ND		250	55	ug/L		10/24/24 14:02	10/26/24 15:46	5
Phenanthrene	**13**	**J**	130	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
Phenol	**15**	**J**	130	9.8	ug/L		10/24/24 14:02	10/26/24 15:46	5
Pyrene	**15**	**J**	130	8.5	ug/L		10/24/24 14:02	10/26/24 15:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*25 - 144*	*10/24/24 14:02*	*10/26/24 15:46*	*5*
2-Fluorobiphenyl	*78*		*53 - 126*	*10/24/24 14:02*	*10/26/24 15:46*	*5*
2-Fluorophenol	*60*		*24 - 120*	*10/24/24 14:02*	*10/26/24 15:46*	*5*
Nitrobenzene-d5	*94*		*29 - 129*	*10/24/24 14:02*	*10/26/24 15:46*	*5*
p-Terphenyl-d14	*77*		*33 - 132*	*10/24/24 14:02*	*10/26/24 15:46*	*5*
Phenol-d5	*48*		*10 - 120*	*10/24/24 14:02*	*10/26/24 15:46*	*5*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0035**	**J**	0.0060	0.0013	mg/L		10/25/24 15:08	10/26/24 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**166**		1.8	0.81	mg/L			10/30/24 14:53	90
Cyanide, Total (SW846 9012B)	**6.7**		0.20	0.082	mg/L			10/29/24 13:09	20

Client Sample ID: MW-BCP-05C-10222024

Lab Sample ID: 480-224726-5

Date Collected: 10/22/24 14:25
Matrix: Water
Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.47		0.020	0.0090	mg/L			10/30/24 22:01	1

Client Sample ID: BATTERYSUMP-10232024

Lab Sample ID: 480-224726-6

Date Collected: 10/23/24 09:40
Matrix: Water
Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	31.8	B	0.40	0.18	mg/L			10/30/24 12:27	20

Client Sample ID: MW-BCP-06A-10232024

Lab Sample ID: 480-224726-7

Date Collected: 10/23/24 10:15
Matrix: Water
Date Received: 10/23/24 13:38

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/25/24 18:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/25/24 18:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/25/24 18:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/25/24 18:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/25/24 18:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/25/24 18:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/25/24 18:54	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			10/25/24 18:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/25/24 18:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/25/24 18:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/25/24 18:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/25/24 18:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/25/24 18:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/25/24 18:54	1
2-Hexanone	ND		5.0	1.2	ug/L			10/25/24 18:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/25/24 18:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/25/24 18:54	1
Acetone	ND		10	3.0	ug/L			10/25/24 18:54	1
Benzene	ND		1.0	0.41	ug/L			10/25/24 18:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/25/24 18:54	1
Bromoform	ND	*+	1.0	0.26	ug/L			10/25/24 18:54	1
Bromomethane	ND		1.0	0.69	ug/L			10/25/24 18:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/25/24 18:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/25/24 18:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/25/24 18:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/25/24 18:54	1
Chloroethane	ND		1.0	0.32	ug/L			10/25/24 18:54	1
Chloroform	ND		1.0	0.34	ug/L			10/25/24 18:54	1
Chloromethane	ND		1.0	0.35	ug/L			10/25/24 18:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/25/24 18:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/25/24 18:54	1
Cyclohexane	ND		1.0	0.18	ug/L			10/25/24 18:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/25/24 18:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/25/24 18:54	1

Client Sample ID: MW-BCP-06A-10232024
Date Collected: 10/23/24 10:15
Date Received: 10/23/24 13:38

Lab Sample ID: 480-224726-7
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.79	ug/L			10/25/24 18:54	1
Methyl acetate	ND		2.5	1.3	ug/L			10/25/24 18:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/25/24 18:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/25/24 18:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/25/24 18:54	1
Styrene	ND		1.0	0.73	ug/L			10/25/24 18:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/25/24 18:54	1
Toluene	ND		1.0	0.51	ug/L			10/25/24 18:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/25/24 18:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/25/24 18:54	1
Trichloroethene	ND		1.0	0.46	ug/L			10/25/24 18:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/25/24 18:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/25/24 18:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/25/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*10/25/24 18:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/25/24 18:54*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*10/25/24 18:54*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*10/25/24 18:54*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		10/24/24 14:02	10/26/24 16:13	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 16:13	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/24/24 14:02	10/26/24 16:13	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/24/24 14:02	10/26/24 16:13	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		10/24/24 14:02	10/26/24 16:13	1
2-Methylphenol	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 16:13	1
2-Nitroaniline	ND		10	0.42	ug/L		10/24/24 14:02	10/26/24 16:13	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/24/24 14:02	10/26/24 16:13	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 16:13	1
3-Nitroaniline	ND		10	0.48	ug/L		10/24/24 14:02	10/26/24 16:13	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Methylphenol	ND		10	0.36	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Nitroaniline	ND		10	0.25	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Nitrophenol	ND		10	1.5	ug/L		10/24/24 14:02	10/26/24 16:13	1
Acenaphthene	ND		5.0	0.41	ug/L		10/24/24 14:02	10/26/24 16:13	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/24/24 14:02	10/26/24 16:13	1

Client Sample ID: MW-BCP-06A-10232024
Date Collected: 10/23/24 10:15
Date Received: 10/23/24 13:38

Lab Sample ID: 480-224726-7
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		5.0	0.54	ug/L		10/24/24 14:02	10/26/24 16:13	1
Anthracene	ND		5.0	0.28	ug/L		10/24/24 14:02	10/26/24 16:13	1
Atrazine	ND		5.0	0.46	ug/L		10/24/24 14:02	10/26/24 16:13	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/24/24 14:02	10/26/24 16:13	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		10/24/24 14:02	10/26/24 16:13	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		10/24/24 14:02	10/26/24 16:13	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		10/24/24 14:02	10/26/24 16:13	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		10/24/24 14:02	10/26/24 16:13	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/24/24 14:02	10/26/24 16:13	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/24/24 14:02	10/26/24 16:13	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 16:13	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/24/24 14:02	10/26/24 16:13	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/24/24 14:02	10/26/24 16:13	1
Caprolactam	ND		5.0	2.2	ug/L		10/24/24 14:02	10/26/24 16:13	1
Carbazole	ND		5.0	0.30	ug/L		10/24/24 14:02	10/26/24 16:13	1
Chrysene	ND		5.0	0.33	ug/L		10/24/24 14:02	10/26/24 16:13	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/24/24 14:02	10/26/24 16:13	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/24/24 14:02	10/26/24 16:13	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/24/24 14:02	10/26/24 16:13	1
Dibenzofuran	ND		10	0.51	ug/L		10/24/24 14:02	10/26/24 16:13	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/24/24 14:02	10/26/24 16:13	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/24/24 14:02	10/26/24 16:13	1
Fluoranthene	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 16:13	1
Fluorene	ND		5.0	0.36	ug/L		10/24/24 14:02	10/26/24 16:13	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/24/24 14:02	10/26/24 16:13	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/24/24 14:02	10/26/24 16:13	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/24/24 14:02	10/26/24 16:13	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/24/24 14:02	10/26/24 16:13	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		10/24/24 14:02	10/26/24 16:13	1
Isophorone	ND		5.0	0.43	ug/L		10/24/24 14:02	10/26/24 16:13	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/24/24 14:02	10/26/24 16:13	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/24/24 14:02	10/26/24 16:13	1
Naphthalene	ND		5.0	0.76	ug/L		10/24/24 14:02	10/26/24 16:13	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/24/24 14:02	10/26/24 16:13	1
Pentachlorophenol	ND		10	2.2	ug/L		10/24/24 14:02	10/26/24 16:13	1
Phenanthrene	ND		5.0	0.44	ug/L		10/24/24 14:02	10/26/24 16:13	1
Phenol	ND		5.0	0.39	ug/L		10/24/24 14:02	10/26/24 16:13	1
Pyrene	ND		5.0	0.34	ug/L		10/24/24 14:02	10/26/24 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*25 - 144*	*10/24/24 14:02*	*10/26/24 16:13*	*1*
2-Fluorobiphenyl	*86*		*53 - 126*	*10/24/24 14:02*	*10/26/24 16:13*	*1*
2-Fluorophenol	*69*		*24 - 120*	*10/24/24 14:02*	*10/26/24 16:13*	*1*
Nitrobenzene-d5	*92*		*29 - 129*	*10/24/24 14:02*	*10/26/24 16:13*	*1*
p-Terphenyl-d14	*62*		*33 - 132*	*10/24/24 14:02*	*10/26/24 16:13*	*1*
Phenol-d5	*53*		*10 - 120*	*10/24/24 14:02*	*10/26/24 16:13*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		10/25/24 15:08	10/26/24 11:48	1

Client Sample ID: MW-BCP-06A-10232024

Lab Sample ID: 480-224726-7

Date Collected: 10/23/24 10:15
Matrix: Water
Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	1.5		0.10	0.045	mg/L			10/29/24 22:35	5
Cyanide, Total (SW846 9012B)	0.072		0.010	0.0041	mg/L			10/28/24 10:07	1

Client Sample ID: MW-BCP-06C-10232024

Lab Sample ID: 480-224726-8

Date Collected: 10/23/24 10:20
Matrix: Water
Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.43		0.020	0.0090	mg/L			10/30/24 22:02	1

Client Sample ID: MW-BCP-08A-10232024

Lab Sample ID: 480-224726-9

Date Collected: 10/23/24 10:50
Matrix: Water
Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	1.0		0.10	0.045	mg/L			10/29/24 22:35	5

Client Sample ID: MW-BCP-08B-10232024

Lab Sample ID: 480-224726-10

Date Collected: 10/23/24 11:05
Matrix: Water
Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.17		0.020	0.0090	mg/L			10/30/24 22:03	1

Surrogate Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-224726-2	MW-BCP-04A-10222024	98	99	99	101
480-224726-4	MW-BCP-05A-10222024	95	102	101	94
480-224726-4 MS	MW-BCP-05A-10222024	96	100	98	98
480-224726-4 MSD	MW-BCP-05A-10222024	96	98	96	97
480-224726-7	MW-BCP-06A-10232024	94	99	101	95
LCS 480-729816/5	Lab Control Sample	99	98	97	100
MB 480-729816/7	Method Blank	103	99	98	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(33-132)	(10-120)
480-224726-2	MW-BCP-04A-10222024	73	80	69	88	61	53
480-224726-4	MW-BCP-05A-10222024	90	78	60	94	77	48
480-224726-7	MW-BCP-06A-10232024	83	86	69	92	62	53
LCS 480-729657/2-A	Lab Control Sample	92	79	63	76	85	51
MB 480-729657/1-A	Method Blank	63	70	58	82	82	45

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

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

Lab Sample ID: MB 480-729816/7
Matrix: Water
Analysis Batch: 729816

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	ND		1.0	0.82	ug/L			10/25/24 15:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/25/24 15:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/25/24 15:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/25/24 15:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/25/24 15:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/25/24 15:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/25/24 15:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/25/24 15:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/25/24 15:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/25/24 15:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/25/24 15:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/25/24 15:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/25/24 15:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/25/24 15:30	1
2-Hexanone	ND		5.0	1.2	ug/L			10/25/24 15:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/25/24 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/25/24 15:30	1
Acetone	ND		10	3.0	ug/L			10/25/24 15:30	1
Benzene	ND		1.0	0.41	ug/L			10/25/24 15:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/25/24 15:30	1
Bromoform	ND		1.0	0.26	ug/L			10/25/24 15:30	1
Bromomethane	ND		1.0	0.69	ug/L			10/25/24 15:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/25/24 15:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/25/24 15:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/25/24 15:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/25/24 15:30	1
Chloroethane	ND		1.0	0.32	ug/L			10/25/24 15:30	1
Chloroform	ND		1.0	0.34	ug/L			10/25/24 15:30	1
Chloromethane	ND		1.0	0.35	ug/L			10/25/24 15:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/25/24 15:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/25/24 15:30	1
Cyclohexane	ND		1.0	0.18	ug/L			10/25/24 15:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/25/24 15:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/25/24 15:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/25/24 15:30	1
Methyl acetate	ND		2.5	1.3	ug/L			10/25/24 15:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/25/24 15:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/25/24 15:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/25/24 15:30	1
Styrene	ND		1.0	0.73	ug/L			10/25/24 15:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/25/24 15:30	1
Toluene	ND		1.0	0.51	ug/L			10/25/24 15:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/25/24 15:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/25/24 15:30	1
Trichloroethene	ND		1.0	0.46	ug/L			10/25/24 15:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/25/24 15:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/25/24 15:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/25/24 15:30	1

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

Lab Sample ID: MB 480-729816/7
Matrix: Water
Analysis Batch: 729816

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/25/24 15:30	1
Toluene-d8 (Surr)	99		80 - 120		10/25/24 15:30	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/25/24 15:30	1
Dibromofluoromethane (Surr)	102		75 - 123		10/25/24 15:30	1

Lab Sample ID: LCS 480-729816/5
Matrix: Water
Analysis Batch: 729816

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	25.8		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	25.0	27.8		ug/L		111	76 - 120
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.1		ug/L		97	61 - 148
1,1-Dichloroethane	25.0	25.4		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	24.6		ug/L		99	66 - 127
1,2,4-Trichlorobenzene	25.0	26.8		ug/L		107	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	34.1	*+	ug/L		136	56 - 134
1,2-Dibromoethane	25.0	28.4		ug/L		114	77 - 120
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	80 - 124
1,2-Dichloroethane	25.0	26.2		ug/L		105	75 - 120
1,2-Dichloropropane	25.0	26.1		ug/L		104	76 - 120
1,3-Dichlorobenzene	25.0	26.9		ug/L		107	77 - 120
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	80 - 120
2-Hexanone	125	143		ug/L		115	65 - 127
2-Butanone (MEK)	125	144		ug/L		115	57 - 140
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		109	71 - 125
Acetone	125	130		ug/L		104	56 - 142
Benzene	25.0	25.5		ug/L		102	71 - 124
Bromodichloromethane	25.0	28.3		ug/L		113	80 - 122
Bromoform	25.0	33.5	*+	ug/L		134	61 - 132
Bromomethane	25.0	24.0		ug/L		96	55 - 144
Carbon disulfide	25.0	24.3		ug/L		97	59 - 134
Carbon tetrachloride	25.0	27.8		ug/L		111	72 - 134
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120
Dibromochloromethane	25.0	30.1		ug/L		120	75 - 125
Chloroethane	25.0	27.7		ug/L		111	69 - 136
Chloroform	25.0	24.0		ug/L		96	73 - 127
Chloromethane	25.0	24.7		ug/L		99	68 - 124
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	74 - 124
cis-1,3-Dichloropropene	25.0	29.2		ug/L		117	74 - 124
Cyclohexane	25.0	24.1		ug/L		96	59 - 135
Dichlorodifluoromethane	25.0	22.0		ug/L		88	59 - 135
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
Isopropylbenzene	25.0	26.8		ug/L		107	77 - 122
Methyl acetate	50.0	55.6		ug/L		111	74 - 133
Methyl tert-butyl ether	25.0	26.2		ug/L		105	77 - 120
Methylcyclohexane	25.0	24.8		ug/L		99	68 - 134

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

Lab Sample ID: LCS 480-729816/5
Matrix: Water
Analysis Batch: 729816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	25.0	27.0		ug/L		108	75 - 124
Styrene	25.0	26.4		ug/L		105	80 - 120
Tetrachloroethene	25.0	25.3		ug/L		101	74 - 122
Toluene	25.0	25.2		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	28.1		ug/L		112	80 - 120
Trichloroethene	25.0	26.7		ug/L		107	74 - 123
Trichlorofluoromethane	25.0	25.6		ug/L		102	62 - 150
Vinyl chloride	25.0	27.1		ug/L		109	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Lab Sample ID: 480-224726-4 MS
Matrix: Water
Analysis Batch: 729816

Client Sample ID: MW-BCP-05A-10222024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		1250	1340		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	ND		1250	1340		ug/L		108	76 - 120
1,1,2-Trichloroethane	ND		1250	1270		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1250	1290		ug/L		103	61 - 148
1,1-Dichloroethane	ND		1250	1260		ug/L		101	77 - 120
1,1-Dichloroethene	ND		1250	1260		ug/L		101	66 - 127
1,2,4-Trichlorobenzene	ND		1250	1270		ug/L		101	79 - 122
1,2-Dibromo-3-Chloropropane	ND	*+	1250	1580		ug/L		127	56 - 134
1,2-Dibromoethane	ND		1250	1420		ug/L		113	77 - 120
1,2-Dichlorobenzene	ND		1250	1310		ug/L		105	80 - 124
1,2-Dichloroethane	ND		1250	1220		ug/L		97	75 - 120
1,2-Dichloropropane	ND		1250	1280		ug/L		102	76 - 120
1,3-Dichlorobenzene	ND		1250	1300		ug/L		104	77 - 120
1,4-Dichlorobenzene	ND		1250	1270		ug/L		101	78 - 124
2-Hexanone	ND		6250	6650		ug/L		106	65 - 127
2-Butanone (MEK)	ND		6250	5860		ug/L		94	57 - 140
4-Methyl-2-pentanone (MIBK)	ND		6250	6350		ug/L		102	71 - 125
Acetone	ND		6250	4700		ug/L		75	56 - 142
Benzene	1900		1250	3120		ug/L		101	71 - 124
Bromodichloromethane	ND		1250	1430		ug/L		114	80 - 122
Bromoform	ND	*+ F1	1250	1660	F1	ug/L		133	61 - 132
Bromomethane	ND		1250	1330		ug/L		106	55 - 144
Carbon disulfide	ND		1250	1240		ug/L		99	59 - 134
Carbon tetrachloride	ND		1250	1450		ug/L		116	72 - 134
Chlorobenzene	ND		1250	1290		ug/L		103	80 - 120
Dibromochloromethane	ND		1250	1530		ug/L		122	75 - 125
Chloroethane	ND		1250	1220		ug/L		98	69 - 136

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

Lab Sample ID: 480-224726-4 MS
Matrix: Water
Analysis Batch: 729816

Client Sample ID: MW-BCP-05A-10222024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	ND		1250	1180		ug/L		95	73 - 127
Chloromethane	ND		1250	1290		ug/L		104	68 - 124
cis-1,2-Dichloroethene	ND		1250	1280		ug/L		102	74 - 124
cis-1,3-Dichloropropene	ND		1250	1390		ug/L		111	74 - 124
Cyclohexane	ND		1250	1250		ug/L		100	59 - 135
Dichlorodifluoromethane	ND		1250	1180		ug/L		95	59 - 135
Ethylbenzene	98		1250	1360		ug/L		101	77 - 123
Isopropylbenzene	ND		1250	1330		ug/L		106	77 - 122
Methyl acetate	ND		2500	2210		ug/L		88	74 - 133
Methyl tert-butyl ether	ND		1250	1190		ug/L		96	77 - 120
Methylcyclohexane	ND		1250	1230		ug/L		99	68 - 134
Methylene Chloride	ND		1250	1330		ug/L		106	75 - 124
Styrene	ND		1250	1310		ug/L		105	80 - 120
Tetrachloroethene	ND		1250	1240		ug/L		100	74 - 122
Toluene	35	J	1250	1290		ug/L		101	80 - 122
trans-1,2-Dichloroethene	ND		1250	1270		ug/L		102	73 - 127
trans-1,3-Dichloropropene	ND		1250	1370		ug/L		109	80 - 120
Trichloroethene	ND		1250	1290		ug/L		104	74 - 123
Trichlorofluoromethane	ND		1250	1340		ug/L		107	62 - 150
Vinyl chloride	ND		1250	1470		ug/L		118	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Lab Sample ID: 480-224726-4 MSD
Matrix: Water
Analysis Batch: 729816

Client Sample ID: MW-BCP-05A-10222024
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	ND		1250	1300		ug/L		104	73 - 126	3	15
1,1,2,2-Tetrachloroethane	ND		1250	1360		ug/L		109	76 - 120	1	15
1,1,2-Trichloroethane	ND		1250	1250		ug/L		100	76 - 122	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1250	1220		ug/L		98	61 - 148	5	20
1,1-Dichloroethane	ND		1250	1230		ug/L		98	77 - 120	3	20
1,1-Dichloroethene	ND		1250	1230		ug/L		98	66 - 127	2	16
1,2,4-Trichlorobenzene	ND		1250	1240		ug/L		99	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	ND	*+	1250	1520		ug/L		122	56 - 134	4	15
1,2-Dibromoethane	ND		1250	1440		ug/L		115	77 - 120	1	15
1,2-Dichlorobenzene	ND		1250	1290		ug/L		103	80 - 124	1	20
1,2-Dichloroethane	ND		1250	1150		ug/L		92	75 - 120	6	20
1,2-Dichloropropane	ND		1250	1250		ug/L		100	76 - 120	2	20
1,3-Dichlorobenzene	ND		1250	1310		ug/L		105	77 - 120	1	20
1,4-Dichlorobenzene	ND		1250	1250		ug/L		100	78 - 124	1	20
2-Hexanone	ND		6250	6580		ug/L		105	65 - 127	1	15
2-Butanone (MEK)	ND		6250	5650		ug/L		90	57 - 140	4	20

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

Lab Sample ID: 480-224726-4 MSD
Matrix: Water
Analysis Batch: 729816

Client Sample ID: MW-BCP-05A-10222024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	ND		6250	6320		ug/L		101	71 - 125	0	35
Acetone	ND		6250	4720		ug/L		75	56 - 142	0	15
Benzene	1900		1250	2950		ug/L		88	71 - 124	6	13
Bromodichloromethane	ND		1250	1360		ug/L		109	80 - 122	5	15
Bromoform	ND	*+ F1	1250	1650		ug/L		132	61 - 132	1	15
Bromomethane	ND		1250	1270		ug/L		101	55 - 144	5	15
Carbon disulfide	ND		1250	1200		ug/L		96	59 - 134	3	15
Carbon tetrachloride	ND		1250	1410		ug/L		113	72 - 134	2	15
Chlorobenzene	ND		1250	1250		ug/L		100	80 - 120	4	25
Dibromochloromethane	ND		1250	1540		ug/L		123	75 - 125	1	15
Chloroethane	ND		1250	1200		ug/L		96	69 - 136	2	15
Chloroform	ND		1250	1150		ug/L		92	73 - 127	3	20
Chloromethane	ND		1250	1260		ug/L		101	68 - 124	2	15
cis-1,2-Dichloroethene	ND		1250	1230		ug/L		98	74 - 124	4	15
cis-1,3-Dichloropropene	ND		1250	1390		ug/L		111	74 - 124	0	15
Cyclohexane	ND		1250	1200		ug/L		96	59 - 135	4	20
Dichlorodifluoromethane	ND		1250	1150		ug/L		92	59 - 135	3	20
Ethylbenzene	98		1250	1320		ug/L		98	77 - 123	3	15
Isopropylbenzene	ND		1250	1330		ug/L		107	77 - 122	0	20
Methyl acetate	ND		2500	2200		ug/L		88	74 - 133	0	20
Methyl tert-butyl ether	ND		1250	1190		ug/L		95	77 - 120	0	37
Methylcyclohexane	ND		1250	1220		ug/L		97	68 - 134	1	20
Methylene Chloride	ND		1250	1320		ug/L		106	75 - 124	0	15
Styrene	ND		1250	1270		ug/L		102	80 - 120	3	20
Tetrachloroethene	ND		1250	1240		ug/L		99	74 - 122	1	20
Toluene	35	J	1250	1260		ug/L		98	80 - 122	2	15
trans-1,2-Dichloroethene	ND		1250	1220		ug/L		97	73 - 127	4	20
trans-1,3-Dichloropropene	ND		1250	1340		ug/L		107	80 - 120	2	15
Trichloroethene	ND		1250	1260		ug/L		100	74 - 123	3	16
Trichlorofluoromethane	ND		1250	1290		ug/L		103	62 - 150	4	20
Vinyl chloride	ND		1250	1460		ug/L		116	65 - 133	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-729657/1-A
Matrix: Water
Analysis Batch: 729894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		10/24/24 14:02	10/26/24 11:40	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/24/24 14:02	10/26/24 11:40	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/24/24 14:02	10/26/24 11:40	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/24/24 14:02	10/26/24 11:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-729657/1-A
Matrix: Water
Analysis Batch: 729894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/24/24 14:02	10/26/24 11:40	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/24/24 14:02	10/26/24 11:40	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/24/24 14:02	10/26/24 11:40	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/24/24 14:02	10/26/24 11:40	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 11:40	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/24/24 14:02	10/26/24 11:40	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/24/24 14:02	10/26/24 11:40	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		10/24/24 14:02	10/26/24 11:40	1
2-Methylphenol	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 11:40	1
2-Nitroaniline	ND		10	0.42	ug/L		10/24/24 14:02	10/26/24 11:40	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/24/24 14:02	10/26/24 11:40	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 11:40	1
3-Nitroaniline	ND		10	0.48	ug/L		10/24/24 14:02	10/26/24 11:40	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Methylphenol	ND		10	0.36	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Nitroaniline	ND		10	0.25	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Nitrophenol	ND		10	1.5	ug/L		10/24/24 14:02	10/26/24 11:40	1
Acenaphthene	ND		5.0	0.41	ug/L		10/24/24 14:02	10/26/24 11:40	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/24/24 14:02	10/26/24 11:40	1
Acetophenone	ND		5.0	0.54	ug/L		10/24/24 14:02	10/26/24 11:40	1
Anthracene	ND		5.0	0.28	ug/L		10/24/24 14:02	10/26/24 11:40	1
Atrazine	ND		5.0	0.46	ug/L		10/24/24 14:02	10/26/24 11:40	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/24/24 14:02	10/26/24 11:40	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		10/24/24 14:02	10/26/24 11:40	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		10/24/24 14:02	10/26/24 11:40	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		10/24/24 14:02	10/26/24 11:40	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		10/24/24 14:02	10/26/24 11:40	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/24/24 14:02	10/26/24 11:40	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/24/24 14:02	10/26/24 11:40	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 11:40	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/24/24 14:02	10/26/24 11:40	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/24/24 14:02	10/26/24 11:40	1
Caprolactam	ND		5.0	2.2	ug/L		10/24/24 14:02	10/26/24 11:40	1
Carbazole	ND		5.0	0.30	ug/L		10/24/24 14:02	10/26/24 11:40	1
Chrysene	ND		5.0	0.33	ug/L		10/24/24 14:02	10/26/24 11:40	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/24/24 14:02	10/26/24 11:40	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/24/24 14:02	10/26/24 11:40	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/24/24 14:02	10/26/24 11:40	1
Dibenzofuran	ND		10	0.51	ug/L		10/24/24 14:02	10/26/24 11:40	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/24/24 14:02	10/26/24 11:40	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/24/24 14:02	10/26/24 11:40	1
Fluoranthene	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 11:40	1
Fluorene	ND		5.0	0.36	ug/L		10/24/24 14:02	10/26/24 11:40	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/24/24 14:02	10/26/24 11:40	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/24/24 14:02	10/26/24 11:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-729657/1-A
Matrix: Water
Analysis Batch: 729894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/24/24 14:02	10/26/24 11:40	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/24/24 14:02	10/26/24 11:40	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		10/24/24 14:02	10/26/24 11:40	1
Isophorone	ND		5.0	0.43	ug/L		10/24/24 14:02	10/26/24 11:40	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/24/24 14:02	10/26/24 11:40	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/24/24 14:02	10/26/24 11:40	1
Naphthalene	ND		5.0	0.76	ug/L		10/24/24 14:02	10/26/24 11:40	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/24/24 14:02	10/26/24 11:40	1
Pentachlorophenol	ND		10	2.2	ug/L		10/24/24 14:02	10/26/24 11:40	1
Phenanthrene	ND		5.0	0.44	ug/L		10/24/24 14:02	10/26/24 11:40	1
Phenol	ND		5.0	0.39	ug/L		10/24/24 14:02	10/26/24 11:40	1
Pyrene	ND		5.0	0.34	ug/L		10/24/24 14:02	10/26/24 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*63*		*25 - 144*	*10/24/24 14:02*	*10/26/24 11:40*	*1*
2-Fluorobiphenyl	*70*		*53 - 126*	*10/24/24 14:02*	*10/26/24 11:40*	*1*
2-Fluorophenol	*58*		*24 - 120*	*10/24/24 14:02*	*10/26/24 11:40*	*1*
Nitrobenzene-d5	*82*		*29 - 129*	*10/24/24 14:02*	*10/26/24 11:40*	*1*
p-Terphenyl-d14	*82*		*33 - 132*	*10/24/24 14:02*	*10/26/24 11:40*	*1*
Phenol-d5	*45*		*10 - 120*	*10/24/24 14:02*	*10/26/24 11:40*	*1*

Lab Sample ID: LCS 480-729657/2-A
Matrix: Water
Analysis Batch: 730061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	32.0	25.3		ug/L		79	59 - 120
bis (2-chloroisopropyl) ether	32.0	25.8		ug/L		81	21 - 136
2,4,5-Trichlorophenol	32.0	29.6		ug/L		92	65 - 126
2,4,6-Trichlorophenol	32.0	24.6		ug/L		77	64 - 120
2,4-Dichlorophenol	32.0	25.5		ug/L		80	63 - 120
2,4-Dimethylphenol	32.0	26.0		ug/L		81	47 - 120
2,4-Dinitrophenol	64.0	70.0		ug/L		109	31 - 137
2,4-Dinitrotoluene	32.0	30.2		ug/L		94	69 - 120
2,6-Dinitrotoluene	32.0	29.0		ug/L		91	68 - 120
2-Chloronaphthalene	32.0	25.1		ug/L		78	58 - 120
2-Chlorophenol	32.0	25.1		ug/L		78	48 - 120
2-Methylnaphthalene	32.0	24.3		ug/L		76	59 - 120
2-Methylphenol	32.0	24.8		ug/L		78	39 - 120
2-Nitroaniline	32.0	27.5		ug/L		86	54 - 127
2-Nitrophenol	32.0	27.0		ug/L		84	52 - 125
3,3'-Dichlorobenzidine	32.0	20.1		ug/L		63	49 - 135
3-Nitroaniline	32.0	17.7		ug/L		55	51 - 120
4,6-Dinitro-2-methylphenol	64.0	71.1		ug/L		111	46 - 136
4-Bromophenyl phenyl ether	32.0	27.5		ug/L		86	65 - 120
4-Chloro-3-methylphenol	32.0	27.7		ug/L		87	61 - 123
4-Chloroaniline	32.0	11.6		ug/L		36	30 - 120
4-Chlorophenyl phenyl ether	32.0	26.9		ug/L		84	62 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-729657/2-A
Matrix: Water
Analysis Batch: 730061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methylphenol	32.0	24.5		ug/L		77	29 - 131
4-Nitroaniline	32.0	26.0		ug/L		81	65 - 120
4-Nitrophenol	64.0	49.3		ug/L		77	45 - 120
Acenaphthene	32.0	26.6		ug/L		83	60 - 120
Acenaphthylene	32.0	27.7		ug/L		87	63 - 120
Acetophenone	32.0	27.2		ug/L		85	45 - 120
Anthracene	32.0	29.0		ug/L		91	67 - 120
Atrazine	64.0	68.3	E	ug/L		107	71 - 130
Benzaldehyde	64.0	57.4		ug/L		90	10 - 140
Benzo(a)anthracene	32.0	29.5		ug/L		92	70 - 121
Benzo(a)pyrene	32.0	29.2		ug/L		91	60 - 123
Benzo(b)fluoranthene	32.0	29.0		ug/L		91	66 - 126
Benzo(g,h,i)perylene	32.0	29.8		ug/L		93	66 - 150
Benzo(k)fluoranthene	32.0	29.0		ug/L		91	65 - 124
Bis(2-chloroethoxy)methane	32.0	26.5		ug/L		83	50 - 128
Bis(2-chloroethyl)ether	32.0	32.1		ug/L		100	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	30.1		ug/L		94	63 - 139
Butyl benzyl phthalate	32.0	30.2		ug/L		95	70 - 129
Caprolactam	64.0	22.8		ug/L		36	22 - 120
Carbazole	32.0	29.7		ug/L		93	66 - 123
Chrysene	32.0	29.8		ug/L		93	69 - 120
Di-n-butyl phthalate	32.0	30.3		ug/L		95	69 - 131
Di-n-octyl phthalate	32.0	29.8		ug/L		93	63 - 140
Dibenz(a,h)anthracene	32.0	29.0		ug/L		91	65 - 135
Dibenzofuran	32.0	26.7		ug/L		83	66 - 120
Diethyl phthalate	32.0	30.0		ug/L		94	59 - 127
Dimethyl phthalate	32.0	28.8		ug/L		90	68 - 120
Fluoranthene	32.0	30.4		ug/L		95	69 - 126
Fluorene	32.0	28.1		ug/L		88	66 - 120
Hexachlorobenzene	32.0	27.1		ug/L		85	61 - 120
Hexachlorobutadiene	32.0	18.7		ug/L		58	35 - 120
Hexachlorocyclopentadiene	32.0	15.8		ug/L		49	31 - 120
Hexachloroethane	32.0	20.5		ug/L		64	33 - 120
Indeno(1,2,3-cd)pyrene	32.0	29.0		ug/L		91	69 - 146
Isophorone	32.0	26.9		ug/L		84	55 - 120
N-Nitrosodi-n-propylamine	32.0	26.4		ug/L		82	32 - 140
N-Nitrosodiphenylamine	32.0	28.1		ug/L		88	61 - 120
Naphthalene	32.0	24.5		ug/L		76	57 - 120
Nitrobenzene	32.0	25.9		ug/L		81	53 - 123
Pentachlorophenol	64.0	65.5		ug/L		102	10 - 136
Phenanthrene	32.0	28.4		ug/L		89	68 - 120
Phenol	32.0	17.3		ug/L		54	17 - 120
Pyrene	32.0	30.8		ug/L		96	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*92*		*25 - 144*
2-Fluorobiphenyl	*79*		*53 - 126*
2-Fluorophenol	*63*		*24 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-729657/2-A
Matrix: Water
Analysis Batch: 730061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729657

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*76*		*29 - 129*
p-Terphenyl-d14	*85*		*33 - 132*
Phenol-d5	*51*		*10 - 120*

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-729836/1-A
Matrix: Water
Analysis Batch: 729938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		10/25/24 15:08	10/26/24 11:11	1

Lab Sample ID: LCS 480-729836/2-A
Matrix: Water
Analysis Batch: 729938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00674		mg/L		101	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-730523/128
Matrix: Water
Analysis Batch: 730523

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0180	J	0.020	0.0090	mg/L			10/30/24 12:16	1

Lab Sample ID: MB 480-730523/162
Matrix: Water
Analysis Batch: 730523

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/30/24 13:16	1

Lab Sample ID: MB 480-730523/92
Matrix: Water
Analysis Batch: 730523

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/29/24 21:56	1

Lab Sample ID: LCS 480-730523/129
Matrix: Water
Analysis Batch: 730523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.932		mg/L		93	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-730523/163
Matrix: Water
Analysis Batch: 730523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.936		mg/L		94	90 - 110

Lab Sample ID: LCS 480-730523/93
Matrix: Water
Analysis Batch: 730523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.936		mg/L		94	90 - 110

Lab Sample ID: 480-224726-6 MS
Matrix: Water
Analysis Batch: 730523

Client Sample ID: BATTERYSUMP-10232024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	31.8	B	1.60	31.92	4	mg/L		10	90 - 110

Lab Sample ID: MB 480-730650/100
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0150	J	0.020	0.0090	mg/L			10/30/24 23:30	1

Lab Sample ID: MB 480-730650/24
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/30/24 21:57	1

Lab Sample ID: MB 480-730650/5
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/30/24 21:40	1

Lab Sample ID: LCS 480-730650/101
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.968		mg/L		97	90 - 110

Lab Sample ID: LCS 480-730650/25
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.945		mg/L		95	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-730650/6
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.972		mg/L		97	90 - 110

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-730180/21
Matrix: Water
Analysis Batch: 730180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			10/28/24 09:11	1

Lab Sample ID: MB 480-730180/73
Matrix: Water
Analysis Batch: 730180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			10/28/24 12:04	1

Lab Sample ID: HLCS 480-730180/22
Matrix: Water
Analysis Batch: 730180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.389		mg/L		97	90 - 110

Lab Sample ID: LCS 480-730180/23
Matrix: Water
Analysis Batch: 730180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.252		mg/L		101	90 - 110

Lab Sample ID: LCS 480-730180/74
Matrix: Water
Analysis Batch: 730180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.259		mg/L		104	90 - 110

Lab Sample ID: MB 480-730337/103
Matrix: Water
Analysis Batch: 730337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			10/29/24 12:53	1

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: HLCS 480-730337/22
Matrix: Water
Analysis Batch: 730337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.408		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-730337/104
Matrix: Water
Analysis Batch: 730337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.246		mg/L		98	90 - 110		

QC Association Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

GC/MS VOA

Analysis Batch: 729816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	8260C	
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	8260C	
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	8260C	
MB 480-729816/7	Method Blank	Total/NA	Water	8260C	
LCS 480-729816/5	Lab Control Sample	Total/NA	Water	8260C	
480-224726-4 MS	MW-BCP-05A-10222024	Total/NA	Water	8260C	
480-224726-4 MSD	MW-BCP-05A-10222024	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 729657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	3510C	
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	3510C	
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	3510C	
MB 480-729657/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-729657/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 729894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	8270D	729657
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	8270D	729657
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	8270D	729657
MB 480-729657/1-A	Method Blank	Total/NA	Water	8270D	729657

Analysis Batch: 730061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-729657/2-A	Lab Control Sample	Total/NA	Water	8270D	729657

Metals

Prep Batch: 729836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	7470A	
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	7470A	
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	7470A	
MB 480-729836/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-729836/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 729938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	7470A	729836
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	7470A	729836
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	7470A	729836
MB 480-729836/1-A	Method Blank	Total/NA	Water	7470A	729836
LCS 480-729836/2-A	Lab Control Sample	Total/NA	Water	7470A	729836

General Chemistry

Analysis Batch: 730180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	9012B	

General Chemistry (Continued)

Analysis Batch: 730180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	9012B	
MB 480-730180/21	Method Blank	Total/NA	Water	9012B	
MB 480-730180/73	Method Blank	Total/NA	Water	9012B	
HLCS 480-730180/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730180/23	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730180/74	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 730337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	9012B	
MB 480-730337/103	Method Blank	Total/NA	Water	9012B	
HLCS 480-730337/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730337/104	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 730523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	350.1	
480-224726-6	BATTERYSUMP-10232024	Total/NA	Water	350.1	
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	350.1	
480-224726-9	MW-BCP-08A-10232024	Total/NA	Water	350.1	
MB 480-730523/128	Method Blank	Total/NA	Water	350.1	
MB 480-730523/162	Method Blank	Total/NA	Water	350.1	
MB 480-730523/92	Method Blank	Total/NA	Water	350.1	
LCS 480-730523/129	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730523/163	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730523/93	Lab Control Sample	Total/NA	Water	350.1	
480-224726-6 MS	BATTERYSUMP-10232024	Total/NA	Water	350.1	

Analysis Batch: 730650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-1	MW-BCP-01B-10222024	Total/NA	Water	350.1	
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	350.1	
480-224726-3	MW-BCP-04B-10222024	Total/NA	Water	350.1	
480-224726-5	MW-BCP-05C-10222024	Total/NA	Water	350.1	
480-224726-8	MW-BCP-06C-10232024	Total/NA	Water	350.1	
480-224726-10	MW-BCP-08B-10232024	Total/NA	Water	350.1	
MB 480-730650/100	Method Blank	Total/NA	Water	350.1	
MB 480-730650/24	Method Blank	Total/NA	Water	350.1	
MB 480-730650/5	Method Blank	Total/NA	Water	350.1	
LCS 480-730650/101	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730650/25	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730650/6	Lab Control Sample	Total/NA	Water	350.1	

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Client Sample ID: MW-BCP-01B-10222024
Lab Sample ID: 480-224726-1
Date Collected: 10/22/24 13:18
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 21:53

Client Sample ID: MW-BCP-04A-10222024
Lab Sample ID: 480-224726-2
Date Collected: 10/22/24 13:32
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	729816	AXK	EET BUF	10/25/24 18:08
Total/NA	Prep	3510C			729657	LSC	EET BUF	10/24/24 14:02
Total/NA	Analysis	8270D		5	729894	JMM	EET BUF	10/26/24 15:18
Total/NA	Prep	7470A			729836	ESB	EET BUF	10/25/24 15:08
Total/NA	Analysis	7470A		1	729938	ESB	EET BUF	10/26/24 11:14
Total/NA	Analysis	350.1		5	730650	AM	EET BUF	10/30/24 23:33
Total/NA	Analysis	9012B		1	730180	CLT	EET BUF	10/28/24 10:00

Client Sample ID: MW-BCP-04B-10222024
Lab Sample ID: 480-224726-3
Date Collected: 10/22/24 13:40
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 21:55

Client Sample ID: MW-BCP-05A-10222024
Lab Sample ID: 480-224726-4
Date Collected: 10/22/24 12:05
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		50	729816	AXK	EET BUF	10/25/24 18:31
Total/NA	Prep	3510C			729657	LSC	EET BUF	10/24/24 14:02
Total/NA	Analysis	8270D		5	729894	JMM	EET BUF	10/26/24 15:46
Total/NA	Prep	7470A			729836	ESB	EET BUF	10/25/24 15:08
Total/NA	Analysis	7470A		1	729938	ESB	EET BUF	10/26/24 11:15
Total/NA	Analysis	350.1		90	730523	AM	EET BUF	10/30/24 14:53
Total/NA	Analysis	9012B		20	730337	CLT	EET BUF	10/29/24 13:09

Client Sample ID: MW-BCP-05C-10222024
Lab Sample ID: 480-224726-5
Date Collected: 10/22/24 14:25
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 22:01

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Client Sample ID: BATTERYSUMP-10232024
Lab Sample ID: 480-224726-6
Date Collected: 10/23/24 09:40
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		20	730523	AM	EET BUF	10/30/24 12:27

Client Sample ID: MW-BCP-06A-10232024
Lab Sample ID: 480-224726-7
Date Collected: 10/23/24 10:15
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	729816	AXK	EET BUF	10/25/24 18:54
Total/NA	Prep	3510C			729657	LSC	EET BUF	10/24/24 14:02
Total/NA	Analysis	8270D		1	729894	JMM	EET BUF	10/26/24 16:13
Total/NA	Prep	7470A			729836	ESB	EET BUF	10/25/24 15:08
Total/NA	Analysis	7470A		1	729938	ESB	EET BUF	10/26/24 11:48
Total/NA	Analysis	350.1		5	730523	AM	EET BUF	10/29/24 22:35
Total/NA	Analysis	9012B		1	730180	CLT	EET BUF	10/28/24 10:07

Client Sample ID: MW-BCP-06C-10232024
Lab Sample ID: 480-224726-8
Date Collected: 10/23/24 10:20
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 22:02

Client Sample ID: MW-BCP-08A-10232024
Lab Sample ID: 480-224726-9
Date Collected: 10/23/24 10:50
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		5	730523	AM	EET BUF	10/29/24 22:35

Client Sample ID: MW-BCP-08B-10232024
Lab Sample ID: 480-224726-10
Date Collected: 10/23/24 11:05
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 22:03

Laboratory References:

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

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

Method Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

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: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224726-1	MW-BCP-01B-10222024	Water	10/22/24 13:18	10/23/24 13:38
480-224726-2	MW-BCP-04A-10222024	Water	10/22/24 13:32	10/23/24 13:38
480-224726-3	MW-BCP-04B-10222024	Water	10/22/24 13:40	10/23/24 13:38
480-224726-4	MW-BCP-05A-10222024	Water	10/22/24 12:05	10/23/24 13:38
480-224726-5	MW-BCP-05C-10222024	Water	10/22/24 14:25	10/23/24 13:38
480-224726-6	BATTERYSUMP-10232024	Water	10/23/24 09:40	10/23/24 13:38
480-224726-7	MW-BCP-06A-10232024	Water	10/23/24 10:15	10/23/24 13:38
480-224726-8	MW-BCP-06C-10232024	Water	10/23/24 10:20	10/23/24 13:38
480-224726-9	MW-BCP-08A-10232024	Water	10/23/24 10:50	10/23/24 13:38
480-224726-10	MW-BCP-08B-10232024	Water	10/23/24 11:05	10/23/24 13:38

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Austin Oare / Corey Bryerton	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-199914-41224.1
Client Contact: Mr. Austin Oare	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: NY	Page: Page ~~1 of 10~~
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): Standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: austin.oare@inventumeng.com	WO #:			
Project Name: Ammonia SCO	Project #: 48028091			
Site: 3875 River Rd.	SSOW#:			

John.Black@Inventumeng.com
Peter.Zaffram@Inventumeng.com

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~8260C - (MOD) TCL 1st OLM04.2~~ Ammonia	~~9012B_NP - Local Method~~ VOCs	~~8270D - (MOD) TCL SVOA OLM04.2~~ SVOCs	~~7470A - Local Method~~ Total Cyanide	~~350.1 - (MOD) Local Method~~ Total Mercury	~~360.1 - (MOD) Local Method~~	~~7471B, 9045D, Moisture~~	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	B	N	D	S	N	N		
MW-BCP-01B-10222024	10/22/24	1:18	G	Water			X							1	
MW-BCP-04A-10222024	10/22/24	1:32	G	Water			X	X	X	X	X			8	
MW-BCP-04B-10222024	10/22/24	1:40	G	Water			X							1	
MW-BCP-05A-10222024	10/22/24	12:05	G	Water			X	X	X	X	X			8	
MW-BCP-05C-10222024	10/22/24	2:25	G	Water			X							1	
BATTERYSUMP-10232024	10/23/24	9:40	G	Water			X							1	
MW-BCP-06A-10232024	10/23/24	10:15	G	Water			X	X	X	X	X			8	
MW-BCP-06C-10232024	10/23/24	10:20	G	Water			X							1	
MW-BCP-08A-10232024	10/23/24	10:30	G	Water			X							1	
MW-BCP-08B-10232024	10/23/24	11:05	G	Water			X							1	
				Water											

Preservation Codes:
A - HCL
B - NaOH
N - None
D - HNO3
S - H2SO4
Other:

480-224726 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if sample
☐ Return To Client ☐ Disposal By Lab

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Austin Oare	10/23/2024		[illegible]	10-23-24 1338	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time: [illegible]	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.8 ~~7.0~~ IR#5C ICE

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 480-224726-1

Login Number: 224726
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

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	3.8 ICE IR# SC
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.	False	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Austin Oare
Inventum Engineering LLC
441 Carlisle Drive
Suite C
Herndon VA 20170

Generated 11/04/2024

JOB DESCRIPTION

Ammonia SCO

JOB NUMBER

480-224869-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

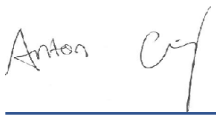
Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
11/04/2024

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Job Narrative
480-224869-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/25/2024 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.7°C and 4.4°C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10) and MW-BCP-19A-10252024 (480-224869-19). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-BCP-10A-10242024 (480-224869-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-730696 recovered outside acceptance criteria, low biased, for Carbon Disulfide. 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. The following associated sample is impacted: MW-BCP-10A-10242024 (480-224869-3).

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-BCP-13B-10252024 (480-224869-10).

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

GC/MS Semi VOA
Method 8270D: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-BCP-10A-10242024 (480-224869-3). The reporting limits (RLs) have been adjusted proportionately.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9) and MW-BCP-13B-10252024 (480-224869-10). Elevated reporting limits (RL) are provided.

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-730138 and analytical batch 480-730212 recovered outside control limits for the following analytes: 4-Nitrophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following associated samples are impacted: MW-BCP-09A-10252024 (480-224869-1), MW-BCP-10A-10242024 (480-224869-3), MW-BCP-11A-10242024 (480-224869-5), MW-BCP-12A-10242024 (480-224869-7), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-BCP-24A-10252024 (480-224869-11), MW-BCP-25A-10252024 (480-224869-12), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-21A-10252024 (480-224869-18).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-730212 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. 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. The following associated samples are impacted: MW-BCP-09A-10252024 (480-224869-1), MW-BCP-10A-10242024 (480-224869-3), MW-BCP-11A-10242024 (480-224869-5), MW-BCP-12A-10242024 (480-224869-7), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-

BCP-24A-10252024 (480-224869-11), MW-BCP-25A-10252024 (480-224869-12), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-21A-10252024 (480-224869-18).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-730212 recovered above the upper control limit for bis (2-chloroisopropyl) ether, 2-Nitroaniline and 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-BCP-09A-10252024 (480-224869-1), MW-BCP-10A-10242024 (480-224869-3), MW-BCP-11A-10242024 (480-224869-5), MW-BCP-12A-10242024 (480-224869-7), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-BCP-24A-10252024 (480-224869-11), MW-BCP-25A-10252024 (480-224869-12), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-21A-10252024 (480-224869-18).

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Atrazine. The laboratory control sample (LCS) associated with preparation batch 480-730138 and analytical batch 480-730212 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

Method 8270D: Surrogate recovery for the following sample was outside control limits: MW-BCP-10A-10242024 (480-224869-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-19A-10252024 (480-224869-19). Elevated reporting limits (RLs) are provided.

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-730138 and analytical batch 480-730403 recovered outside control limits for the following analytes: 4-Nitrophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following associated samples are impacted: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-19A-10252024 (480-224869-19).

Method 8270D: The following samples were diluted due to the abundance of target analytes: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10) and MW-BCP-19A-10252024 (480-224869-19). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-730403 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. 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. The following associated samples are impacted: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-19A-10252024 (480-224869-19).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-730403 recovered above the upper control limit for bis (2-chloroisopropyl) ether, 4-Nitrophenol, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-19A-10252024 (480-224869-19).

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

Metals

Method 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples(s): MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9) and MW-BCP-24B-10252024 (480-224869-17). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample(s) was prepared and analyzed at a 3x dilution, which maintained the purple color during digestion.

Method 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples(s): MW-BCP-11A-10242024 (480-224869-5), MW-BCP-13B-10252024

(480-224869-10), MW-BCP-24A-10252024 (480-224869-11), MW-BCP-19B-10252024 (480-224869-13), MW-BCP-25B-10252024 (480-224869-15) and MW-BCP-19A-10252024 (480-224869-19). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample(s) was prepared and analyzed at a 2x dilution, which maintained the purple color during digestion.

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

General Chemistry
Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-730651 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Sample Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224869-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224869-1	MW-BCP-09A-10252024	Water	10/25/24 16:30	10/25/24 16:30
480-224869-2	MW-BCP-09B-10242024	Water	10/24/24 02:25	10/25/24 16:30
480-224869-3	MW-BCP-10A-10242024	Water	10/24/24 10:40	10/25/24 16:30
480-224869-4	MW-BCP-10C-10242024	Water	10/24/24 10:55	10/25/24 16:30
480-224869-5	MW-BCP-11A-10242024	Water	10/24/24 11:35	10/25/24 16:30
480-224869-6	MW-BCP-11B-10242024	Water	10/24/24 01:00	10/25/24 16:30
480-224869-7	MW-BCP-12A-10242024	Water	10/24/24 03:15	10/25/24 16:30
480-224869-8	MW-BCP-12B-10242024	Water	10/24/24 03:10	10/25/24 16:30
480-224869-9	MW-BCP-13A-10252024	Water	10/25/24 08:50	10/25/24 16:30
480-224869-10	MW-BCP-13B-10252024	Water	10/25/24 09:10	10/25/24 16:30
480-224869-11	MW-BCP-24A-10252024	Water	10/25/24 09:35	10/25/24 16:30
480-224869-12	MW-BCP-25A-10252024	Water	10/25/24 02:05	10/25/24 16:30
480-224869-13	MW-BCP-19B-10252024	Water	10/25/24 09:55	10/25/24 16:30
480-224869-14	MW-BCP-22A-10252024	Water	10/25/24 11:30	10/25/24 16:30
480-224869-15	MW-BCP-25B-10252024	Water	10/25/24 02:15	10/25/24 16:30
480-224869-16	MW-BCP-23A-10252024	Water	10/25/24 11:45	10/25/24 16:30
480-224869-17	MW-BCP-24B-10252024	Water	10/25/24 01:20	10/25/24 16:30
480-224869-18	MW-BCP-21A-10252024	Water	10/25/24 11:00	10/25/24 16:30
480-224869-19	MW-BCP-19A-10252024	Water	10/25/24 09:40	10/25/24 16:30
480-224869-20	MW-BCP-20A-10252024	Water	10/25/24 10:20	10/25/24 16:30
480-224869-21	MW-BCP-20B-10252024	Water	10/25/24 10:35	10/25/24 16:30
480-224869-22	MW-BCP-17A-10242024	Water	10/24/24 03:00	10/25/24 16:30
480-224869-23	MW-BCP-21C-10252024	Water	10/25/24 11:20	10/25/24 16:30
480-224869-24	MW-BCP-17B-10242024	Water	10/24/24 08:40	10/25/24 16:30
480-224869-25	MW-BCP-27A-10252024	Water	10/24/24 02:30	10/25/24 16:30

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224869-1

Client Sample ID: MW-BCP-09A-10252024 — Lab Sample ID: 480-224869-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.2	J	10	3.0	ug/L	1		8260C	Total/NA
Methylene Chloride	0.46	J	1.0	0.44	ug/L	1		8260C	Total/NA
Ammonia	1.7		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	1.6	B	0.050	0.021	mg/L	5		9012B	Total/NA

Client Sample ID: MW-BCP-09B-10242024 — Lab Sample ID: 480-224869-2

No Detections.

Client Sample ID: MW-BCP-10A-10242024 — Lab Sample ID: 480-224869-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	26	J	50	6.6	ug/L	5		8260C	Total/NA
Acetone	150		50	15	ug/L	5		8260C	Total/NA
Benzene	1500	E	5.0	2.1	ug/L	5		8260C	Total/NA
Cyclohexane	0.93	J	5.0	0.90	ug/L	5		8260C	Total/NA
Ethylbenzene	70		5.0	3.7	ug/L	5		8260C	Total/NA
Methylene Chloride	6.0		5.0	2.2	ug/L	5		8260C	Total/NA
Styrene	330		5.0	3.7	ug/L	5		8260C	Total/NA
Toluene	1800	E	5.0	2.6	ug/L	5		8260C	Total/NA
Xylenes, Total	1500	E	10	3.3	ug/L	5		8260C	Total/NA
1,2-Dibromo-3-Chloropropane - DL	160		50	20	ug/L	50		8260C	Total/NA
Acetone - DL	190	J	500	150	ug/L	50		8260C	Total/NA
Benzene - DL	1500		50	21	ug/L	50		8260C	Total/NA
Ethylbenzene - DL	78		50	37	ug/L	50		8260C	Total/NA
Methylene Chloride - DL	69		50	22	ug/L	50		8260C	Total/NA
Styrene - DL	310		50	37	ug/L	50		8260C	Total/NA
Toluene - DL	1900		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total - DL	1500		100	33	ug/L	50		8260C	Total/NA
Biphenyl	86	J	250	33	ug/L	10		8270D	Total/NA
2,4-Dimethylphenol	5300	E	250	25	ug/L	10		8270D	Total/NA
2-Methylnaphthalene	1000		250	30	ug/L	10		8270D	Total/NA
2-Methylphenol	6500	E	250	20	ug/L	10		8270D	Total/NA
4-Methylphenol	7500	E	500	18	ug/L	10		8270D	Total/NA
Acenaphthene	40	J	250	21	ug/L	10		8270D	Total/NA
Acenaphthylene	720		250	19	ug/L	10		8270D	Total/NA
Anthracene	100	J	250	14	ug/L	10		8270D	Total/NA
Benzo(a)anthracene	73	J	250	18	ug/L	10		8270D	Total/NA
Benzo(a)pyrene	49	J	250	24	ug/L	10		8270D	Total/NA
Benzo(b)fluoranthene	62	J	250	17	ug/L	10		8270D	Total/NA
Benzo(g,h,i)perylene	25	J	250	18	ug/L	10		8270D	Total/NA
Carbazole	530		250	15	ug/L	10		8270D	Total/NA
Chrysene	68	J	250	17	ug/L	10		8270D	Total/NA
Dibenzofuran	210	J	500	26	ug/L	10		8270D	Total/NA
Fluoranthene	190	J	250	20	ug/L	10		8270D	Total/NA
Fluorene	280		250	18	ug/L	10		8270D	Total/NA
Indeno(1,2,3-cd)pyrene	24	J	250	24	ug/L	10		8270D	Total/NA
Naphthalene	13000	E	250	38	ug/L	10		8270D	Total/NA
Phenanthrene	420		250	22	ug/L	10		8270D	Total/NA
Phenol	3100		250	20	ug/L	10		8270D	Total/NA
Pyrene	130	J	250	17	ug/L	10		8270D	Total/NA
2,4-Dimethylphenol - DL	5300		2500	250	ug/L	100		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-BCP-10A-10242024 (Continued) — Lab Sample ID: 480-224869-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene - DL	1100	J	2500	300	ug/L	100		8270D	Total/NA
2-Methylphenol - DL	5900		2500	200	ug/L	100		8270D	Total/NA
4-Methylphenol - DL	7200		5000	180	ug/L	100		8270D	Total/NA
Acenaphthylene - DL	660	J	2500	190	ug/L	100		8270D	Total/NA
Carbazole - DL	500	J	2500	150	ug/L	100		8270D	Total/NA
Fluorene - DL	280	J	2500	180	ug/L	100		8270D	Total/NA
Naphthalene - DL	17000		2500	380	ug/L	100		8270D	Total/NA
Phenanthrene - DL	420	J	2500	220	ug/L	100		8270D	Total/NA
Phenol - DL	2900		2500	200	ug/L	100		8270D	Total/NA
Mercury	0.00016	J	0.00060	0.00013	mg/L	1		7470A	Total/NA
Ammonia	223		10.0	4.5	mg/L	500		350.1	Total/NA
Cyanide, Total	1.8	B	0.050	0.021	mg/L	5		9012B	Total/NA

Client Sample ID: MW-BCP-10C-10242024 — Lab Sample ID: 480-224869-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.17	F1	0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: MW-BCP-11A-10242024 — Lab Sample ID: 480-224869-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(b)fluoranthene	0.48	J	5.0	0.34	ug/L	1		8270D	Total/NA
Ammonia	0.18		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.12		0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-11B-10242024 — Lab Sample ID: 480-224869-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.047		0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: MW-BCP-12A-10242024 — Lab Sample ID: 480-224869-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.49	J	1.0	0.44	ug/L	1		8260C	Total/NA
Acenaphthene	0.46	J	5.0	0.41	ug/L	1		8270D	Total/NA
Anthracene	0.40	J	5.0	0.28	ug/L	1		8270D	Total/NA
Benzo(a)anthracene	0.68	J	5.0	0.36	ug/L	1		8270D	Total/NA
Benzo(a)pyrene	0.78	J	5.0	0.47	ug/L	1		8270D	Total/NA
Benzo(b)fluoranthene	0.86	J	5.0	0.34	ug/L	1		8270D	Total/NA
Benzo(g,h,i)perylene	0.51	J	5.0	0.35	ug/L	1		8270D	Total/NA
Chrysene	0.75	J	5.0	0.33	ug/L	1		8270D	Total/NA
Fluoranthene	1.7	J	5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	0.64	J	5.0	0.36	ug/L	1		8270D	Total/NA
Phenanthrene	1.2	J	5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	1.3	J	5.0	0.34	ug/L	1		8270D	Total/NA
Mercury	0.00043		0.00020	0.000042	mg/L	1		7470A	Total/NA
Ammonia	0.073		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	1.2	B	0.050	0.021	mg/L	5		9012B	Total/NA

Client Sample ID: MW-BCP-12B-10242024 — Lab Sample ID: 480-224869-8

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224869-1

Client Sample ID: MW-BCP-13A-10252024 — Lab Sample ID: 480-224869-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2600		100	41	ug/L	100		8260C	Total/NA
Methylene Chloride	87	J	100	44	ug/L	100		8260C	Total/NA
Toluene	940		100	51	ug/L	100		8260C	Total/NA
Xylenes, Total	520		200	66	ug/L	100		8260C	Total/NA
2,4-Dimethylphenol	8800		2500	250	ug/L	500		8270D	Total/NA
2-Methylnaphthalene	570	J	2500	300	ug/L	500		8270D	Total/NA
2-Methylphenol	12000		2500	200	ug/L	500		8270D	Total/NA
4-Methylphenol	28000		5000	180	ug/L	500		8270D	Total/NA
Acenaphthylene	280	J	2500	190	ug/L	500		8270D	Total/NA
Carbazole	170	J	2500	150	ug/L	500		8270D	Total/NA
Naphthalene	11000		2500	380	ug/L	500		8270D	Total/NA
Phenol	4800		2500	200	ug/L	500		8270D	Total/NA
Ammonia	7.8		0.10	0.045	mg/L	5		350.1	Total/NA
Cyanide, Total	0.62	B	0.020	0.0082	mg/L	2		9012B	Total/NA

Client Sample ID: MW-BCP-13B-10252024 — Lab Sample ID: 480-224869-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.6	J	20	6.0	ug/L	2		8260C	Total/NA
Benzene	53		2.0	0.82	ug/L	2		8260C	Total/NA
Ethylbenzene	11		2.0	1.5	ug/L	2		8260C	Total/NA
Methylene Chloride	2.6		2.0	0.88	ug/L	2		8260C	Total/NA
Styrene	3.6		2.0	1.5	ug/L	2		8260C	Total/NA
Toluene	39		2.0	1.0	ug/L	2		8260C	Total/NA
Xylenes, Total	100		4.0	1.3	ug/L	2		8260C	Total/NA
Biphenyl	60		25	3.3	ug/L	5		8270D	Total/NA
2,4-Dimethylphenol	10	J	25	2.5	ug/L	5		8270D	Total/NA
2-Methylnaphthalene	66		25	3.0	ug/L	5		8270D	Total/NA
2-Methylphenol	11	J	25	2.0	ug/L	5		8270D	Total/NA
4-Methylphenol	21	J	50	1.8	ug/L	5		8270D	Total/NA
Acenaphthene	24	J	25	2.1	ug/L	5		8270D	Total/NA
Acenaphthylene	250		25	1.9	ug/L	5		8270D	Total/NA
Anthracene	29		25	1.4	ug/L	5		8270D	Total/NA
Benzo(a)anthracene	7.9	J	25	1.8	ug/L	5		8270D	Total/NA
Benzo(a)pyrene	5.4	J	25	2.4	ug/L	5		8270D	Total/NA
Benzo(b)fluoranthene	6.1	J	25	1.7	ug/L	5		8270D	Total/NA
Benzo(g,h,i)perylene	2.6	J	25	1.8	ug/L	5		8270D	Total/NA
Carbazole	100		25	1.5	ug/L	5		8270D	Total/NA
Chrysene	6.7	J	25	1.7	ug/L	5		8270D	Total/NA
Dibenzofuran	130		50	2.6	ug/L	5		8270D	Total/NA
Fluoranthene	41		25	2.0	ug/L	5		8270D	Total/NA
Fluorene	130		25	1.8	ug/L	5		8270D	Total/NA
Indeno(1,2,3-cd)pyrene	2.6	J	25	2.4	ug/L	5		8270D	Total/NA
Naphthalene	3000	E	25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene	180		25	2.2	ug/L	5		8270D	Total/NA
Pyrene	27		25	1.7	ug/L	5		8270D	Total/NA
Acenaphthylene - DL	210	J	2500	190	ug/L	500		8270D	Total/NA
Naphthalene - DL	13000		2500	380	ug/L	500		8270D	Total/NA
Mercury	0.00099		0.00040	0.000084	mg/L	1		7470A	Total/NA
Ammonia	0.24	F1	0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.28		0.010	0.0041	mg/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224869-1

Client Sample ID: MW-BCP-24A-10252024 — Lab Sample ID: 480-224869-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.16	J	1.0	0.16	ug/L	1		8260C	Total/NA
2-Methylphenol	0.86	J	5.0	0.40	ug/L	1		8270D	Total/NA
4-Methylphenol	1.5	J	10	0.36	ug/L	1		8270D	Total/NA
Naphthalene	3.8	J	5.0	0.76	ug/L	1		8270D	Total/NA
Phenol	0.49	J	5.0	0.39	ug/L	1		8270D	Total/NA
Mercury	0.00061		0.00040	0.000084	mg/L	1		7470A	Total/NA
Ammonia	1.0		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.12		0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-25A-10252024 — Lab Sample ID: 480-224869-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.46	J	1.0	0.44	ug/L	1		8260C	Total/NA
2-Methylphenol	0.42	J	5.2	0.42	ug/L	1		8270D	Total/NA
4-Methylphenol	0.61	J	10	0.38	ug/L	1		8270D	Total/NA
Benzo(b)fluoranthene	0.35	J	5.2	0.35	ug/L	1		8270D	Total/NA
Naphthalene	1.9	J	5.2	0.79	ug/L	1		8270D	Total/NA
Mercury	0.000050	J	0.00020	0.000042	mg/L	1		7470A	Total/NA
Ammonia	5.1	B	0.10	0.045	mg/L	5		350.1	Total/NA
Cyanide, Total	1.4	B	0.050	0.021	mg/L	5		9012B	Total/NA

Client Sample ID: MW-BCP-19B-10252024 — Lab Sample ID: 480-224869-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.0		1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	0.21	J	1.0	0.19	ug/L	1		8260C	Total/NA
Ethylbenzene	1.4		1.0	0.74	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.24	J	1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	2.4		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	6.0		2.0	0.66	ug/L	1		8260C	Total/NA
Biphenyl	14		5.0	0.65	ug/L	1		8270D	Total/NA
2,4-Dimethylphenol	0.53	J	5.0	0.50	ug/L	1		8270D	Total/NA
2-Methylnaphthalene	1.1	J	5.0	0.60	ug/L	1		8270D	Total/NA
2-Methylphenol	0.49	J	5.0	0.40	ug/L	1		8270D	Total/NA
4-Methylphenol	0.92	J	10	0.36	ug/L	1		8270D	Total/NA
Acenaphthene	8.8		5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	51		5.0	0.38	ug/L	1		8270D	Total/NA
Anthracene	15		5.0	0.28	ug/L	1		8270D	Total/NA
Benzo(a)anthracene	2.3	J	5.0	0.36	ug/L	1		8270D	Total/NA
Benzo(a)pyrene	1.5	J	5.0	0.47	ug/L	1		8270D	Total/NA
Benzo(b)fluoranthene	1.8	J	5.0	0.34	ug/L	1		8270D	Total/NA
Benzo(g,h,i)perylene	0.75	J	5.0	0.35	ug/L	1		8270D	Total/NA
Carbazole	27		5.0	0.30	ug/L	1		8270D	Total/NA
Chrysene	2.2	J	5.0	0.33	ug/L	1		8270D	Total/NA
Dibenzofuran	48		10	0.51	ug/L	1		8270D	Total/NA
Fluoranthene	22		5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	68	E	5.0	0.36	ug/L	1		8270D	Total/NA
Indeno(1,2,3-cd)pyrene	0.66	J	5.0	0.47	ug/L	1		8270D	Total/NA
Naphthalene	6.4		5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	78	E	5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	14		5.0	0.34	ug/L	1		8270D	Total/NA
Biphenyl - DL	13	J	25	3.3	ug/L	5		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-BCP-19B-10252024 (Continued) — Lab Sample ID: 480-224869-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene - DL	8.8	J	25	2.1	ug/L	5		8270D	Total/NA
Acenaphthylene - DL	49		25	1.9	ug/L	5		8270D	Total/NA
Anthracene - DL	14	J	25	1.4	ug/L	5		8270D	Total/NA
Benzo(a)anthracene - DL	2.5	J	25	1.8	ug/L	5		8270D	Total/NA
Benzo(b)fluoranthene - DL	2.2	J	25	1.7	ug/L	5		8270D	Total/NA
Carbazole - DL	26		25	1.5	ug/L	5		8270D	Total/NA
Chrysene - DL	2.5	J	25	1.7	ug/L	5		8270D	Total/NA
Dibenzofuran - DL	45	J	50	2.6	ug/L	5		8270D	Total/NA
Fluoranthene - DL	23	J	25	2.0	ug/L	5		8270D	Total/NA
Fluorene - DL	63		25	1.8	ug/L	5		8270D	Total/NA
Naphthalene - DL	6.6	J	25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene - DL	79		25	2.2	ug/L	5		8270D	Total/NA
Pyrene - DL	15	J	25	1.7	ug/L	5		8270D	Total/NA
Mercury	0.00018	J	0.00040	0.000084	mg/L	1		7470A	Total/NA
Ammonia	0.20		0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: MW-BCP-22A-10252024 — Lab Sample ID: 480-224869-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.000053	J	0.00020	0.000042	mg/L	1		7470A	Total/NA
Ammonia	0.96		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.042	F1 B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-25B-10252024 — Lab Sample ID: 480-224869-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.25		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.019	F1 B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-23A-10252024 — Lab Sample ID: 480-224869-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.000062	J	0.00020	0.000042	mg/L	1		7470A	Total/NA
Ammonia	1.1		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.26	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-24B-10252024 — Lab Sample ID: 480-224869-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00016	J	0.00060	0.00013	mg/L	1		7470A	Total/NA
Ammonia	0.30	F1 F2	0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.058	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-21A-10252024 — Lab Sample ID: 480-224869-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.2	J	10	3.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	0.69	J	1.0	0.16	ug/L	1		8260C	Total/NA
2-Methylphenol	0.47	J	5.2	0.42	ug/L	1		8270D	Total/NA
4-Methylphenol	0.70	J	10	0.38	ug/L	1		8270D	Total/NA
Carbazole	0.66	J	5.2	0.31	ug/L	1		8270D	Total/NA
Fluoranthene	0.43	J	5.2	0.42	ug/L	1		8270D	Total/NA
Naphthalene	1.8	J	5.2	0.79	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-BCP-21A-10252024 (Continued) — Lab Sample ID: 480-224869-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.40	J	5.2	0.35	ug/L	1		8270D	Total/NA
Ammonia	1.5		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.020	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-19A-10252024 — Lab Sample ID: 480-224869-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	180		8.0	3.3	ug/L	8		8260C	Total/NA
Ethylbenzene	9.6		8.0	5.9	ug/L	8		8260C	Total/NA
Methylene Chloride	12		8.0	3.5	ug/L	8		8260C	Total/NA
Toluene	56		8.0	4.1	ug/L	8		8260C	Total/NA
Xylenes, Total	220		16	5.3	ug/L	8		8260C	Total/NA
2,4-Dimethylphenol	530	J	1500	150	ug/L	300		8270D	Total/NA
2-Methylnaphthalene	370	J	1500	180	ug/L	300		8270D	Total/NA
2-Methylphenol	410	J	1500	120	ug/L	300		8270D	Total/NA
Carbazole	110	J	1500	90	ug/L	300		8270D	Total/NA
Naphthalene	5800		1500	230	ug/L	300		8270D	Total/NA
Ammonia	37.0		0.51	0.23	mg/L	25.71		350.1	Total/NA

Client Sample ID: MW-BCP-20A-10252024 — Lab Sample ID: 480-224869-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.17		0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: MW-BCP-20B-10252024 — Lab Sample ID: 480-224869-21

No Detections.

Client Sample ID: MW-BCP-17A-10242024 — Lab Sample ID: 480-224869-22

No Detections.

Client Sample ID: MW-BCP-21C-10252024 — Lab Sample ID: 480-224869-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.34		0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: MW-BCP-17B-10242024 — Lab Sample ID: 480-224869-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.049		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.0075	J F1 B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-27A-10252024 — Lab Sample ID: 480-224869-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0015		0.00020	0.000042	mg/L	1		7470A	Total/NA
Ammonia	1.1		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	16.8	B	0.50	0.21	mg/L	50		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Inventum Engineering LLC
Job ID: 480-224869-1
Project/Site: Ammonia SCO

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Client Sample ID: MW-BCP-09A-10252024

Date Collected: 10/25/24 16:30
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 05:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 05:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 05:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 05:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 05:16	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 05:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 05:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 05:16	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 05:16	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 05:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 05:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 05:16	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 05:16	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 05:16	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 05:16	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 05:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 05:16	1
Acetone	**7.2**	**J**	10	3.0	ug/L			10/31/24 05:16	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 05:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 05:16	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 05:16	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 05:16	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 05:16	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 05:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 05:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 05:16	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 05:16	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 05:16	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 05:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 05:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 05:16	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 05:16	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 05:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 05:16	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 05:16	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 05:16	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/24 05:16	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 05:16	1
Methylene Chloride	**0.46**	**J**	1.0	0.44	ug/L			10/31/24 05:16	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 05:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 05:16	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 05:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 05:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 05:16	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 05:16	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 05:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 05:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 05:16	1

Client Sample ID: MW-BCP-09A-10252024

Date Collected: 10/25/24 16:30
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/31/24 05:16*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/31/24 05:16*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*10/31/24 05:16*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*10/31/24 05:16*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.2	0.68	ug/L		10/28/24 14:16	10/29/24 19:01	1
bis (2-chloroisopropyl) ether	ND		5.2	0.54	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,4,5-Trichlorophenol	ND		5.2	0.50	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,4,6-Trichlorophenol	ND		5.2	0.64	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,4-Dichlorophenol	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,4-Dinitrophenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,4-Dinitrotoluene	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,6-Dinitrotoluene	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 19:01	1
2-Chloronaphthalene	ND		5.2	0.48	ug/L		10/28/24 14:16	10/29/24 19:01	1
2-Chlorophenol	ND		5.2	0.55	ug/L		10/28/24 14:16	10/29/24 19:01	1
2-Methylnaphthalene	ND		5.2	0.63	ug/L		10/28/24 14:16	10/29/24 19:01	1
2-Methylphenol	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 19:01	1
2-Nitroaniline	ND		10	0.44	ug/L		10/28/24 14:16	10/29/24 19:01	1
2-Nitrophenol	ND		5.2	0.50	ug/L		10/28/24 14:16	10/29/24 19:01	1
3,3'-Dichlorobenzidine	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 19:01	1
3-Nitroaniline	ND		10	0.50	ug/L		10/28/24 14:16	10/29/24 19:01	1
4,6-Dinitro-2-methylphenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Bromophenyl phenyl ether	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Chloro-3-methylphenol	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Chloroaniline	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Chlorophenyl phenyl ether	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Methylphenol	ND		10	0.38	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Nitroaniline	ND		10	0.26	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Nitrophenol	ND	*+	10	1.6	ug/L		10/28/24 14:16	10/29/24 19:01	1
Acenaphthene	ND		5.2	0.43	ug/L		10/28/24 14:16	10/29/24 19:01	1
Acenaphthylene	ND		5.2	0.40	ug/L		10/28/24 14:16	10/29/24 19:01	1
Acetophenone	ND		5.2	0.56	ug/L		10/28/24 14:16	10/29/24 19:01	1
Anthracene	ND		5.2	0.29	ug/L		10/28/24 14:16	10/29/24 19:01	1
Atrazine	ND		5.2	0.48	ug/L		10/28/24 14:16	10/29/24 19:01	1
Benzaldehyde	ND		5.2	0.28	ug/L		10/28/24 14:16	10/29/24 19:01	1
Benzo(a)anthracene	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 19:01	1
Benzo(a)pyrene	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 19:01	1
Benzo(b)fluoranthene	ND		5.2	0.35	ug/L		10/28/24 14:16	10/29/24 19:01	1
Benzo(g,h,i)perylene	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 19:01	1
Benzo(k)fluoranthene	ND		5.2	0.76	ug/L		10/28/24 14:16	10/29/24 19:01	1
Bis(2-chloroethoxy)methane	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 19:01	1
Bis(2-chloroethyl)ether	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 19:01	1
Bis(2-ethylhexyl) phthalate	ND		5.2	2.3	ug/L		10/28/24 14:16	10/29/24 19:01	1
Butyl benzyl phthalate	ND		5.2	1.0	ug/L		10/28/24 14:16	10/29/24 19:01	1
Caprolactam	ND		5.2	2.3	ug/L		10/28/24 14:16	10/29/24 19:01	1
Carbazole	ND		5.2	0.31	ug/L		10/28/24 14:16	10/29/24 19:01	1
Chrysene	ND		5.2	0.34	ug/L		10/28/24 14:16	10/29/24 19:01	1

Client Sample ID: MW-BCP-09A-10252024

Lab Sample ID: 480-224869-1

Date Collected: 10/25/24 16:30

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		5.2	0.32	ug/L		10/28/24 14:16	10/29/24 19:01	1
Di-n-octyl phthalate	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 19:01	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		10/28/24 14:16	10/29/24 19:01	1
Dibenzofuran	ND		10	0.53	ug/L		10/28/24 14:16	10/29/24 19:01	1
Diethyl phthalate	ND		5.2	0.23	ug/L		10/28/24 14:16	10/29/24 19:01	1
Dimethyl phthalate	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 19:01	1
Fluoranthene	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 19:01	1
Fluorene	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 19:01	1
Hexachlorobenzene	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 19:01	1
Hexachlorobutadiene	ND		5.2	0.71	ug/L		10/28/24 14:16	10/29/24 19:01	1
Hexachlorocyclopentadiene	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 19:01	1
Hexachloroethane	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 19:01	1
Indeno(1,2,3-cd)pyrene	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 19:01	1
Isophorone	ND		5.2	0.45	ug/L		10/28/24 14:16	10/29/24 19:01	1
N-Nitrosodi-n-propylamine	ND		5.2	0.56	ug/L		10/28/24 14:16	10/29/24 19:01	1
N-Nitrosodiphenylamine	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 19:01	1
Naphthalene	ND		5.2	0.79	ug/L		10/28/24 14:16	10/29/24 19:01	1
Nitrobenzene	ND		5.2	0.30	ug/L		10/28/24 14:16	10/29/24 19:01	1
Pentachlorophenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 19:01	1
Phenanthrene	ND		5.2	0.46	ug/L		10/28/24 14:16	10/29/24 19:01	1
Phenol	ND		5.2	0.41	ug/L		10/28/24 14:16	10/29/24 19:01	1
Pyrene	ND		5.2	0.35	ug/L		10/28/24 14:16	10/29/24 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*66*		*25 - 144*	*10/28/24 14:16*	*10/29/24 19:01*	*1*
2-Fluorobiphenyl	*68*		*53 - 126*	*10/28/24 14:16*	*10/29/24 19:01*	*1*
2-Fluorophenol	*56*		*24 - 120*	*10/28/24 14:16*	*10/29/24 19:01*	*1*
Nitrobenzene-d5	*77*		*29 - 129*	*10/28/24 14:16*	*10/29/24 19:01*	*1*
p-Terphenyl-d14	*40*		*33 - 132*	*10/28/24 14:16*	*10/29/24 19:01*	*1*
Phenol-d5	*41*		*10 - 120*	*10/28/24 14:16*	*10/29/24 19:01*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**1.7**		0.020	0.0090	mg/L			10/31/24 09:59	1
Cyanide, Total (SW846 9012B)	**1.6**	**B**	0.050	0.021	mg/L			10/30/24 08:34	5

Client Sample ID: MW-BCP-09B-10242024

Lab Sample ID: 480-224869-2

Date Collected: 10/24/24 02:25

Matrix: Water

Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/31/24 10:00	1

Client Sample ID: MW-BCP-10A-10242024

Date Collected: 10/24/24 10:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			10/31/24 05:39	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			10/31/24 05:39	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			10/31/24 05:39	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			10/31/24 05:39	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			10/31/24 05:39	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			10/31/24 05:39	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			10/31/24 05:39	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			10/31/24 05:39	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			10/31/24 05:39	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			10/31/24 05:39	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			10/31/24 05:39	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			10/31/24 05:39	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			10/31/24 05:39	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			10/31/24 05:39	5
2-Hexanone	ND		25	6.2	ug/L			10/31/24 05:39	5
2-Butanone (MEK)	**26**	**J**	50	6.6	ug/L			10/31/24 05:39	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			10/31/24 05:39	5
Acetone	**150**		50	15	ug/L			10/31/24 05:39	5
Benzene	**1500**	**E**	5.0	2.1	ug/L			10/31/24 05:39	5
Bromodichloromethane	ND		5.0	2.0	ug/L			10/31/24 05:39	5
Bromoform	ND		5.0	1.3	ug/L			10/31/24 05:39	5
Bromomethane	ND		5.0	3.5	ug/L			10/31/24 05:39	5
Carbon disulfide	ND		5.0	0.95	ug/L			10/31/24 05:39	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			10/31/24 05:39	5
Chlorobenzene	ND		5.0	3.8	ug/L			10/31/24 05:39	5
Dibromochloromethane	ND		5.0	1.6	ug/L			10/31/24 05:39	5
Chloroethane	ND		5.0	1.6	ug/L			10/31/24 05:39	5
Chloroform	ND		5.0	1.7	ug/L			10/31/24 05:39	5
Chloromethane	ND		5.0	1.8	ug/L			10/31/24 05:39	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			10/31/24 05:39	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			10/31/24 05:39	5
Cyclohexane	**0.93**	**J**	5.0	0.90	ug/L			10/31/24 05:39	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			10/31/24 05:39	5
Ethylbenzene	**70**		5.0	3.7	ug/L			10/31/24 05:39	5
Isopropylbenzene	ND		5.0	4.0	ug/L			10/31/24 05:39	5
Methyl acetate	ND		13	6.5	ug/L			10/31/24 05:39	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			10/31/24 05:39	5
Methylcyclohexane	ND		5.0	0.80	ug/L			10/31/24 05:39	5
Methylene Chloride	**6.0**		5.0	2.2	ug/L			10/31/24 05:39	5
Styrene	**330**		5.0	3.7	ug/L			10/31/24 05:39	5
Tetrachloroethene	ND		5.0	1.8	ug/L			10/31/24 05:39	5
Toluene	**1800**	**E**	5.0	2.6	ug/L			10/31/24 05:39	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			10/31/24 05:39	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			10/31/24 05:39	5
Trichloroethene	ND		5.0	2.3	ug/L			10/31/24 05:39	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			10/31/24 05:39	5
Vinyl chloride	ND		5.0	4.5	ug/L			10/31/24 05:39	5
Xylenes, Total	**1500**	**E**	10	3.3	ug/L			10/31/24 05:39	5

Client Sample ID: MW-BCP-10A-10242024

Date Collected: 10/24/24 10:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*10/31/24 05:39*	*5*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/31/24 05:39*	*5*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*		*10/31/24 05:39*	*5*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*10/31/24 05:39*	*5*

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			11/01/24 00:29	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			11/01/24 00:29	50
1,1,2-Trichloroethane	ND		50	12	ug/L			11/01/24 00:29	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			11/01/24 00:29	50
1,1-Dichloroethane	ND		50	19	ug/L			11/01/24 00:29	50
1,1-Dichloroethene	ND		50	15	ug/L			11/01/24 00:29	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			11/01/24 00:29	50
1,2-Dibromo-3-Chloropropane	**160**		50	20	ug/L			11/01/24 00:29	50
1,2-Dibromoethane	ND		50	37	ug/L			11/01/24 00:29	50
1,2-Dichlorobenzene	ND		50	40	ug/L			11/01/24 00:29	50
1,2-Dichloroethane	ND		50	11	ug/L			11/01/24 00:29	50
1,2-Dichloropropane	ND		50	36	ug/L			11/01/24 00:29	50
1,3-Dichlorobenzene	ND		50	39	ug/L			11/01/24 00:29	50
1,4-Dichlorobenzene	ND		50	42	ug/L			11/01/24 00:29	50
2-Hexanone	ND		250	62	ug/L			11/01/24 00:29	50
2-Butanone (MEK)	ND		500	66	ug/L			11/01/24 00:29	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			11/01/24 00:29	50
Acetone	**190**	**J**	500	150	ug/L			11/01/24 00:29	50
Benzene	**1500**		50	21	ug/L			11/01/24 00:29	50
Bromodichloromethane	ND		50	20	ug/L			11/01/24 00:29	50
Bromoform	ND		50	13	ug/L			11/01/24 00:29	50
Bromomethane	ND		50	35	ug/L			11/01/24 00:29	50
Carbon disulfide	ND		50	9.5	ug/L			11/01/24 00:29	50
Carbon tetrachloride	ND		50	14	ug/L			11/01/24 00:29	50
Chlorobenzene	ND		50	38	ug/L			11/01/24 00:29	50
Dibromochloromethane	ND		50	16	ug/L			11/01/24 00:29	50
Chloroethane	ND		50	16	ug/L			11/01/24 00:29	50
Chloroform	ND		50	17	ug/L			11/01/24 00:29	50
Chloromethane	ND		50	18	ug/L			11/01/24 00:29	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			11/01/24 00:29	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			11/01/24 00:29	50
Cyclohexane	ND		50	9.0	ug/L			11/01/24 00:29	50
Dichlorodifluoromethane	ND		50	34	ug/L			11/01/24 00:29	50
Ethylbenzene	**78**		50	37	ug/L			11/01/24 00:29	50
Isopropylbenzene	ND		50	40	ug/L			11/01/24 00:29	50
Methyl acetate	ND		130	65	ug/L			11/01/24 00:29	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			11/01/24 00:29	50
Methylcyclohexane	ND		50	8.0	ug/L			11/01/24 00:29	50
Methylene Chloride	**69**		50	22	ug/L			11/01/24 00:29	50
Styrene	**310**		50	37	ug/L			11/01/24 00:29	50
Tetrachloroethene	ND		50	18	ug/L			11/01/24 00:29	50
Toluene	**1900**		50	26	ug/L			11/01/24 00:29	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			11/01/24 00:29	50

Client Sample ID: MW-BCP-10A-10242024

Date Collected: 10/24/24 10:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		50	19	ug/L			11/01/24 00:29	50
Trichloroethene	ND		50	23	ug/L			11/01/24 00:29	50
Trichlorofluoromethane	ND		50	44	ug/L			11/01/24 00:29	50
Vinyl chloride	ND		50	45	ug/L			11/01/24 00:29	50
Xylenes, Total	**1500**		100	33	ug/L			11/01/24 00:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*11/01/24 00:29*	*50*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/01/24 00:29*	*50*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*11/01/24 00:29*	*50*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*11/01/24 00:29*	*50*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**86**	**J**	250	33	ug/L		10/28/24 14:16	10/29/24 19:29	10
bis (2-chloroisopropyl) ether	ND		250	26	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,4,5-Trichlorophenol	ND		250	24	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,4,6-Trichlorophenol	ND		250	31	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,4-Dichlorophenol	ND		250	26	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,4-Dimethylphenol	**5300**	**E**	250	25	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,4-Dinitrophenol	ND		500	110	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,4-Dinitrotoluene	ND		250	22	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,6-Dinitrotoluene	ND		250	20	ug/L		10/28/24 14:16	10/29/24 19:29	10
2-Chloronaphthalene	ND		250	23	ug/L		10/28/24 14:16	10/29/24 19:29	10
2-Chlorophenol	ND		250	27	ug/L		10/28/24 14:16	10/29/24 19:29	10
2-Methylnaphthalene	**1000**		250	30	ug/L		10/28/24 14:16	10/29/24 19:29	10
2-Methylphenol	**6500**	**E**	250	20	ug/L		10/28/24 14:16	10/29/24 19:29	10
2-Nitroaniline	ND		500	21	ug/L		10/28/24 14:16	10/29/24 19:29	10
2-Nitrophenol	ND		250	24	ug/L		10/28/24 14:16	10/29/24 19:29	10
3,3'-Dichlorobenzidine	ND		250	20	ug/L		10/28/24 14:16	10/29/24 19:29	10
3-Nitroaniline	ND		500	24	ug/L		10/28/24 14:16	10/29/24 19:29	10
4,6-Dinitro-2-methylphenol	ND		500	110	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Bromophenyl phenyl ether	ND		250	23	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Chloro-3-methylphenol	ND		250	23	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Chloroaniline	ND		250	30	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Chlorophenyl phenyl ether	ND		250	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Methylphenol	**7500**	**E**	500	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Nitroaniline	ND		500	13	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Nitrophenol	ND	*+	500	76	ug/L		10/28/24 14:16	10/29/24 19:29	10
Acenaphthene	**40**	**J**	250	21	ug/L		10/28/24 14:16	10/29/24 19:29	10
Acenaphthylene	**720**		250	19	ug/L		10/28/24 14:16	10/29/24 19:29	10
Acetophenone	ND		250	27	ug/L		10/28/24 14:16	10/29/24 19:29	10
Anthracene	**100**	**J**	250	14	ug/L		10/28/24 14:16	10/29/24 19:29	10
Atrazine	ND		250	23	ug/L		10/28/24 14:16	10/29/24 19:29	10
Benzaldehyde	ND		250	13	ug/L		10/28/24 14:16	10/29/24 19:29	10
Benzo(a)anthracene	**73**	**J**	250	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
Benzo(a)pyrene	**49**	**J**	250	24	ug/L		10/28/24 14:16	10/29/24 19:29	10
Benzo(b)fluoranthene	**62**	**J**	250	17	ug/L		10/28/24 14:16	10/29/24 19:29	10
Benzo(g,h,i)perylene	**25**	**J**	250	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
Benzo(k)fluoranthene	ND		250	37	ug/L		10/28/24 14:16	10/29/24 19:29	10

Client Sample ID: MW-BCP-10A-10242024

Date Collected: 10/24/24 10:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-3

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		250	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
Bis(2-chloroethyl)ether	ND		250	20	ug/L		10/28/24 14:16	10/29/24 19:29	10
Bis(2-ethylhexyl) phthalate	ND		250	110	ug/L		10/28/24 14:16	10/29/24 19:29	10
Butyl benzyl phthalate	ND		250	50	ug/L		10/28/24 14:16	10/29/24 19:29	10
Caprolactam	ND		250	110	ug/L		10/28/24 14:16	10/29/24 19:29	10
Carbazole	**530**		250	15	ug/L		10/28/24 14:16	10/29/24 19:29	10
Chrysene	**68**	**J**	250	17	ug/L		10/28/24 14:16	10/29/24 19:29	10
Di-n-butyl phthalate	ND		250	16	ug/L		10/28/24 14:16	10/29/24 19:29	10
Di-n-octyl phthalate	ND		250	24	ug/L		10/28/24 14:16	10/29/24 19:29	10
Dibenz(a,h)anthracene	ND		250	21	ug/L		10/28/24 14:16	10/29/24 19:29	10
Dibenzofuran	**210**	**J**	500	26	ug/L		10/28/24 14:16	10/29/24 19:29	10
Diethyl phthalate	ND		250	11	ug/L		10/28/24 14:16	10/29/24 19:29	10
Dimethyl phthalate	ND		250	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
Fluoranthene	**190**	**J**	250	20	ug/L		10/28/24 14:16	10/29/24 19:29	10
Fluorene	**280**		250	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
Hexachlorobenzene	ND		250	26	ug/L		10/28/24 14:16	10/29/24 19:29	10
Hexachlorobutadiene	ND		250	34	ug/L		10/28/24 14:16	10/29/24 19:29	10
Hexachlorocyclopentadiene	ND		250	30	ug/L		10/28/24 14:16	10/29/24 19:29	10
Hexachloroethane	ND		250	30	ug/L		10/28/24 14:16	10/29/24 19:29	10
Indeno(1,2,3-cd)pyrene	**24**	**J**	250	24	ug/L		10/28/24 14:16	10/29/24 19:29	10
Isophorone	ND		250	22	ug/L		10/28/24 14:16	10/29/24 19:29	10
N-Nitrosodi-n-propylamine	ND		250	27	ug/L		10/28/24 14:16	10/29/24 19:29	10
N-Nitrosodiphenylamine	ND		250	26	ug/L		10/28/24 14:16	10/29/24 19:29	10
Naphthalene	**13000**	**E**	250	38	ug/L		10/28/24 14:16	10/29/24 19:29	10
Nitrobenzene	ND		250	15	ug/L		10/28/24 14:16	10/29/24 19:29	10
Pentachlorophenol	ND		500	110	ug/L		10/28/24 14:16	10/29/24 19:29	10
Phenanthrene	**420**		250	22	ug/L		10/28/24 14:16	10/29/24 19:29	10
Phenol	**3100**		250	20	ug/L		10/28/24 14:16	10/29/24 19:29	10
Pyrene	**130**	**J**	250	17	ug/L		10/28/24 14:16	10/29/24 19:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*25 - 144*	*10/28/24 14:16*	*10/29/24 19:29*	*10*
2-Fluorobiphenyl	*71*		*53 - 126*	*10/28/24 14:16*	*10/29/24 19:29*	*10*
2-Fluorophenol	*0*	*S1-*	*24 - 120*	*10/28/24 14:16*	*10/29/24 19:29*	*10*
Nitrobenzene-d5	*73*		*29 - 129*	*10/28/24 14:16*	*10/29/24 19:29*	*10*
p-Terphenyl-d14	*66*		*33 - 132*	*10/28/24 14:16*	*10/29/24 19:29*	*10*
Phenol-d5	*44*		*10 - 120*	*10/28/24 14:16*	*10/29/24 19:29*	*10*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2500	330	ug/L		10/28/24 14:16	10/30/24 11:12	100
bis (2-chloroisopropyl) ether	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,4,5-Trichlorophenol	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,4,6-Trichlorophenol	ND		2500	310	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,4-Dichlorophenol	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,4-Dimethylphenol	**5300**		2500	250	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,4-Dinitrophenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,4-Dinitrotoluene	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,6-Dinitrotoluene	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:12	100
2-Chloronaphthalene	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:12	100

Client Sample ID: MW-BCP-10A-10242024

Date Collected: 10/24/24 10:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-3

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 11:12	100
2-Methylnaphthalene	**1100**	**J**	2500	300	ug/L		10/28/24 14:16	10/30/24 11:12	100
2-Methylphenol	**5900**		2500	200	ug/L		10/28/24 14:16	10/30/24 11:12	100
2-Nitroaniline	ND		5000	210	ug/L		10/28/24 14:16	10/30/24 11:12	100
2-Nitrophenol	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:12	100
3,3'-Dichlorobenzidine	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:12	100
3-Nitroaniline	ND		5000	240	ug/L		10/28/24 14:16	10/30/24 11:12	100
4,6-Dinitro-2-methylphenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Bromophenyl phenyl ether	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Chloro-3-methylphenol	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Chloroaniline	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Chlorophenyl phenyl ether	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Methylphenol	**7200**		5000	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Nitroaniline	ND		5000	130	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Nitrophenol	ND	*+	5000	760	ug/L		10/28/24 14:16	10/30/24 11:12	100
Acenaphthene	ND		2500	210	ug/L		10/28/24 14:16	10/30/24 11:12	100
Acenaphthylene	**660**	**J**	2500	190	ug/L		10/28/24 14:16	10/30/24 11:12	100
Acetophenone	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 11:12	100
Anthracene	ND		2500	140	ug/L		10/28/24 14:16	10/30/24 11:12	100
Atrazine	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:12	100
Benzaldehyde	ND		2500	130	ug/L		10/28/24 14:16	10/30/24 11:12	100
Benzo(a)anthracene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
Benzo(a)pyrene	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:12	100
Benzo(b)fluoranthene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 11:12	100
Benzo(g,h,i)perylene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
Benzo(k)fluoranthene	ND		2500	370	ug/L		10/28/24 14:16	10/30/24 11:12	100
Bis(2-chloroethoxy)methane	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
Bis(2-chloroethyl)ether	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:12	100
Bis(2-ethylhexyl) phthalate	ND		2500	1100	ug/L		10/28/24 14:16	10/30/24 11:12	100
Butyl benzyl phthalate	ND		2500	500	ug/L		10/28/24 14:16	10/30/24 11:12	100
Caprolactam	ND		2500	1100	ug/L		10/28/24 14:16	10/30/24 11:12	100
Carbazole	**500**	**J**	2500	150	ug/L		10/28/24 14:16	10/30/24 11:12	100
Chrysene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 11:12	100
Di-n-butyl phthalate	ND		2500	160	ug/L		10/28/24 14:16	10/30/24 11:12	100
Di-n-octyl phthalate	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:12	100
Dibenz(a,h)anthracene	ND		2500	210	ug/L		10/28/24 14:16	10/30/24 11:12	100
Dibenzofuran	ND		5000	260	ug/L		10/28/24 14:16	10/30/24 11:12	100
Diethyl phthalate	ND		2500	110	ug/L		10/28/24 14:16	10/30/24 11:12	100
Dimethyl phthalate	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
Fluoranthene	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:12	100
Fluorene	**280**	**J**	2500	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
Hexachlorobenzene	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:12	100
Hexachlorobutadiene	ND		2500	340	ug/L		10/28/24 14:16	10/30/24 11:12	100
Hexachlorocyclopentadiene	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 11:12	100
Hexachloroethane	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 11:12	100
Indeno(1,2,3-cd)pyrene	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:12	100
Isophorone	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 11:12	100
N-Nitrosodi-n-propylamine	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 11:12	100
N-Nitrosodiphenylamine	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:12	100

Client Sample ID: MW-BCP-10A-10242024

Lab Sample ID: 480-224869-3

Date Collected: 10/24/24 10:40
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**17000**		2500	380	ug/L		10/28/24 14:16	10/30/24 11:12	100
Nitrobenzene	ND		2500	150	ug/L		10/28/24 14:16	10/30/24 11:12	100
Pentachlorophenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 11:12	100
Phenanthrene	**420**	**J**	2500	220	ug/L		10/28/24 14:16	10/30/24 11:12	100
Phenol	**2900**		2500	200	ug/L		10/28/24 14:16	10/30/24 11:12	100
Pyrene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 11:12	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*S1-*	*25 - 144*	*10/28/24 14:16*	*10/30/24 11:12*	*100*
2-Fluorobiphenyl	*75*		*53 - 126*	*10/28/24 14:16*	*10/30/24 11:12*	*100*
2-Fluorophenol	*0*	*S1-*	*24 - 120*	*10/28/24 14:16*	*10/30/24 11:12*	*100*
Nitrobenzene-d5	*129*		*29 - 129*	*10/28/24 14:16*	*10/30/24 11:12*	*100*
p-Terphenyl-d14	*66*		*33 - 132*	*10/28/24 14:16*	*10/30/24 11:12*	*100*
Phenol-d5	*0*	*S1-*	*10 - 120*	*10/28/24 14:16*	*10/30/24 11:12*	*100*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00016**	**J**	0.00060	0.00013	mg/L		10/30/24 12:00	10/30/24 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**223**		10.0	4.5	mg/L			10/31/24 10:01	500
Cyanide, Total (SW846 9012B)	**1.8**	**B**	0.050	0.021	mg/L			10/30/24 08:38	5

Client Sample ID: MW-BCP-10C-10242024

Lab Sample ID: 480-224869-4

Date Collected: 10/24/24 10:55
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.17**	**F1**	0.020	0.0090	mg/L			10/31/24 10:05	1

Client Sample ID: MW-BCP-11A-10242024

Lab Sample ID: 480-224869-5

Date Collected: 10/24/24 11:35
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 06:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 06:01	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 06:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 06:01	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 06:01	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 06:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 06:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 06:01	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 06:01	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 06:01	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 06:01	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 06:01	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 06:01	1

Client Sample ID: MW-BCP-11A-10242024

Date Collected: 10/24/24 11:35
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-5

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 06:01	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 06:01	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 06:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 06:01	1
Acetone	ND		10	3.0	ug/L			10/31/24 06:01	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 06:01	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 06:01	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 06:01	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 06:01	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 06:01	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 06:01	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 06:01	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 06:01	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 06:01	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 06:01	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 06:01	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 06:01	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 06:01	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 06:01	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 06:01	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 06:01	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 06:01	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 06:01	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/24 06:01	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 06:01	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/31/24 06:01	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 06:01	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 06:01	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 06:01	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 06:01	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 06:01	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 06:01	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 06:01	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 06:01	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*10/31/24 06:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/31/24 06:01*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*10/31/24 06:01*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*10/31/24 06:01*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		10/28/24 14:16	10/29/24 19:56	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/28/24 14:16	10/29/24 19:56	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 19:56	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/28/24 14:16	10/29/24 19:56	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 19:56	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/28/24 14:16	10/29/24 19:56	1

Client Sample ID: MW-BCP-11A-10242024

Date Collected: 10/24/24 11:35
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-5

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 19:56	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 19:56	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 19:56	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 19:56	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/28/24 14:16	10/29/24 19:56	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		10/28/24 14:16	10/29/24 19:56	1
2-Methylphenol	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 19:56	1
2-Nitroaniline	ND		10	0.42	ug/L		10/28/24 14:16	10/29/24 19:56	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 19:56	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 19:56	1
3-Nitroaniline	ND		10	0.48	ug/L		10/28/24 14:16	10/29/24 19:56	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Methylphenol	ND		10	0.36	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Nitroaniline	ND		10	0.25	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Nitrophenol	ND	*+	10	1.5	ug/L		10/28/24 14:16	10/29/24 19:56	1
Acenaphthene	ND		5.0	0.41	ug/L		10/28/24 14:16	10/29/24 19:56	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/28/24 14:16	10/29/24 19:56	1
Acetophenone	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 19:56	1
Anthracene	ND		5.0	0.28	ug/L		10/28/24 14:16	10/29/24 19:56	1
Atrazine	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 19:56	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/28/24 14:16	10/29/24 19:56	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 19:56	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 19:56	1
Benzo(b)fluoranthene	**0.48**	**J**	5.0	0.34	ug/L		10/28/24 14:16	10/29/24 19:56	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 19:56	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/28/24 14:16	10/29/24 19:56	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 19:56	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 19:56	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 19:56	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/28/24 14:16	10/29/24 19:56	1
Caprolactam	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 19:56	1
Carbazole	ND		5.0	0.30	ug/L		10/28/24 14:16	10/29/24 19:56	1
Chrysene	ND		5.0	0.33	ug/L		10/28/24 14:16	10/29/24 19:56	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/28/24 14:16	10/29/24 19:56	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 19:56	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/28/24 14:16	10/29/24 19:56	1
Dibenzofuran	ND		10	0.51	ug/L		10/28/24 14:16	10/29/24 19:56	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/28/24 14:16	10/29/24 19:56	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 19:56	1
Fluoranthene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 19:56	1
Fluorene	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 19:56	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 19:56	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/28/24 14:16	10/29/24 19:56	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 19:56	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 19:56	1

Client Sample ID: MW-BCP-11A-10242024

Lab Sample ID: 480-224869-5

Date Collected: 10/24/24 11:35

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 19:56	1
Isophorone	ND		5.0	0.43	ug/L		10/28/24 14:16	10/29/24 19:56	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 19:56	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 19:56	1
Naphthalene	ND		5.0	0.76	ug/L		10/28/24 14:16	10/29/24 19:56	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/28/24 14:16	10/29/24 19:56	1
Pentachlorophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 19:56	1
Phenanthrene	ND		5.0	0.44	ug/L		10/28/24 14:16	10/29/24 19:56	1
Phenol	ND		5.0	0.39	ug/L		10/28/24 14:16	10/29/24 19:56	1
Pyrene	ND		5.0	0.34	ug/L		10/28/24 14:16	10/29/24 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*25 - 144*	*10/28/24 14:16*	*10/29/24 19:56*	*1*
2-Fluorobiphenyl	*82*		*53 - 126*	*10/28/24 14:16*	*10/29/24 19:56*	*1*
2-Fluorophenol	*63*		*24 - 120*	*10/28/24 14:16*	*10/29/24 19:56*	*1*
Nitrobenzene-d5	*91*		*29 - 129*	*10/28/24 14:16*	*10/29/24 19:56*	*1*
p-Terphenyl-d14	*79*		*33 - 132*	*10/28/24 14:16*	*10/29/24 19:56*	*1*
Phenol-d5	*46*		*10 - 120*	*10/28/24 14:16*	*10/29/24 19:56*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00040	0.000084	mg/L		10/30/24 12:00	10/30/24 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.18**		0.020	0.0090	mg/L			10/31/24 10:07	1
Cyanide, Total (SW846 9012B)	**0.12**		0.010	0.0041	mg/L			10/29/24 13:52	1

Client Sample ID: MW-BCP-11B-10242024

Lab Sample ID: 480-224869-6

Date Collected: 10/24/24 01:00

Matrix: Water

Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.047**		0.020	0.0090	mg/L			10/31/24 10:09	1

Client Sample ID: MW-BCP-12A-10242024

Lab Sample ID: 480-224869-7

Date Collected: 10/24/24 03:15

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 06:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 06:23	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 06:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 06:23	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 06:23	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 06:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 06:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 06:23	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 06:23	1

Client Sample ID: MW-BCP-12A-10242024

Date Collected: 10/24/24 03:15
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-7

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 06:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 06:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 06:23	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 06:23	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 06:23	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 06:23	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 06:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 06:23	1
Acetone	ND		10	3.0	ug/L			10/31/24 06:23	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 06:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 06:23	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 06:23	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 06:23	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 06:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 06:23	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 06:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 06:23	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 06:23	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 06:23	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 06:23	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 06:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 06:23	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 06:23	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 06:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 06:23	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 06:23	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 06:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/24 06:23	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 06:23	1
Methylene Chloride	**0.49**	**J**	1.0	0.44	ug/L			10/31/24 06:23	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 06:23	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 06:23	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 06:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 06:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 06:23	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 06:23	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 06:23	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 06:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*10/31/24 06:23*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/31/24 06:23*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*10/31/24 06:23*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*10/31/24 06:23*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		10/28/24 14:16	10/29/24 20:23	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/28/24 14:16	10/29/24 20:23	1

Client Sample ID: MW-BCP-12A-10242024

Date Collected: 10/24/24 03:15
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-7

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 20:23	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/28/24 14:16	10/29/24 20:23	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 20:23	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/28/24 14:16	10/29/24 20:23	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 20:23	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 20:23	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 20:23	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 20:23	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/28/24 14:16	10/29/24 20:23	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		10/28/24 14:16	10/29/24 20:23	1
2-Methylphenol	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 20:23	1
2-Nitroaniline	ND		10	0.42	ug/L		10/28/24 14:16	10/29/24 20:23	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 20:23	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 20:23	1
3-Nitroaniline	ND		10	0.48	ug/L		10/28/24 14:16	10/29/24 20:23	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Methylphenol	ND		10	0.36	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Nitroaniline	ND		10	0.25	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Nitrophenol	ND	*+	10	1.5	ug/L		10/28/24 14:16	10/29/24 20:23	1
Acenaphthene	**0.46**	**J**	5.0	0.41	ug/L		10/28/24 14:16	10/29/24 20:23	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/28/24 14:16	10/29/24 20:23	1
Acetophenone	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 20:23	1
Anthracene	**0.40**	**J**	5.0	0.28	ug/L		10/28/24 14:16	10/29/24 20:23	1
Atrazine	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 20:23	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/28/24 14:16	10/29/24 20:23	1
Benzo(a)anthracene	**0.68**	**J**	5.0	0.36	ug/L		10/28/24 14:16	10/29/24 20:23	1
Benzo(a)pyrene	**0.78**	**J**	5.0	0.47	ug/L		10/28/24 14:16	10/29/24 20:23	1
Benzo(b)fluoranthene	**0.86**	**J**	5.0	0.34	ug/L		10/28/24 14:16	10/29/24 20:23	1
Benzo(g,h,i)perylene	**0.51**	**J**	5.0	0.35	ug/L		10/28/24 14:16	10/29/24 20:23	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/28/24 14:16	10/29/24 20:23	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 20:23	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 20:23	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 20:23	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/28/24 14:16	10/29/24 20:23	1
Caprolactam	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 20:23	1
Carbazole	ND		5.0	0.30	ug/L		10/28/24 14:16	10/29/24 20:23	1
Chrysene	**0.75**	**J**	5.0	0.33	ug/L		10/28/24 14:16	10/29/24 20:23	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/28/24 14:16	10/29/24 20:23	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 20:23	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/28/24 14:16	10/29/24 20:23	1
Dibenzofuran	ND		10	0.51	ug/L		10/28/24 14:16	10/29/24 20:23	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/28/24 14:16	10/29/24 20:23	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 20:23	1
Fluoranthene	**1.7**	**J**	5.0	0.40	ug/L		10/28/24 14:16	10/29/24 20:23	1
Fluorene	**0.64**	**J**	5.0	0.36	ug/L		10/28/24 14:16	10/29/24 20:23	1

Client Sample ID: MW-BCP-12A-10242024

Lab Sample ID: 480-224869-7

Date Collected: 10/24/24 03:15
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 20:23	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/28/24 14:16	10/29/24 20:23	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 20:23	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 20:23	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 20:23	1
Isophorone	ND		5.0	0.43	ug/L		10/28/24 14:16	10/29/24 20:23	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 20:23	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 20:23	1
Naphthalene	ND		5.0	0.76	ug/L		10/28/24 14:16	10/29/24 20:23	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/28/24 14:16	10/29/24 20:23	1
Pentachlorophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 20:23	1
Phenanthrene	**1.2**	**J**	5.0	0.44	ug/L		10/28/24 14:16	10/29/24 20:23	1
Phenol	ND		5.0	0.39	ug/L		10/28/24 14:16	10/29/24 20:23	1
Pyrene	**1.3**	**J**	5.0	0.34	ug/L		10/28/24 14:16	10/29/24 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*25 - 144*	*10/28/24 14:16*	*10/29/24 20:23*	*1*
2-Fluorobiphenyl	*78*		*53 - 126*	*10/28/24 14:16*	*10/29/24 20:23*	*1*
2-Fluorophenol	*61*		*24 - 120*	*10/28/24 14:16*	*10/29/24 20:23*	*1*
Nitrobenzene-d5	*84*		*29 - 129*	*10/28/24 14:16*	*10/29/24 20:23*	*1*
p-Terphenyl-d14	*69*		*33 - 132*	*10/28/24 14:16*	*10/29/24 20:23*	*1*
Phenol-d5	*43*		*10 - 120*	*10/28/24 14:16*	*10/29/24 20:23*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00043**		0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.073**		0.020	0.0090	mg/L			10/31/24 10:09	1
Cyanide, Total (SW846 9012B)	**1.2**	**B**	0.050	0.021	mg/L			10/30/24 09:04	5

Client Sample ID: MW-BCP-12B-10242024

Lab Sample ID: 480-224869-8

Date Collected: 10/24/24 03:10
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/31/24 10:09	1

Client Sample ID: MW-BCP-13A-10252024

Lab Sample ID: 480-224869-9

Date Collected: 10/25/24 08:50
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			10/31/24 06:46	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			10/31/24 06:46	100
1,1,2-Trichloroethane	ND		100	23	ug/L			10/31/24 06:46	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			10/31/24 06:46	100
1,1-Dichloroethane	ND		100	38	ug/L			10/31/24 06:46	100

Client Sample ID: MW-BCP-13A-10252024

Lab Sample ID: 480-224869-9

Date Collected: 10/25/24 08:50

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		100	29	ug/L			10/31/24 06:46	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			10/31/24 06:46	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			10/31/24 06:46	100
1,2-Dibromoethane	ND		100	73	ug/L			10/31/24 06:46	100
1,2-Dichlorobenzene	ND		100	79	ug/L			10/31/24 06:46	100
1,2-Dichloroethane	ND		100	21	ug/L			10/31/24 06:46	100
1,2-Dichloropropane	ND		100	72	ug/L			10/31/24 06:46	100
1,3-Dichlorobenzene	ND		100	78	ug/L			10/31/24 06:46	100
1,4-Dichlorobenzene	ND		100	84	ug/L			10/31/24 06:46	100
2-Hexanone	ND		500	120	ug/L			10/31/24 06:46	100
2-Butanone (MEK)	ND		1000	130	ug/L			10/31/24 06:46	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			10/31/24 06:46	100
Acetone	ND		1000	300	ug/L			10/31/24 06:46	100
Benzene	**2600**		100	41	ug/L			10/31/24 06:46	100
Bromodichloromethane	ND		100	39	ug/L			10/31/24 06:46	100
Bromoform	ND		100	26	ug/L			10/31/24 06:46	100
Bromomethane	ND		100	69	ug/L			10/31/24 06:46	100
Carbon disulfide	ND		100	19	ug/L			10/31/24 06:46	100
Carbon tetrachloride	ND		100	27	ug/L			10/31/24 06:46	100
Chlorobenzene	ND		100	75	ug/L			10/31/24 06:46	100
Dibromochloromethane	ND		100	32	ug/L			10/31/24 06:46	100
Chloroethane	ND		100	32	ug/L			10/31/24 06:46	100
Chloroform	ND		100	34	ug/L			10/31/24 06:46	100
Chloromethane	ND		100	35	ug/L			10/31/24 06:46	100
cis-1,2-Dichloroethene	ND		100	81	ug/L			10/31/24 06:46	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			10/31/24 06:46	100
Cyclohexane	ND		100	18	ug/L			10/31/24 06:46	100
Dichlorodifluoromethane	ND		100	68	ug/L			10/31/24 06:46	100
Ethylbenzene	ND		100	74	ug/L			10/31/24 06:46	100
Isopropylbenzene	ND		100	79	ug/L			10/31/24 06:46	100
Methyl acetate	ND		250	130	ug/L			10/31/24 06:46	100
Methyl tert-butyl ether	ND		100	16	ug/L			10/31/24 06:46	100
Methylcyclohexane	ND		100	16	ug/L			10/31/24 06:46	100
Methylene Chloride	**87**	**J**	100	44	ug/L			10/31/24 06:46	100
Styrene	ND		100	73	ug/L			10/31/24 06:46	100
Tetrachloroethene	ND		100	36	ug/L			10/31/24 06:46	100
Toluene	**940**		100	51	ug/L			10/31/24 06:46	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			10/31/24 06:46	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			10/31/24 06:46	100
Trichloroethene	ND		100	46	ug/L			10/31/24 06:46	100
Trichlorofluoromethane	ND		100	88	ug/L			10/31/24 06:46	100
Vinyl chloride	ND		100	90	ug/L			10/31/24 06:46	100
Xylenes, Total	**520**		200	66	ug/L			10/31/24 06:46	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*10/31/24 06:46*	*100*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/31/24 06:46*	*100*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*10/31/24 06:46*	*100*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*10/31/24 06:46*	*100*

Client Sample ID: MW-BCP-13A-10252024

Date Collected: 10/25/24 08:50
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-9

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2500	330	ug/L		10/28/24 14:16	10/30/24 11:40	500
bis (2-chloroisopropyl) ether	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,4,5-Trichlorophenol	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,4,6-Trichlorophenol	ND		2500	310	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,4-Dichlorophenol	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,4-Dimethylphenol	**8800**		2500	250	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,4-Dinitrophenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,4-Dinitrotoluene	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,6-Dinitrotoluene	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:40	500
2-Chloronaphthalene	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:40	500
2-Chlorophenol	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 11:40	500
2-Methylnaphthalene	**570**	**J**	2500	300	ug/L		10/28/24 14:16	10/30/24 11:40	500
2-Methylphenol	**12000**		2500	200	ug/L		10/28/24 14:16	10/30/24 11:40	500
2-Nitroaniline	ND		5000	210	ug/L		10/28/24 14:16	10/30/24 11:40	500
2-Nitrophenol	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:40	500
3,3'-Dichlorobenzidine	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:40	500
3-Nitroaniline	ND		5000	240	ug/L		10/28/24 14:16	10/30/24 11:40	500
4,6-Dinitro-2-methylphenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Bromophenyl phenyl ether	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Chloro-3-methylphenol	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Chloroaniline	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Chlorophenyl phenyl ether	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Methylphenol	**28000**		5000	180	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Nitroaniline	ND		5000	130	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Nitrophenol	ND	*+	5000	760	ug/L		10/28/24 14:16	10/30/24 11:40	500
Acenaphthene	ND		2500	210	ug/L		10/28/24 14:16	10/30/24 11:40	500
Acenaphthylene	**280**	**J**	2500	190	ug/L		10/28/24 14:16	10/30/24 11:40	500
Acetophenone	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 11:40	500
Anthracene	ND		2500	140	ug/L		10/28/24 14:16	10/30/24 11:40	500
Atrazine	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:40	500
Benzaldehyde	ND		2500	130	ug/L		10/28/24 14:16	10/30/24 11:40	500
Benzo(a)anthracene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:40	500
Benzo(a)pyrene	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:40	500
Benzo(b)fluoranthene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 11:40	500
Benzo(g,h,i)perylene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:40	500
Benzo(k)fluoranthene	ND		2500	370	ug/L		10/28/24 14:16	10/30/24 11:40	500
Bis(2-chloroethoxy)methane	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:40	500
Bis(2-chloroethyl)ether	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:40	500
Bis(2-ethylhexyl) phthalate	ND		2500	1100	ug/L		10/28/24 14:16	10/30/24 11:40	500
Butyl benzyl phthalate	ND		2500	500	ug/L		10/28/24 14:16	10/30/24 11:40	500
Caprolactam	ND		2500	1100	ug/L		10/28/24 14:16	10/30/24 11:40	500
Carbazole	**170**	**J**	2500	150	ug/L		10/28/24 14:16	10/30/24 11:40	500
Chrysene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 11:40	500
Di-n-butyl phthalate	ND		2500	160	ug/L		10/28/24 14:16	10/30/24 11:40	500
Di-n-octyl phthalate	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:40	500
Dibenz(a,h)anthracene	ND		2500	210	ug/L		10/28/24 14:16	10/30/24 11:40	500
Dibenzofuran	ND		5000	260	ug/L		10/28/24 14:16	10/30/24 11:40	500
Diethyl phthalate	ND		2500	110	ug/L		10/28/24 14:16	10/30/24 11:40	500
Dimethyl phthalate	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:40	500

Client Sample ID: MW-BCP-13A-10252024

Lab Sample ID: 480-224869-9

Date Collected: 10/25/24 08:50
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:40	500
Fluorene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:40	500
Hexachlorobenzene	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:40	500
Hexachlorobutadiene	ND		2500	340	ug/L		10/28/24 14:16	10/30/24 11:40	500
Hexachlorocyclopentadiene	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 11:40	500
Hexachloroethane	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 11:40	500
Indeno(1,2,3-cd)pyrene	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:40	500
Isophorone	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 11:40	500
N-Nitrosodi-n-propylamine	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 11:40	500
N-Nitrosodiphenylamine	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:40	500
Naphthalene	**11000**		2500	380	ug/L		10/28/24 14:16	10/30/24 11:40	500
Nitrobenzene	ND		2500	150	ug/L		10/28/24 14:16	10/30/24 11:40	500
Pentachlorophenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 11:40	500
Phenanthrene	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 11:40	500
Phenol	**4800**		2500	200	ug/L		10/28/24 14:16	10/30/24 11:40	500
Pyrene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 11:40	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*S1-*	*25 - 144*	*10/28/24 14:16*	*10/30/24 11:40*	*500*
2-Fluorobiphenyl	*74*		*53 - 126*	*10/28/24 14:16*	*10/30/24 11:40*	*500*
2-Fluorophenol	*0*	*S1-*	*24 - 120*	*10/28/24 14:16*	*10/30/24 11:40*	*500*
Nitrobenzene-d5	*0*	*S1-*	*29 - 129*	*10/28/24 14:16*	*10/30/24 11:40*	*500*
p-Terphenyl-d14	*0*	*S1-*	*33 - 132*	*10/28/24 14:16*	*10/30/24 11:40*	*500*
Phenol-d5	*0*	*S1-*	*10 - 120*	*10/28/24 14:16*	*10/30/24 11:40*	*500*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00060	0.00013	mg/L		10/30/24 12:00	10/30/24 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**7.8**		0.10	0.045	mg/L			10/31/24 10:11	5
Cyanide, Total (SW846 9012B)	**0.62**	**B**	0.020	0.0082	mg/L			10/30/24 09:08	2

Client Sample ID: MW-BCP-13B-10252024

Lab Sample ID: 480-224869-10

Date Collected: 10/25/24 09:10
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			10/31/24 07:08	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			10/31/24 07:08	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			10/31/24 07:08	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			10/31/24 07:08	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			10/31/24 07:08	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			10/31/24 07:08	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			10/31/24 07:08	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			10/31/24 07:08	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			10/31/24 07:08	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			10/31/24 07:08	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			10/31/24 07:08	2

Client Sample ID: MW-BCP-13B-10252024

Date Collected: 10/25/24 09:10
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-10

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		2.0	1.4	ug/L			10/31/24 07:08	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			10/31/24 07:08	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			10/31/24 07:08	2
2-Hexanone	ND		10	2.5	ug/L			10/31/24 07:08	2
2-Butanone (MEK)	ND		20	2.6	ug/L			10/31/24 07:08	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			10/31/24 07:08	2
Acetone	**6.6**	**J**	20	6.0	ug/L			10/31/24 07:08	2
Benzene	**53**		2.0	0.82	ug/L			10/31/24 07:08	2
Bromodichloromethane	ND		2.0	0.78	ug/L			10/31/24 07:08	2
Bromoform	ND		2.0	0.52	ug/L			10/31/24 07:08	2
Bromomethane	ND		2.0	1.4	ug/L			10/31/24 07:08	2
Carbon disulfide	ND		2.0	0.38	ug/L			10/31/24 07:08	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			10/31/24 07:08	2
Chlorobenzene	ND		2.0	1.5	ug/L			10/31/24 07:08	2
Dibromochloromethane	ND		2.0	0.64	ug/L			10/31/24 07:08	2
Chloroethane	ND		2.0	0.64	ug/L			10/31/24 07:08	2
Chloroform	ND		2.0	0.68	ug/L			10/31/24 07:08	2
Chloromethane	ND		2.0	0.70	ug/L			10/31/24 07:08	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			10/31/24 07:08	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			10/31/24 07:08	2
Cyclohexane	ND		2.0	0.36	ug/L			10/31/24 07:08	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			10/31/24 07:08	2
Ethylbenzene	**11**		2.0	1.5	ug/L			10/31/24 07:08	2
Isopropylbenzene	ND		2.0	1.6	ug/L			10/31/24 07:08	2
Methyl acetate	ND		5.0	2.6	ug/L			10/31/24 07:08	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			10/31/24 07:08	2
Methylcyclohexane	ND		2.0	0.32	ug/L			10/31/24 07:08	2
Methylene Chloride	**2.6**		2.0	0.88	ug/L			10/31/24 07:08	2
Styrene	**3.6**		2.0	1.5	ug/L			10/31/24 07:08	2
Tetrachloroethene	ND		2.0	0.72	ug/L			10/31/24 07:08	2
Toluene	**39**		2.0	1.0	ug/L			10/31/24 07:08	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			10/31/24 07:08	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			10/31/24 07:08	2
Trichloroethene	ND		2.0	0.92	ug/L			10/31/24 07:08	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			10/31/24 07:08	2
Vinyl chloride	ND		2.0	1.8	ug/L			10/31/24 07:08	2
Xylenes, Total	**100**		4.0	1.3	ug/L			10/31/24 07:08	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*10/31/24 07:08*	*2*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/31/24 07:08*	*2*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*10/31/24 07:08*	*2*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*10/31/24 07:08*	*2*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**60**		25	3.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		10/28/24 14:16	10/29/24 21:18	5

Client Sample ID: MW-BCP-13B-10252024

Date Collected: 10/25/24 09:10
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-10

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		25	2.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
2,4-Dimethylphenol	**10**	**J**	25	2.5	ug/L		10/28/24 14:16	10/29/24 21:18	5
2,4-Dinitrophenol	ND		50	11	ug/L		10/28/24 14:16	10/29/24 21:18	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		10/28/24 14:16	10/29/24 21:18	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
2-Chloronaphthalene	ND		25	2.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
2-Chlorophenol	ND		25	2.7	ug/L		10/28/24 14:16	10/29/24 21:18	5
2-Methylnaphthalene	**66**		25	3.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
2-Methylphenol	**11**	**J**	25	2.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
2-Nitroaniline	ND		50	2.1	ug/L		10/28/24 14:16	10/29/24 21:18	5
2-Nitrophenol	ND		25	2.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
3-Nitroaniline	ND		50	2.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Chloroaniline	ND		25	3.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Methylphenol	**21**	**J**	50	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Nitroaniline	ND		50	1.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Nitrophenol	ND	*+	50	7.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
Acenaphthene	**24**	**J**	25	2.1	ug/L		10/28/24 14:16	10/29/24 21:18	5
Acenaphthylene	**250**		25	1.9	ug/L		10/28/24 14:16	10/29/24 21:18	5
Acetophenone	ND		25	2.7	ug/L		10/28/24 14:16	10/29/24 21:18	5
Anthracene	**29**		25	1.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
Atrazine	ND		25	2.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
Benzaldehyde	ND		25	1.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
Benzo(a)anthracene	**7.9**	**J**	25	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
Benzo(a)pyrene	**5.4**	**J**	25	2.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
Benzo(b)fluoranthene	**6.1**	**J**	25	1.7	ug/L		10/28/24 14:16	10/29/24 21:18	5
Benzo(g,h,i)perylene	**2.6**	**J**	25	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		10/28/24 14:16	10/29/24 21:18	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		10/28/24 14:16	10/29/24 21:18	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
Caprolactam	ND		25	11	ug/L		10/28/24 14:16	10/29/24 21:18	5
Carbazole	**100**		25	1.5	ug/L		10/28/24 14:16	10/29/24 21:18	5
Chrysene	**6.7**	**J**	25	1.7	ug/L		10/28/24 14:16	10/29/24 21:18	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		10/28/24 14:16	10/29/24 21:18	5
Dibenzofuran	**130**		50	2.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
Diethyl phthalate	ND		25	1.1	ug/L		10/28/24 14:16	10/29/24 21:18	5
Dimethyl phthalate	ND		25	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
Fluoranthene	**41**		25	2.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
Fluorene	**130**		25	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
Hexachlorobenzene	ND		25	2.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
Hexachlorobutadiene	ND		25	3.4	ug/L		10/28/24 14:16	10/29/24 21:18	5

Client Sample ID: MW-BCP-13B-10252024

Date Collected: 10/25/24 09:10
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-10

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
Hexachloroethane	ND		25	3.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
Indeno(1,2,3-cd)pyrene	**2.6**	**J**	25	2.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
Isophorone	ND		25	2.2	ug/L		10/28/24 14:16	10/29/24 21:18	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		10/28/24 14:16	10/29/24 21:18	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
Naphthalene	**3000**	**E**	25	3.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
Nitrobenzene	ND		25	1.5	ug/L		10/28/24 14:16	10/29/24 21:18	5
Pentachlorophenol	ND		50	11	ug/L		10/28/24 14:16	10/29/24 21:18	5
Phenanthrene	**180**		25	2.2	ug/L		10/28/24 14:16	10/29/24 21:18	5
Phenol	ND		25	2.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
Pyrene	**27**		25	1.7	ug/L		10/28/24 14:16	10/29/24 21:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*25 - 144*	*10/28/24 14:16*	*10/29/24 21:18*	*5*
2-Fluorobiphenyl	*78*		*53 - 126*	*10/28/24 14:16*	*10/29/24 21:18*	*5*
2-Fluorophenol	*58*		*24 - 120*	*10/28/24 14:16*	*10/29/24 21:18*	*5*
Nitrobenzene-d5	*61*		*29 - 129*	*10/28/24 14:16*	*10/29/24 21:18*	*5*
p-Terphenyl-d14	*51*		*33 - 132*	*10/28/24 14:16*	*10/29/24 21:18*	*5*
Phenol-d5	*48*		*10 - 120*	*10/28/24 14:16*	*10/29/24 21:18*	*5*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2500	330	ug/L		10/28/24 14:16	10/30/24 15:46	500
bis (2-chloroisopropyl) ether	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,4,5-Trichlorophenol	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,4,6-Trichlorophenol	ND		2500	310	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,4-Dichlorophenol	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,4-Dimethylphenol	ND		2500	250	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,4-Dinitrophenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,4-Dinitrotoluene	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,6-Dinitrotoluene	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 15:46	500
2-Chloronaphthalene	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 15:46	500
2-Chlorophenol	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 15:46	500
2-Methylnaphthalene	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 15:46	500
2-Methylphenol	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 15:46	500
2-Nitroaniline	ND		5000	210	ug/L		10/28/24 14:16	10/30/24 15:46	500
2-Nitrophenol	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 15:46	500
3,3'-Dichlorobenzidine	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 15:46	500
3-Nitroaniline	ND		5000	240	ug/L		10/28/24 14:16	10/30/24 15:46	500
4,6-Dinitro-2-methylphenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Bromophenyl phenyl ether	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Chloro-3-methylphenol	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Chloroaniline	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Chlorophenyl phenyl ether	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Methylphenol	ND		5000	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Nitroaniline	ND		5000	130	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Nitrophenol	ND	*+	5000	760	ug/L		10/28/24 14:16	10/30/24 15:46	500
Acenaphthene	ND		2500	210	ug/L		10/28/24 14:16	10/30/24 15:46	500
Acenaphthylene	**210**	**J**	2500	190	ug/L		10/28/24 14:16	10/30/24 15:46	500

Client Sample ID: MW-BCP-13B-10252024

Date Collected: 10/25/24 09:10
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-10

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 15:46	500
Anthracene	ND		2500	140	ug/L		10/28/24 14:16	10/30/24 15:46	500
Atrazine	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 15:46	500
Benzaldehyde	ND		2500	130	ug/L		10/28/24 14:16	10/30/24 15:46	500
Benzo(a)anthracene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
Benzo(a)pyrene	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 15:46	500
Benzo(b)fluoranthene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 15:46	500
Benzo(g,h,i)perylene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
Benzo(k)fluoranthene	ND		2500	370	ug/L		10/28/24 14:16	10/30/24 15:46	500
Bis(2-chloroethoxy)methane	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
Bis(2-chloroethyl)ether	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 15:46	500
Bis(2-ethylhexyl) phthalate	ND		2500	1100	ug/L		10/28/24 14:16	10/30/24 15:46	500
Butyl benzyl phthalate	ND		2500	500	ug/L		10/28/24 14:16	10/30/24 15:46	500
Caprolactam	ND		2500	1100	ug/L		10/28/24 14:16	10/30/24 15:46	500
Carbazole	ND		2500	150	ug/L		10/28/24 14:16	10/30/24 15:46	500
Chrysene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 15:46	500
Di-n-butyl phthalate	ND		2500	160	ug/L		10/28/24 14:16	10/30/24 15:46	500
Di-n-octyl phthalate	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 15:46	500
Dibenz(a,h)anthracene	ND		2500	210	ug/L		10/28/24 14:16	10/30/24 15:46	500
Dibenzofuran	ND		5000	260	ug/L		10/28/24 14:16	10/30/24 15:46	500
Diethyl phthalate	ND		2500	110	ug/L		10/28/24 14:16	10/30/24 15:46	500
Dimethyl phthalate	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
Fluoranthene	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 15:46	500
Fluorene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
Hexachlorobenzene	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 15:46	500
Hexachlorobutadiene	ND		2500	340	ug/L		10/28/24 14:16	10/30/24 15:46	500
Hexachlorocyclopentadiene	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 15:46	500
Hexachloroethane	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 15:46	500
Indeno(1,2,3-cd)pyrene	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 15:46	500
Isophorone	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 15:46	500
N-Nitrosodi-n-propylamine	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 15:46	500
N-Nitrosodiphenylamine	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 15:46	500
Naphthalene	**13000**		2500	380	ug/L		10/28/24 14:16	10/30/24 15:46	500
Nitrobenzene	ND		2500	150	ug/L		10/28/24 14:16	10/30/24 15:46	500
Pentachlorophenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 15:46	500
Phenanthrene	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 15:46	500
Phenol	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 15:46	500
Pyrene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 15:46	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*S1-*	*25 - 144*	*10/28/24 14:16*	*10/30/24 15:46*	*500*
2-Fluorobiphenyl	*0*	*S1-*	*53 - 126*	*10/28/24 14:16*	*10/30/24 15:46*	*500*
2-Fluorophenol	*0*	*S1-*	*24 - 120*	*10/28/24 14:16*	*10/30/24 15:46*	*500*
Nitrobenzene-d5	*0*	*S1-*	*29 - 129*	*10/28/24 14:16*	*10/30/24 15:46*	*500*
p-Terphenyl-d14	*0*	*S1-*	*33 - 132*	*10/28/24 14:16*	*10/30/24 15:46*	*500*
Phenol-d5	*0*	*S1-*	*10 - 120*	*10/28/24 14:16*	*10/30/24 15:46*	*500*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00099**		0.00040	0.000084	mg/L		10/30/24 12:00	10/30/24 15:08	1

Client Sample ID: MW-BCP-13B-10252024

Lab Sample ID: 480-224869-10

Date Collected: 10/25/24 09:10
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.24**	**F1**	0.020	0.0090	mg/L			10/30/24 22:58	1
Cyanide, Total (SW846 9012B)	**0.28**		0.010	0.0041	mg/L			10/29/24 14:02	1

Client Sample ID: MW-BCP-24A-10252024

Lab Sample ID: 480-224869-11

Date Collected: 10/25/24 09:35
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 07:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 07:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 07:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 07:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 07:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 07:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 07:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 07:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 07:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 07:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 07:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 07:31	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 07:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 07:31	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 07:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 07:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 07:31	1
Acetone	ND		10	3.0	ug/L			10/31/24 07:31	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 07:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 07:31	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 07:31	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 07:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 07:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 07:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 07:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 07:31	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 07:31	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 07:31	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 07:31	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 07:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 07:31	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 07:31	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 07:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 07:31	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 07:31	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 07:31	1
Methyl tert-butyl ether	**0.16**	**J**	1.0	0.16	ug/L			10/31/24 07:31	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 07:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/31/24 07:31	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 07:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 07:31	1

Client Sample ID: MW-BCP-24A-10252024

Date Collected: 10/25/24 09:35
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-11

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.51	ug/L			10/31/24 07:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 07:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 07:31	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 07:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 07:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 07:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 07:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*10/31/24 07:31*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/31/24 07:31*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*10/31/24 07:31*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*10/31/24 07:31*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		10/28/24 14:16	10/29/24 21:45	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 21:45	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 21:45	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/28/24 14:16	10/29/24 21:45	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		10/28/24 14:16	10/29/24 21:45	1
2-Methylphenol	**0.86**	**J**	5.0	0.40	ug/L		10/28/24 14:16	10/29/24 21:45	1
2-Nitroaniline	ND		10	0.42	ug/L		10/28/24 14:16	10/29/24 21:45	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 21:45	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 21:45	1
3-Nitroaniline	ND		10	0.48	ug/L		10/28/24 14:16	10/29/24 21:45	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Methylphenol	**1.5**	**J**	10	0.36	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Nitroaniline	ND		10	0.25	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Nitrophenol	ND	*+	10	1.5	ug/L		10/28/24 14:16	10/29/24 21:45	1
Acenaphthene	ND		5.0	0.41	ug/L		10/28/24 14:16	10/29/24 21:45	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/28/24 14:16	10/29/24 21:45	1
Acetophenone	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 21:45	1
Anthracene	ND		5.0	0.28	ug/L		10/28/24 14:16	10/29/24 21:45	1
Atrazine	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 21:45	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/28/24 14:16	10/29/24 21:45	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 21:45	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 21:45	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		10/28/24 14:16	10/29/24 21:45	1

Client Sample ID: MW-BCP-24A-10252024

Date Collected: 10/25/24 09:35
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-11

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 21:45	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/28/24 14:16	10/29/24 21:45	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 21:45	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 21:45	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 21:45	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/28/24 14:16	10/29/24 21:45	1
Caprolactam	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 21:45	1
Carbazole	ND		5.0	0.30	ug/L		10/28/24 14:16	10/29/24 21:45	1
Chrysene	ND		5.0	0.33	ug/L		10/28/24 14:16	10/29/24 21:45	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/28/24 14:16	10/29/24 21:45	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 21:45	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/28/24 14:16	10/29/24 21:45	1
Dibenzofuran	ND		10	0.51	ug/L		10/28/24 14:16	10/29/24 21:45	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/28/24 14:16	10/29/24 21:45	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 21:45	1
Fluoranthene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 21:45	1
Fluorene	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 21:45	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 21:45	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/28/24 14:16	10/29/24 21:45	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 21:45	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 21:45	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 21:45	1
Isophorone	ND		5.0	0.43	ug/L		10/28/24 14:16	10/29/24 21:45	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 21:45	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 21:45	1
Naphthalene	**3.8**	**J**	5.0	0.76	ug/L		10/28/24 14:16	10/29/24 21:45	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/28/24 14:16	10/29/24 21:45	1
Pentachlorophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 21:45	1
Phenanthrene	ND		5.0	0.44	ug/L		10/28/24 14:16	10/29/24 21:45	1
Phenol	**0.49**	**J**	5.0	0.39	ug/L		10/28/24 14:16	10/29/24 21:45	1
Pyrene	ND		5.0	0.34	ug/L		10/28/24 14:16	10/29/24 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*25 - 144*	*10/28/24 14:16*	*10/29/24 21:45*	*1*
2-Fluorobiphenyl	*94*		*53 - 126*	*10/28/24 14:16*	*10/29/24 21:45*	*1*
2-Fluorophenol	*73*		*24 - 120*	*10/28/24 14:16*	*10/29/24 21:45*	*1*
Nitrobenzene-d5	*104*		*29 - 129*	*10/28/24 14:16*	*10/29/24 21:45*	*1*
p-Terphenyl-d14	*83*		*33 - 132*	*10/28/24 14:16*	*10/29/24 21:45*	*1*
Phenol-d5	*55*		*10 - 120*	*10/28/24 14:16*	*10/29/24 21:45*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00061**		0.00040	0.000084	mg/L		10/30/24 12:00	10/30/24 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**1.0**		0.020	0.0090	mg/L			10/30/24 22:59	1
Cyanide, Total (SW846 9012B)	**0.12**		0.010	0.0041	mg/L			10/29/24 14:05	1

Client Sample ID: MW-BCP-25A-10252024

Date Collected: 10/25/24 02:05
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-12

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 07:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 07:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 07:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 07:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 07:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 07:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 07:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 07:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 07:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 07:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 07:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 07:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 07:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 07:54	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 07:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 07:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 07:54	1
Acetone	ND		10	3.0	ug/L			10/31/24 07:54	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 07:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 07:54	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 07:54	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 07:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 07:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 07:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 07:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 07:54	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 07:54	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 07:54	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 07:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 07:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 07:54	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 07:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 07:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 07:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 07:54	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 07:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/24 07:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 07:54	1
Methylene Chloride	**0.46**	**J**	1.0	0.44	ug/L			10/31/24 07:54	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 07:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 07:54	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 07:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 07:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 07:54	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 07:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 07:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 07:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 07:54	1

Client Sample ID: MW-BCP-25A-10252024

Date Collected: 10/25/24 02:05
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-12

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*10/31/24 07:54*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/31/24 07:54*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*10/31/24 07:54*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*10/31/24 07:54*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.2	0.68	ug/L		10/28/24 14:16	10/29/24 22:13	1
bis (2-chloroisopropyl) ether	ND		5.2	0.54	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,4,5-Trichlorophenol	ND		5.2	0.50	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,4,6-Trichlorophenol	ND		5.2	0.64	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,4-Dichlorophenol	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,4-Dinitrophenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,4-Dinitrotoluene	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,6-Dinitrotoluene	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 22:13	1
2-Chloronaphthalene	ND		5.2	0.48	ug/L		10/28/24 14:16	10/29/24 22:13	1
2-Chlorophenol	ND		5.2	0.55	ug/L		10/28/24 14:16	10/29/24 22:13	1
2-Methylnaphthalene	ND		5.2	0.63	ug/L		10/28/24 14:16	10/29/24 22:13	1
2-Methylphenol	**0.42**	**J**	5.2	0.42	ug/L		10/28/24 14:16	10/29/24 22:13	1
2-Nitroaniline	ND		10	0.44	ug/L		10/28/24 14:16	10/29/24 22:13	1
2-Nitrophenol	ND		5.2	0.50	ug/L		10/28/24 14:16	10/29/24 22:13	1
3,3'-Dichlorobenzidine	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 22:13	1
3-Nitroaniline	ND		10	0.50	ug/L		10/28/24 14:16	10/29/24 22:13	1
4,6-Dinitro-2-methylphenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Bromophenyl phenyl ether	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Chloro-3-methylphenol	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Chloroaniline	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Chlorophenyl phenyl ether	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Methylphenol	**0.61**	**J**	10	0.38	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Nitroaniline	ND		10	0.26	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Nitrophenol	ND	*+	10	1.6	ug/L		10/28/24 14:16	10/29/24 22:13	1
Acenaphthene	ND		5.2	0.43	ug/L		10/28/24 14:16	10/29/24 22:13	1
Acenaphthylene	ND		5.2	0.40	ug/L		10/28/24 14:16	10/29/24 22:13	1
Acetophenone	ND		5.2	0.56	ug/L		10/28/24 14:16	10/29/24 22:13	1
Anthracene	ND		5.2	0.29	ug/L		10/28/24 14:16	10/29/24 22:13	1
Atrazine	ND		5.2	0.48	ug/L		10/28/24 14:16	10/29/24 22:13	1
Benzaldehyde	ND		5.2	0.28	ug/L		10/28/24 14:16	10/29/24 22:13	1
Benzo(a)anthracene	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 22:13	1
Benzo(a)pyrene	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 22:13	1
Benzo(b)fluoranthene	**0.35**	**J**	5.2	0.35	ug/L		10/28/24 14:16	10/29/24 22:13	1
Benzo(g,h,i)perylene	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 22:13	1
Benzo(k)fluoranthene	ND		5.2	0.76	ug/L		10/28/24 14:16	10/29/24 22:13	1
Bis(2-chloroethoxy)methane	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 22:13	1
Bis(2-chloroethyl)ether	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 22:13	1
Bis(2-ethylhexyl) phthalate	ND		5.2	2.3	ug/L		10/28/24 14:16	10/29/24 22:13	1
Butyl benzyl phthalate	ND		5.2	1.0	ug/L		10/28/24 14:16	10/29/24 22:13	1
Caprolactam	ND		5.2	2.3	ug/L		10/28/24 14:16	10/29/24 22:13	1
Carbazole	ND		5.2	0.31	ug/L		10/28/24 14:16	10/29/24 22:13	1
Chrysene	ND		5.2	0.34	ug/L		10/28/24 14:16	10/29/24 22:13	1

Client Sample ID: MW-BCP-25A-10252024

Lab Sample ID: 480-224869-12

Date Collected: 10/25/24 02:05

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		5.2	0.32	ug/L		10/28/24 14:16	10/29/24 22:13	1
Di-n-octyl phthalate	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 22:13	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		10/28/24 14:16	10/29/24 22:13	1
Dibenzofuran	ND		10	0.53	ug/L		10/28/24 14:16	10/29/24 22:13	1
Diethyl phthalate	ND		5.2	0.23	ug/L		10/28/24 14:16	10/29/24 22:13	1
Dimethyl phthalate	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 22:13	1
Fluoranthene	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 22:13	1
Fluorene	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 22:13	1
Hexachlorobenzene	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 22:13	1
Hexachlorobutadiene	ND		5.2	0.71	ug/L		10/28/24 14:16	10/29/24 22:13	1
Hexachlorocyclopentadiene	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 22:13	1
Hexachloroethane	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 22:13	1
Indeno(1,2,3-cd)pyrene	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 22:13	1
Isophorone	ND		5.2	0.45	ug/L		10/28/24 14:16	10/29/24 22:13	1
N-Nitrosodi-n-propylamine	ND		5.2	0.56	ug/L		10/28/24 14:16	10/29/24 22:13	1
N-Nitrosodiphenylamine	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 22:13	1
Naphthalene	**1.9**	**J**	5.2	0.79	ug/L		10/28/24 14:16	10/29/24 22:13	1
Nitrobenzene	ND		5.2	0.30	ug/L		10/28/24 14:16	10/29/24 22:13	1
Pentachlorophenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 22:13	1
Phenanthrene	ND		5.2	0.46	ug/L		10/28/24 14:16	10/29/24 22:13	1
Phenol	ND		5.2	0.41	ug/L		10/28/24 14:16	10/29/24 22:13	1
Pyrene	ND		5.2	0.35	ug/L		10/28/24 14:16	10/29/24 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*25 - 144*	*10/28/24 14:16*	*10/29/24 22:13*	*1*
2-Fluorobiphenyl	*86*		*53 - 126*	*10/28/24 14:16*	*10/29/24 22:13*	*1*
2-Fluorophenol	*70*		*24 - 120*	*10/28/24 14:16*	*10/29/24 22:13*	*1*
Nitrobenzene-d5	*95*		*29 - 129*	*10/28/24 14:16*	*10/29/24 22:13*	*1*
p-Terphenyl-d14	*69*		*33 - 132*	*10/28/24 14:16*	*10/29/24 22:13*	*1*
Phenol-d5	*53*		*10 - 120*	*10/28/24 14:16*	*10/29/24 22:13*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000050**	**J**	0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**5.1**	**B**	0.10	0.045	mg/L			10/30/24 23:36	5
Cyanide, Total (SW846 9012B)	**1.4**	**B**	0.050	0.021	mg/L			10/30/24 09:11	5

Client Sample ID: MW-BCP-19B-10252024

Lab Sample ID: 480-224869-13

Date Collected: 10/25/24 09:55

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 08:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 08:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 08:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 08:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 08:16	1

Client Sample ID: MW-BCP-19B-10252024

Date Collected: 10/25/24 09:55
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-13

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 08:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 08:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 08:16	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 08:16	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 08:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 08:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 08:16	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 08:16	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 08:16	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 08:16	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 08:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 08:16	1
Acetone	ND		10	3.0	ug/L			10/31/24 08:16	1
Benzene	**3.0**		1.0	0.41	ug/L			10/31/24 08:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 08:16	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 08:16	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 08:16	1
Carbon disulfide	**0.21**	**J**	1.0	0.19	ug/L			10/31/24 08:16	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 08:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 08:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 08:16	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 08:16	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 08:16	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 08:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 08:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 08:16	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 08:16	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 08:16	1
Ethylbenzene	**1.4**		1.0	0.74	ug/L			10/31/24 08:16	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 08:16	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 08:16	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/24 08:16	1
Methylcyclohexane	**0.24**	**J**	1.0	0.16	ug/L			10/31/24 08:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/31/24 08:16	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 08:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 08:16	1
Toluene	**2.4**		1.0	0.51	ug/L			10/31/24 08:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 08:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 08:16	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 08:16	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 08:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 08:16	1
Xylenes, Total	**6.0**		2.0	0.66	ug/L			10/31/24 08:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*10/31/24 08:16*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/31/24 08:16*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*10/31/24 08:16*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*10/31/24 08:16*	*1*

Client Sample ID: MW-BCP-19B-10252024

Date Collected: 10/25/24 09:55
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-13

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**14**		5.0	0.65	ug/L		10/28/24 14:16	10/29/24 22:40	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,4-Dimethylphenol	**0.53**	**J**	5.0	0.50	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 22:40	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 22:40	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/28/24 14:16	10/29/24 22:40	1
2-Methylnaphthalene	**1.1**	**J**	5.0	0.60	ug/L		10/28/24 14:16	10/29/24 22:40	1
2-Methylphenol	**0.49**	**J**	5.0	0.40	ug/L		10/28/24 14:16	10/29/24 22:40	1
2-Nitroaniline	ND		10	0.42	ug/L		10/28/24 14:16	10/29/24 22:40	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 22:40	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 22:40	1
3-Nitroaniline	ND		10	0.48	ug/L		10/28/24 14:16	10/29/24 22:40	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Methylphenol	**0.92**	**J**	10	0.36	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Nitroaniline	ND		10	0.25	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Nitrophenol	ND	*+	10	1.5	ug/L		10/28/24 14:16	10/29/24 22:40	1
Acenaphthene	**8.8**		5.0	0.41	ug/L		10/28/24 14:16	10/29/24 22:40	1
Acenaphthylene	**51**		5.0	0.38	ug/L		10/28/24 14:16	10/29/24 22:40	1
Acetophenone	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 22:40	1
Anthracene	**15**		5.0	0.28	ug/L		10/28/24 14:16	10/29/24 22:40	1
Atrazine	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 22:40	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/28/24 14:16	10/29/24 22:40	1
Benzo(a)anthracene	**2.3**	**J**	5.0	0.36	ug/L		10/28/24 14:16	10/29/24 22:40	1
Benzo(a)pyrene	**1.5**	**J**	5.0	0.47	ug/L		10/28/24 14:16	10/29/24 22:40	1
Benzo(b)fluoranthene	**1.8**	**J**	5.0	0.34	ug/L		10/28/24 14:16	10/29/24 22:40	1
Benzo(g,h,i)perylene	**0.75**	**J**	5.0	0.35	ug/L		10/28/24 14:16	10/29/24 22:40	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/28/24 14:16	10/29/24 22:40	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 22:40	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 22:40	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 22:40	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/28/24 14:16	10/29/24 22:40	1
Caprolactam	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 22:40	1
Carbazole	**27**		5.0	0.30	ug/L		10/28/24 14:16	10/29/24 22:40	1
Chrysene	**2.2**	**J**	5.0	0.33	ug/L		10/28/24 14:16	10/29/24 22:40	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/28/24 14:16	10/29/24 22:40	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 22:40	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/28/24 14:16	10/29/24 22:40	1
Dibenzofuran	**48**		10	0.51	ug/L		10/28/24 14:16	10/29/24 22:40	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/28/24 14:16	10/29/24 22:40	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 22:40	1

Client Sample ID: MW-BCP-19B-10252024

Date Collected: 10/25/24 09:55
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-13

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**22**		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 22:40	1
Fluorene	**68**	**E**	5.0	0.36	ug/L		10/28/24 14:16	10/29/24 22:40	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 22:40	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/28/24 14:16	10/29/24 22:40	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 22:40	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 22:40	1
Indeno(1,2,3-cd)pyrene	**0.66**	**J**	5.0	0.47	ug/L		10/28/24 14:16	10/29/24 22:40	1
Isophorone	ND		5.0	0.43	ug/L		10/28/24 14:16	10/29/24 22:40	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 22:40	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 22:40	1
Naphthalene	**6.4**		5.0	0.76	ug/L		10/28/24 14:16	10/29/24 22:40	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/28/24 14:16	10/29/24 22:40	1
Pentachlorophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 22:40	1
Phenanthrene	**78**	**E**	5.0	0.44	ug/L		10/28/24 14:16	10/29/24 22:40	1
Phenol	ND		5.0	0.39	ug/L		10/28/24 14:16	10/29/24 22:40	1
Pyrene	**14**		5.0	0.34	ug/L		10/28/24 14:16	10/29/24 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*25 - 144*	*10/28/24 14:16*	*10/29/24 22:40*	*1*
2-Fluorobiphenyl	*91*		*53 - 126*	*10/28/24 14:16*	*10/29/24 22:40*	*1*
2-Fluorophenol	*69*		*24 - 120*	*10/28/24 14:16*	*10/29/24 22:40*	*1*
Nitrobenzene-d5	*100*		*29 - 129*	*10/28/24 14:16*	*10/29/24 22:40*	*1*
p-Terphenyl-d14	*70*		*33 - 132*	*10/28/24 14:16*	*10/29/24 22:40*	*1*
Phenol-d5	*51*		*10 - 120*	*10/28/24 14:16*	*10/29/24 22:40*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**13**	**J**	25	3.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,4-Dinitrophenol	ND		50	11	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
2-Chloronaphthalene	ND		25	2.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
2-Chlorophenol	ND		25	2.7	ug/L		10/28/24 14:16	10/30/24 12:07	5
2-Methylnaphthalene	ND		25	3.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
2-Methylphenol	ND		25	2.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
2-Nitroaniline	ND		50	2.1	ug/L		10/28/24 14:16	10/30/24 12:07	5
2-Nitrophenol	ND		25	2.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
3-Nitroaniline	ND		50	2.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		10/28/24 14:16	10/30/24 12:07	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
4-Chloroaniline	ND		25	3.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
4-Methylphenol	ND		50	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5

Client Sample ID: MW-BCP-19B-10252024

Date Collected: 10/25/24 09:55
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-13

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		50	1.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
4-Nitrophenol	ND	*+	50	7.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
Acenaphthene	**8.8**	**J**	25	2.1	ug/L		10/28/24 14:16	10/30/24 12:07	5
Acenaphthylene	**49**		25	1.9	ug/L		10/28/24 14:16	10/30/24 12:07	5
Acetophenone	ND		25	2.7	ug/L		10/28/24 14:16	10/30/24 12:07	5
Anthracene	**14**	**J**	25	1.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
Atrazine	ND		25	2.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
Benzaldehyde	ND		25	1.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
Benzo(a)anthracene	**2.5**	**J**	25	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
Benzo(a)pyrene	ND		25	2.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
Benzo(b)fluoranthene	**2.2**	**J**	25	1.7	ug/L		10/28/24 14:16	10/30/24 12:07	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		10/28/24 14:16	10/30/24 12:07	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		10/28/24 14:16	10/30/24 12:07	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
Caprolactam	ND		25	11	ug/L		10/28/24 14:16	10/30/24 12:07	5
Carbazole	**26**		25	1.5	ug/L		10/28/24 14:16	10/30/24 12:07	5
Chrysene	**2.5**	**J**	25	1.7	ug/L		10/28/24 14:16	10/30/24 12:07	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		10/28/24 14:16	10/30/24 12:07	5
Dibenzofuran	**45**	**J**	50	2.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
Diethyl phthalate	ND		25	1.1	ug/L		10/28/24 14:16	10/30/24 12:07	5
Dimethyl phthalate	ND		25	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
Fluoranthene	**23**	**J**	25	2.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
Fluorene	**63**		25	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
Hexachlorobenzene	ND		25	2.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
Hexachlorobutadiene	ND		25	3.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
Hexachloroethane	ND		25	3.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
Indeno(1,2,3-cd)pyrene	ND		25	2.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
Isophorone	ND		25	2.2	ug/L		10/28/24 14:16	10/30/24 12:07	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		10/28/24 14:16	10/30/24 12:07	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
Naphthalene	**6.6**	**J**	25	3.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
Nitrobenzene	ND		25	1.5	ug/L		10/28/24 14:16	10/30/24 12:07	5
Pentachlorophenol	ND		50	11	ug/L		10/28/24 14:16	10/30/24 12:07	5
Phenanthrene	**79**		25	2.2	ug/L		10/28/24 14:16	10/30/24 12:07	5
Phenol	ND		25	2.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
Pyrene	**15**	**J**	25	1.7	ug/L		10/28/24 14:16	10/30/24 12:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*25 - 144*	*10/28/24 14:16*	*10/30/24 12:07*	*5*
2-Fluorobiphenyl	*86*		*53 - 126*	*10/28/24 14:16*	*10/30/24 12:07*	*5*
2-Fluorophenol	*67*		*24 - 120*	*10/28/24 14:16*	*10/30/24 12:07*	*5*
Nitrobenzene-d5	*94*		*29 - 129*	*10/28/24 14:16*	*10/30/24 12:07*	*5*
p-Terphenyl-d14	*69*		*33 - 132*	*10/28/24 14:16*	*10/30/24 12:07*	*5*
Phenol-d5	*49*		*10 - 120*	*10/28/24 14:16*	*10/30/24 12:07*	*5*

Client Sample ID: MW-BCP-19B-10252024

Lab Sample ID: 480-224869-13

Date Collected: 10/25/24 09:55
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J	0.00040	0.000084	mg/L		10/30/24 12:00	10/30/24 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.20		0.020	0.0090	mg/L			10/30/24 23:01	1

Client Sample ID: MW-BCP-22A-10252024

Lab Sample ID: 480-224869-14

Date Collected: 10/25/24 11:30
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000053	J	0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.96		0.020	0.0090	mg/L			10/30/24 23:02	1
Cyanide, Total (SW846 9012B)	0.042	F1 B	0.010	0.0041	mg/L			10/30/24 08:28	1

Client Sample ID: MW-BCP-25B-10252024

Lab Sample ID: 480-224869-15

Date Collected: 10/25/24 02:15
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00040	0.000084	mg/L		10/30/24 12:00	10/30/24 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.25		0.020	0.0090	mg/L			10/30/24 23:03	1
Cyanide, Total (SW846 9012B)	0.019	F1 B	0.010	0.0041	mg/L			10/30/24 08:56	1

Client Sample ID: MW-BCP-23A-10252024

Lab Sample ID: 480-224869-16

Date Collected: 10/25/24 11:45
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000062	J	0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	1.1		0.020	0.0090	mg/L			10/30/24 23:07	1
Cyanide, Total (SW846 9012B)	0.26	B	0.010	0.0041	mg/L			10/30/24 09:14	1

Client Sample ID: MW-BCP-24B-10252024

Lab Sample ID: 480-224869-17

Date Collected: 10/25/24 01:20
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00060	0.00013	mg/L		10/30/24 12:00	10/30/24 15:25	1

Client Sample ID: MW-BCP-24B-10252024

Lab Sample ID: 480-224869-17

Date Collected: 10/25/24 01:20
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.30	F1 F2	0.020	0.0090	mg/L			10/31/24 00:23	1
Cyanide, Total (SW846 9012B)	0.058	B	0.010	0.0041	mg/L			10/30/24 09:18	1

Client Sample ID: MW-BCP-21A-10252024

Lab Sample ID: 480-224869-18

Date Collected: 10/25/24 11:00
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 08:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 08:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 08:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 08:39	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 08:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 08:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 08:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 08:39	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 08:39	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 08:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 08:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 08:39	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 08:39	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 08:39	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 08:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 08:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 08:39	1
Acetone	3.2	J	10	3.0	ug/L			10/31/24 08:39	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 08:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 08:39	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 08:39	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 08:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 08:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 08:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 08:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 08:39	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 08:39	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 08:39	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 08:39	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 08:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 08:39	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 08:39	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 08:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 08:39	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 08:39	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 08:39	1
Methyl tert-butyl ether	0.69	J	1.0	0.16	ug/L			10/31/24 08:39	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 08:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/31/24 08:39	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 08:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 08:39	1

Client Sample ID: MW-BCP-21A-10252024

Date Collected: 10/25/24 11:00
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-18

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.51	ug/L			10/31/24 08:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 08:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 08:39	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 08:39	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 08:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 08:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 08:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*10/31/24 08:39*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/31/24 08:39*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*10/31/24 08:39*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*10/31/24 08:39*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.2	0.68	ug/L		10/28/24 14:16	10/29/24 23:07	1
bis (2-chloroisopropyl) ether	ND		5.2	0.54	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,4,5-Trichlorophenol	ND		5.2	0.50	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,4,6-Trichlorophenol	ND		5.2	0.64	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,4-Dichlorophenol	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,4-Dinitrophenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,4-Dinitrotoluene	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,6-Dinitrotoluene	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 23:07	1
2-Chloronaphthalene	ND		5.2	0.48	ug/L		10/28/24 14:16	10/29/24 23:07	1
2-Chlorophenol	ND		5.2	0.55	ug/L		10/28/24 14:16	10/29/24 23:07	1
2-Methylnaphthalene	ND		5.2	0.63	ug/L		10/28/24 14:16	10/29/24 23:07	1
2-Methylphenol	**0.47**	**J**	5.2	0.42	ug/L		10/28/24 14:16	10/29/24 23:07	1
2-Nitroaniline	ND		10	0.44	ug/L		10/28/24 14:16	10/29/24 23:07	1
2-Nitrophenol	ND		5.2	0.50	ug/L		10/28/24 14:16	10/29/24 23:07	1
3,3'-Dichlorobenzidine	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 23:07	1
3-Nitroaniline	ND		10	0.50	ug/L		10/28/24 14:16	10/29/24 23:07	1
4,6-Dinitro-2-methylphenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Bromophenyl phenyl ether	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Chloro-3-methylphenol	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Chloroaniline	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Chlorophenyl phenyl ether	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Methylphenol	**0.70**	**J**	10	0.38	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Nitroaniline	ND		10	0.26	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Nitrophenol	ND	*+	10	1.6	ug/L		10/28/24 14:16	10/29/24 23:07	1
Acenaphthene	ND		5.2	0.43	ug/L		10/28/24 14:16	10/29/24 23:07	1
Acenaphthylene	ND		5.2	0.40	ug/L		10/28/24 14:16	10/29/24 23:07	1
Acetophenone	ND		5.2	0.56	ug/L		10/28/24 14:16	10/29/24 23:07	1
Anthracene	ND		5.2	0.29	ug/L		10/28/24 14:16	10/29/24 23:07	1
Atrazine	ND		5.2	0.48	ug/L		10/28/24 14:16	10/29/24 23:07	1
Benzaldehyde	ND		5.2	0.28	ug/L		10/28/24 14:16	10/29/24 23:07	1
Benzo(a)anthracene	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 23:07	1
Benzo(a)pyrene	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 23:07	1
Benzo(b)fluoranthene	ND		5.2	0.35	ug/L		10/28/24 14:16	10/29/24 23:07	1

Client Sample ID: MW-BCP-21A-10252024

Date Collected: 10/25/24 11:00
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-18

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(g,h,i)perylene	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 23:07	1
Benzo(k)fluoranthene	ND		5.2	0.76	ug/L		10/28/24 14:16	10/29/24 23:07	1
Bis(2-chloroethoxy)methane	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 23:07	1
Bis(2-chloroethyl)ether	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 23:07	1
Bis(2-ethylhexyl) phthalate	ND		5.2	2.3	ug/L		10/28/24 14:16	10/29/24 23:07	1
Butyl benzyl phthalate	ND		5.2	1.0	ug/L		10/28/24 14:16	10/29/24 23:07	1
Caprolactam	ND		5.2	2.3	ug/L		10/28/24 14:16	10/29/24 23:07	1
Carbazole	**0.66**	**J**	5.2	0.31	ug/L		10/28/24 14:16	10/29/24 23:07	1
Chrysene	ND		5.2	0.34	ug/L		10/28/24 14:16	10/29/24 23:07	1
Di-n-butyl phthalate	ND		5.2	0.32	ug/L		10/28/24 14:16	10/29/24 23:07	1
Di-n-octyl phthalate	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 23:07	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		10/28/24 14:16	10/29/24 23:07	1
Dibenzofuran	ND		10	0.53	ug/L		10/28/24 14:16	10/29/24 23:07	1
Diethyl phthalate	ND		5.2	0.23	ug/L		10/28/24 14:16	10/29/24 23:07	1
Dimethyl phthalate	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 23:07	1
Fluoranthene	**0.43**	**J**	5.2	0.42	ug/L		10/28/24 14:16	10/29/24 23:07	1
Fluorene	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 23:07	1
Hexachlorobenzene	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 23:07	1
Hexachlorobutadiene	ND		5.2	0.71	ug/L		10/28/24 14:16	10/29/24 23:07	1
Hexachlorocyclopentadiene	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 23:07	1
Hexachloroethane	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 23:07	1
Indeno(1,2,3-cd)pyrene	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 23:07	1
Isophorone	ND		5.2	0.45	ug/L		10/28/24 14:16	10/29/24 23:07	1
N-Nitrosodi-n-propylamine	ND		5.2	0.56	ug/L		10/28/24 14:16	10/29/24 23:07	1
N-Nitrosodiphenylamine	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 23:07	1
Naphthalene	**1.8**	**J**	5.2	0.79	ug/L		10/28/24 14:16	10/29/24 23:07	1
Nitrobenzene	ND		5.2	0.30	ug/L		10/28/24 14:16	10/29/24 23:07	1
Pentachlorophenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 23:07	1
Phenanthrene	ND		5.2	0.46	ug/L		10/28/24 14:16	10/29/24 23:07	1
Phenol	ND		5.2	0.41	ug/L		10/28/24 14:16	10/29/24 23:07	1
Pyrene	**0.40**	**J**	5.2	0.35	ug/L		10/28/24 14:16	10/29/24 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*25 - 144*	*10/28/24 14:16*	*10/29/24 23:07*	*1*
2-Fluorobiphenyl	*89*		*53 - 126*	*10/28/24 14:16*	*10/29/24 23:07*	*1*
2-Fluorophenol	*70*		*24 - 120*	*10/28/24 14:16*	*10/29/24 23:07*	*1*
Nitrobenzene-d5	*100*		*29 - 129*	*10/28/24 14:16*	*10/29/24 23:07*	*1*
p-Terphenyl-d14	*48*		*33 - 132*	*10/28/24 14:16*	*10/29/24 23:07*	*1*
Phenol-d5	*52*		*10 - 120*	*10/28/24 14:16*	*10/29/24 23:07*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**1.5**		0.020	0.0090	mg/L			10/31/24 00:25	1
Cyanide, Total (SW846 9012B)	**0.020**	**B**	0.010	0.0041	mg/L			10/30/24 09:21	1

Client Sample ID: MW-BCP-19A-10252024

Date Collected: 10/25/24 09:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-19

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		8.0	6.6	ug/L			10/31/24 09:01	8
1,1,2,2-Tetrachloroethane	ND		8.0	1.7	ug/L			10/31/24 09:01	8
1,1,2-Trichloroethane	ND		8.0	1.8	ug/L			10/31/24 09:01	8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5	ug/L			10/31/24 09:01	8
1,1-Dichloroethane	ND		8.0	3.0	ug/L			10/31/24 09:01	8
1,1-Dichloroethene	ND		8.0	2.3	ug/L			10/31/24 09:01	8
1,2,4-Trichlorobenzene	ND		8.0	3.3	ug/L			10/31/24 09:01	8
1,2-Dibromo-3-Chloropropane	ND		8.0	3.1	ug/L			10/31/24 09:01	8
1,2-Dibromoethane	ND		8.0	5.8	ug/L			10/31/24 09:01	8
1,2-Dichlorobenzene	ND		8.0	6.3	ug/L			10/31/24 09:01	8
1,2-Dichloroethane	ND		8.0	1.7	ug/L			10/31/24 09:01	8
1,2-Dichloropropane	ND		8.0	5.8	ug/L			10/31/24 09:01	8
1,3-Dichlorobenzene	ND		8.0	6.2	ug/L			10/31/24 09:01	8
1,4-Dichlorobenzene	ND		8.0	6.7	ug/L			10/31/24 09:01	8
2-Hexanone	ND		40	9.9	ug/L			10/31/24 09:01	8
2-Butanone (MEK)	ND		80	11	ug/L			10/31/24 09:01	8
4-Methyl-2-pentanone (MIBK)	ND		40	17	ug/L			10/31/24 09:01	8
Acetone	ND		80	24	ug/L			10/31/24 09:01	8
Benzene	**180**		8.0	3.3	ug/L			10/31/24 09:01	8
Bromodichloromethane	ND		8.0	3.1	ug/L			10/31/24 09:01	8
Bromoform	ND		8.0	2.1	ug/L			10/31/24 09:01	8
Bromomethane	ND		8.0	5.5	ug/L			10/31/24 09:01	8
Carbon disulfide	ND		8.0	1.5	ug/L			10/31/24 09:01	8
Carbon tetrachloride	ND		8.0	2.2	ug/L			10/31/24 09:01	8
Chlorobenzene	ND		8.0	6.0	ug/L			10/31/24 09:01	8
Dibromochloromethane	ND		8.0	2.6	ug/L			10/31/24 09:01	8
Chloroethane	ND		8.0	2.6	ug/L			10/31/24 09:01	8
Chloroform	ND		8.0	2.7	ug/L			10/31/24 09:01	8
Chloromethane	ND		8.0	2.8	ug/L			10/31/24 09:01	8
cis-1,2-Dichloroethene	ND		8.0	6.5	ug/L			10/31/24 09:01	8
cis-1,3-Dichloropropene	ND		8.0	2.9	ug/L			10/31/24 09:01	8
Cyclohexane	ND		8.0	1.4	ug/L			10/31/24 09:01	8
Dichlorodifluoromethane	ND		8.0	5.4	ug/L			10/31/24 09:01	8
Ethylbenzene	**9.6**		8.0	5.9	ug/L			10/31/24 09:01	8
Isopropylbenzene	ND		8.0	6.3	ug/L			10/31/24 09:01	8
Methyl acetate	ND		20	10	ug/L			10/31/24 09:01	8
Methyl tert-butyl ether	ND		8.0	1.3	ug/L			10/31/24 09:01	8
Methylcyclohexane	ND		8.0	1.3	ug/L			10/31/24 09:01	8
Methylene Chloride	**12**		8.0	3.5	ug/L			10/31/24 09:01	8
Styrene	ND		8.0	5.8	ug/L			10/31/24 09:01	8
Tetrachloroethene	ND		8.0	2.9	ug/L			10/31/24 09:01	8
Toluene	**56**		8.0	4.1	ug/L			10/31/24 09:01	8
trans-1,2-Dichloroethene	ND		8.0	7.2	ug/L			10/31/24 09:01	8
trans-1,3-Dichloropropene	ND		8.0	3.0	ug/L			10/31/24 09:01	8
Trichloroethene	ND		8.0	3.7	ug/L			10/31/24 09:01	8
Trichlorofluoromethane	ND		8.0	7.0	ug/L			10/31/24 09:01	8
Vinyl chloride	ND		8.0	7.2	ug/L			10/31/24 09:01	8
Xylenes, Total	**220**		16	5.3	ug/L			10/31/24 09:01	8

Client Sample ID: MW-BCP-19A-10252024

Date Collected: 10/25/24 09:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-19

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*10/31/24 09:01*	*8*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/31/24 09:01*	*8*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*10/31/24 09:01*	*8*
Dibromofluoromethane (Surr)	*89*		*75 - 123*		*10/31/24 09:01*	*8*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1500	200	ug/L		10/28/24 14:16	10/30/24 12:34	300
bis (2-chloroisopropyl) ether	ND		1500	160	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,4,5-Trichlorophenol	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,4,6-Trichlorophenol	ND		1500	180	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,4-Dichlorophenol	ND		1500	150	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,4-Dimethylphenol	**530**	**J**	1500	150	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,4-Dinitrophenol	ND		3000	670	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,4-Dinitrotoluene	ND		1500	130	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,6-Dinitrotoluene	ND		1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
2-Chloronaphthalene	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
2-Chlorophenol	ND		1500	160	ug/L		10/28/24 14:16	10/30/24 12:34	300
2-Methylnaphthalene	**370**	**J**	1500	180	ug/L		10/28/24 14:16	10/30/24 12:34	300
2-Methylphenol	**410**	**J**	1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
2-Nitroaniline	ND		3000	130	ug/L		10/28/24 14:16	10/30/24 12:34	300
2-Nitrophenol	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
3,3'-Dichlorobenzidine	ND		1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
3-Nitroaniline	ND		3000	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
4,6-Dinitro-2-methylphenol	ND		3000	660	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Bromophenyl phenyl ether	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Chloro-3-methylphenol	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Chloroaniline	ND		1500	180	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Chlorophenyl phenyl ether	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Methylphenol	ND		3000	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Nitroaniline	ND		3000	75	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Nitrophenol	ND	*+	3000	460	ug/L		10/28/24 14:16	10/30/24 12:34	300
Acenaphthene	ND		1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
Acenaphthylene	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
Acetophenone	ND		1500	160	ug/L		10/28/24 14:16	10/30/24 12:34	300
Anthracene	ND		1500	84	ug/L		10/28/24 14:16	10/30/24 12:34	300
Atrazine	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
Benzaldehyde	ND		1500	80	ug/L		10/28/24 14:16	10/30/24 12:34	300
Benzo(a)anthracene	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
Benzo(a)pyrene	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
Benzo(b)fluoranthene	ND		1500	100	ug/L		10/28/24 14:16	10/30/24 12:34	300
Benzo(g,h,i)perylene	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
Benzo(k)fluoranthene	ND		1500	220	ug/L		10/28/24 14:16	10/30/24 12:34	300
Bis(2-chloroethoxy)methane	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
Bis(2-chloroethyl)ether	ND		1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
Bis(2-ethylhexyl) phthalate	ND		1500	660	ug/L		10/28/24 14:16	10/30/24 12:34	300
Butyl benzyl phthalate	ND		1500	300	ug/L		10/28/24 14:16	10/30/24 12:34	300
Caprolactam	ND		1500	660	ug/L		10/28/24 14:16	10/30/24 12:34	300
Carbazole	**110**	**J**	1500	90	ug/L		10/28/24 14:16	10/30/24 12:34	300
Chrysene	ND		1500	99	ug/L		10/28/24 14:16	10/30/24 12:34	300

Client Sample ID: MW-BCP-19A-10252024

Lab Sample ID: 480-224869-19

Date Collected: 10/25/24 09:40

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		1500	93	ug/L		10/28/24 14:16	10/30/24 12:34	300
Di-n-octyl phthalate	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
Dibenz(a,h)anthracene	ND		1500	130	ug/L		10/28/24 14:16	10/30/24 12:34	300
Dibenzofuran	ND		3000	150	ug/L		10/28/24 14:16	10/30/24 12:34	300
Diethyl phthalate	ND		1500	66	ug/L		10/28/24 14:16	10/30/24 12:34	300
Dimethyl phthalate	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
Fluoranthene	ND		1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
Fluorene	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
Hexachlorobenzene	ND		1500	150	ug/L		10/28/24 14:16	10/30/24 12:34	300
Hexachlorobutadiene	ND		1500	200	ug/L		10/28/24 14:16	10/30/24 12:34	300
Hexachlorocyclopentadiene	ND		1500	180	ug/L		10/28/24 14:16	10/30/24 12:34	300
Hexachloroethane	ND		1500	180	ug/L		10/28/24 14:16	10/30/24 12:34	300
Indeno(1,2,3-cd)pyrene	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
Isophorone	ND		1500	130	ug/L		10/28/24 14:16	10/30/24 12:34	300
N-Nitrosodi-n-propylamine	ND		1500	160	ug/L		10/28/24 14:16	10/30/24 12:34	300
N-Nitrosodiphenylamine	ND		1500	150	ug/L		10/28/24 14:16	10/30/24 12:34	300
Naphthalene	**5800**		1500	230	ug/L		10/28/24 14:16	10/30/24 12:34	300
Nitrobenzene	ND		1500	87	ug/L		10/28/24 14:16	10/30/24 12:34	300
Pentachlorophenol	ND		3000	660	ug/L		10/28/24 14:16	10/30/24 12:34	300
Phenanthrene	ND		1500	130	ug/L		10/28/24 14:16	10/30/24 12:34	300
Phenol	ND		1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
Pyrene	ND		1500	100	ug/L		10/28/24 14:16	10/30/24 12:34	300

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*S1-*	*25 - 144*	*10/28/24 14:16*	*10/30/24 12:34*	*300*
2-Fluorobiphenyl	*88*		*53 - 126*	*10/28/24 14:16*	*10/30/24 12:34*	*300*
2-Fluorophenol	*0*	*S1-*	*24 - 120*	*10/28/24 14:16*	*10/30/24 12:34*	*300*
Nitrobenzene-d5	*0*	*S1-*	*29 - 129*	*10/28/24 14:16*	*10/30/24 12:34*	*300*
p-Terphenyl-d14	*58*		*33 - 132*	*10/28/24 14:16*	*10/30/24 12:34*	*300*
Phenol-d5	*0*	*S1-*	*10 - 120*	*10/28/24 14:16*	*10/30/24 12:34*	*300*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00040	0.000084	mg/L		10/30/24 12:00	10/30/24 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**37.0**		0.51	0.23	mg/L			10/31/24 01:40	25.71

Client Sample ID: MW-BCP-20A-10252024

Lab Sample ID: 480-224869-20

Date Collected: 10/25/24 10:20

Matrix: Water

Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.17**		0.020	0.0090	mg/L			10/31/24 00:27	1

Client Sample ID: MW-BCP-20B-10252024
Lab Sample ID: 480-224869-21
Date Collected: 10/25/24 10:35
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/31/24 00:28	1

Client Sample ID: MW-BCP-17A-10242024
Lab Sample ID: 480-224869-22
Date Collected: 10/24/24 03:00
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/31/24 00:29	1

Client Sample ID: MW-BCP-21C-10252024
Lab Sample ID: 480-224869-23
Date Collected: 10/25/24 11:20
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.34**		0.020	0.0090	mg/L			10/31/24 00:32	1

Client Sample ID: MW-BCP-17B-10242024
Lab Sample ID: 480-224869-24
Date Collected: 10/24/24 08:40
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.049**		0.020	0.0090	mg/L			10/31/24 00:33	1
Cyanide, Total (SW846 9012B)	**0.0075**	**J F1 B**	0.010	0.0041	mg/L			10/30/24 09:51	1

Client Sample ID: MW-BCP-27A-10252024
Lab Sample ID: 480-224869-25
Date Collected: 10/24/24 02:30
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0015**		0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**1.1**		0.020	0.0090	mg/L			10/31/24 00:34	1
Cyanide, Total (SW846 9012B)	**16.8**	**B**	0.50	0.21	mg/L			10/30/24 12:35	50

Surrogate Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224869-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-224869-1	MW-BCP-09A-10252024	96	100	110	98
480-224869-3	MW-BCP-10A-10242024	95	92	113	93
480-224869-3 - DL	MW-BCP-10A-10242024	95	99	105	98
480-224869-5	MW-BCP-11A-10242024	93	101	108	94
480-224869-7	MW-BCP-12A-10242024	94	99	108	94
480-224869-9	MW-BCP-13A-10252024	92	100	110	91
480-224869-9 MS	MW-BCP-13A-10252024	100	101	110	92
480-224869-9 MSD	MW-BCP-13A-10252024	97	100	107	95
480-224869-10	MW-BCP-13B-10252024	98	96	111	96
480-224869-11	MW-BCP-24A-10252024	102	101	109	98
480-224869-12	MW-BCP-25A-10252024	101	102	107	97
480-224869-13	MW-BCP-19B-10252024	100	98	109	96
480-224869-18	MW-BCP-21A-10252024	95	99	104	92
480-224869-19	MW-BCP-19A-10252024	92	100	111	89
LCS 480-730495/6	Lab Control Sample	95	98	106	93
LCS 480-730696/6	Lab Control Sample	93	101	112	93
MB 480-730495/8	Method Blank	96	102	109	90
MB 480-730696/8	Method Blank	101	100	112	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(33-132)	(10-120)
480-224869-1	MW-BCP-09A-10252024	66	68	56	77	40	41
480-224869-3	MW-BCP-10A-10242024	93	71	0 S1-	73	66	44
480-224869-3 - DL	MW-BCP-10A-10242024	0 S1-	75	0 S1-	129	66	0 S1-
480-224869-5	MW-BCP-11A-10242024	79	82	63	91	79	46
480-224869-7	MW-BCP-12A-10242024	86	78	61	84	69	43
480-224869-9	MW-BCP-13A-10252024	0 S1-	74	0 S1-	0 S1-	0 S1-	0 S1-
480-224869-10	MW-BCP-13B-10252024	84	78	58	61	51	48
480-224869-10 - DL	MW-BCP-13B-10252024	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
480-224869-11	MW-BCP-24A-10252024	86	94	73	104	83	55
480-224869-12	MW-BCP-25A-10252024	84	86	70	95	69	53
480-224869-13	MW-BCP-19B-10252024	97	91	69	100	70	51
480-224869-13 - DL	MW-BCP-19B-10252024	83	86	67	94	69	49
480-224869-18	MW-BCP-21A-10252024	93	89	70	100	48	52
480-224869-19	MW-BCP-19A-10252024	0 S1-	88	0 S1-	0 S1-	58	0 S1-
LCS 480-730138/2-A	Lab Control Sample	89	85	67	91	93	53
MB 480-730138/1-A	Method Blank	71	70	56	83	91	43

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl

Surrogate Summary

Client: Inventum Engineering LLC
Job ID: 480-224869-1
Project/Site: Ammonia SCO

2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

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

Lab Sample ID: MB 480-730495/8
Matrix: Water
Analysis Batch: 730495

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	ND		1.0	0.82	ug/L			10/31/24 03:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 03:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 03:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 03:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 03:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 03:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 03:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 03:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 03:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 03:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 03:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 03:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 03:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 03:02	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 03:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 03:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 03:02	1
Acetone	ND		10	3.0	ug/L			10/31/24 03:02	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 03:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 03:02	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 03:02	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 03:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 03:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 03:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 03:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 03:02	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 03:02	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 03:02	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 03:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 03:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 03:02	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 03:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 03:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 03:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 03:02	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 03:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/24 03:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 03:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/31/24 03:02	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 03:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 03:02	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 03:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 03:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 03:02	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 03:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 03:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 03:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 03:02	1

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

Lab Sample ID: MB 480-730495/8
Matrix: Water
Analysis Batch: 730495

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/31/24 03:02*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/31/24 03:02*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*10/31/24 03:02*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 123*		*10/31/24 03:02*	*1*

Lab Sample ID: LCS 480-730495/6
Matrix: Water
Analysis Batch: 730495

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	25.3		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.6		ug/L		87	76 - 120
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.2		ug/L		89	61 - 148
1,1-Dichloroethane	25.0	23.4		ug/L		93	77 - 120
1,1-Dichloroethene	25.0	23.0		ug/L		92	66 - 127
1,2,4-Trichlorobenzene	25.0	22.5		ug/L		90	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.5		ug/L		94	56 - 134
1,2-Dibromoethane	25.0	24.1		ug/L		97	77 - 120
1,2-Dichlorobenzene	25.0	21.9		ug/L		87	80 - 124
1,2-Dichloroethane	25.0	25.0		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	23.2		ug/L		93	76 - 120
1,3-Dichlorobenzene	25.0	21.8		ug/L		87	77 - 120
1,4-Dichlorobenzene	25.0	21.3		ug/L		85	80 - 120
2-Hexanone	125	116		ug/L		93	65 - 127
2-Butanone (MEK)	125	115		ug/L		92	57 - 140
4-Methyl-2-pentanone (MIBK)	125	116		ug/L		93	71 - 125
Acetone	125	115		ug/L		92	56 - 142
Benzene	25.0	22.9		ug/L		92	71 - 124
Bromodichloromethane	25.0	26.2		ug/L		105	80 - 122
Bromoform	25.0	24.9		ug/L		100	61 - 132
Bromomethane	25.0	19.3		ug/L		77	55 - 144
Carbon disulfide	25.0	21.2		ug/L		85	59 - 134
Carbon tetrachloride	25.0	23.7		ug/L		95	72 - 134
Chlorobenzene	25.0	24.6		ug/L		99	80 - 120
Dibromochloromethane	25.0	24.7		ug/L		99	75 - 125
Chloroethane	25.0	18.5		ug/L		74	69 - 136
Chloroform	25.0	23.0		ug/L		92	73 - 127
Chloromethane	25.0	21.8		ug/L		87	68 - 124
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	23.4		ug/L		94	74 - 124
Cyclohexane	25.0	23.1		ug/L		93	59 - 135
Dichlorodifluoromethane	25.0	22.7		ug/L		91	59 - 135
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
Isopropylbenzene	25.0	22.0		ug/L		88	77 - 122
Methyl acetate	50.0	42.1		ug/L		84	74 - 133
Methyl tert-butyl ether	25.0	23.0		ug/L		92	77 - 120
Methylcyclohexane	25.0	24.4		ug/L		98	68 - 134

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

Lab Sample ID: LCS 480-730495/6
Matrix: Water
Analysis Batch: 730495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methylene Chloride			25.0	23.0		ug/L		92	75 - 124		
Styrene			25.0	22.6		ug/L		90	80 - 120		
Tetrachloroethene			25.0	23.0		ug/L		92	74 - 122		
Toluene			25.0	25.1		ug/L		100	80 - 122		
trans-1,2-Dichloroethene			25.0	23.9		ug/L		96	73 - 127		
trans-1,3-Dichloropropene			25.0	24.1		ug/L		96	80 - 120		
Trichloroethene			25.0	23.7		ug/L		95	74 - 123		
Trichlorofluoromethane			25.0	22.9		ug/L		92	62 - 150		
Vinyl chloride			25.0	20.1		ug/L		80	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*

Lab Sample ID: 480-224869-9 MS
Matrix: Water
Analysis Batch: 730495

Client Sample ID: MW-BCP-13A-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane	ND		2500	2550		ug/L		102	73 - 126		
1,1,2,2-Tetrachloroethane	ND		2500	2080		ug/L		83	76 - 120		
1,1,2-Trichloroethane	ND		2500	2500		ug/L		100	76 - 122		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	2230		ug/L		89	61 - 148		
1,1-Dichloroethane	ND		2500	2430		ug/L		97	77 - 120		
1,1-Dichloroethene	ND		2500	2300		ug/L		92	66 - 127		
1,2,4-Trichlorobenzene	ND		2500	2220		ug/L		89	79 - 122		
1,2-Dibromo-3-Chloropropane	ND		2500	2310		ug/L		92	56 - 134		
1,2-Dibromoethane	ND		2500	2250		ug/L		90	77 - 120		
1,2-Dichlorobenzene	ND		2500	2210		ug/L		88	80 - 124		
1,2-Dichloroethane	ND		2500	2500		ug/L		100	75 - 120		
1,2-Dichloropropane	ND		2500	2410		ug/L		96	76 - 120		
1,3-Dichlorobenzene	ND		2500	2200		ug/L		88	77 - 120		
1,4-Dichlorobenzene	ND		2500	2120		ug/L		85	78 - 124		
2-Hexanone	ND		12500	11600		ug/L		93	65 - 127		
2-Butanone (MEK)	ND		12500	11400		ug/L		91	57 - 140		
4-Methyl-2-pentanone (MIBK)	ND		12500	11900		ug/L		95	71 - 125		
Acetone	ND		12500	10700		ug/L		85	56 - 142		
Benzene	2600		2500	5000		ug/L		96	71 - 124		
Bromodichloromethane	ND		2500	2540		ug/L		102	80 - 122		
Bromoform	ND		2500	2390		ug/L		96	61 - 132		
Bromomethane	ND		2500	2130		ug/L		85	55 - 144		
Carbon disulfide	ND		2500	2190		ug/L		88	59 - 134		
Carbon tetrachloride	ND		2500	2530		ug/L		101	72 - 134		
Chlorobenzene	ND		2500	2580		ug/L		103	80 - 120		
Dibromochloromethane	ND		2500	2430		ug/L		97	75 - 125		
Chloroethane	ND		2500	2020		ug/L		81	69 - 136		

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

Lab Sample ID: 480-224869-9 MS
Matrix: Water
Analysis Batch: 730495

Client Sample ID: MW-BCP-13A-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	ND		2500	2330		ug/L		93	73 - 127
Chloromethane	ND		2500	2280		ug/L		91	68 - 124
cis-1,2-Dichloroethene	ND		2500	2330		ug/L		93	74 - 124
cis-1,3-Dichloropropene	ND		2500	2260		ug/L		90	74 - 124
Cyclohexane	ND		2500	2380		ug/L		95	59 - 135
Dichlorodifluoromethane	ND		2500	2510		ug/L		101	59 - 135
Ethylbenzene	ND		2500	2570		ug/L		103	77 - 123
Isopropylbenzene	ND		2500	2190		ug/L		87	77 - 122
Methyl acetate	ND		5000	4300		ug/L		86	74 - 133
Methyl tert-butyl ether	ND		2500	2330		ug/L		93	77 - 120
Methylcyclohexane	ND		2500	2400		ug/L		96	68 - 134
Methylene Chloride	87	J	2500	2500		ug/L		96	75 - 124
Styrene	ND		2500	2430		ug/L		97	80 - 120
Tetrachloroethene	ND		2500	2450		ug/L		98	74 - 122
Toluene	940		2500	3520		ug/L		103	80 - 122
trans-1,2-Dichloroethene	ND		2500	2410		ug/L		96	73 - 127
trans-1,3-Dichloropropene	ND		2500	2550		ug/L		102	80 - 120
Trichloroethene	ND		2500	2470		ug/L		99	74 - 123
Trichlorofluoromethane	ND		2500	2420		ug/L		97	62 - 150
Vinyl chloride	ND		2500	2030		ug/L		81	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*
Dibromofluoromethane (Surr)	*92*		*75 - 123*

Lab Sample ID: 480-224869-9 MSD
Matrix: Water
Analysis Batch: 730495

Client Sample ID: MW-BCP-13A-10252024
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	ND		2500	2530		ug/L		101	73 - 126	0	15
1,1,2,2-Tetrachloroethane	ND		2500	2190		ug/L		88	76 - 120	5	15
1,1,2-Trichloroethane	ND		2500	2350		ug/L		94	76 - 122	6	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	2300		ug/L		92	61 - 148	3	20
1,1-Dichloroethane	ND		2500	2430		ug/L		97	77 - 120	0	20
1,1-Dichloroethene	ND		2500	2360		ug/L		94	66 - 127	3	16
1,2,4-Trichlorobenzene	ND		2500	2250		ug/L		90	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		2500	2490		ug/L		100	56 - 134	8	15
1,2-Dibromoethane	ND		2500	2230		ug/L		89	77 - 120	1	15
1,2-Dichlorobenzene	ND		2500	2210		ug/L		88	80 - 124	0	20
1,2-Dichloroethane	ND		2500	2560		ug/L		102	75 - 120	2	20
1,2-Dichloropropane	ND		2500	2360		ug/L		94	76 - 120	2	20
1,3-Dichlorobenzene	ND		2500	2250		ug/L		90	77 - 120	2	20
1,4-Dichlorobenzene	ND		2500	2190		ug/L		88	78 - 124	3	20
2-Hexanone	ND		12500	11200		ug/L		90	65 - 127	3	15
2-Butanone (MEK)	ND		12500	11000		ug/L		88	57 - 140	3	20

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

Lab Sample ID: 480-224869-9 MSD
Matrix: Water
Analysis Batch: 730495

Client Sample ID: MW-BCP-13A-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	ND		12500	11300		ug/L		90	71 - 125	5	35
Acetone	ND		12500	11100		ug/L		89	56 - 142	4	15
Benzene	2600		2500	4910		ug/L		93	71 - 124	2	13
Bromodichloromethane	ND		2500	2570		ug/L		103	80 - 122	1	15
Bromoform	ND		2500	2470		ug/L		99	61 - 132	3	15
Bromomethane	ND		2500	2080		ug/L		83	55 - 144	2	15
Carbon disulfide	ND		2500	2170		ug/L		87	59 - 134	1	15
Carbon tetrachloride	ND		2500	2490		ug/L		100	72 - 134	2	15
Chlorobenzene	ND		2500	2510		ug/L		100	80 - 120	3	25
Dibromochloromethane	ND		2500	2420		ug/L		97	75 - 125	1	15
Chloroethane	ND		2500	2080		ug/L		83	69 - 136	3	15
Chloroform	ND		2500	2270		ug/L		91	73 - 127	3	20
Chloromethane	ND		2500	2270		ug/L		91	68 - 124	0	15
cis-1,2-Dichloroethene	ND		2500	2370		ug/L		95	74 - 124	2	15
cis-1,3-Dichloropropene	ND		2500	2260		ug/L		91	74 - 124	0	15
Cyclohexane	ND		2500	2420		ug/L		97	59 - 135	1	20
Dichlorodifluoromethane	ND		2500	2560		ug/L		102	59 - 135	2	20
Ethylbenzene	ND		2500	2570		ug/L		103	77 - 123	0	15
Isopropylbenzene	ND		2500	2240		ug/L		90	77 - 122	3	20
Methyl acetate	ND		5000	4180		ug/L		84	74 - 133	3	20
Methyl tert-butyl ether	ND		2500	2360		ug/L		95	77 - 120	2	37
Methylcyclohexane	ND		2500	2430		ug/L		97	68 - 134	1	20
Methylene Chloride	87	J	2500	2690		ug/L		104	75 - 124	7	15
Styrene	ND		2500	2380		ug/L		95	80 - 120	2	20
Tetrachloroethene	ND		2500	2270		ug/L		91	74 - 122	8	20
Toluene	940		2500	3330		ug/L		96	80 - 122	5	15
trans-1,2-Dichloroethene	ND		2500	2350		ug/L		94	73 - 127	3	20
trans-1,3-Dichloropropene	ND		2500	2450		ug/L		98	80 - 120	4	15
Trichloroethene	ND		2500	2470		ug/L		99	74 - 123	0	16
Trichlorofluoromethane	ND		2500	2420		ug/L		97	62 - 150	0	20
Vinyl chloride	ND		2500	2030		ug/L		81	65 - 133	0	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*

Lab Sample ID: MB 480-730696/8
Matrix: Water
Analysis Batch: 730696

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	ND		1.0	0.82	ug/L			11/01/24 00:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/01/24 00:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/01/24 00:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/01/24 00:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/01/24 00:06	1

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

Lab Sample ID: MB 480-730696/8
Matrix: Water
Analysis Batch: 730696

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/01/24 00:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/01/24 00:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/01/24 00:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/01/24 00:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/01/24 00:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/01/24 00:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/01/24 00:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/01/24 00:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/01/24 00:06	1
2-Hexanone	ND		5.0	1.2	ug/L			11/01/24 00:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/01/24 00:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/01/24 00:06	1
Acetone	ND		10	3.0	ug/L			11/01/24 00:06	1
Benzene	ND		1.0	0.41	ug/L			11/01/24 00:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/01/24 00:06	1
Bromoform	ND		1.0	0.26	ug/L			11/01/24 00:06	1
Bromomethane	ND		1.0	0.69	ug/L			11/01/24 00:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/01/24 00:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/01/24 00:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/01/24 00:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/01/24 00:06	1
Chloroethane	ND		1.0	0.32	ug/L			11/01/24 00:06	1
Chloroform	ND		1.0	0.34	ug/L			11/01/24 00:06	1
Chloromethane	ND		1.0	0.35	ug/L			11/01/24 00:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/01/24 00:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/01/24 00:06	1
Cyclohexane	ND		1.0	0.18	ug/L			11/01/24 00:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/01/24 00:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/01/24 00:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/01/24 00:06	1
Methyl acetate	ND		2.5	1.3	ug/L			11/01/24 00:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/01/24 00:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/01/24 00:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/01/24 00:06	1
Styrene	ND		1.0	0.73	ug/L			11/01/24 00:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/01/24 00:06	1
Toluene	ND		1.0	0.51	ug/L			11/01/24 00:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/01/24 00:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/01/24 00:06	1
Trichloroethene	ND		1.0	0.46	ug/L			11/01/24 00:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/01/24 00:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/01/24 00:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/01/24 00:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*11/01/24 00:06*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/01/24 00:06*	*1*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*		*11/01/24 00:06*	*1*

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

Lab Sample ID: MB 480-730696/8
Matrix: Water
Analysis Batch: 730696

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		75 - 123		11/01/24 00:06	1

Lab Sample ID: LCS 480-730696/6
Matrix: Water
Analysis Batch: 730696

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	24.1		ug/L		97	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.9		ug/L		88	76 - 120
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.5		ug/L		82	61 - 148
1,1-Dichloroethane	25.0	21.6		ug/L		86	77 - 120
1,1-Dichloroethene	25.0	20.7		ug/L		83	66 - 127
1,2,4-Trichlorobenzene	25.0	21.6		ug/L		86	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.4		ug/L		98	56 - 134
1,2-Dibromoethane	25.0	23.0		ug/L		92	77 - 120
1,2-Dichlorobenzene	25.0	21.8		ug/L		87	80 - 124
1,2-Dichloroethane	25.0	24.2		ug/L		97	75 - 120
1,2-Dichloropropane	25.0	22.8		ug/L		91	76 - 120
1,3-Dichlorobenzene	25.0	22.6		ug/L		90	77 - 120
1,4-Dichlorobenzene	25.0	21.4		ug/L		86	80 - 120
2-Hexanone	125	126		ug/L		101	65 - 127
2-Butanone (MEK)	125	122		ug/L		98	57 - 140
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	71 - 125
Acetone	125	119		ug/L		95	56 - 142
Benzene	25.0	21.5		ug/L		86	71 - 124
Bromodichloromethane	25.0	25.2		ug/L		101	80 - 122
Bromoform	25.0	24.8		ug/L		99	61 - 132
Bromomethane	25.0	17.7		ug/L		71	55 - 144
Carbon disulfide	25.0	19.3		ug/L		77	59 - 134
Carbon tetrachloride	25.0	22.8		ug/L		91	72 - 134
Chlorobenzene	25.0	24.4		ug/L		98	80 - 120
Dibromochloromethane	25.0	23.3		ug/L		93	75 - 125
Chloroethane	25.0	17.7		ug/L		71	69 - 136
Chloroform	25.0	21.5		ug/L		86	73 - 127
Chloromethane	25.0	19.8		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	22.4		ug/L		90	74 - 124
cis-1,3-Dichloropropene	25.0	22.7		ug/L		91	74 - 124
Cyclohexane	25.0	21.4		ug/L		86	59 - 135
Dichlorodifluoromethane	25.0	21.9		ug/L		87	59 - 135
Ethylbenzene	25.0	24.3		ug/L		97	77 - 123
Isopropylbenzene	25.0	21.8		ug/L		87	77 - 122
Methyl acetate	50.0	42.8		ug/L		86	74 - 133
Methyl tert-butyl ether	25.0	22.6		ug/L		90	77 - 120
Methylcyclohexane	25.0	22.8		ug/L		91	68 - 134
Methylene Chloride	25.0	22.9		ug/L		92	75 - 124
Styrene	25.0	22.7		ug/L		91	80 - 120
Tetrachloroethene	25.0	22.6		ug/L		90	74 - 122

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

Lab Sample ID: LCS 480-730696/6
Matrix: Water
Analysis Batch: 730696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	25.0	24.9		ug/L		100	80 - 122
trans-1,2-Dichloroethene	25.0	20.6		ug/L		82	73 - 127
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	80 - 120
Trichloroethene	25.0	22.6		ug/L		90	74 - 123
Trichlorofluoromethane	25.0	22.9		ug/L		92	62 - 150
Vinyl chloride	25.0	19.6		ug/L		78	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-730138/1-A
Matrix: Water
Analysis Batch: 730212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		10/28/24 14:16	10/29/24 13:06	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 13:06	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 13:06	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/28/24 14:16	10/29/24 13:06	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		10/28/24 14:16	10/29/24 13:06	1
2-Methylphenol	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 13:06	1
2-Nitroaniline	ND		10	0.42	ug/L		10/28/24 14:16	10/29/24 13:06	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 13:06	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 13:06	1
3-Nitroaniline	ND		10	0.48	ug/L		10/28/24 14:16	10/29/24 13:06	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Methylphenol	ND		10	0.36	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Nitroaniline	ND		10	0.25	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Nitrophenol	ND		10	1.5	ug/L		10/28/24 14:16	10/29/24 13:06	1
Acenaphthene	ND		5.0	0.41	ug/L		10/28/24 14:16	10/29/24 13:06	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/28/24 14:16	10/29/24 13:06	1
Acetophenone	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 13:06	1
Anthracene	ND		5.0	0.28	ug/L		10/28/24 14:16	10/29/24 13:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-730138/1-A
Matrix: Water
Analysis Batch: 730212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 13:06	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/28/24 14:16	10/29/24 13:06	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 13:06	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 13:06	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		10/28/24 14:16	10/29/24 13:06	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 13:06	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/28/24 14:16	10/29/24 13:06	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 13:06	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 13:06	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 13:06	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/28/24 14:16	10/29/24 13:06	1
Caprolactam	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 13:06	1
Carbazole	ND		5.0	0.30	ug/L		10/28/24 14:16	10/29/24 13:06	1
Chrysene	ND		5.0	0.33	ug/L		10/28/24 14:16	10/29/24 13:06	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/28/24 14:16	10/29/24 13:06	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 13:06	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/28/24 14:16	10/29/24 13:06	1
Dibenzofuran	ND		10	0.51	ug/L		10/28/24 14:16	10/29/24 13:06	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/28/24 14:16	10/29/24 13:06	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 13:06	1
Fluoranthene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 13:06	1
Fluorene	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 13:06	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 13:06	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/28/24 14:16	10/29/24 13:06	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 13:06	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 13:06	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 13:06	1
Isophorone	ND		5.0	0.43	ug/L		10/28/24 14:16	10/29/24 13:06	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 13:06	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 13:06	1
Naphthalene	ND		5.0	0.76	ug/L		10/28/24 14:16	10/29/24 13:06	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/28/24 14:16	10/29/24 13:06	1
Pentachlorophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 13:06	1
Phenanthrene	ND		5.0	0.44	ug/L		10/28/24 14:16	10/29/24 13:06	1
Phenol	ND		5.0	0.39	ug/L		10/28/24 14:16	10/29/24 13:06	1
Pyrene	ND		5.0	0.34	ug/L		10/28/24 14:16	10/29/24 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*25 - 144*	*10/28/24 14:16*	*10/29/24 13:06*	*1*
2-Fluorobiphenyl	*70*		*53 - 126*	*10/28/24 14:16*	*10/29/24 13:06*	*1*
2-Fluorophenol	*56*		*24 - 120*	*10/28/24 14:16*	*10/29/24 13:06*	*1*
Nitrobenzene-d5	*83*		*29 - 129*	*10/28/24 14:16*	*10/29/24 13:06*	*1*
p-Terphenyl-d14	*91*		*33 - 132*	*10/28/24 14:16*	*10/29/24 13:06*	*1*
Phenol-d5	*43*		*10 - 120*	*10/28/24 14:16*	*10/29/24 13:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-730138/2-A
Matrix: Water
Analysis Batch: 730212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	32.0	26.6		ug/L		83	59 - 120
bis (2-chloroisopropyl) ether	32.0	36.3		ug/L		114	21 - 136
2,4,5-Trichlorophenol	32.0	29.7		ug/L		93	65 - 126
2,4,6-Trichlorophenol	32.0	28.2		ug/L		88	64 - 120
2,4-Dichlorophenol	32.0	27.0		ug/L		84	63 - 120
2,4-Dimethylphenol	32.0	30.8		ug/L		96	47 - 120
2,4-Dinitrophenol	64.0	63.2		ug/L		99	31 - 137
2,4-Dinitrotoluene	32.0	31.9		ug/L		100	69 - 120
2,6-Dinitrotoluene	32.0	30.3		ug/L		95	68 - 120
2-Chloronaphthalene	32.0	26.5		ug/L		83	58 - 120
2-Chlorophenol	32.0	26.5		ug/L		83	48 - 120
2-Methylnaphthalene	32.0	25.4		ug/L		80	59 - 120
2-Methylphenol	32.0	27.5		ug/L		86	39 - 120
2-Nitroaniline	32.0	38.6		ug/L		121	54 - 127
2-Nitrophenol	32.0	28.0		ug/L		88	52 - 125
3,3'-Dichlorobenzidine	32.0	22.7		ug/L		71	49 - 135
3-Nitroaniline	32.0	23.7		ug/L		74	51 - 120
4,6-Dinitro-2-methylphenol	64.0	66.1		ug/L		103	46 - 136
4-Bromophenyl phenyl ether	32.0	27.3		ug/L		85	65 - 120
4-Chloro-3-methylphenol	32.0	31.7		ug/L		99	61 - 123
4-Chloroaniline	32.0	18.5		ug/L		58	30 - 120
4-Chlorophenyl phenyl ether	32.0	27.8		ug/L		87	62 - 120
4-Methylphenol	32.0	28.1		ug/L		88	29 - 131
4-Nitroaniline	32.0	29.5		ug/L		92	65 - 120
4-Nitrophenol	64.0	81.5	*+	ug/L		127	45 - 120
Acenaphthene	32.0	29.0		ug/L		91	60 - 120
Acenaphthylene	32.0	30.0		ug/L		94	63 - 120
Acetophenone	32.0	30.9		ug/L		97	45 - 120
Anthracene	32.0	32.4		ug/L		101	67 - 120
Atrazine	64.0	73.5	E	ug/L		115	71 - 130
Benzaldehyde	64.0	63.8		ug/L		100	10 - 140
Benzo(a)anthracene	32.0	31.8		ug/L		99	70 - 121
Benzo(a)pyrene	32.0	31.1		ug/L		97	60 - 123
Benzo(b)fluoranthene	32.0	30.9		ug/L		97	66 - 126
Benzo(g,h,i)perylene	32.0	32.1		ug/L		100	66 - 150
Benzo(k)fluoranthene	32.0	30.4		ug/L		95	65 - 124
Bis(2-chloroethoxy)methane	32.0	28.1		ug/L		88	50 - 128
Bis(2-chloroethyl)ether	32.0	29.8		ug/L		93	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	38.1		ug/L		119	63 - 139
Butyl benzyl phthalate	32.0	37.8		ug/L		118	70 - 129
Caprolactam	64.0	23.5		ug/L		37	22 - 120
Carbazole	32.0	30.7		ug/L		96	66 - 123
Chrysene	32.0	31.2		ug/L		98	69 - 120
Di-n-butyl phthalate	32.0	36.7		ug/L		115	69 - 131
Di-n-octyl phthalate	32.0	37.3		ug/L		116	63 - 140
Dibenz(a,h)anthracene	32.0	31.8		ug/L		99	65 - 135
Dibenzofuran	32.0	28.8		ug/L		90	66 - 120
Diethyl phthalate	32.0	36.1		ug/L		113	59 - 127

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-730138/2-A
Matrix: Water
Analysis Batch: 730212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethyl phthalate	32.0	32.4		ug/L		101	68 - 120
Fluoranthene	32.0	32.1		ug/L		100	69 - 126
Fluorene	32.0	29.1		ug/L		91	66 - 120
Hexachlorobenzene	32.0	28.1		ug/L		88	61 - 120
Hexachlorobutadiene	32.0	19.7		ug/L		62	35 - 120
Hexachlorocyclopentadiene	32.0	10.1		ug/L		31	31 - 120
Hexachloroethane	32.0	25.1		ug/L		78	33 - 120
Indeno(1,2,3-cd)pyrene	32.0	32.2		ug/L		101	69 - 146
Isophorone	32.0	31.7		ug/L		99	55 - 120
N-Nitrosodi-n-propylamine	32.0	32.0		ug/L		100	32 - 140
N-Nitrosodiphenylamine	32.0	30.4		ug/L		95	61 - 120
Naphthalene	32.0	25.2		ug/L		79	57 - 120
Nitrobenzene	32.0	31.0		ug/L		97	53 - 123
Pentachlorophenol	64.0	52.6		ug/L		82	10 - 136
Phenanthrene	32.0	31.8		ug/L		99	68 - 120
Phenol	32.0	18.1		ug/L		57	17 - 120
Pyrene	32.0	33.4		ug/L		104	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*89*		*25 - 144*
2-Fluorobiphenyl	*85*		*53 - 126*
2-Fluorophenol	*67*		*24 - 120*
Nitrobenzene-d5	*91*		*29 - 129*
p-Terphenyl-d14	*93*		*33 - 132*
Phenol-d5	*53*		*10 - 120*

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-730387/1-A
Matrix: Water
Analysis Batch: 730556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 14:56	1

Lab Sample ID: LCS 480-730387/2-A
Matrix: Water
Analysis Batch: 730556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00605		mg/L		90	80 - 120

Lab Sample ID: 480-224869-16 MS
Matrix: Water
Analysis Batch: 730556

Client Sample ID: MW-BCP-23A-10252024
Prep Type: Total/NA
Prep Batch: 730387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000062	J	0.00669	0.00614		mg/L		91	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-224869-16 MSD — **Client Sample ID: MW-BCP-23A-10252024**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730556 — **Prep Batch: 730387**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000062	J	0.00669	0.00628		mg/L		93	80 - 120	2	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-730650/100 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0150	J	0.020	0.0090	mg/L			10/30/24 23:30	1

Lab Sample ID: MB 480-730650/116 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/31/24 00:02	1

Lab Sample ID: MB 480-730650/131 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/31/24 10:04	1

Lab Sample ID: MB 480-730650/65 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/30/24 22:32	1

Lab Sample ID: MB 480-730650/87 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/30/24 23:06	1

Lab Sample ID: LCS 480-730650/101 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.968		mg/L		97	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-730650/117
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.948		mg/L		95	90 - 110

Lab Sample ID: LCS 480-730650/132
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.958		mg/L		96	90 - 110

Lab Sample ID: LCS 480-730650/66
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.957		mg/L		96	90 - 110

Lab Sample ID: LCS 480-730650/88
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.958		mg/L		96	90 - 110

Lab Sample ID: 480-224869-4 MS
Matrix: Water
Analysis Batch: 730650

Client Sample ID: MW-BCP-10C-10242024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.17	F1	0.0800	0.243		mg/L		96	90 - 110

Lab Sample ID: 480-224869-4 MSD
Matrix: Water
Analysis Batch: 730650

Client Sample ID: MW-BCP-10C-10242024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	0.17	F1	0.0800	0.222	F1	mg/L		70	90 - 110	9	20

Lab Sample ID: 480-224869-10 MS
Matrix: Water
Analysis Batch: 730650

Client Sample ID: MW-BCP-13B-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.24	F1	0.0800	0.302	F1	mg/L		75	90 - 110

Lab Sample ID: 480-224869-16 MS
Matrix: Water
Analysis Batch: 730650

Client Sample ID: MW-BCP-23A-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.1		0.0800	1.21	4	mg/L		134	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-224869-16 MSD — **Client Sample ID: MW-BCP-23A-10252024**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	1.1		0.0800	1.12	4	mg/L		20	90 - 110	8	20

Lab Sample ID: MB 480-730651/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/31/24 00:22	1

Lab Sample ID: MB 480-730651/61 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/31/24 01:39	1

Lab Sample ID: LCS 480-730651/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.947		mg/L		95	90 - 110

Lab Sample ID: LCS 480-730651/62 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.961		mg/L		96	90 - 110

Lab Sample ID: 480-224869-17 MS — **Client Sample ID: MW-BCP-24B-10252024**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.30	F1 F2	0.0800	0.362	F1	mg/L		83	90 - 110

Lab Sample ID: 480-224869-17 MSD — **Client Sample ID: MW-BCP-24B-10252024**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	0.30	F1 F2	0.0800	0.265	F1 F2	mg/L		-39	90 - 110	31	20

Lab Sample ID: 480-224869-23 MS — **Client Sample ID: MW-BCP-21C-10252024**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.34		0.0800	0.398	4	mg/L		73	90 - 110

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-730337/103
Matrix: Water
Analysis Batch: 730337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			10/29/24 12:53	1

Lab Sample ID: HLCS 480-730337/22
Matrix: Water
Analysis Batch: 730337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.408		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-730337/104
Matrix: Water
Analysis Batch: 730337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.246		mg/L		98	90 - 110		

Lab Sample ID: MB 480-730502/21
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00470	J	0.010	0.0041	mg/L			10/30/24 08:16	1

Lab Sample ID: MB 480-730502/48
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00910	J	0.010	0.0041	mg/L			10/30/24 09:46	1

Lab Sample ID: MB 480-730502/76
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00960	J	0.010	0.0041	mg/L			10/30/24 11:19	1

Lab Sample ID: HLCS 480-730502/22
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.375		mg/L		94	90 - 110		

Lab Sample ID: LCS 480-730502/23
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.230		mg/L		92	90 - 110		

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: LCS 480-730502/49
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.260		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-730502/77
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.250		mg/L		100	90 - 110		

Lab Sample ID: 480-224869-14 MS
Matrix: Water
Analysis Batch: 730502

Client Sample ID: MW-BCP-22A-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.042	F1 B	0.100	0.125	F1	mg/L		83	90 - 110		

Lab Sample ID: 480-224869-15 MS
Matrix: Water
Analysis Batch: 730502

Client Sample ID: MW-BCP-25B-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.019	F1 B	0.100	0.105	F1	mg/L		86	90 - 110		

Lab Sample ID: 480-224869-24 MS
Matrix: Water
Analysis Batch: 730502

Client Sample ID: MW-BCP-17B-10242024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.0075	J F1 B	0.100	0.0929	F1	mg/L		85	90 - 110		

Lab Sample ID: 480-224869-15 DU
Matrix: Water
Analysis Batch: 730502

Client Sample ID: MW-BCP-25B-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	0.019	F1 B		0.0177		mg/L				8	15

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

GC/MS VOA

Analysis Batch: 730495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	8260C	
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	8260C	
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	8260C	
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	8260C	
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	8260C	
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	8260C	
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	8260C	
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	8260C	
480-224869-13	MW-BCP-19B-10252024	Total/NA	Water	8260C	
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	8260C	
480-224869-19	MW-BCP-19A-10252024	Total/NA	Water	8260C	
MB 480-730495/8	Method Blank	Total/NA	Water	8260C	
LCS 480-730495/6	Lab Control Sample	Total/NA	Water	8260C	
480-224869-9 MS	MW-BCP-13A-10252024	Total/NA	Water	8260C	
480-224869-9 MSD	MW-BCP-13A-10252024	Total/NA	Water	8260C	

Analysis Batch: 730696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-3 - DL	MW-BCP-10A-10242024	Total/NA	Water	8260C	
MB 480-730696/8	Method Blank	Total/NA	Water	8260C	
LCS 480-730696/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 730138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	3510C	
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	3510C	
480-224869-3 - DL	MW-BCP-10A-10242024	Total/NA	Water	3510C	
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	3510C	
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	3510C	
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	3510C	
480-224869-10 - DL	MW-BCP-13B-10252024	Total/NA	Water	3510C	
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	3510C	
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	3510C	
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	3510C	
480-224869-13 - DL	MW-BCP-19B-10252024	Total/NA	Water	3510C	
480-224869-13	MW-BCP-19B-10252024	Total/NA	Water	3510C	
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	3510C	
480-224869-19	MW-BCP-19A-10252024	Total/NA	Water	3510C	
MB 480-730138/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-730138/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 730212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	8270D	730138
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	8270D	730138
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	8270D	730138
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	8270D	730138
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	8270D	730138
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	8270D	730138

GC/MS Semi VOA (Continued)

Analysis Batch: 730212 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	8270D	730138
480-224869-13	MW-BCP-19B-10252024	Total/NA	Water	8270D	730138
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	8270D	730138
MB 480-730138/1-A	Method Blank	Total/NA	Water	8270D	730138
LCS 480-730138/2-A	Lab Control Sample	Total/NA	Water	8270D	730138

Analysis Batch: 730403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-3 - DL	MW-BCP-10A-10242024	Total/NA	Water	8270D	730138
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	8270D	730138
480-224869-10 - DL	MW-BCP-13B-10252024	Total/NA	Water	8270D	730138
480-224869-13 - DL	MW-BCP-19B-10252024	Total/NA	Water	8270D	730138
480-224869-19	MW-BCP-19A-10252024	Total/NA	Water	8270D	730138

Metals

Prep Batch: 730387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	7470A	
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	7470A	
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	7470A	
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	7470A	
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	7470A	
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	7470A	
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	7470A	
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	7470A	
480-224869-13	MW-BCP-19B-10252024	Total/NA	Water	7470A	
480-224869-14	MW-BCP-22A-10252024	Total/NA	Water	7470A	
480-224869-15	MW-BCP-25B-10252024	Total/NA	Water	7470A	
480-224869-16	MW-BCP-23A-10252024	Total/NA	Water	7470A	
480-224869-17	MW-BCP-24B-10252024	Total/NA	Water	7470A	
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	7470A	
480-224869-19	MW-BCP-19A-10252024	Total/NA	Water	7470A	
480-224869-25	MW-BCP-27A-10252024	Total/NA	Water	7470A	
MB 480-730387/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-730387/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-224869-16 MS	MW-BCP-23A-10252024	Total/NA	Water	7470A	
480-224869-16 MSD	MW-BCP-23A-10252024	Total/NA	Water	7470A	

Analysis Batch: 730556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	7470A	730387
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	7470A	730387
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	7470A	730387
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	7470A	730387
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	7470A	730387
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	7470A	730387
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	7470A	730387
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	7470A	730387
480-224869-13	MW-BCP-19B-10252024	Total/NA	Water	7470A	730387
480-224869-14	MW-BCP-22A-10252024	Total/NA	Water	7470A	730387

Metals (Continued)

Analysis Batch: 730556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-15	MW-BCP-25B-10252024	Total/NA	Water	7470A	730387
480-224869-16	MW-BCP-23A-10252024	Total/NA	Water	7470A	730387
480-224869-17	MW-BCP-24B-10252024	Total/NA	Water	7470A	730387
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	7470A	730387
480-224869-19	MW-BCP-19A-10252024	Total/NA	Water	7470A	730387
480-224869-25	MW-BCP-27A-10252024	Total/NA	Water	7470A	730387
MB 480-730387/1-A	Method Blank	Total/NA	Water	7470A	730387
LCS 480-730387/2-A	Lab Control Sample	Total/NA	Water	7470A	730387
480-224869-16 MS	MW-BCP-23A-10252024	Total/NA	Water	7470A	730387
480-224869-16 MSD	MW-BCP-23A-10252024	Total/NA	Water	7470A	730387

General Chemistry

Analysis Batch: 730337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	9012B	
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	9012B	
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	9012B	
MB 480-730337/103	Method Blank	Total/NA	Water	9012B	
HLCS 480-730337/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730337/104	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 730502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	9012B	
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	9012B	
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	9012B	
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	9012B	
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	9012B	
480-224869-14	MW-BCP-22A-10252024	Total/NA	Water	9012B	
480-224869-15	MW-BCP-25B-10252024	Total/NA	Water	9012B	
480-224869-16	MW-BCP-23A-10252024	Total/NA	Water	9012B	
480-224869-17	MW-BCP-24B-10252024	Total/NA	Water	9012B	
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	9012B	
480-224869-24	MW-BCP-17B-10242024	Total/NA	Water	9012B	
480-224869-25	MW-BCP-27A-10252024	Total/NA	Water	9012B	
MB 480-730502/21	Method Blank	Total/NA	Water	9012B	
MB 480-730502/48	Method Blank	Total/NA	Water	9012B	
MB 480-730502/76	Method Blank	Total/NA	Water	9012B	
HLCS 480-730502/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730502/23	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730502/49	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730502/77	Lab Control Sample	Total/NA	Water	9012B	
480-224869-14 MS	MW-BCP-22A-10252024	Total/NA	Water	9012B	
480-224869-15 MS	MW-BCP-25B-10252024	Total/NA	Water	9012B	
480-224869-24 MS	MW-BCP-17B-10242024	Total/NA	Water	9012B	
480-224869-15 DU	MW-BCP-25B-10252024	Total/NA	Water	9012B	

Analysis Batch: 730650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 730650 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-2	MW-BCP-09B-10242024	Total/NA	Water	350.1	
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	350.1	
480-224869-4	MW-BCP-10C-10242024	Total/NA	Water	350.1	
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	350.1	
480-224869-6	MW-BCP-11B-10242024	Total/NA	Water	350.1	
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	350.1	
480-224869-8	MW-BCP-12B-10242024	Total/NA	Water	350.1	
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	350.1	
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	350.1	
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	350.1	
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	350.1	
480-224869-13	MW-BCP-19B-10252024	Total/NA	Water	350.1	
480-224869-14	MW-BCP-22A-10252024	Total/NA	Water	350.1	
480-224869-15	MW-BCP-25B-10252024	Total/NA	Water	350.1	
480-224869-16	MW-BCP-23A-10252024	Total/NA	Water	350.1	
MB 480-730650/100	Method Blank	Total/NA	Water	350.1	
MB 480-730650/116	Method Blank	Total/NA	Water	350.1	
MB 480-730650/131	Method Blank	Total/NA	Water	350.1	
MB 480-730650/65	Method Blank	Total/NA	Water	350.1	
MB 480-730650/87	Method Blank	Total/NA	Water	350.1	
LCS 480-730650/101	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730650/117	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730650/132	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730650/66	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730650/88	Lab Control Sample	Total/NA	Water	350.1	
480-224869-4 MS	MW-BCP-10C-10242024	Total/NA	Water	350.1	
480-224869-4 MSD	MW-BCP-10C-10242024	Total/NA	Water	350.1	
480-224869-10 MS	MW-BCP-13B-10252024	Total/NA	Water	350.1	
480-224869-16 MS	MW-BCP-23A-10252024	Total/NA	Water	350.1	
480-224869-16 MSD	MW-BCP-23A-10252024	Total/NA	Water	350.1	

Analysis Batch: 730651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-17	MW-BCP-24B-10252024	Total/NA	Water	350.1	
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	350.1	
480-224869-19	MW-BCP-19A-10252024	Total/NA	Water	350.1	
480-224869-20	MW-BCP-20A-10252024	Total/NA	Water	350.1	
480-224869-21	MW-BCP-20B-10252024	Total/NA	Water	350.1	
480-224869-22	MW-BCP-17A-10242024	Total/NA	Water	350.1	
480-224869-23	MW-BCP-21C-10252024	Total/NA	Water	350.1	
480-224869-24	MW-BCP-17B-10242024	Total/NA	Water	350.1	
480-224869-25	MW-BCP-27A-10252024	Total/NA	Water	350.1	
MB 480-730651/5	Method Blank	Total/NA	Water	350.1	
MB 480-730651/61	Method Blank	Total/NA	Water	350.1	
LCS 480-730651/6	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730651/62	Lab Control Sample	Total/NA	Water	350.1	
480-224869-17 MS	MW-BCP-24B-10252024	Total/NA	Water	350.1	
480-224869-17 MSD	MW-BCP-24B-10252024	Total/NA	Water	350.1	
480-224869-23 MS	MW-BCP-21C-10252024	Total/NA	Water	350.1	

Client Sample ID: MW-BCP-09A-10252024

Lab Sample ID: 480-224869-1

Date Collected: 10/25/24 16:30

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 05:16
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 19:01
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 14:59
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 09:59
Total/NA	Analysis	9012B		5	730502	CLT	EET BUF	10/30/24 08:34

Client Sample ID: MW-BCP-09B-10242024

Lab Sample ID: 480-224869-2

Date Collected: 10/24/24 02:25

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 10:00

Client Sample ID: MW-BCP-10A-10242024

Lab Sample ID: 480-224869-3

Date Collected: 10/24/24 10:40

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5	730495	AD	EET BUF	10/31/24 05:39
Total/NA	Analysis	8260C	DL	50	730696	AD	EET BUF	11/01/24 00:29
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		10	730212	JMM	EET BUF	10/29/24 19:29
Total/NA	Prep	3510C	DL		730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D	DL	100	730403	JMM	EET BUF	10/30/24 11:12
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:00
Total/NA	Analysis	350.1		500	730650	AM	EET BUF	10/31/24 10:01
Total/NA	Analysis	9012B		5	730502	CLT	EET BUF	10/30/24 08:38

Client Sample ID: MW-BCP-10C-10242024

Lab Sample ID: 480-224869-4

Date Collected: 10/24/24 10:55

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 10:05

Client Sample ID: MW-BCP-11A-10242024

Lab Sample ID: 480-224869-5

Date Collected: 10/24/24 11:35

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 06:01

Client Sample ID: MW-BCP-11A-10242024

Lab Sample ID: 480-224869-5

Date Collected: 10/24/24 11:35

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 19:56
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:02
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 10:07
Total/NA	Analysis	9012B		1	730337	CLT	EET BUF	10/29/24 13:52

Client Sample ID: MW-BCP-11B-10242024

Lab Sample ID: 480-224869-6

Date Collected: 10/24/24 01:00

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 10:09

Client Sample ID: MW-BCP-12A-10242024

Lab Sample ID: 480-224869-7

Date Collected: 10/24/24 03:15

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 06:23
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 20:23
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:05
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 10:09
Total/NA	Analysis	9012B		5	730502	CLT	EET BUF	10/30/24 09:04

Client Sample ID: MW-BCP-12B-10242024

Lab Sample ID: 480-224869-8

Date Collected: 10/24/24 03:10

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 10:09

Client Sample ID: MW-BCP-13A-10252024

Lab Sample ID: 480-224869-9

Date Collected: 10/25/24 08:50

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		100	730495	AD	EET BUF	10/31/24 06:46
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		500	730403	JMM	EET BUF	10/30/24 11:40
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:07
Total/NA	Analysis	350.1		5	730650	AM	EET BUF	10/31/24 10:11

Client Sample ID: MW-BCP-13A-10252024

Lab Sample ID: 480-224869-9

Date Collected: 10/25/24 08:50

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9012B		2	730502	CLT	EET BUF	10/30/24 09:08

Client Sample ID: MW-BCP-13B-10252024

Lab Sample ID: 480-224869-10

Date Collected: 10/25/24 09:10

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	730495	AD	EET BUF	10/31/24 07:08
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		5	730212	JMM	EET BUF	10/29/24 21:18
Total/NA	Prep	3510C	DL		730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D	DL	500	730403	JMM	EET BUF	10/30/24 15:46
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:08
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 22:58
Total/NA	Analysis	9012B		1	730337	CLT	EET BUF	10/29/24 14:02

Client Sample ID: MW-BCP-24A-10252024

Lab Sample ID: 480-224869-11

Date Collected: 10/25/24 09:35

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 07:31
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 21:45
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:09
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 22:59
Total/NA	Analysis	9012B		1	730337	CLT	EET BUF	10/29/24 14:05

Client Sample ID: MW-BCP-25A-10252024

Lab Sample ID: 480-224869-12

Date Collected: 10/25/24 02:05

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 07:54
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 22:13
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:11
Total/NA	Analysis	350.1		5	730650	AM	EET BUF	10/30/24 23:36
Total/NA	Analysis	9012B		5	730502	CLT	EET BUF	10/30/24 09:11

Client Sample ID: MW-BCP-19B-10252024

Lab Sample ID: 480-224869-13

Date Collected: 10/25/24 09:55

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 08:16
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 22:40
Total/NA	Prep	3510C	DL		730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D	DL	5	730403	JMM	EET BUF	10/30/24 12:07
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:12
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 23:01

Client Sample ID: MW-BCP-22A-10252024

Lab Sample ID: 480-224869-14

Date Collected: 10/25/24 11:30

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:13
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 23:02
Total/NA	Analysis	9012B		1	730502	CLT	EET BUF	10/30/24 08:28

Client Sample ID: MW-BCP-25B-10252024

Lab Sample ID: 480-224869-15

Date Collected: 10/25/24 02:15

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:15
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 23:03
Total/NA	Analysis	9012B		1	730502	CLT	EET BUF	10/30/24 08:56

Client Sample ID: MW-BCP-23A-10252024

Lab Sample ID: 480-224869-16

Date Collected: 10/25/24 11:45

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:16
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 23:07
Total/NA	Analysis	9012B		1	730502	CLT	EET BUF	10/30/24 09:14

Client Sample ID: MW-BCP-24B-10252024

Lab Sample ID: 480-224869-17

Date Collected: 10/25/24 01:20

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:25
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:23
Total/NA	Analysis	9012B		1	730502	CLT	EET BUF	10/30/24 09:18

Client Sample ID: MW-BCP-21A-10252024

Lab Sample ID: 480-224869-18

Date Collected: 10/25/24 11:00

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 08:39
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 23:07
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:26
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:25
Total/NA	Analysis	9012B		1	730502	CLT	EET BUF	10/30/24 09:21

Client Sample ID: MW-BCP-19A-10252024

Lab Sample ID: 480-224869-19

Date Collected: 10/25/24 09:40

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		8	730495	AD	EET BUF	10/31/24 09:01
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		300	730403	JMM	EET BUF	10/30/24 12:34
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:28
Total/NA	Analysis	350.1		25.71	730651	AM	EET BUF	10/31/24 01:40

Client Sample ID: MW-BCP-20A-10252024

Lab Sample ID: 480-224869-20

Date Collected: 10/25/24 10:20

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:27

Client Sample ID: MW-BCP-20B-10252024

Lab Sample ID: 480-224869-21

Date Collected: 10/25/24 10:35

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:28

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224869-1

Client Sample ID: MW-BCP-17A-10242024
Lab Sample ID: 480-224869-22
Date Collected: 10/24/24 03:00
Matrix: Water
Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:29

Client Sample ID: MW-BCP-21C-10252024
Lab Sample ID: 480-224869-23
Date Collected: 10/25/24 11:20
Matrix: Water
Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:32

Client Sample ID: MW-BCP-17B-10242024
Lab Sample ID: 480-224869-24
Date Collected: 10/24/24 08:40
Matrix: Water
Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:33
Total/NA	Analysis	9012B		1	730502	CLT	EET BUF	10/30/24 09:51

Client Sample ID: MW-BCP-27A-10252024
Lab Sample ID: 480-224869-25
Date Collected: 10/24/24 02:30
Matrix: Water
Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:29
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:34
Total/NA	Analysis	9012B		50	730502	CLT	EET BUF	10/30/24 12:35

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

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Job ID: 480-224869-1
Project/Site: Ammonia SCO

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
10ppm CN MS_00450	11/04/24	10/28/24	Di Water, Lot Di Water	50 mL	WC_CN 50int_00111	10 mL	Cyanide, Total	10 mg/L
.WC_CN 50int_00111	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN complex_00006	5 mL	Cyanide, Total	50 mg/L
..WC_CN complex_00006	07/05/25	ABSOLUTE, Lot 070523			(Purchased Reagent)		Cyanide, Total	1000 mg/L
8260 CORP mix_00259	11/17/24	09/17/24	Methanol, Lot 22C2362001	20 mL	Ketones_00225	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_00233	800 uL	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
							1,2,4-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
							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
							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_00225	04/30/27	Restek, Lot A02010935			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MegaMix_00233	04/30/26		Restek, Lot A0203458		(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
							1,2,4-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
							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
8260 CORP mix_00260	12/09/24	10/09/24	Methanol, Lot 22C2362001	20 mL	2-CEVE_00232	800 uL	2-Chloroethyl vinyl ether	100 ug/mL
					Acrolein Mix_00505	500 uL	Acrolein	500 ug/mL
					Ketones_00226	800 uL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	500 ug/mL
					MegaMix_00234	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
							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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00360	800 uL	Vinyl acetate	200 ug/mL
.2-CEVE_00232	02/28/27		Restek, Lot A0208368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.Acrolein Mix_00505	09/30/25		Restek, Lot A0209476		(Purchased Reagent)		Acrolein	20000 ug/mL
.Ketones_00226	04/30/27		Restek, Lot A02010935		(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_00234	04/30/26		Restek, Lot A0203458		(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
							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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00360	09/30/25		Restek, Lot A0209567		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
BFB_WRK_00167							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					MV_BFB_STK_00095	20 uL	BFB	50 ug/mL
.MV_BFB_STK_00095	02/19/25		Supelco, Lot LRAD6467		(Purchased Reagent)		BFB	25000 ug/mL
GAS CORP mix_00646	10/29/24	10/22/24	Methanol, Lot EA832US	10 mL	8260/624-Gas_00560	400 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_00560	12/15/24		Restek, Lot A0211969		(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_00647	11/05/24	10/29/24	Methanol, Lot EA832US	10 mL	8260/624-Gas_00561	400 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_00561	04/28/25		Restek, Lot A0211969		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL

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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
MB_DFTPP_WRK_00443							3 & 4 Methylphenol	
							3-Methylphenol	
							4,4'-DDD	
							4,4'-DDE	
							Chlorobenzotrifluoride N.O.S	
							Chlorotoluene N.O.S	
							EPH Adjustment 1	
							Tentatively Identified Compound	
							Total Cresols	
					MB_DFTPP_STK_00121	250 uL	4,4'-DDT	25 ug/mL
							Benzidine_T	25 ug/mL
							DFTPP	25 ug/mL
							Pentachlorophenol_T	25 ug/mL
.MB_DFTPP_STK_00121	03/31/27		Restek, Lot A0209584		(Purchased Reagent)		4,4'-DDT	1000 ug/mL
							Benzidine_T	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol_T	1000 ug/mL
MB_L1LVI_WRK_00642	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					MB_List1_INT_00109	12.5 uL	1-Methylnaphthalene	0.125 ug/mL
							2-Methylnaphthalene	0.125 ug/mL
							Acenaphthene	0.125 ug/mL
							Acenaphthylene	0.125 ug/mL
							Anthracene	0.125 ug/mL
							Benzo(a)anthracene	0.125 ug/mL
							Benzo(a)pyrene	0.125 ug/mL
							Benzo(b)fluoranthene	0.125 ug/mL
							Benzo(g,h,i)perylene	0.125 ug/mL
							Benzo(k)fluoranthene	0.125 ug/mL
							Chrysene	0.125 ug/mL
							Dibenz(a,h)anthracene	0.125 ug/mL
							Dibenzofuran	0.125 ug/mL
							Fluoranthene	0.125 ug/mL
							Fluorene	0.125 ug/mL
							Indeno(1,2,3-cd)pyrene	0.125 ug/mL
							Naphthalene	0.125 ug/mL
							Phenanthrene	0.125 ug/mL
							Pyrene	0.125 ug/mL
.MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
MB_L1LVI_WRK_00643	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					MB_List1_INT_00109	50 uL	1,2,4,5-Tetrachlorobenzene	0.5 ug/mL
							1,2,4-Trichlorobenzene	0.5 ug/mL
							1,2-Dichlorobenzene	0.5 ug/mL
							1,2-Diphenylhydrazine	0.5 ug/mL
							1,3-Dichlorobenzene	0.5 ug/mL
							1,3-Dinitrobenzene	0.5 ug/mL
							1,4-Dichlorobenzene	0.5 ug/mL
							1,4-Dioxane	0.5 ug/mL
							1-Methylnaphthalene	0.5 ug/mL
							2,3,4,6-Tetrachlorophenol	0.5 ug/mL
							2,4,5-Trichlorophenol	0.5 ug/mL
							2,4,6-Trichlorophenol	0.5 ug/mL
							2,4-Dichlorophenol	0.5 ug/mL
							2,4-Dimethylphenol	0.5 ug/mL
							2,4-Dinitrophenol	1 ug/mL
							2,4-Dinitrotoluene	0.5 ug/mL
							2,6-Dichlorophenol	0.5 ug/mL
							2,6-Dinitrotoluene	0.5 ug/mL
							2-Chloronaphthalene	0.5 ug/mL
							2-Chlorophenol	0.5 ug/mL
							2-Methylnaphthalene	0.5 ug/mL
							2-Methylphenol	0.5 ug/mL
							2-Nitroaniline	0.5 ug/mL
							2-Nitrophenol	0.5 ug/mL
							3-Nitroaniline	0.5 ug/mL
							4,6-Dinitro-2-methylphenol	1 ug/mL
							4-Bromophenyl phenyl ether	0.5 ug/mL
							4-Chloro-3-methylphenol	0.5 ug/mL
							4-Chloroaniline	0.5 ug/mL
							4-Chlorophenyl phenyl ether	0.5 ug/mL
							4-Methylphenol	0.5 ug/mL
							4-Nitroaniline	0.5 ug/mL
							4-Nitrophenol	1 ug/mL
							Acenaphthene	0.5 ug/mL
							Acenaphthylene	0.5 ug/mL
							Acetophenone	0.5 ug/mL
							Aniline	0.5 ug/mL
							Anthracene	0.5 ug/mL
							Azobenzene	0.5 ug/mL
							Benzo(a)anthracene	0.5 ug/mL
							Benzo(a)pyrene	0.5 ug/mL
							Benzo(b)fluoranthene	0.5 ug/mL
							Benzo(g,h,i)perylene	0.5 ug/mL
							Benzo(k)fluoranthene	0.5 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	0.5 ug/mL
							Biphenyl	0.5 ug/mL
							bis (2-chloroisopropyl) ether	0.5 ug/mL
							Bis(2-chloroethoxy)methane	0.5 ug/mL
							Bis(2-chloroethyl)ether	0.5 ug/mL
							Bis(2-ethylhexyl) phthalate	0.5 ug/mL
							Butyl benzyl phthalate	0.5 ug/mL
							Carbazole	0.5 ug/mL
							Chrysene	0.5 ug/mL
							Di-n-butyl phthalate	0.5 ug/mL
							Di-n-octyl phthalate	0.5 ug/mL
							Dibenz(a,h)anthracene	0.5 ug/mL
							Dibenzofuran	0.5 ug/mL
							Diethyl phthalate	0.5 ug/mL
							Dimethyl phthalate	0.5 ug/mL
							Diphenylamine	0.4275 ug/mL
							Fluoranthene	0.5 ug/mL
							Fluorene	0.5 ug/mL
							Hexachlorobenzene	0.5 ug/mL
							Hexachlorobutadiene	0.5 ug/mL
							Hexachlorocyclopentadiene	0.5 ug/mL
							Hexachloroethane	0.5 ug/mL
							Hexadecane	0.5 ug/mL
							Indeno(1,2,3-cd)pyrene	0.5 ug/mL
							Isophorone	0.5 ug/mL
							n-Decane	0.5 ug/mL
							N-Nitrosodi-n-propylamine	0.5 ug/mL
							N-Nitrosodimethylamine	0.5 ug/mL
							N-Nitrosodiphenylamine	0.5 ug/mL
							n-Octadecane	0.5 ug/mL
							Naphthalene	0.5 ug/mL
							Nitrobenzene	0.5 ug/mL
							Pentachlorophenol	1 ug/mL
							Phenanthrene	0.5 ug/mL
							Phenol	0.5 ug/mL
							Pyrene	0.5 ug/mL
							Pyridine	1 ug/mL
							Benzoic acid	3 ug/mL
							Indene	3 ug/mL
							Atrazine	0.5 ug/mL
							Benzaldehyde	0.5 ug/mL
							Caprolactam	0.5 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol	0.5 ug/mL
							2-Fluorobiphenyl	0.5 ug/mL
							2-Fluorophenol	0.5 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5	0.5 ug/mL
							p-Terphenyl-d14	0.5 ug/mL
							Phenol-d5	0.5 ug/mL
.MB_INTSTD_STK_00106	09/17/25	Restek, Lot A0211642			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Azobenzene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	100 ug/mL
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	2000 ug/mL
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
MB_L1LVI_WRK_00644	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					MB_List1_INT_00109	100 uL	1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Methylphenol	1 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Azobenzene	1 ug/mL
							Benzo(a)anthracene	1 ug/mL
							Benzo(a)pyrene	1 ug/mL
							Benzo(b)fluoranthene	1 ug/mL
							Benzo(g,h,i)perylene	1 ug/mL
							Benzo(k)fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Biphenyl	1 ug/mL
							bis (2-chloroisopropyl) ether	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Diphenylamine	0.855 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Hexadecane	1 ug/mL
							Indeno(1,2,3-cd)pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	6 ug/mL
							Indene	6 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5	1 ug/mL
							p-Terphenyl-d14	1 ug/mL
							Phenol-d5	1 ug/mL
.MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
MB_L1LVI_WRK_00645	02/25/25	10/09/24	Methylene Chloride, Lot 64180	1 mL	MB_List1_INT_00109	20 uL	1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Methylphenol	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Azobenzene	2 ug/mL
							Benzo(a)anthracene	2 ug/mL
							Benzo(a)pyrene	2 ug/mL
							Benzo(b)fluoranthene	2 ug/mL
							Benzo(g,h,i)perylene	2 ug/mL
							Benzo(k)fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							Biphenyl	2 ug/mL
							bis (2-chloroisopropyl) ether	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Diphenylamine	1.71 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Hexadecane	2 ug/mL
							Indeno(1,2,3-cd)pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	4 ug/mL
							Benzoic acid	12 ug/mL
							Indene	12 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
							2,4,6-Tribromophenol	2 ug/mL
							2-Fluorobiphenyl	2 ug/mL
							2-Fluorophenol	2 ug/mL
							Nitrobenzene-d5	2 ug/mL
							p-Terphenyl-d14	2 ug/mL
							Phenol-d5	2 ug/mL
					MB_LLIS_WRK_00283	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
.MB_LLIS_WRK_00283	04/08/25	10/08/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	1000 uL	1,4-Dichlorobenzene-d4	200 ug/mL
							Acenaphthene-d10	200 ug/mL
							Chrysene-d12	200 ug/mL
							Naphthalene-d8	200 ug/mL
							Perylene-d12	200 ug/mL
							Phenanthrene-d10	200 ug/mL
..MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MB_L1LVI_WRK_00646	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					MB_List1_INT_00109	400 uL	1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Methylphenol	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Azobenzene	4 ug/mL
							Benzo(a)anthracene	4 ug/mL
							Benzo(a)pyrene	4 ug/mL
							Benzo(b)fluoranthene	4 ug/mL
							Benzo(g,h,i)perylene	4 ug/mL
							Benzo(k)fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Biphenyl	4 ug/mL
							bis (2-chloroisopropyl) ether	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.42 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno(1,2,3-cd)pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	24 ug/mL
							Indene	24 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	8 ug/mL
							Benzidine	8 ug/mL
							2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5	4 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							p-Terphenyl-d14	4 ug/mL
							Phenol-d5	4 ug/mL
.MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
MB_L1LVI_WRK_00647	02/25/25	10/09/24	Methylene Chloride, Lot 64180	1 mL	MB_List1_INT_00109	80 uL	1,2,4,5-Tetrachlorobenzene	8 ug/mL
							1,2,4-Trichlorobenzene	8 ug/mL
							1,2-Dichlorobenzene	8 ug/mL
							1,2-Diphenylhydrazine	8 ug/mL
							1,3-Dichlorobenzene	8 ug/mL
							1,3-Dinitrobenzene	8 ug/mL
							1,4-Dichlorobenzene	8 ug/mL
							1,4-Dioxane	8 ug/mL
							1-Methylnaphthalene	8 ug/mL
							2,3,4,6-Tetrachlorophenol	8 ug/mL
							2,4,5-Trichlorophenol	8 ug/mL
							2,4,6-Trichlorophenol	8 ug/mL
							2,4-Dichlorophenol	8 ug/mL
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dichlorophenol	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Methylphenol	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Aniline	8 ug/mL
							Anthracene	8 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Azobenzene	8 ug/mL
							Benzo(a)anthracene	8 ug/mL
							Benzo(a)pyrene	8 ug/mL
							Benzo(b)fluoranthene	8 ug/mL
							Benzo(g,h,i)perylene	8 ug/mL
							Benzo(k)fluoranthene	8 ug/mL
							Benzyl alcohol	8 ug/mL
							Biphenyl	8 ug/mL
							bis (2-chloroisopropyl) ether	8 ug/mL
							Bis(2-chloroethoxy)methane	8 ug/mL
							Bis(2-chloroethyl)ether	8 ug/mL
							Bis(2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Diphenylamine	6.84 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Hexadecane	8 ug/mL
							Indeno(1,2,3-cd)pyrene	8 ug/mL
							Isophorone	8 ug/mL
							n-Decane	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodimethylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							n-Octadecane	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Pyridine	16 ug/mL
							Benzoic acid	48 ug/mL
							Indene	48 ug/mL
							Atrazine	8 ug/mL
							Benzaldehyde	8 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	8 ug/mL
							3,3'-Dichlorobenzidine	16 ug/mL
							Benzidine	16 ug/mL
							2,4,6-Tribromophenol	8 ug/mL
							2-Fluorobiphenyl	8 ug/mL
							2-Fluorophenol	8 ug/mL
							Nitrobenzene-d5	8 ug/mL
							p-Terphenyl-d14	8 ug/mL
							Phenol-d5	8 ug/mL
					MB_LLIS_WRK_00283	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
.MB_LLIS_WRK_00283	04/08/25	10/08/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	1000 uL	1,4-Dichlorobenzene-d4	200 ug/mL
							Acenaphthene-d10	200 ug/mL
							Chrysene-d12	200 ug/mL
							Naphthalene-d8	200 ug/mL
							Perylene-d12	200 ug/mL
							Phenanthrene-d10	200 ug/mL
..MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MB_L1LVI_WRK_00648	02/25/25	10/09/24	Methylene Chloride, Lot 64180	1 mL	MB_List1_INT_00109	120 uL	1,2,4,5-Tetrachlorobenzene	12 ug/mL
							1,2,4-Trichlorobenzene	12 ug/mL
							1,2-Dichlorobenzene	12 ug/mL
							1,2-Diphenylhydrazine	12 ug/mL
							1,3-Dichlorobenzene	12 ug/mL
							1,3-Dinitrobenzene	12 ug/mL
							1,4-Dichlorobenzene	12 ug/mL
							1,4-Dioxane	12 ug/mL
							1-Methylnaphthalene	12 ug/mL
							2,3,4,6-Tetrachlorophenol	12 ug/mL
							2,4,5-Trichlorophenol	12 ug/mL
							2,4,6-Trichlorophenol	12 ug/mL
							2,4-Dichlorophenol	12 ug/mL
							2,4-Dimethylphenol	12 ug/mL
							2,4-Dinitrophenol	24 ug/mL
							2,4-Dinitrotoluene	12 ug/mL
							2,6-Dichlorophenol	12 ug/mL
							2,6-Dinitrotoluene	12 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	12 ug/mL
							2-Chlorophenol	12 ug/mL
							2-Methylnaphthalene	12 ug/mL
							2-Methylphenol	12 ug/mL
							2-Nitroaniline	12 ug/mL
							2-Nitrophenol	12 ug/mL
							3-Nitroaniline	12 ug/mL
							4,6-Dinitro-2-methylphenol	24 ug/mL
							4-Bromophenyl phenyl ether	12 ug/mL
							4-Chloro-3-methylphenol	12 ug/mL
							4-Chloroaniline	12 ug/mL
							4-Chlorophenyl phenyl ether	12 ug/mL
							4-Methylphenol	12 ug/mL
							4-Nitroaniline	12 ug/mL
							4-Nitrophenol	24 ug/mL
							Acenaphthene	12 ug/mL
							Acenaphthylene	12 ug/mL
							Acetophenone	12 ug/mL
							Aniline	12 ug/mL
							Anthracene	12 ug/mL
							Azobenzene	12 ug/mL
							Benzo(a)anthracene	12 ug/mL
							Benzo(a)pyrene	12 ug/mL
							Benzo(b)fluoranthene	12 ug/mL
							Benzo(g,h,i)perylene	12 ug/mL
							Benzo(k)fluoranthene	12 ug/mL
							Benzyl alcohol	12 ug/mL
							Biphenyl	12 ug/mL
							bis (2-chloroisopropyl) ether	12 ug/mL
							Bis(2-chloroethoxy)methane	12 ug/mL
							Bis(2-chloroethyl)ether	12 ug/mL
							Bis(2-ethylhexyl) phthalate	12 ug/mL
							Butyl benzyl phthalate	12 ug/mL
							Carbazole	12 ug/mL
							Chrysene	12 ug/mL
							Di-n-butyl phthalate	12 ug/mL
							Di-n-octyl phthalate	12 ug/mL
							Dibenz(a,h)anthracene	12 ug/mL
							Dibenzofuran	12 ug/mL
							Diethyl phthalate	12 ug/mL
							Dimethyl phthalate	12 ug/mL
							Diphenylamine	10.26 ug/mL
							Fluoranthene	12 ug/mL
							Fluorene	12 ug/mL
							Hexachlorobenzene	12 ug/mL
							Hexachlorobutadiene	12 ug/mL
							Hexachlorocyclopentadiene	12 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	12 ug/mL
							Hexadecane	12 ug/mL
							Indeno(1,2,3-cd)pyrene	12 ug/mL
							Isophorone	12 ug/mL
							n-Decane	12 ug/mL
							N-Nitrosodi-n-propylamine	12 ug/mL
							N-Nitrosodimethylamine	12 ug/mL
							N-Nitrosodiphenylamine	12 ug/mL
							n-Octadecane	12 ug/mL
							Naphthalene	12 ug/mL
							Nitrobenzene	12 ug/mL
							Pentachlorophenol	24 ug/mL
							Phenanthrene	12 ug/mL
							Phenol	12 ug/mL
							Pyrene	12 ug/mL
							Pyridine	24 ug/mL
							Benzoic acid	72 ug/mL
							Indene	72 ug/mL
							Atrazine	12 ug/mL
							Benzaldehyde	12 ug/mL
							Caprolactam	12 ug/mL
							3,3'-Dichlorobenzidine	24 ug/mL
							Benzidine	24 ug/mL
							2,4,6-Tribromophenol	12 ug/mL
							2-Fluorobiphenyl	12 ug/mL
							2-Fluorophenol	12 ug/mL
							Nitrobenzene-d5	12 ug/mL
							p-Terphenyl-d14	12 ug/mL
							Phenol-d5	12 ug/mL
					MB_LLIS_WRK_00283	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
.MB_LLIS_WRK_00283	04/08/25	10/08/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	1000 uL	1,4-Dichlorobenzene-d4	200 ug/mL
							Acenaphthene-d10	200 ug/mL
							Chrysene-d12	200 ug/mL
							Naphthalene-d8	200 ug/mL
							Perylene-d12	200 ug/mL
							Phenanthrene-d10	200 ug/mL
..MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MB_L1LVI_WRK_00649	02/25/25	10/09/24	Methylene Chloride, Lot 64180	1 mL	MB_List1_INT_00109	160 uL	1,2,4,5-Tetrachlorobenzene	16 ug/mL
							1,2,4-Trichlorobenzene	16 ug/mL
							1,2-Dichlorobenzene	16 ug/mL
							1,2-Diphenylhydrazine	16 ug/mL
							1,3-Dichlorobenzene	16 ug/mL
							1,3-Dinitrobenzene	16 ug/mL
							1,4-Dichlorobenzene	16 ug/mL
							1,4-Dioxane	16 ug/mL
							1-Methylnaphthalene	16 ug/mL
							2,3,4,6-Tetrachlorophenol	16 ug/mL
							2,4,5-Trichlorophenol	16 ug/mL
							2,4,6-Trichlorophenol	16 ug/mL
							2,4-Dichlorophenol	16 ug/mL
							2,4-Dimethylphenol	16 ug/mL
							2,4-Dinitrophenol	32 ug/mL
							2,4-Dinitrotoluene	16 ug/mL
							2,6-Dichlorophenol	16 ug/mL
							2,6-Dinitrotoluene	16 ug/mL
							2-Chloronaphthalene	16 ug/mL
							2-Chlorophenol	16 ug/mL
							2-Methylnaphthalene	16 ug/mL
							2-Methylphenol	16 ug/mL
							2-Nitroaniline	16 ug/mL
							2-Nitrophenol	16 ug/mL
							3-Nitroaniline	16 ug/mL
							4,6-Dinitro-2-methylphenol	32 ug/mL
							4-Bromophenyl phenyl ether	16 ug/mL
							4-Chloro-3-methylphenol	16 ug/mL
							4-Chloroaniline	16 ug/mL
							4-Chlorophenyl phenyl ether	16 ug/mL
							4-Methylphenol	16 ug/mL
							4-Nitroaniline	16 ug/mL
							4-Nitrophenol	32 ug/mL
							Acenaphthene	16 ug/mL
							Acenaphthylene	16 ug/mL
							Acetophenone	16 ug/mL
							Aniline	16 ug/mL
							Anthracene	16 ug/mL
							Azobenzene	16 ug/mL
							Benzo(a)anthracene	16 ug/mL
							Benzo(a)pyrene	16 ug/mL
							Benzo(b)fluoranthene	16 ug/mL
							Benzo(g,h,i)perylene	16 ug/mL
							Benzo(k)fluoranthene	16 ug/mL
							Benzyl alcohol	16 ug/mL
							Biphenyl	16 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							bis (2-chloroisopropyl) ether	16 ug/mL
							Bis(2-chloroethoxy)methane	16 ug/mL
							Bis(2-chloroethyl)ether	16 ug/mL
							Bis(2-ethylhexyl) phthalate	16 ug/mL
							Butyl benzyl phthalate	16 ug/mL
							Carbazole	16 ug/mL
							Chrysene	16 ug/mL
							Di-n-butyl phthalate	16 ug/mL
							Di-n-octyl phthalate	16 ug/mL
							Dibenz(a,h)anthracene	16 ug/mL
							Dibenzofuran	16 ug/mL
							Diethyl phthalate	16 ug/mL
							Dimethyl phthalate	16 ug/mL
							Diphenylamine	13.68 ug/mL
							Fluoranthene	16 ug/mL
							Fluorene	16 ug/mL
							Hexachlorobenzene	16 ug/mL
							Hexachlorobutadiene	16 ug/mL
							Hexachlorocyclopentadiene	16 ug/mL
							Hexachloroethane	16 ug/mL
							Hexadecane	16 ug/mL
							Indeno(1,2,3-cd)pyrene	16 ug/mL
							Isophorone	16 ug/mL
							n-Decane	16 ug/mL
							N-Nitrosodi-n-propylamine	16 ug/mL
							N-Nitrosodimethylamine	16 ug/mL
							N-Nitrosodiphenylamine	16 ug/mL
							n-Octadecane	16 ug/mL
							Naphthalene	16 ug/mL
							Nitrobenzene	16 ug/mL
							Pentachlorophenol	32 ug/mL
							Phenanthrene	16 ug/mL
							Phenol	16 ug/mL
							Pyrene	16 ug/mL
							Pyridine	32 ug/mL
							Benzoic acid	96 ug/mL
							Indene	96 ug/mL
							Atrazine	16 ug/mL
							Benzaldehyde	16 ug/mL
							Caprolactam	16 ug/mL
							3,3'-Dichlorobenzidine	32 ug/mL
							Benzidine	32 ug/mL
							2,4,6-Tribromophenol	16 ug/mL
							2-Fluorobiphenyl	16 ug/mL
							2-Fluorophenol	16 ug/mL
							Nitrobenzene-d5	16 ug/mL
							p-Terphenyl-d14	16 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5	16 ug/mL
					MB_LLIS_WRK_00283	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
.MB_LLIS_WRK_00283	04/08/25	10/08/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	1000 uL	1,4-Dichlorobenzene-d4	200 ug/mL
							Acenaphthene-d10	200 ug/mL
							Chrysene-d12	200 ug/mL
							Naphthalene-d8	200 ug/mL
							Perylene-d12	200 ug/mL
							Phenanthrene-d10	200 ug/mL
..MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MB_L1SSLV_WRK_00055	01/01/25	10/10/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MB_L1SSLV_WRK_00055	01/01/25	10/10/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_SS_00045	40 uL	2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Methylphenol	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Anthracene	4 ug/mL
							Benzo(a)anthracene	4 ug/mL
							Benzo(a)pyrene	4 ug/mL
							Benzo(b)fluoranthene	4 ug/mL
							Benzo(g,h,i)perylene	4 ug/mL
							Benzo(k)fluoranthene	4 ug/mL
							Biphenyl	4 ug/mL
							bis (2-chloroisopropyl) ether	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Indeno(1,2,3-cd)pyrene	4 ug/mL
							Isophorone	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	4 ug/mL
					MB_L1S11_SS_00039	20 uL	Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
					MB_L1S9_SS_00034	20 uL	3,3'-Dichlorobenzidine	4 ug/mL
.MB_L1S1_SS_00045	04/30/25		Restek, Lot A0212976		(Purchased Reagent)		2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
.MB_L1S11_SS_00039	10/10/25		Restek, Lot A0216037		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MB_L1S9_SS_00034	02/22/25		Restek, Lot A0202769		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
MB_LLIS_WRK_00284	04/23/25	10/23/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	1000 uL	1,4-Dichlorobenzene-d4	200 ug/mL
							Acenaphthene-d10	200 ug/mL
							Chrysene-d12	200 ug/mL
							Naphthalene-d8	200 ug/mL
							Perylene-d12	200 ug/mL
							Phenanthrene-d10	200 ug/mL
.MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MEH_HG1_WKG_03485	10/31/24	10/30/24	1% HNO3, Lot Di H2O	50 mL	MEH_1_INT_00030	0.5 mL	Nitric acid	400000 ng/mL
							Mercury	100.4 ng/mL
.MEH_1_INT_00030	05/01/25	10/17/24	1% HNO3, Lot DI	50 mL	MED_HNO3_00813	2 mL	Nitric acid	40000000 ppb
					MEH_1_STOCK_00005	5 mL	Mercury	10040 ppb
..MED_HNO3_00813	05/01/25		Fisher Chemical, Lot 240238		(Purchased Reagent)		Nitric acid	1 g/g
..MEH_1_STOCK_00005	06/30/25		Agilent, Lot 0006684748		(Purchased Reagent)		Mercury	100.4 ug/mL
N 8260 IS_00282	12/22/24	10/22/24	P&T Methanol, Lot EA832-US	20 mL	IS_STK_01804	1 mL	1,4-Dichlorobenzene-d4	125 ug/mL
							Chlorobenzene-d5	125 ug/mL
							Fluorobenzene (IS)	125 ug/mL
.IS_STK_01804	07/31/29		Restek, Lot A0214530		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
N_8260_Surr_00475	10/30/24	08/30/24	P&T Methanol, Lot EA832-US	20 mL	SURR_STK_00557	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
.SURR_STK_00557	05/31/29		Restek, Lot A0201943		(Purchased Reagent)		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
N_8260_Surr_00477	12/23/24	10/23/24	P&T Methanol, Lot EA832-US	20 mL	SURR_STK_00560	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
.SURR_STK_00560	04/23/25		Restek, Lot A0211048		(Purchased Reagent)		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
NH3_CCV_02038	10/31/24	10/30/24	Di Water, Lot Di Water	100 mL	WC_NH3_STD_00035	100 uL	Ammonia	1 mg/L
.WC_NH3_STD_00035	04/27/25		ERA, Lot 820423m		(Purchased Reagent)		Ammonia	1000 mg/L
NH3_MSSeal_00016	11/05/24	10/29/24	di, Lot na	50 mL	WC_NH3_STD_00035	200 uL	Ammonia	4 mg/L
.WC_NH3_STD_00035	04/27/25		ERA, Lot 820423m		(Purchased Reagent)		Ammonia	1000 mg/L
O_8270LL LCS_00159	02/28/25	09/30/24	ACETONE, Lot 8077348	100 mL	O_8270/625LCS_00249	20 mL	3,3'-Dichlorobenzidine	8 ug/mL
							Benzidine	8 ug/mL
							Benzoic acid	64 ug/mL
							Indene	64 ug/mL
							Atrazine	16 ug/mL
							Benzaldehyde	16 ug/mL
							Caprolactam	16 ug/mL
							1,2,4,5-Tetrachlorobenzene	8 ug/mL
							1,2,4-Trichlorobenzene	8 ug/mL
							1,2-Dichlorobenzene	8 ug/mL
							1,2-Diphenylhydrazine	8 ug/mL
							1,3-Dichlorobenzene	8 ug/mL
							1,3-Dinitrobenzene	8 ug/mL
							1,4-Dichlorobenzene	8 ug/mL
							1,4-Dioxane	8 ug/mL
							1-Methylnaphthalene	8 ug/mL
							2,3,4,6-Tetrachlorophenol	8 ug/mL
							2,4,5-Trichlorophenol	8 ug/mL
							2,4,6-Trichlorophenol	8 ug/mL
							2,4-Dichlorophenol	8 ug/mL
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dichlorophenol	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3-Methylphenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Methylphenol	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Aniline	8 ug/mL
							Anthracene	8 ug/mL
							Azobenzene	8 ug/mL
							Benzo(a)anthracene	8 ug/mL
							Benzo(a)pyrene	8 ug/mL
							Benzo(b)fluoranthene	8 ug/mL
							Benzo(g,h,i)perylene	8 ug/mL
							Benzo(k)fluoranthene	8 ug/mL
							Benzyl alcohol	8 ug/mL
							Biphenyl	8 ug/mL
							bis (2-chloroisopropyl) ether	8 ug/mL
							Bis(2-chloroethoxy)methane	8 ug/mL
							Bis(2-chloroethyl)ether	8 ug/mL
							Bis(2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Diphenylamine	6.84 ug/mL
							Fluoranthene	8 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Hexadecane	8 ug/mL
							Indeno(1,2,3-cd)pyrene	8 ug/mL
							Isophorone	8 ug/mL
							n-Decane	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodimethylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							n-Octadecane	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Pyridine	16 ug/mL
.O_8270/625LCS_00249	02/28/25	09/25/24	ACETONE, Lot 8077348	100 mL	8270 List 1/S_00159	2 mL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					8270 List1/10_00565	5 mL	Benzoic acid	320 ug/mL
							Indene	320 ug/mL
					8270 List1/10_00566	5 mL	Benzoic acid	320 ug/mL
							Indene	320 ug/mL
					8270 List1/10_00567	6 mL	Benzoic acid	320 ug/mL
							Indene	320 ug/mL
					8270 list1/11_00156	4 mL	Atrazine	80 ug/mL
							Benzaldehyde	80 ug/mL
							Caprolactam	80 ug/mL
					O_8270MegaMix_00195	4 mL	1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Azobenzene	40 ug/mL
							Benzo(a)anthracene	40 ug/mL
							Benzo(a)pyrene	40 ug/mL
							Benzo(b)fluoranthene	40 ug/mL
							Benzo(g,h,i)perylene	40 ug/mL
							Benzo(k)fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Biphenyl	40 ug/mL
							bis (2-chloroisopropyl) ether	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34.2 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno(1,2,3-cd)pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
..8270 List 1/S_00159	10/31/25		Restek, Lot A0210722		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..8270 List1/10_00565	09/30/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..8270 List1/10_00566	09/30/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..8270 List1/10_00567	09/30/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..8270 list1/11_00156	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..O_8270MegaMix_00195	05/31/25		Restek, Lot A0213533		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
O_8270LLsurr_00103	04/04/25	10/04/24	ACETONE, Lot 8077348	1000 mL	O_8270surr_st_00137	1.6 mL	2,4,6 - Tribromophenol	8 ug/mL
							2,4,6-Tribromophenol	8 ug/mL
							2-Fluorobiphenyl	8 ug/mL
							2-Fluorophenol	8 ug/mL
							Nitrobenzene-d5	8 ug/mL
							p-Terphenyl-d14	8 ug/mL
							Phenol-d5	8 ug/mL
							Terphenyl-d14	8 ug/mL
.O_8270surr_st_00137	03/31/29		Restek, Lot A0209099		(Purchased Reagent)		2,4,6 - Tribromophenol	5000 ug/mL
							2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SS 8260 CORP_00117	11/30/24	10/15/24	Methanol, Lot EH471US	20 mL	SS_Ketones_00100	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_00133	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
							1,2,4-Trichlorobenzene	100 mg/L
							1,2-Dibromo-3-Chloropropane	100 mg/L

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00100	04/30/25		Restek, Lot A0184721		(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_00133	08/31/25		Restek, Lot A0195252		(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
							1,2,4-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.: 480-224869-1

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
							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 GAS CORP_00599	10/29/24	10/22/24	Methanol, Lot EA832US	10 mL	SS8260-624gas_00554	400 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_00554	12/15/24		Restek, Lot A0210106		(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
WC_CN 0.400_00299	10/30/24	10/29/24	NAOH 0.025N, Lot na	50 mL	WC_CN 50int_00111	400 uL	Cyanide, Total	0.4 mg/L
.WC_CN 50int_00111	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN complex_00006	5 mL	Cyanide, Total	50 mg/L
..WC_CN complex_00006	07/05/25		ABSOLUTE, Lot 070523		(Purchased Reagent)		Cyanide, Total	1000 mg/L
WC_CN 0.400_00300	10/31/24	10/30/24	NAOH 0.025N, Lot na	50 mL	WC_CN 50int_00111	400 uL	Cyanide, Total	0.4 mg/L
.WC_CN 50int_00111	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN complex_00006	5 mL	Cyanide, Total	50 mg/L
..WC_CN complex_00006	07/05/25		ABSOLUTE, Lot 070523		(Purchased Reagent)		Cyanide, Total	1000 mg/L
WC_CN CCV/LCS_00521	10/30/24	10/29/24	DI Water, Lot na	200 mL	WC_CN 50int_00111	1 mL	Cyanide, Total	0.25 mg/L as N
.WC_CN 50int_00111	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN complex_00006	5 mL	Cyanide, Total	50 mg/L
..WC_CN complex_00006	07/05/25		ABSOLUTE, Lot 070523		(Purchased Reagent)		Cyanide, Total	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
WC_CN CCV/LCS_00523	10/31/24	10/30/24	DI Water, Lot na	200 mL	WC_CN 50int_00111	1 mL	Cyanide, Total	0.25 mg/L as N
.WC_CN 50int_00111	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN complex_00006	5 mL	Cyanide, Total	50 mg/L
..WC_CN complex_00006	07/05/25	ABSOLUTE, Lot 070523			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WC_CN ICV_00296	10/30/24	10/29/24	NAOH 0.025N, Lot na	50 mL	WC_CN50-2int_00112	250 uL	Cyanide, Total	0.25 mg/L
.WC_CN50-2int_00112	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN1000ppmS_00038	5 mL	Cyanide, Total	50 mg/L
..WC_CN1000ppmS_00038	11/30/25	Agilent, Lot 0006766987			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WC_CN ICV_00297	10/31/24	10/30/24	NAOH 0.025N, Lot na	50 mL	WC_CN50-2int_00112	250 uL	Cyanide, Total	0.25 mg/L
.WC_CN50-2int_00112	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN1000ppmS_00038	5 mL	Cyanide, Total	50 mg/L
..WC_CN1000ppmS_00038	11/30/25	Agilent, Lot 0006766987			(Purchased Reagent)		Cyanide, Total	1000 mg/L

Reagent

8270 List 1/S_00159

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 569730 **Lot No.:** A0210722

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : October 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2
1	Benzidine	92-87-5	S240206RSR	99%	2,011.1 µg/mL	+/- 37.1570
2	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	2,008.5 µg/mL	+/- 37.1085

* Expanded Uncertainty displayed in same units as Grav. Con

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

7915516
ID: 8270 List 1/S_00152
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915517
ID: 8270 List 1/S_00153
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915518
ID: 8270 List 1/S_00154
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915519
ID: 8270 List 1/S_00155
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915520
ID: 8270 List 1/S_00156
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915521
ID: 8270 List 1/S_00157
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915522
ID: 8270 List 1/S_00158
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915523
ID: 8270 List 1/S_00159
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915525
ID: 8270 List 1/S_00160
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915526
ID: 8270 List 1/S_00161
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

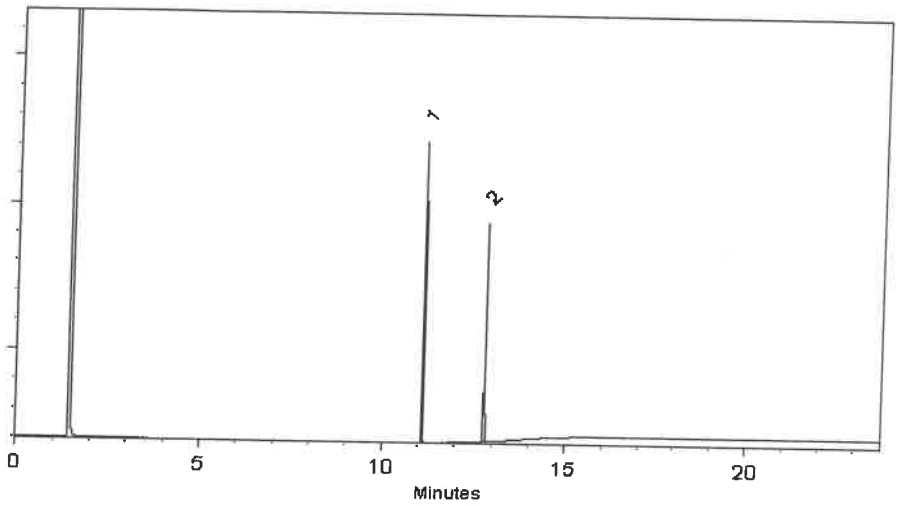
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
0.2µl



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.

Penelope Riglin - Operations Tech I

Date Mixed: 24-Apr-2024 **Balance Serial #** 1122030677

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 07-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8270 List1/10_00565

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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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. : 569731 **Lot No.:** A0209261

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Indene	95-13-6	RD230927	99%	2,019.6 µg/mL	+/- 113.4524
2	Benzoic acid	65-85-0	MKCR2694	99%	2,012.5 µg/mL	+/- 113.0554

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

8058391
ID: 8270 List1/10_00565
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058392
ID: 8270 List1/10_00566
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058393
ID: 8270 List1/10_00567
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058394
ID: 8270 List1/10_00568
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058395
ID: 8270 List1/10_00569
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058396
ID: 8270 List1/10_00570
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058397
ID: 8270 List1/10_00571
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058398
ID: 8270 List1/10_00572
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058399
ID: 8270 List1/10_00573
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058400
ID: 8270 List1/10_00574
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

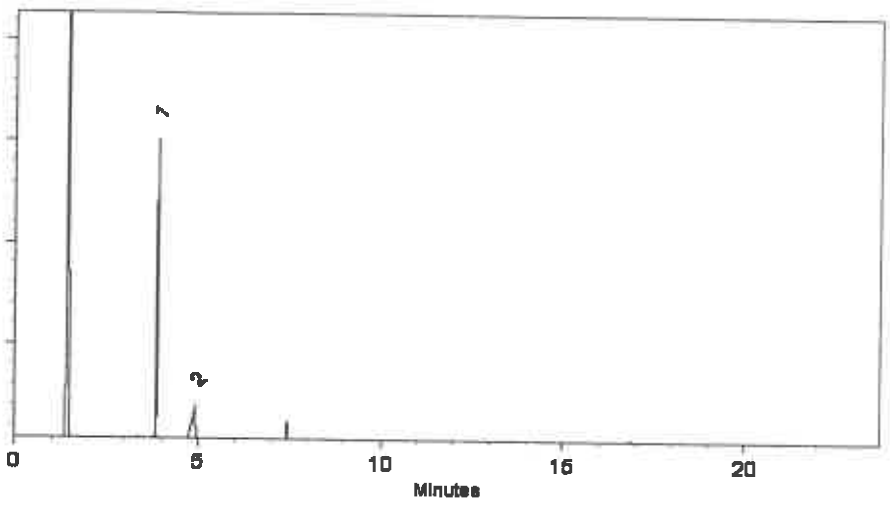
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
0.2µl



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.

Sam Moodler - Operations Tech I

Jennifer Polino - Operations Tech III - ARM QC

Date Mixed: 20-Mar-2024 **Balance Serial #** B442140311

Date Passed: 22-Mar-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8270 List1/10_00566

RESTEK
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 569731 **Lot No.:** A0209261

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Indene	95-13-6	RD230927	99%	2,019.6 µg/mL	+/- 113.4524
2	Benzoic acid	65-85-0	MKCR2694	99%	2,012.5 µg/mL	+/- 113.0554

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

8058391
ID: 8270 List1/10_00565
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058392
ID: 8270 List1/10_00566
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058393
ID: 8270 List1/10_00567
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058394
ID: 8270 List1/10_00568
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058395
ID: 8270 List1/10_00569
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058396
ID: 8270 List1/10_00570
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058397
ID: 8270 List1/10_00571
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058398
ID: 8270 List1/10_00572
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058399
ID: 8270 List1/10_00573
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058400
ID: 8270 List1/10_00574
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

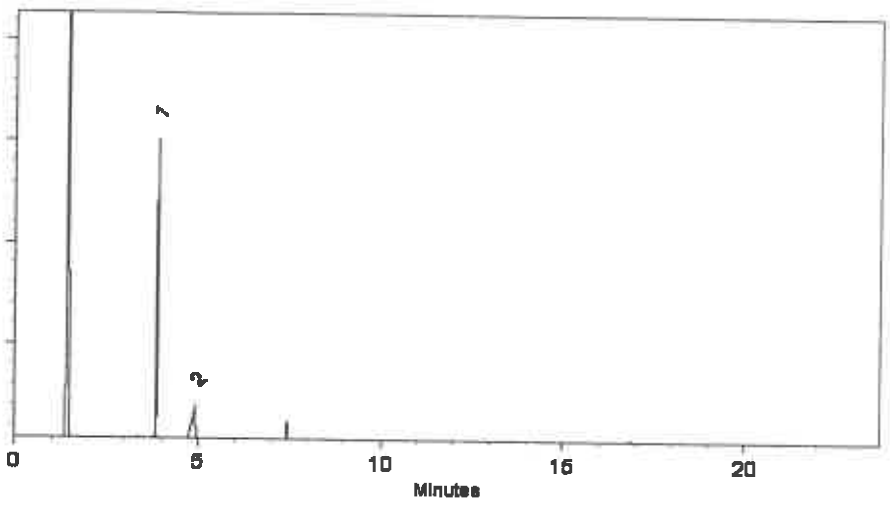
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
0.2µl



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.

Sam Moodler - Operations Tech I

Jennifer Polino - Operations Tech III - ARM QC

Date Mixed: 20-Mar-2024 **Balance Serial #** B442140311

Date Passed: 22-Mar-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8270 List1/10_00567

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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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. : 569731 **Lot No.:** A0209261

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Indene	95-13-6	RD230927	99%	2,019.6 µg/mL	+/- 113.4524
2	Benzoic acid	65-85-0	MKCR2694	99%	2,012.5 µg/mL	+/- 113.0554

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

8058391
ID: 8270 List1/10_00565
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058392
ID: 8270 List1/10_00566
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058393
ID: 8270 List1/10_00567
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058394
ID: 8270 List1/10_00568
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058395
ID: 8270 List1/10_00569
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058396
ID: 8270 List1/10_00570
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058397
ID: 8270 List1/10_00571
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058398
ID: 8270 List1/10_00572
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058399
ID: 8270 List1/10_00573
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058400
ID: 8270 List1/10_00574
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

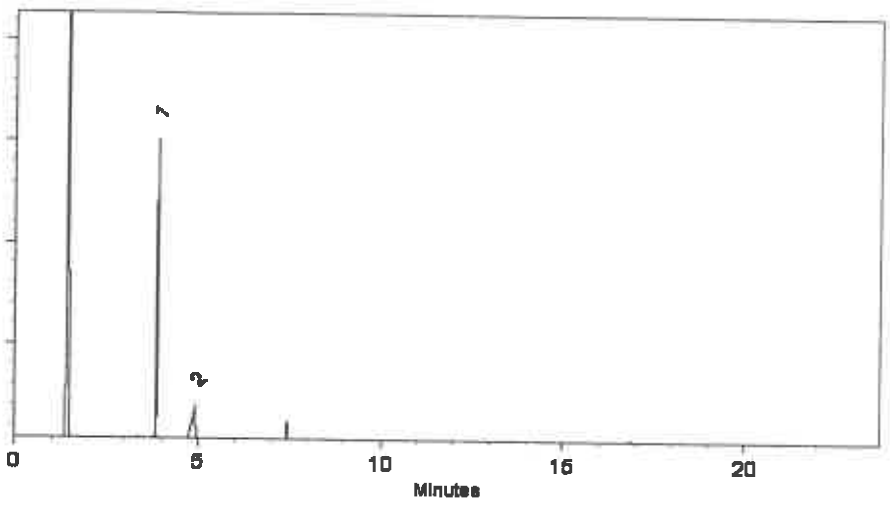
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
0.2µl



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.

Sam Moodler - Operations Tech I

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 20-Mar-2024 **Balance Serial #** B442140311

Date Passed: 22-Mar-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8270 list1/11_00156

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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. : 569732 **Lot No.:** A0200906

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2
1	Benzaldehyde	100-52-7	RD230209RSRA	99%	2,007.8 µg/mL	+/- 58.9672
2	epsilon-Caprolactam	105-60-2	I16X016	99%	2,008.0 µg/mL	+/- 58.9746
3	Atrazine	1912-24-9	5FYWL	99%	2,003.5 µg/mL	+/- 58.8424

* Expanded Uncertainty displayed in same units as Grav. Cor

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

7919030
ID: 8270 list1/11_00152
Exp: 02/28/25 Prpd:
8270 list 1/ std11

7919031
ID: 8270 list1/11_00153
Exp: 02/28/25 Prpd:
8270 list 1/ std11

7919032
ID: 8270 list1/11_00154
Exp: 02/28/25 Prpd:
8270 list 1/ std11

7919033
ID: 8270 list1/11_00155
Exp: 02/28/25 Prpd:
8270 list 1/ std11

7919034
ID: 8270 list1/11_00156
Exp: 02/28/25 Prpd:
8270 list 1/ std11

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

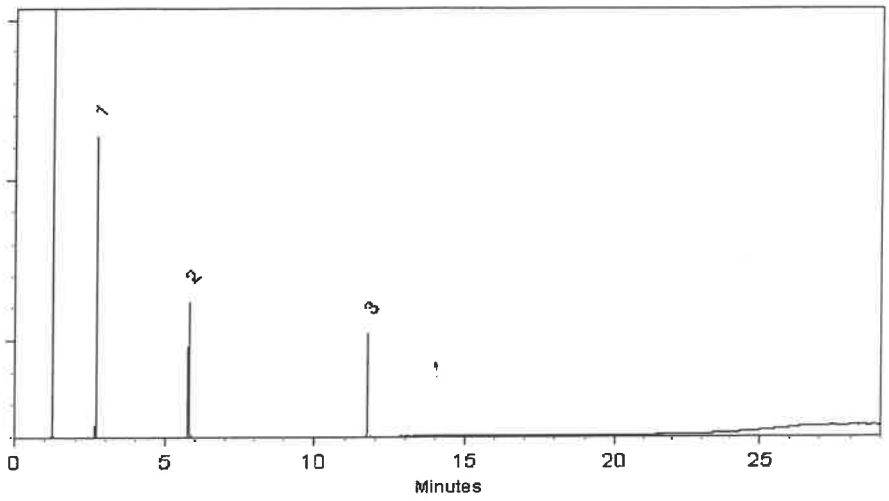
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
0.2µl



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.

Laith Clemente - Operations Technician I

Date Mixed: 11-Aug-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 17-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MB_DFTPP_STK_00121

RESTEK
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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. : 31615 **Lot No.:** A0209584

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : March 31, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240304ECS	99%	1,008.0 µg/mL	+/- 45.0466
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,001.0 µg/mL	+/- 44.7338
3	Benzidine	92-87-5	S240206RSR	99%	1,007.0 µg/mL	+/- 45.0019
4	4,4'-DDT	50-29-3	231103JLM	97%	1,001.0 µg/mL	+/- 44.7355

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_INTSTD_STK_00106

RESTEK
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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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Certificate of Analysis

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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. : 567684 **Lot No.:** A0211642

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.1 µg/mL	+/- 90.0850
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0962
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.0 µg/mL	+/- 90.0812
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,000.2 µg/mL	+/- 90.0887
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,000.3 µg/mL	+/- 90.0962
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.2 µg/mL	+/- 90.0887

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_L1S1_SS_00045

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110 Benner Circle
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 571995.SEC **Lot No.:** A0212976

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1.SEC	QHRWO	99%	1,006.3 µg/mL	+/- 18.5955
2	N-Nitrosodimethylamine	62-75-9.SEC	71L89	99%	1,008.3 µg/mL	+/- 18.6324
3	Pyridine	110-86-1.SEC	QN8DK	99%	2,020.0 µg/mL	+/- 37.3295
4	Phenol	108-95-2.SEC	EDPYN	99%	1,005.5 µg/mL	+/- 18.5816
5	Aniline	62-53-3.SEC	ZCD3N	99%	1,005.0 µg/mL	+/- 18.5724
6	Bis(2-chloroethyl)ether	111-44-4.SEC	FA010143	99%	1,007.3 µg/mL	+/- 18.6139
7	n-Decane (C10)	124-18-5.SEC	UCVNN	99%	1,008.5 µg/mL	+/- 18.6370
8	2-Chlorophenol	95-57-8.SEC	GJ01	99%	1,007.5 µg/mL	+/- 18.6186
9	1,3-Dichlorobenzene	541-73-1.SEC	FMDFD	99%	1,009.0 µg/mL	+/- 18.6463
10	1,4-Dichlorobenzene	106-46-7.SEC	J5GVD	99%	1,004.5 µg/mL	+/- 18.5631
11	Benzyl alcohol	100-51-6.SEC	QZBUO	99%	1,006.3 µg/mL	+/- 18.5955
12	1,2-Dichlorobenzene	95-50-1.SEC	R6QDM	99%	1,006.0 µg/mL	+/- 18.5908
13	2-Methylphenol (o-cresol)	95-48-7.SEC	NC7HL	99%	1,004.5 µg/mL	+/- 18.5631
14	2,2'-oxybis(1-chloropropane)	108-60-1 *	29-MAR-45-5	99%	1,007.5 µg/mL	+/- 18.6186
15	Acetophenone	98-86-2.SEC	NSGTI	99%	1,007.0 µg/mL	+/- 18.6093
16	3-Methylphenol (m-cresol)	108-39-4.SEC	6LHTM	99%	503.8 µg/mL	+/- 9.3093

17	4-Methylphenol (p-cresol)	106-44-5.SEC 65S2E	99%	504.8	µg/mL	+/- 9.3278
18	N-Nitroso-di-n-propylamine	621-64-7.SEC 13924400	99%	1,008.5	µg/mL	+/- 18.6370
19	Hexachloroethane	67-72-1.SEC 10173016	99%	1,008.5	µg/mL	+/- 18.6370
20	Nitrobenzene	98-95-3.SEC FLYIG	99%	1,003.8	µg/mL	+/- 18.5493
21	Isophorone	78-59-1.SEC XHGJI	98%	1,007.2	µg/mL	+/- 18.6129
22	2-Nitrophenol	88-75-5.SEC RP231023CTH	99%	1,006.5	µg/mL	+/- 18.6001
23	2,4-Dimethylphenol	105-67-9.SEC MKBL3650V	99%	1,005.0	µg/mL	+/- 18.5724
24	Bis(2-chloroethoxy)methane	111-91-1 * 15174900	99%	1,007.3	µg/mL	+/- 18.6139
25	2,4-Dichlorophenol	120-83-2.SEC FHM01	99%	1,008.3	µg/mL	+/- 18.6324
26	1,2,4-Trichlorobenzene	120-82-1.SEC IGLFA	99%	1,005.0	µg/mL	+/- 18.5724
27	Naphthalene	91-20-3.SEC AM5NG	99%	1,008.3	µg/mL	+/- 18.6324
28	2,6-Dichlorophenol	87-65-0.SEC SIDBB	99%	1,003.0	µg/mL	+/- 18.5354
29	4-Chloroaniline	106-47-8.SEC 10171860	99%	1,005.5	µg/mL	+/- 18.5816
30	Hexachlorobutadiene	87-68-3.SEC 13471600	97%	1,006.6	µg/mL	+/- 18.6022
31	4-Chloro-3-methylphenol	59-50-7.SEC FDO02	99%	1,005.0	µg/mL	+/- 18.5724
32	2-Methylnaphthalene	91-57-6.SEC 76023-1	99%	1,005.3	µg/mL	+/- 18.5770
33	1-Methylnaphthalene	90-12-0.SEC OEE3F	98%	1,003.3	µg/mL	+/- 18.5405
34	1,2,4,5-Tetrachlorobenzene	95-94-3.SEC AF02	99%	1,005.3	µg/mL	+/- 18.5770
35	Hexachlorocyclopentadiene	77-47-4.SEC 14794200	98%	1,008.2	µg/mL	+/- 18.6310
36	2,4,6-Trichlorophenol	88-06-2.SEC UUMYM	98%	1,004.7	µg/mL	+/- 18.5676
37	2,4,5-Trichlorophenol	95-95-4.SEC MKBQ9937V	97%	1,009.0	µg/mL	+/- 18.6471
38	2-Chloronaphthalene	91-58-7.SEC 15229800	99%	1,006.5	µg/mL	+/- 18.6001
39	Biphenyl	92-52-4.SEC 33OQE	99%	1,007.5	µg/mL	+/- 18.6186
40	2-Nitroaniline	88-74-4.SEC RP231006S	99%	1,008.3	µg/mL	+/- 18.6324
41	Acenaphthylene	208-96-8.SEC 0012014	96%	1,007.8	µg/mL	+/- 18.6234
42	1,3-Dinitrobenzene	99-65-0.SEC 3XXLB	99%	1,004.0	µg/mL	+/- 18.5539
43	Dimethylphthalate	131-11-3.SEC 483WC	99%	1,008.5	µg/mL	+/- 18.6370
44	2,6-Dinitrotoluene	606-20-2.SEC GE01	99%	1,007.3	µg/mL	+/- 18.6139
45	3-Nitroaniline	99-09-2.SEC RP230509B	99%	1,006.0	µg/mL	+/- 18.5908
46	Acenaphthene	83-32-9.SEC BWZJE	99%	1,008.8	µg/mL	+/- 18.6417
47	2,4-Dinitrophenol	51-28-5.SEC YTR6B	99%	2,018.5	µg/mL	+/- 37.3018
48	Dibenzofuran	132-64-9.SEC Q5FOB	99%	1,005.3	µg/mL	+/- 18.5770
49	4-Nitrophenol	100-02-7.SEC RP240328RSRS	99%	2,015.3	µg/mL	+/- 37.2417
50	2,4-Dinitrotoluene	121-14-2.SEC SHRSA	99%	1,009.3	µg/mL	+/- 18.6509
51	2,3,4,6-Tetrachlorophenol	58-90-2.SEC B18W03261	99%	1,008.5	µg/mL	+/- 18.6370
52	Fluorene	86-73-7.SEC 14757200	98%	1,002.8	µg/mL	+/- 18.5314

53	n-Hexadecane (C16)	544-76-3.SEC A0328141	99%	1,006.5	µg/mL	+/- 18.6001
54	Diethylphthalate	84-66-2.SEC UMBJC	99%	1,010.0	µg/mL	+/- 18.6648
55	4-Chlorophenyl phenyl ether	7005-72-3.SECP31G	98%	1,005.7	µg/mL	+/- 18.5858
56	4-Nitroaniline	100-01-6.SEC 5ITRC	99%	1,010.0	µg/mL	+/- 18.6648
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1.SEC DR15276900	99%	2,018.5	µg/mL	+/- 37.3018
58	Diphenylamine	122-39-4.SEC 10164691	99%	853.5	µg/mL	+/- 15.7726
59	Azobenzene	103-33-3.SEC JUWAG	99%	1,009.0	µg/mL	+/- 18.6463
60	4-Bromophenyl phenyl ether	101-55-3.SEC 84C6D	99%	1,009.3	µg/mL	+/- 18.6509
61	Hexachlorobenzene	118-74-1.SEC G996401	97%	1,004.0	µg/mL	+/- 18.5530
62	Pentachlorophenol	87-86-5.SEC 15277300	99%	2,007.5	µg/mL	+/- 37.0985
63	n-Octadecane (C18)	593-45-3.SEC G14U045	99%	1,004.0	µg/mL	+/- 18.5539
64	Phenanthrene	85-01-8.SEC 14992600	99%	1,004.5	µg/mL	+/- 18.5631
65	Anthracene	120-12-7.SEC WDFNJ	99%	1,008.3	µg/mL	+/- 18.6324
66	Carbazole	86-74-8.SEC LMIZB	99%	1,008.5	µg/mL	+/- 18.6370
67	Di-n-butylphthalate	84-74-2.SEC 42FSG	99%	1,005.0	µg/mL	+/- 18.5724
68	Fluoranthene	206-44-0.SEC FREGF	99%	1,007.5	µg/mL	+/- 18.6186
69	Pyrene	129-00-0.SEC ROVJC	99%	1,008.3	µg/mL	+/- 18.6324
70	Benzyl butyl phthalate	85-68-7.SEC TMXHI	99%	1,007.3	µg/mL	+/- 18.6139
71	Benz(a)anthracene	56-55-3.SEC JIU7N	99%	1,006.5	µg/mL	+/- 18.6001
72	chrysene	218-01-9.SEC RP231025RSRA	99%	1,007.5	µg/mL	+/- 18.6186
73	Bis(2-ethylhexyl)phthalate	117-81-7.SEC MT8AG	99%	1,009.0	µg/mL	+/- 18.6463
74	Di-n-octyl phthalate	117-84-0.SEC O8DLD	99%	1,006.5	µg/mL	+/- 18.6001
75	Benzo(b)fluoranthene	205-99-2.SEC I38AN	99%	1,007.0	µg/mL	+/- 18.6093
76	Benzo(k)fluoranthene	207-08-9.SEC 12876600	99%	1,005.3	µg/mL	+/- 18.5770
77	Benzo(a)pyrene	50-32-8.SEC ISLCP3775	97%	1,004.2	µg/mL	+/- 18.5574
78	Indeno(1,2,3-cd)pyrene	193-39-5.SEC 022013	99%	1,004.8	µg/mL	+/- 18.5677
79	Dibenz(a,h)anthracene	53-70-3.SEC 0012022	99%	1,005.3	µg/mL	+/- 18.5770
80	Benzo(g,h,i)perylene	191-24-2.SEC RP240610S	96%	1,004.6	µg/mL	+/- 18.5657

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

" Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Reagent

MB_L1S1_STK_00087

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
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Certificate of Analysis

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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. : 571995 **Lot No.:** A0213043

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonicate prior to use. Carcinogen/reproductive toxin. Photosensitive. Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBQ2407	99%	1,005.3 µg/mL	+/- 18.5785
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,006.7 µg/mL	+/- 18.6032
3	Pyridine	110-86-1	SHBP6240	99%	2,010.3 µg/mL	+/- 37.1424
4	Phenol	108-95-2	MKCK1120	99%	1,006.3 µg/mL	+/- 18.5970
5	Aniline	62-53-3	X22F726	99%	1,001.0 µg/mL	+/- 18.4984
6	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,007.4 µg/mL	+/- 18.7899
7	n-Decane (C10)	124-18-5	SHBQ1342	99%	1,007.3 µg/mL	+/- 18.6155
8	2-Chlorophenol	95-57-8	STBJ3909	99%	1,002.0 µg/mL	+/- 18.5169
9	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,005.7 µg/mL	+/- 18.5847
10	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 18.5477
11	Benzyl alcohol	100-51-6	SHBK5469	99%	1,007.8 µg/mL	+/- 18.6247
12	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,001.0 µg/mL	+/- 18.4984
13	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,001.8 µg/mL	+/- 18.5138
14	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,008.0 µg/mL	+/- 18.8015
15	Acetophenone	98-86-2	STBH8205	99%	1,004.3 µg/mL	+/- 18.5600
16	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.7 µg/mL	+/- 9.2893

17	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	500.8	µg/mL	+/- 9.2554
18	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,005.7	µg/mL	+/- 18.5847
19	Hexachloroethane	67-72-1	DAXRI	99%	1,001.9	µg/mL	+/- 18.6873
20	Nitrobenzene	98-95-3	10224044	99%	1,006.8	µg/mL	+/- 18.7782
21	Isophorone	78-59-1	MKCC9506	99%	1,003.1	µg/mL	+/- 18.7106
22	2-Nitrophenol	88-75-5	RP230509C	99%	1,005.2	µg/mL	+/- 18.5754
23	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,002.3	µg/mL	+/- 18.5231
24	Bis(2-chloroethoxy)methane	111-91-1	15174900	99%	1,008.5	µg/mL	+/- 18.8109
25	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,007.2	µg/mL	+/- 18.6124
26	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.7	µg/mL	+/- 18.6032
27	Naphthalene	91-20-3	STBL1057	99%	1,007.3	µg/mL	+/- 18.7875
28	2,6-Dichlorophenol	87-65-0	MKCS9444	99%	1,007.7	µg/mL	+/- 18.6216
29	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,003.8	µg/mL	+/- 18.5508
30	Hexachlorobutadiene	87-68-3	X05J	99%	1,004.9	µg/mL	+/- 18.7432
31	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,000.7	µg/mL	+/- 18.4923
32	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,001.0	µg/mL	+/- 18.4984
33	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 18.4800
34	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,002.7	µg/mL	+/- 18.5292
35	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,004.4	µg/mL	+/- 18.7340
36	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,006.8	µg/mL	+/- 18.6062
37	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,001.7	µg/mL	+/- 18.5111
38	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,002.5	µg/mL	+/- 18.6989
39	Biphenyl	92-52-4	MKCL6515	99%	1,005.8	µg/mL	+/- 18.5878
40	2-Nitroaniline	88-74-4	RP230531	99%	1,007.0	µg/mL	+/- 18.6093
41	Acenaphthylene	208-96-8	214935V16F	97%	1,000.1	µg/mL	+/- 18.6536
42	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,007.5	µg/mL	+/- 18.6186
43	Dimethylphthalate	131-11-3	358221L17K	99%	1,001.9	µg/mL	+/- 18.6873
44	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,001.9	µg/mL	+/- 18.6873
45	3-Nitroaniline	99-09-2	RP231103CTH-1	99%	1,004.8	µg/mL	+/- 18.5693
46	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 18.6523
47	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	2,007.8	µg/mL	+/- 37.0962
48	Dibenzofuran	132-64-9	MKCN1772	99%	1,002.5	µg/mL	+/- 18.5262
49	4-Nitrophenol	100-02-7	RP240328CTH	99%	2,007.8	µg/mL	+/- 37.0962
50	2,4-Dinitrotoluene	121-14-2	102869L10R	99%	1,007.4	µg/mL	+/- 18.7899
51	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,002.8	µg/mL	+/- 18.5323
52	Fluorene	86-73-7	10241100	99%	1,006.0	µg/mL	+/- 18.7642

53	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	1,003.7	µg/mL	+/- 18.5477
54	Diethylphthalate	84-66-2	BCCJ6241	99%	1,007.0	µg/mL	+/- 18.7829
55	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,006.5	µg/mL	+/- 18.7736
56	4-Nitroaniline	100-01-6	RP230111	99%	1,001.7	µg/mL	+/- 18.5108
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S240403RSR	99%	2,008.5	µg/mL	+/- 37.1085
58	Diphenylamine	122-39-4	MKCT1512	99%	855.0	µg/mL	+/- 15.8004
59	Azobenzene	103-33-3	BCCK0887	99%	1,003.2	µg/mL	+/- 18.5385
60	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,002.0	µg/mL	+/- 18.6896
61	Hexachlorobenzene	118-74-1	15277000	99%	1,005.1	µg/mL	+/- 18.7479
62	Pentachlorophenol	87-86-5	RP240411RSR	99%	2,014.7	µg/mL	+/- 37.2224
63	n-Octadecane (C18)	593-45-3	UE5NG	98%	1,005.3	µg/mL	+/- 18.5782
64	Phenanthrene	85-01-8	MKCS5188	99%	1,006.0	µg/mL	+/- 18.7642
65	Anthracene	120-12-7	MKCR0570	99%	1,004.5	µg/mL	+/- 18.7362
66	Carbazole	86-74-8	15276700	99%	1,003.7	µg/mL	+/- 18.5477
67	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,008.3	µg/mL	+/- 18.8062
68	Fluoranthene	206-44-0	MKCQ4728	99%	1,005.0	µg/mL	+/- 18.7456
69	Pyrene	129-00-0	BCCK2592	99%	1,001.5	µg/mL	+/- 18.6803
70	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.8	µg/mL	+/- 18.7969
71	Benz(a)anthracene	56-55-3	I20012022BAA	99%	1,008.4	µg/mL	+/- 18.8085
72	Chrysene	218-01-9	RP231206RSR	99%	1,005.5	µg/mL	+/- 18.7549
73	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,006.4	µg/mL	+/- 18.7712
74	Di-n-octyl phthalate	117-84-0	15172900	99%	1,006.9	µg/mL	+/- 18.7805
75	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,003.1	µg/mL	+/- 18.7106
76	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,006.4	µg/mL	+/- 18.7712
77	Benzo(a)pyrene	50-32-8	O45GL	98%	1,002.7	µg/mL	+/- 18.7020
78	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.6	µg/mL	+/- 18.6830
79	Dibenz(a,h)anthracene	53-70-3	1-SLH-51-1	99%	1,001.8	µg/mL	+/- 18.6850
80	Benzo(g,h,i)perylene	191-24-2	RP240530RSR	98%	1,002.2	µg/mL	+/- 18.6928

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_L1S10_STK_00106

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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Certificate of Analysis

chromatographic plus

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. : 569731 **Lot No.:** A0209261

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

MB_LISIO_STK_00106-8

Received 5/6/24

BS

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Indene	95-13-6	RD230927	99%	2,019.6 µg/mL	+/- 113.4524
2	Benzoic acid	65-85-0	MKCR2694	99%	2,012.5 µg/mL	+/- 113.0554

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

* Expanded Uncertainty displayed in same units as Grav. Conc.

Reagent

MB_L1S11_SS_00039

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ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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. : 569732.SEC **Lot No.:** A0216037

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : March 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzaldehyde	100-52-7.SEC	E7DWH	99%	2,001.0 µg/mL	+/- 58.7906
2	epsilon-Caprolactam	105-60-2.SEC	BLJTB	99%	2,010.0 µg/mL	+/- 59.0551
3	Atrazine	1912-24-9.SEC	14713000	99%	2,013.0 µg/mL	+/- 59.1432

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_L1S11_STK_00065

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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.

MB_LIS11_STK_00065

Received 11/6/23 JM

Catalog No. : 569732 **Lot No.:** A0200906

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzaldehyde	100-52-7	RD230209RSRA	99%	2,007.8 µg/mL	+/- 58.9672
2	epsilon-Caprolactam	105-60-2	I16X016	99%	2,008.0 µg/mL	+/- 58.9746
3	Atrazine	1912-24-9	5FYWL	99%	2,003.5 µg/mL	+/- 58.8424

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_L1S9_SS_00034

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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. : 569730.SEC **Lot No.:** A0202769

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

Recieved by ED
2/1/24
MB_LIS9_STK_0049
MB_LIS9_STK_0050
MB_LIS9_STK_0051

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzidine	92-87-5.SEC	6732900	99%	2,004.5 µg/mL	+/- 37.0691
2	3,3'-Dichlorobenzidine	91-94-1.SEC	13954700	99%	2,002.5 µg/mL	+/- 37.0321

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_L1S9_STK_00048

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110 Benner Circle
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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.

MB_LI59-STK_00048

Received 12/4/23 JM

Catalog No. : 569730 **Lot No.:** A0201346

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzidine	92-87-5	S230609RSRB	99%	2,006.0 µg/mL	+/- 37.0623
2	3,3'-Dichlorobenzidine	91-94-1	S230321RSR	99%	2,002.0 µg/mL	+/- 36.9884

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_SURR_STK_00072

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 567685 **Lot No.:** A0172807

MB_SURR_STK_00071-75

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

Received 11/5/21

RS

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2026 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol		5,004.6 µg/mL	+/- 29.0972	µg/mL	Gravimetric
	CAS # 367-12-4	(Lot STBJ2508)		+/- 146.0510	µg/mL	Unstressed
	Purity 99%			+/- 177.2273	µg/mL	Stressed
2	Phenol-d5		5,011.4 µg/mL	+/- 29.1367	µg/mL	Gravimetric
	CAS # 4165-62-2	(Lot CD-105)		+/- 146.2494	µg/mL	Unstressed
	Purity 99%			+/- 177.4681	µg/mL	Stressed
3	Nitrobenzene-d5		5,003.0 µg/mL	+/- 29.0879	µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940B)		+/- 146.0043	µg/mL	Unstressed
	Purity 99%			+/- 177.1706	µg/mL	Stressed
4	2-Fluorobiphenyl		5,010.2 µg/mL	+/- 29.1297	µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00019169)		+/- 146.2144	µg/mL	Unstressed
	Purity 99%			+/- 177.4256	µg/mL	Stressed
5	2,4,6-Tribromophenol		5,003.9 µg/mL	+/- 29.0931	µg/mL	Gravimetric
	CAS # 118-79-6	(Lot MKCJ7664)		+/- 146.0306	µg/mL	Unstressed
	Purity 99%			+/- 177.2025	µg/mL	Stressed
6	p-Terphenyl-d14		5,013.8 µg/mL	+/- 29.1507	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 146.3195	µg/mL	Unstressed
	Purity 99%			+/- 177.5531	µg/mL	Stressed

Reagent

MED_HNO3_00813

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	A200	Quality Test / Release Date	03/01/2024
Lot Number	240238		
Description	NITRIC ACID, CERTIFIED ACS		
Country of Origin	United States	Suggested Retest Date	Feb/2029
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless free from suspended matter
ALUMINUM	ppm	<= 0.2	<0.2
ARSENIC (As)	ppm	<= 0.004	<0.004
ASSAY	w/w %	Inclusive Between 68.0 - 70.0	69.4
BORON (B)	ppm	<= 0.1	<0.1
CALCIUM (Ca)	ppm	<= 0.2	<0.2
CHLORIDE	ppm	<= 0.08	<0.08
CHROMIUM (Cr)	ppm	<= 0.1	<0.1
COLOR	APHA	<= 10	<10
COPPER (Cu)	ppm	<= 0.05	<0.05
GOLD (Au)	ppm	<= 0.3	<0.3
HEAVY METALS (as Pb)	ppm	<= 0.2	<0.2
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	ppm	<= 0.2	<0.2
LEAD (Pb)	ppm	<= 0.1	<0.1
MAGNESIUM (Mg)	ppm	<= 0.3	<0.3
NICKEL (Ni)	ppm	<= 0.05	<0.05
PHOSPHATE (PO4)	ppm	<= 0.2	<0.2
POTASSIUM (K)	ppm	<= 0.3	<0.3
RESIDUE AFTER IGNITION	ppm	<= 2	<2
SODIUM (Na)	ppm	<= 0.3	<0.3
SULFATE (SO4)	ppm	<= 0.5	<0.5
TIN (Sn)	ppm	<= 0.3	<0.3
TITANIUM (Ti)	ppm	<= 0.3	<0.3

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

ZINC (Zn)	ppm	<= 0.3	<0.3

Kalyan Paruchuri - Quality Control Supervisor - Bridgewater

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Reagent

MEH_1_STOCK_00005

7241262
ID: NEH_1_STOCK_00005
Exp: 05/30/25 Prpd: VAK
100 ppm Hg standard

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name:	Primary Safe Drinking Water Act no. 3, Mercury Standard	**Lot Number:**	0006684748
Product Number:	ICM-303	**Lot Issue Date:**	31-May-2022
Storage Conditions:	Store at Room Temperature (15° to 30°C). Light Sensitive.	**Expiration Date:**	30-Jun-2025

	CERTIFIED VALUES				
Component Name	Concentration		Expanded Uncertainty	CAS#	Analyte Lot
mercuric nitrate (ICP grade) (as mercury)	100.4	±	0.5 µg/mL	007783-34-8	RM11214

Matrix: water with dilute nitric acid

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system. The analyte concentration(s) were prepared and verified by an ISO 17034 / ISO 17025 accredited laboratory and compared to calibration standards independently prepared using NIST SRM(s) when available. The certified value and uncertainty value at the 95% confidence level for each analyte is determined gravimetrically.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Reagent

MV_BFB_STK_00095

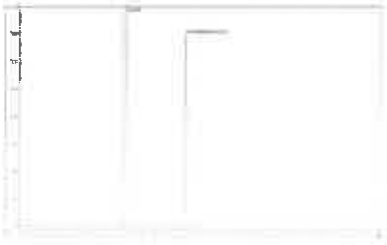
BFB 095-099

Supelco

www.sigmaaldrich.com
Document 20550009 Version 2.0

Certificate of Analysis - Certified Reference Material

4-Bromofluorobenzene solution



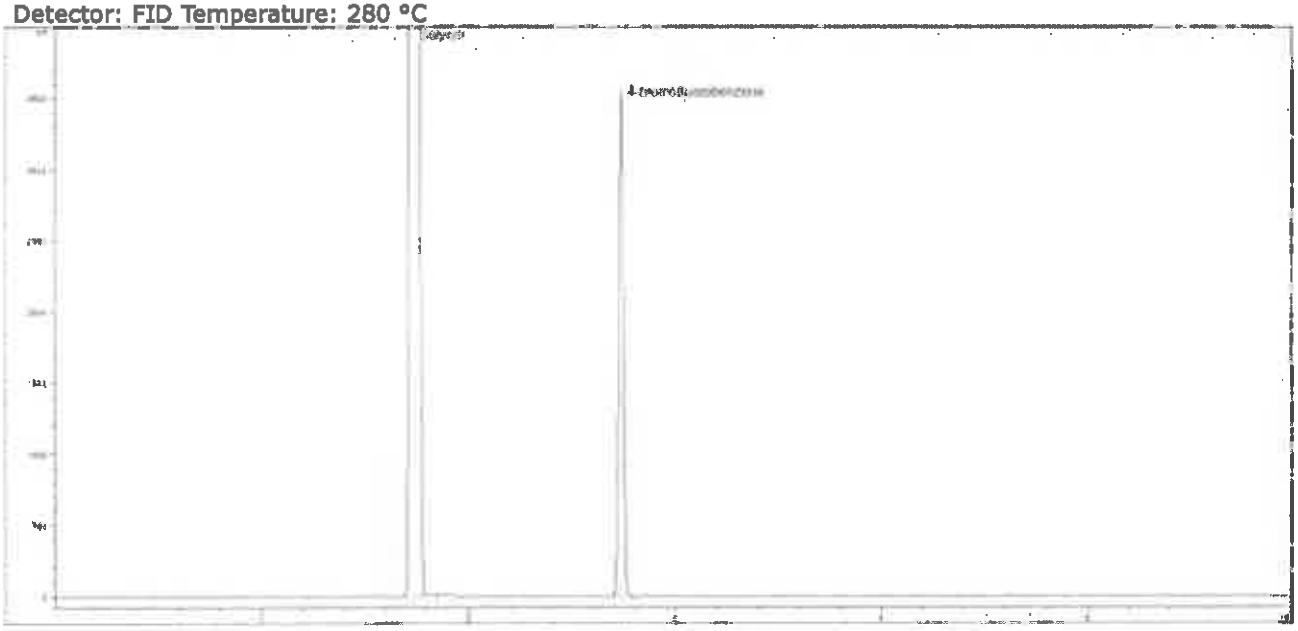
Product no.: 48800
Lot no.: LRAD6467
Expiry Date: November 2026
Manufacturing Date: November 2023
Storage: ROOM TEMPERATURE (2 °C to 30 °C)
Solvent/Matrix: METHANOL
Certificate version: LRAD6467.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Certified Values:

Analyte	Certified Value	Units	Raw Material Purity,%	Raw Material Lot
4-BROMOFLUOROBENZENE CAS# 460-00-4	25000 ± 786	µg/mL	99.9	LB48377

ASSAY Method

METHOD: GC (IN-HOUSE)
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H2 Flow Rate: 4.0 mL/min
Inlet Temperature: 160 °C Injection Volume: 1 µL
Injection Mode: Split Ratio: 35:1
Temperature Program: 120 °C (Hold 0 min) @ 20 °C/min to 180 °C (Hold 3 min)
Detector: FID Temperature: 280 °C



Elution details:

EO	TIME	ANALYTE
1	2.74	4-bromofluorobenzene

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

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:	10 NOV 2023

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:	Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. If k is not provided, assume a value of 2.0. 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 Ucrm calculation is as follows: $U_{crm} = \left(\sqrt{u^2_{characterisation} + u^2_{homogeneity} + u^2_{stability}}\right) \times k$
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 evaluation.

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD6467.01	10 NOV 2023	Original release date

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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

Reagent

O_8270/625LCS_00249

2mL
16mL
4mL
4mL
} ⇒ 100mL Acetone

Organic Prep
Spike / Surrogate Verification Form

8082606
ID: O_8270/625LCS_00249
Exp: 02/26/25 Prpd: Crt: 09/25/24
8270/625 LCS Spike Mix#1

Spike/Surrogate Method: 8270/625 LCS TALs Reagent

Spike/Surrogate Code: A193

Prepared By / Date: 9/25/24

Date Submitted for Analysis: 9/26/24

Solvent Exchanged? (YES) NO

Solvent Used for Exchange: CH_2Cl_2

Final Concentrated Volume: 1.0mL

Final Method Volume: 1.0mL

Final Method Volume Done by Prep? (Yes) No

Date of Analysis: 9/26/24

Analyzed By: Adam Zajac

Compounds within range of expected recovery? (YES) NO

Spike / Surrogate Verified for Preparation Use? (YES) NO

* Please return form with final concentration report to Organic Prep

BF-OP-SV-003 Spike Verification Form Rev. 1 11/18/2015

Preliminary Report

Eurofins Buffalo

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Buffalo\ChromData\HP5973V\20240926-120233.b\V3169314.d
Lims ID: LCS
Worklist ID: 480-0120233-016
Method: V-8270
Inj. Date: 26-Sep-2024 18:42:30
Instrument: HP5973V

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C
68 1,4-Dioxane	40.0	38.0	95.1	10-120
69 N-Nitrosodimethylamine	40.0	40.5	101.3	10-120
70 Pyridine	80.0	65.9	82.4	10-120
80 Benzaldehyde	80.0	103.3	129.1	10-140
82 Aniline	40.0	42.5	106.1	12-120
81 Phenol	40.0	41.6	104.0	17-120
83 Bis(2-chloroethyl)ether	40.0	43.7	109.2	44-120
84 2-Chlorophenol	40.0	44.4	110.9	48-120
263 n-Decane	40.0	40.5	101.2	23-121
87 1,3-Dichlorobenzene	40.0	40.9	102.2	40-120
88 1,4-Dichlorobenzene	40.0	41.6	103.9	42-120
90 Benzyl alcohol	40.0	44.8	112.1	41-126
91 1,2-Dichlorobenzene	40.0	43.7	109.3	45-120
248 Indene	320.0	324.6	101.4	31-120
93 2,2'-oxybis[1-chloropro	40.0	44.9	112.2	21-136
92 2-Methylphenol	40.0	44.2	110.5	39-120
94 Acetophenone	40.0	45.9	114.8	45-120
95 N-Nitrosodi-n-propylami	40.0	44.4	111.1	32-140
98 4-Methylphenol	40.0	47.3	118.3	29-131
99 Hexachloroethane	40.0	42.0	105.0	33-120
102 Nitrobenzene	40.0	42.4	106.1	53-123
106 Isophorone	40.0	45.8	114.4	55-120
107 2-Nitrophenol	40.0	42.8	107.0	52-125
108 2,4-Dimethylphenol	40.0	45.2	113.1	47-120
111 Bis(2-chloroethoxy)meth	40.0	44.8	112.1	50-128
114 2,4-Dichlorophenol	40.0	43.5	108.7	63-120
115 Benzoic acid	320.0	256.8	80.2	10-120
117 1,2,4-Trichlorobenzene	40.0	42.7	106.6	40-120
118 Naphthalene	40.0	42.8	107.1	57-120
119 4-Chloroaniline	40.0	42.8	107.0	30-120
122 2,6-Dichlorophenol	40.0	45.2	112.9	62-120
121 Hexachlorobutadiene	40.0	44.4	111.0	35-120
124 Caprolactam	80.0	92.7	115.8	22-120
129 4-Chloro-3-methylphenol	40.0	46.9	117.3	61-123
131 2-Methylnaphthalene	40.0	45.3	113.3	59-120
251 1-Methylnaphthalene	40.0	45.8	114.4	51-120
134 Hexachlorocyclopentadie	40.0	39.5	98.8	31-120
135 1,2,4,5-Tetrachlorobenz	40.0	43.1	107.7	53-120
137 2,4,6-Trichlorophenol	40.0	43.9	109.7	64-120
138 2,4,5-Trichlorophenol	40.0	44.4	110.9	65-126
140 1,1'-Biphenyl	40.0	43.6	109.0	59-120

Preliminary Report

Sample Path: \\chromfs\Buffalo\ChromData\HP5973V\20240926-120233.b\V3169314.d

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C
141 2-Chloronaphthalene	40.0	44.2	110.6	58-120
143 2-Nitroaniline	40.0	46.0	114.9	54-127
146 Dimethyl phthalate	40.0	46.2	115.5	69-120
148 1,3-Dinitrobenzene	40.0	46.0	114.9	68-131
149 2,6-Dinitrotoluene	40.0	45.7	114.2	68-120
150 Acenaphthylene	40.0	46.3	115.9	63-120
151 3-Nitroaniline	40.0	40.2	100.4	51-120
152 Acenaphthene	40.0	43.8	109.6	60-120
153 2,4-Dinitrophenol	80.0	83.1	103.9	31-137
154 4-Nitrophenol	80.0	82.6	103.2	45-120
155 Dibenzofuran	40.0	44.4	111.1	66-120
156 2,4-Dinitrotoluene	40.0	45.7	114.2	69-120
158 2,3,4,6-Tetrachlorophen	40.0	45.9	114.8	63-120
161 Diethyl phthalate	40.0	47.3	118.1	59-127
256 Hexadecane	40.0	46.4	115.9	37-122
162 Fluorene	40.0	45.8	114.5	66-120
163 4-Chlorophenyl phenyl e	40.0	44.4	110.9	62-120
164 4-Nitroaniline	40.0	44.6	111.6	65-120
165 4,6-Dinitro-2-methylphe	80.0	87.5	109.4	46-136
169 Diphenylamine	34.2	37.8	110.6	61-120
168 N-Nitrosodiphenylamine	40.0	44.2	110.6	61-120
170 1,2-Diphenylhydrazine	40.0	46.8	116.9	41-135
171 Azobenzene	40.0	46.0	114.9	41-135
175 4-Bromophenyl phenyl et	40.0	46.4	115.9	65-120
179 Hexachlorobenzene	40.0	45.2	113.1	61-120
180 Atrazine	80.0	93.1	116.4	71-130
183 Pentachlorophenol	80.0	86.5	108.2	10-136
285 n-Octadecane	40.0	47.6	119.0	41-129
188 Phenanthrene	40.0	44.8	112.1	68-120
189 Anthracene	40.0	46.6	116.5	67-120
192 Carbazole	40.0	46.4	116.1	66-123
195 Di-n-butyl phthalate	40.0	46.8	116.9	69-131
201 Fluoranthene	40.0	47.2	118.0	69-126
202 Benzidine	40.0	52.2	130.4	5-120*
204 Pyrene	40.0	44.6	111.6	70-125
210 Butyl benzyl phthalate	40.0	45.5	113.7	70-129
215 3,3'-Dichlorobenzidine	40.0	49.1	122.9	49-135
217 Benzo[a]anthracene	40.0	45.0	112.5	70-121
216 Bis(2-ethylhexyl) phtha	40.0	46.2	115.4	63-139
218 Chrysene	40.0	42.8	107.1	69-120
220 Di-n-octyl phthalate	40.0	47.5	118.7	63-140
221 Benzo[b]fluoranthene	40.0	46.6	116.5	66-126
222 Benzo[k]fluoranthene	40.0	42.6	106.5	65-124
225 Benzo[a]pyrene	40.0	44.7	111.7	60-123
227 Indeno[1,2,3-cd]pyrene	40.0	43.0	107.4	69-146
228 Dibenz(a,h)anthracene	40.0	42.6	106.6	65-135

Report Date: 27-Sep-2024 13:57:02 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Preliminary Report

Sample Path: \\chromfs\Buffalo\ChromData\HP5973V\20240926-120233.b\V3169314.d

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C
229 Benzo[g,h,i]perylene	40.0	42.8	107.2	66-150
S 233 3-Methylphenol	40.0	47.3	118.3	39-120

Samples for Limit Group: 1, Lims Prep Method: 3510C

480-223579-B-1-G 480-223579-B-2-E 480-223579-B-3-G
480-223579-B-4-G 480-223579-B-5-G 480-223579-B-6-G
480-223618-A-1-C

Reagent

O_8270LL LCS_00159

20mL→100mL
Acetone

Organic Prep
Spike / Surrogate Verification Form

Spike/Surrogate Method: 8270LL/LVI, 625 LVI TALs Reagent ID: 8086832 ID: O_8270LL LCS_00169 Exp: 03/28/25 Prpd: Ctl: 08/30/24 8270 LVI/LL LCS spike @ 8

Spike/Surrogate Code: A302

Prepared By / Date: SP 9/30/24

Date Submitted for Analysis: 9/30/24

Solvent Exchanged? (YES) NO

Solvent Used for Exchange: MeCl2

Final Concentrated Volume: 1.0mL

Final Method Volume: 1.0mL

Final Method Volume Done by Prep? (Yes) No

Date of Analysis: 10/1/24

Analyzed By: QF

Compounds within range of expected recovery? (YES) NO

Spike / Surrogate Verified for Preparation Use? (YES) NO

* Please return form with final concentration report to Organic Prep

Preliminary Report

Eurofins Buffalo

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Buffalo\ChromData\HP5973Y\20241001-120306.b\Y039038.D
Lims ID: LCS
Worklist ID: 480-0120306-005
Method: Y-LVI-8270
Inj. Date: 02-Oct-2024 04:43:30
Instrument: HP5973Y

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C_LVI
13 1,4-Dioxane	8.00	6.76	84.7	10-120
14 N-Nitrosodimethylamine	8.00	6.91	86.4	10-120
15 Pyridine	16.0	10.8	67.2	10-120
35 Benzaldehyde	16.0	13.5	84.2	10-140
37 Phenol	8.00	7.32	91.6	17-120
38 Aniline	8.00	5.66	70.8	12-120
39 Bis(2-chloroethyl)ether	8.00	8.39	104.9	44-120
41 n-Decane	8.00	6.88	86.1	23-121
40 2-Chlorophenol	8.00	7.70	96.3	48-120
43 1,3-Dichlorobenzene	8.00	7.79	97.4	40-120
44 1,4-Dichlorobenzene	8.00	7.72	96.6	42-120
45 Benzyl alcohol	8.00	7.87	98.4	41-126
46 1,2-Dichlorobenzene	8.00	7.80	97.5	46-120
48 2-Methylphenol	8.00	7.70	96.2	39-120
49 2,2'-oxybis[1-chloropro	8.00	6.92	86.5	21-136
47 Indene	64.0	60.4	94.4	31-120
57 4-Methylphenol	8.00	7.98	99.8	29-131
53 N-Nitrosodi-n-propylami	8.00	7.34	91.8	32-140
52 Acetophenone	8.00	7.52	93.9	45-120
58 Hexachloroethane	8.00	7.80	95.0	33-120
59 Nitrobenzene	8.00	7.82	97.7	53-123
62 Isophorone	8.00	8.08	101.1	55-120
64 2-Nitrophenol	8.00	8.27	103.3	52-125
66 2,4-Dimethylphenol	8.00	7.89	98.7	47-120
69 Bis(2-chloroethoxy)meth	8.00	8.28	103.4	50-128
70 Benzoic acid	64.0	46.2	72.2	10-120
72 2,4-Dichlorophenol	8.00	8.08	101.0	63-120
73 1,2,4-Trichlorobenzene	8.00	8.11	101.4	40-120
74 Naphthalene	8.00	7.92	99.1	57-120
76 4-Chloroaniline	8.00	6.46	80.8	30-120
77 2,6-Dichlorophenol	8.00	8.20	102.5	62-120
79 Hexachlorobutadiene	8.00	8.74	109.2	35-120
84 Caprolactam	16.0	14.6	91.2	22-120
85 4-Chloro-3-methylphenol	8.00	8.10	101.3	61-123
87 2-Methylnaphthalene	8.00	8.05	100.6	59-120
89 1-Methylnaphthalene	8.00	8.43	105.3	51-120
90 Hexachlorocyclopentadie	8.00	6.04	75.5	31-120
91 1,2,4,5-Tetrachlorobenz	8.00	8.21	102.7	53-120
93 2,4,6-Trichlorophenol	8.00	8.09	101.2	64-120
94 2,4,5-Trichlorophenol	8.00	8.45	105.6	65-126
96 1,1'-Biphenyl	8.00	7.93	99.1	59-120

Preliminary Report

Sample Path: \\chromfs\Buffalo\ChromData\HP5973Y\20241001-120306.b\Y039038.D

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C_LVI
97 2-Chloronaphthalene	8.00	7.74	96.8	58-120
100 2-Nitroaniline	8.00	7.72	96.5	54-127
105 Dimethyl phthalate	8.00	8.20	102.5	68-120
106 1,3-Dinitrobenzene	8.00	9.18	114.7	68-131
107 2,6-Dinitrotoluene	8.00	8.46	105.7	68-120
108 Acenaphthylene	8.00	8.20	102.5	63-120
109 3-Nitroaniline	8.00	6.32	79.0	51-120
110 Acenaphthene	8.00	7.97	99.7	60-120
111 2,4-Dinitrophenol	16.0	11.9	74.5	31-137
112 4-Nitrophenol	16.0	14.4	89.9	45-120
114 2,4-Dinitrotoluene	8.00	8.48	106.0	69-120
115 Dibenzofuran	8.00	8.23	102.8	66-120
118 2,3,4,6-Tetrachlorophen	8.00	7.03	87.9	63-120
121 Hexadecane	8.00	7.61	95.1	37-122
120 Diethyl phthalate	8.00	7.60	95.0	59-127
123 4-Chlorophenyl phenyl e	8.00	8.17	102.1	62-120
124 Fluorene	8.00	8.38	104.7	66-120
126 4-Nitroaniline	8.00	7.09	88.6	65-120
127 4,6-Dinitro-2-methylphe	16.0	12.7	79.7	46-136
129 Diphenylamine	6.84	6.76	98.8	61-120
130 N-Nitrosodiphenylamine	8.00	7.91	98.8	61-120
131 1,2-Diphenylhydrazine	8.00	7.81	97.6	41-135
132 Azobenzene	8.00	7.81	97.6	41-135
139 4-Bromophenyl phenyl et	8.00	8.60	107.5	65-120
140 Hexachlorobenzene	8.00	7.58	94.8	61-120
143 Atrazine	16.0	16.0	100.3	71-130
148 n-Octadecane	8.00	7.08	88.5	41-129
145 Pentachlorophenol	16.0	11.3	70.6	10-136
151 Phenanthrene	8.00	8.43	105.4	68-120
152 Anthracene	8.00	8.85	110.7	67-120
153 Carbazole	8.00	8.29	103.7	66-123
157 Di-n-butyl phthalate	8.00	7.95	99.4	69-131
164 Fluoranthene	8.00	8.91	111.3	69-126
166 Benzidine	8.00	6.68	83.5	5-120
167 Pyrene	8.00	9.05	113.2	70-125
174 Butyl benzyl phthalate	8.00	8.29	103.7	70-129
181 Bis(2-ethylhexyl) phtha	8.00	8.22	102.8	63-139
179 3,3'-Dichlorobenzidine	8.00	7.68	96.0	49-135
180 Benzo[a]anthracene	8.00	8.78	109.7	70-121
182 Chrysene	8.00	8.71	108.8	69-120
184 Di-n-octyl phthalate	8.00	8.72	109.0	63-140
186 Benzo[b]fluoranthene	8.00	8.87	110.9	66-126
187 Benzo[k]fluoranthene	8.00	8.82	110.3	65-124
189 Benzo[a]pyrene	8.00	8.94	111.8	60-123
194 Dibenz(a,h)anthracene	8.00	9.14	114.2	65-135
193 Indeno[1,2,3-cd]pyrene	8.00	8.93	111.7	69-146

Preliminary Report

Sample Path: \\chromfs\Buffalo\ChromData\HP5973Y\20241001-120306.b\Y039038.D

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C_LVI
195 Benzo[g,h,i]perylene	8.00	8.70	108.8	66-150
S 263 3-Methylphenol	8.00	7.98	99.8	39-120

Samples for Limit Group: 1, Lims Prep Method: 3510C_LVI

480-223792-F-9-A
480-223792-E-1-A
480-223792-J-2-A
480-223792-G-3-A
480-223792-H-4-A
480-223792-C-5-A
480-223767-C-1-A
480-223767-C-2-A
480-223767-C-3-A
480-223767-D-4-A
480-223767-C-5-A
480-223767-C-6-A
480-223767-D-7-A
480-223767-D-8-A
480-223767-D-9-A
480-223767-C-10-A

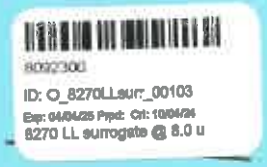
Reagent

O_8270LLsurr_00103

1.6mL → 1000mL
Acetone

Organic Prep
Spike / Surrogate Verification Form

Spike/Surrogate Method: 8270LL/LVI(625)VI TALs Reagent ID:



Spike/Surrogate Code: ASS

Prepared By / Date: SP 10/4/24

Date Submitted for Analysis: 10/7/24

Solvent Exchanged? (YES) NO

Solvent Used for Exchange: $MeCl_2$

Final Concentrated Volume: 1.0mL

Final Method Volume: 1.0mL

Final Method Volume Done by Prep? (Yes) No

Date of Analysis: 10/8/24

Analyzed By: JM

Compounds within range of expected recovery? (YES) NO

Spike / Surrogate Verified for Preparation Use? (YES) NO

* Please return form with final concentration report to Organic Prep

Preliminary Report

Eurofins Buffalo

Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241007-120386.b\Y04000.D
Lims ID: Surr
Client ID:
Sample Type: Client
Inject. Date: 08-Oct-2024 03:59:30 ALS Bottle#: 37 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120386-009
Operator ID: AF Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241007-120386.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 08-Oct-2024 08:34:25 Calib Date: 01-Oct-2024 12:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241001-120301.b\Y039003.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1617

Compound	Amount Added	Amount Recovered	% Rec.	LCMS Limits
$ 7 2-Fluorophenol	8.00	6.51	81.34	24-120
$ 8 Phenol-d5	8.00	5.81	72.58	10-120
$ 9 Nitrobenzene-d5	8.00	5.94	74.31	29-129
$ 10 2-Fluorobiphenyl	8.00	7.43	92.87	53-120
$ 11 2,4,6-Tribromophenol	8.00	5.50	68.70	25-144
$ 12 p-Terphenyl-d14	8.00	7.51	93.89	53-132

Reagent

O_8270MegaMix_00195

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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. : 571995 **Lot No.:** A0213533

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

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

Handling: Sonicate prior to use, Carcinogen/reproductive toxin, Photosensitive. Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBR4317	99%	1,001.1 µg/mL	+/- 18.5007
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,000.0 µg/mL	+/- 18.4800
3	Pyridine	110-86-1	SHBP6240	99%	2,010.6 µg/mL	+/- 37.1478
4	Phenol	108-95-2	MKCK1120	99%	1,005.1 µg/mL	+/- 18.5747
5	Aniline	62-53-3	X22F726	99%	1,001.9 µg/mL	+/- 18.5146
6	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,002.2 µg/mL	+/- 18.6760
7	n-Decane (C10)	124-18-5	SHBQ1342	99%	1,002.3 µg/mL	+/- 18.5215
8	2-Chlorophenol	95-57-8	STBJ3909	99%	1,009.3 µg/mL	+/- 18.6509
9	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,000.1 µg/mL	+/- 18.4823
10	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,000.5 µg/mL	+/- 18.4892
11	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.4 µg/mL	+/- 18.5423
12	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,006.3 µg/mL	+/- 18.5955
13	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.5 µg/mL	+/- 18.5631
14	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,002.1 µg/mL	+/- 18.6748
15	Acetophenone	98-86-2	STBH8205	99%	1,006.5 µg/mL	+/- 18.6001
16	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	500.6 µg/mL	+/- 9.2515

7998744 ID: O_8270MegaMix_00192 Exp: 05/31/25 Prpd: 8270 List 1/Std#1 Mega MI

7998745 ID: O_8270MegaMix_00193 Exp: 05/31/25 Prpd: 8270 List 1/Std#1 Mega MI

7998746 ID: O_8270MegaMix_00194 Exp: 05/31/25 Prpd: 8270 List 1/Std#1 Mega MI

7998903 ID: O_8270MegaMix_00195 Exp: 05/31/25 Prpd: 8270 List 1/Std#1 Mega MI

7998907 ID: O_8270MegaMix_00196 Exp: 05/31/25 Prpd: 8270 List 1/Std#1 Mega MI

17	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.0 µg/mL	+/- 9.2769
18	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,002.9 µg/mL	+/- 18.5331
19	Hexachloroethane	67-72-1	DAXRI	99%	1,001.9 µg/mL	+/- 18.6702
20	Nitrobenzene	98-95-3	10224044	99%	1,001.9 µg/mL	+/- 18.6714
21	Isophorone	78-59-1	MKCC9506	99%	1,001.8 µg/mL	+/- 18.6679
22	2-Nitrophenol	88-75-5	RP230710	99%	1,008.0 µg/mL	+/- 18.6278
23	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.1 µg/mL	+/- 18.5377
24	Bis(2-chloroethoxy)methane	111-91-1	15174900	99%	1,002.6 µg/mL	+/- 18.6842
25	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,004.3 µg/mL	+/- 18.5585
26	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,001.3 µg/mL	+/- 18.5031
27	Naphthalene	91-20-3	STBL1057	99%	1,001.8 µg/mL	+/- 18.6679
28	2,6-Dichlorophenol	87-65-0	MKCP7682	99%	1,006.4 µg/mL	+/- 18.5978
29	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,000.5 µg/mL	+/- 18.4892
30	Hexachlorobutadiene	87-68-3	X05J	99%	1,002.1 µg/mL	+/- 18.6748
31	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,002.3 µg/mL	+/- 18.5215
32	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,002.8 µg/mL	+/- 18.5308
33	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,002.3 µg/mL	+/- 18.5224
34	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,004.0 µg/mL	+/- 18.5539
35	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,000.6 µg/mL	+/- 18.6461
36	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,001.9 µg/mL	+/- 18.5146
37	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,002.6 µg/mL	+/- 18.5283
38	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.8 µg/mL	+/- 18.6690
39	Biphenyl	92-52-4	MKCL6515	99%	1,005.6 µg/mL	+/- 18.5839
40	2-Nitroaniline	88-74-4	RP240418RSR	99%	1,001.5 µg/mL	+/- 18.5077
41	Acenaphthylene	208-96-8	214935V16F	97%	999.6 µg/mL	+/- 18.6286
42	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,000.8 µg/mL	+/- 18.4938
43	Dimethylphthalate	131-11-3	358221L17K	99%	1,002.1 µg/mL	+/- 18.6737
44	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,002.4 µg/mL	+/- 18.6807
45	3-Nitroaniline	99-09-2	RP231103CTH-1	99%	1,002.6 µg/mL	+/- 18.5285
46	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0 µg/mL	+/- 18.6352
47	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	2,003.1 µg/mL	+/- 37.0092
48	Dibenzofuran	132-64-9	MKCN1772	99%	1,001.8 µg/mL	+/- 18.5123
49	4-Nitrophenol	100-02-7	RP230627	99%	2,009.1 µg/mL	+/- 37.1200
50	2,4-Dinitrotoluene	121-14-2	102869L10R	99%	1,002.3 µg/mL	+/- 18.6772
51	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,002.9 µg/mL	+/- 18.5331
52	Fluorene	86-73-7	10241100	99%	1,002.2 µg/mL	+/- 18.6760

7996912
ID: O_8270MegaMix_00197
Exp: 05/31/25 Prpd:
8270 List 1/Std#1 Mega MI

7996913
ID: O_8270MegaMix_00198
Exp: 05/31/25 Prpd:
8270 List 1/Std#1 Mega MI

7996914
ID: O_8270MegaMix_00199
Exp: 05/31/25 Prpd:
8270 List 1/Std#1 Mega MI

53	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	1,005.3	µg/mL	+/- 18.5770
54	Diethylphthalate	84-66-2	BCCJ6241	99%	1,001.8	µg/mL	+/- 18.6679
55	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,002.0	µg/mL	+/- 18.6725
56	4-Nitroaniline	100-01-6	RP240510RSR	99%	1,002.4	µg/mL	+/- 18.5238
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S240403RSR	99%	2,012.1	µg/mL	+/- 37.1755
58	Diphenylamine	122-39-4	MKCT1512	99%	853.3	µg/mL	+/- 15.7680
59	Azobenzene	103-33-3	BCCK0887	99%	1,004.5	µg/mL	+/- 18.5631
60	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,001.6	µg/mL	+/- 18.6655
61	Hexachlorobenzene	118-74-1	15178300	99%	1,002.3	µg/mL	+/- 18.6772
62	Pentachlorophenol	87-86-5	RP240517RSR	99%	2,009.1	µg/mL	+/- 37.1200
63	n-Octadecane (C18)	593-45-3	UE5NG	98%	1,004.7	µg/mL	+/- 18.5676
64	Phenanthrene	85-01-8	MKCS5188	99%	1,001.7	µg/mL	+/- 18.6667
65	Anthracene	120-12-7	MKCR0570	99%	1,002.5	µg/mL	+/- 18.6818
66	Carbazole	86-74-8	15276700	99%	1,000.1	µg/mL	+/- 18.4823
67	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,002.3	µg/mL	+/- 18.6772
68	Fluoranthene	206-44-0	MKCQ4728	99%	1,001.7	µg/mL	+/- 18.6667
69	Pyrene	129-00-0	BCCK2592	99%	1,001.6	µg/mL	+/- 18.6644
70	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,001.8	µg/mL	+/- 18.6679
71	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.8	µg/mL	+/- 18.6877
72	Chrysene	218-01-9	RP240326CTH	99%	1,002.3	µg/mL	+/- 18.6772
73	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,001.9	µg/mL	+/- 18.6702
74	Di-n-octyl phthalate	117-84-0	15276800	99%	1,001.8	µg/mL	+/- 18.6679
75	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,001.6	µg/mL	+/- 18.6655
76	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,001.7	µg/mL	+/- 18.6667
77	Benzo(a)pyrene	50-32-8	O45GL	98%	1,001.5	µg/mL	+/- 18.6632
78	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.5	µg/mL	+/- 18.6625
79	Dibenz(a,h)anthracene	53-70-3	I-SLH-51-I	99%	1,001.6	µg/mL	+/- 18.6655
80	Benzo(g,h,i)perylene	191-24-2	RP240530RSR	98%	1,002.2	µg/mL	+/- 18.6757

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:
N-nitrosodiphenylamine 1000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 855 ug/mL. N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine. N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed. This lot was approved even though the %D for 4,6-DN-2-MP was greater than 10%.

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

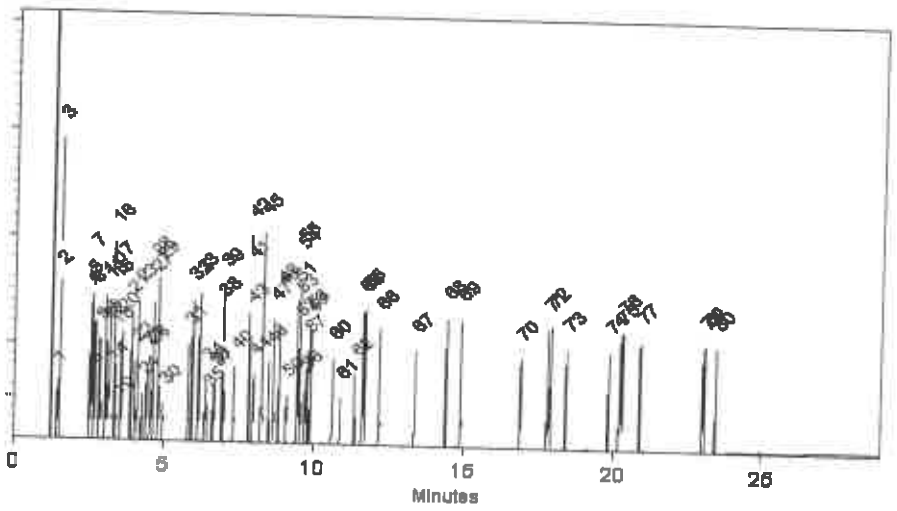
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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.

Rebecca Gingerich - Operations Tech II

Date Mixed: 08-Jul-2024 **Balance Serial #** B442140311

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 12-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

O_8270surr_st_00137

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 567685 **Lot No.:** A0209099

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : March 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2
1	2-Fluorophenol	367-12-4	STBK1705	99%	5,007.3 µg/mL	+/- 151.4093
2	Phenol-d5	4165-62-2	HJ-481	99%	5,031.1 µg/mL	+/- 152.1313
3	Nitrobenzene-d5	4165-60-0	PR-33424A	99%	5,009.4 µg/mL	+/- 151.4736
4	2-Fluorobiphenyl	321-60-8	00021384	99%	5,014.0 µg/mL	+/- 151.6134
5	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	5,023.3 µg/mL	+/- 151.8931
6	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,003.3 µg/mL	+/- 151.2884

* Expanded Uncertainty displayed in same units as Grav. Con

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

7915532
ID: O_8270surr_st_00133
Exp: 03/31/29 Prpd:
8270 Surrogate Standard @

7915533
ID: O_8270surr_st_00134
Exp: 03/31/29 Prpd:
8270 Surrogate Standard @

7915534
ID: O_8270surr_st_00135
Exp: 03/31/29 Prpd:
8270 Surrogate Standard @

7915535
ID: O_8270surr_st_00136
Exp: 03/31/29 Prpd:
8270 Surrogate Standard @

7915536
ID: O_8270surr_st_00137
Exp: 03/31/29 Prpd:
8270 Surrogate Standard @

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

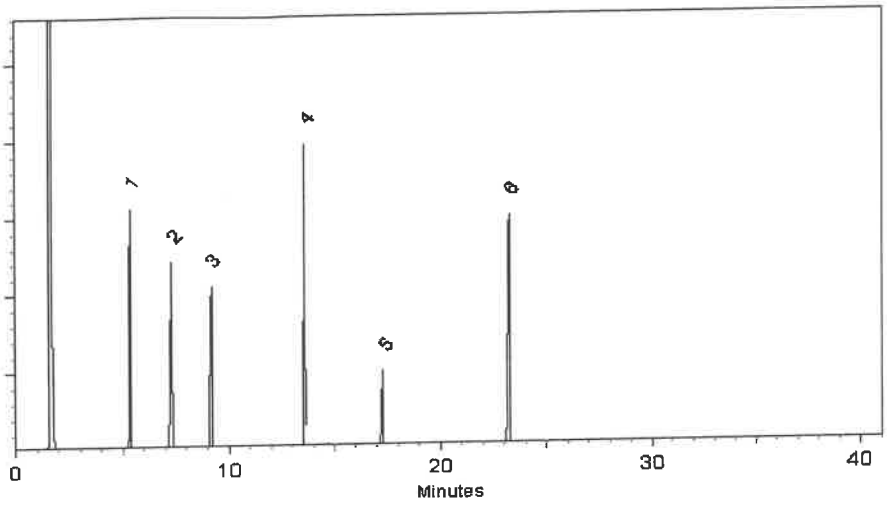
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
0.2µl



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.

Michael Maye - Operations Tech I

Date Mixed: 14-Mar-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Mar-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SS_Ketones_00100

SS.
Ketones 091-100

RESTEK® CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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. : 569721.SEC **Lot No.:** A0184721

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1.SEC (Lot T20G008) **Purity** 99%	12,520.4 µg/mL	+/- 73.3097 µg/mL +/- 755.4610 µg/mL +/- 757.2544 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3.SEC (Lot HDLUO) **Purity** 99%	12,520.8 µg/mL	+/- 73.3120 µg/mL +/- 755.4852 µg/mL +/- 757.2786 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1.SEC (Lot E29T040) **Purity** 99%	12,514.8 µg/mL	+/- 73.2769 µg/mL +/- 755.1231 µg/mL +/- 756.9157 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6.SEC (Lot Y3TUO) **Purity** 99%	12,514.0 µg/mL	+/- 73.2722 µg/mL +/- 755.0749 µg/mL +/- 756.8673 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

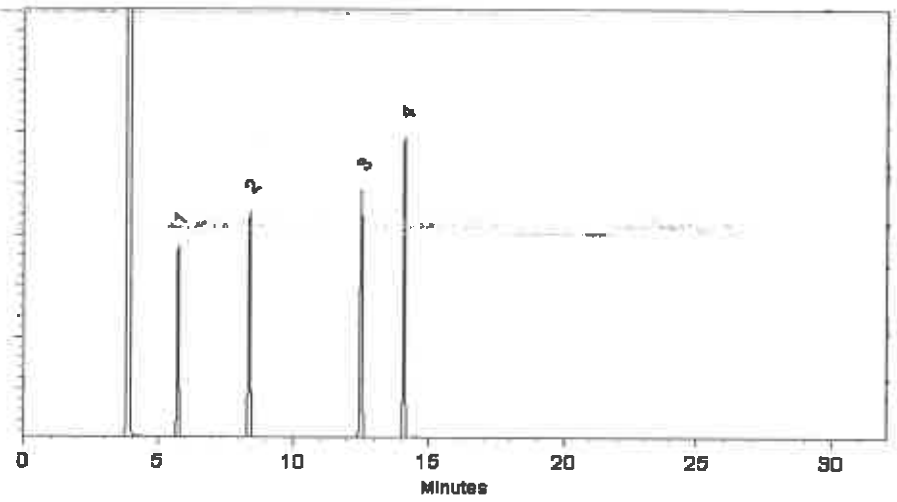
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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:
FID



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.

Jess Hoy - Operations Tech I

Date Mixed: 29-Apr-2022 Balance: B345965662

Christie Mills - Operations Technician II

Date Passed: 03-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:

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

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 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) -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.
- 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

SS_MegaMix_00133

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

124 – 133

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.SEC **Lot No.:** A0195252

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 : August 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Diethyl ether (ethyl ether)	60-29-7.SEC	F23X068	99%	2,516.7 µg/mL	+/- 86.9644
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC	18342	99%	2,520.0 µg/mL	+/- 87.0795
3	1,1-Dichloroethene	75-35-4.SEC	13896500	99%	2,525.0 µg/mL	+/- 87.2523
4	tert-Butanol (TBA)	75-65-0.SEC	DI34O	99%	25,129.5 µg/mL	+/- 868.3580
5	Methyl acetate	79-20-9.SEC	UCNEL	99%	5,029.0 µg/mL	+/- 173.7790
6	Iodomethane (methyl iodide)	74-88-4.SEC	Y25A027	99%	2,521.7 µg/mL	+/- 87.1371
7	Allyl chloride (3-chloropropene)	107-05-1.SEC	RD210329	99%	2,518.2 µg/mL	+/- 87.0162
8	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	2,516.7 µg/mL	+/- 86.9644
9	Carbon disulfide	75-15-0.SEC	MKBL1376V	99%	2,511.7 µg/mL	+/- 86.7916
10	Acrylonitrile	107-13-1.SEC	V54AD	99%	25,200.3 µg/mL	+/- 870.8057
11	Methyl-tert-butyl ether (MTBE)	1634-04-4.SEC	CDCQG	99%	2,517.3 µg/mL	+/- 86.9874
12	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	2,515.3 µg/mL	+/- 86.9183
13	n-Hexane (C6)	110-54-3.SEC	10188491	99%	2,514.7 µg/mL	+/- 86.8953
14	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	2,512.6 µg/mL	+/- 86.8223
15	2,2-Dichloropropane	594-20-7.SEC	GI01	99%	2,521.5 µg/mL	+/- 87.1314
16	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	2,525.0 µg/mL	+/- 87.2523

17	Isobutanol (2-Methyl-1-propanol)	78-83-1.SEC PH2XK	99%	62,830.8 µg/mL	+/- 2,171.1398
18	Chloroform	67-66-3.SEC 1297547	99%	2,511.7 µg/mL	+/- 86.7916
19	Bromochloromethane	74-97-5 * 230206JLM	99%	2,515.7 µg/mL	+/- 86.9298
20	Tetrahydrofuran	109-99-9.SEC 3NYHE	99%	5,018.5 µg/mL	+/- 173.4162
21	1,1,1-Trichloroethane	71-55-6.SEC 13891800	99%	2,506.5 µg/mL	+/- 86.6130
22	Cyclohexane	110-82-7.SEC YADRA	99%	2,523.3 µg/mL	+/- 87.1947
23	1,1-Dichloropropene	563-58-6.SEC 556500	99%	2,520.5 µg/mL	+/- 87.0968
24	Carbon tetrachloride	56-23-5.SEC 11466	99%	2,520.5 µg/mL	+/- 87.0968
25	n-Heptane (C7)	142-82-5.SEC TFHUC	99%	2,516.5 µg/mL	+/- 86.9586
26	1,2-Dichloroethane	107-06-2.SEC 00016165	99%	2,519.8 µg/mL	+/- 87.0738
27	Benzene	71-43-2.SEC 101960P29K	99%	2,518.8 µg/mL	+/- 87.0392
28	Trichloroethene	79-01-6.SEC H04X050	99%	2,524.3 µg/mL	+/- 87.2293
29	Methylcyclohexane	108-87-2.SEC Q02QG	99%	2,515.8 µg/mL	+/- 86.9356
30	1,2-Dichloropropane	78-87-5.SEC ERRBI-RH	99%	2,516.8 µg/mL	+/- 86.9701
31	1,4-Dioxane	123-91-1.SEC QHRWO	99%	50,137.2 µg/mL	+/- 1,732.5061
32	Dibromomethane	74-95-3.SEC MOKKJ	99%	2,516.3 µg/mL	+/- 86.9528
33	cis-1,3-Dichloropropene	10061-01-5.SEC ZLXJ-TJ	99%	2,502.8 µg/mL	+/- 86.4863
34	Toluene	108-88-3.SEC YND2B-BD	99%	2,522.2 µg/mL	+/- 87.1544
35	Ethyl methacrylate	97-63-2.SEC AQSPO	99%	2,510.8 µg/mL	+/- 86.7628
36	trans-1,3-Dichloropropene	10061-02-6.SEC DMSL	98%	2,517.1 µg/mL	+/- 86.9804
37	1,1,2-Trichloroethane	79-00-5.SEC 9245400	99%	2,512.2 µg/mL	+/- 86.8089
38	1,3-Dichloropropane	142-28-9.SEC IQCON	99%	2,519.3 µg/mL	+/- 87.0565
39	Tetrachloroethene	127-18-4.SEC F09W014	99%	2,521.3 µg/mL	+/- 87.1256
40	Dibromochloromethane	124-48-1.SEC 10234064	99%	2,517.5 µg/mL	+/- 86.9932
41	1,2-Dibromoethane (EDB)	106-93-4.SEC 050675P15E	99%	2,518.3 µg/mL	+/- 87.0220
42	Chlorobenzene	108-90-7.SEC 1161936	99%	2,515.8 µg/mL	+/- 86.9356
43	m-Xylene	108-38-3.SEC 7ZV6F	99%	1,255.3 µg/mL	+/- 43.3814
44	p-Xylene	106-42-3.SEC D6UOA	99%	1,260.3 µg/mL	+/- 43.5541
45	Ethylbenzene	100-41-4.SEC PI4SE	99%	2,517.7 µg/mL	+/- 86.9989
46	1,1,1,2-Tetrachloroethane	630-20-6.SEC 13789800	99%	2,517.5 µg/mL	+/- 86.9932
47	o-Xylene	95-47-6.SEC UJ6RI	99%	2,515.8 µg/mL	+/- 86.9356
48	Styrene	100-42-5.SEC QGQ7F	99%	2,521.3 µg/mL	+/- 87.1256
49	Isopropylbenzene (cumene)	98-82-8.SEC 7P24L	99%	2,515.0 µg/mL	+/- 86.9068
50	Bromoform	75-25-2.SEC 13723500	99%	2,522.5 µg/mL	+/- 87.1659
51	Bromodichloromethane	75-27-4.SEC 28128	99%	2,524.2 µg/mL	+/- 87.2235
52	1,1,2,2-Tetrachloroethane	79-34-5.SEC BCCD5088	99%	2,523.7 µg/mL	+/- 87.2063

53	1,2,3-Trichloropropane	96-18-4.SEC 6V2ED	99%	2,522.2	µg/mL	+/- 87.1544
54	trans-1,4-Dichloro-2-butene	110-57-6.SEC RD230316RSR	96%	2,517.0	µg/mL	+/- 86.9745
55	n-Propylbenzene	103-65-1.SEC XCGEC	99%	2,518.8	µg/mL	+/- 87.0392
56	Bromobenzene	108-86-1.SEC 2FUHG-EM	99%	2,518.3	µg/mL	+/- 87.0220
57	1,3,5-Trimethylbenzene	108-67-8.SEC GI2SM	99%	2,514.3	µg/mL	+/- 86.8837
58	2-Chlorotoluene	95-49-8.SEC BRHPM	99%	2,515.7	µg/mL	+/- 86.9298
59	4-Chlorotoluene	106-43-4.SEC S5SKD	99%	2,518.8	µg/mL	+/- 87.0392
60	tert-Butylbenzene	98-06-6.SEC D6OHC	99%	2,522.0	µg/mL	+/- 87.1487
61	1,2,4-Trimethylbenzene	95-63-6.SEC JHZDD	99%	2,517.3	µg/mL	+/- 86.9874
62	sec-Butylbenzene	135-98-8.SEC O4HRF	99%	2,522.0	µg/mL	+/- 87.1487
63	4-Isopropyltoluene (p-cymene)	99-87-6.SEC 13889300	98%	2,518.1	µg/mL	+/- 87.0142
64	1,3-Dichlorobenzene	541-73-1.SEC ZA2ZI	99%	2,515.0	µg/mL	+/- 86.9068
65	1,4-Dichlorobenzene	106-46-7.SEC J5GVD	99%	2,522.5	µg/mL	+/- 87.1659
66	n-Butylbenzene	104-51-8.SEC MMPGA	99%	2,523.7	µg/mL	+/- 87.2063
67	1,2-Dichlorobenzene	95-50-1.SEC R6QDM	99%	2,512.0	µg/mL	+/- 86.8031
68	1,2-Dibromo-3-chloropropane	96-12-8.SEC Q135-105	99%	2,517.7	µg/mL	+/- 86.9989
69	1,2,4-Trichlorobenzene	120-82-1.SEC IGLFA	99%	2,515.7	µg/mL	+/- 86.9298
70	Hexachlorobutadiene	87-68-3.SEC 13889400	97%	2,520.4	µg/mL	+/- 87.0928
71	Naphthalene	91-20-3.SEC AM5NG	99%	2,520.0	µg/mL	+/- 87.0795
72	1,2,3-Trichlorobenzene	87-61-6.SEC A0043055	99%	2,517.8	µg/mL	+/- 87.0047

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Quality Confirmation Test

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 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

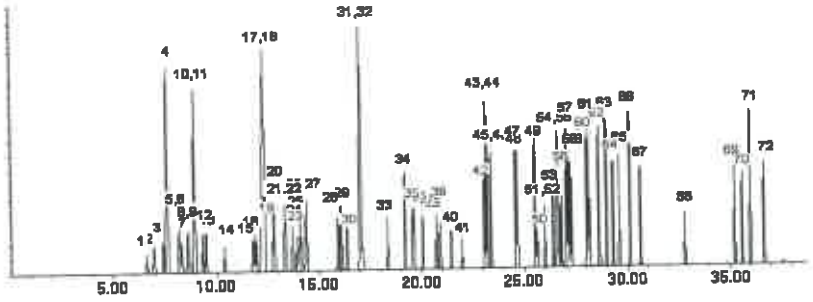
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
20.0 ml/min.

Inj. Vol
0.2µl



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.

John Friedline - Operations Technician I

Date Mixed: 28-Feb-2023 Balance Serial # 1127510105

Christie Mills - Operations Tech II - ARM QC

Date Passed: 22-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

WC_CN complex_00006

ABSOLUTE STANDARDS, INC.

7732819+
2820

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within +/- 0.5% of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: U_{CRM} is the expanded uncertainty which utilizes a K = 2 (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

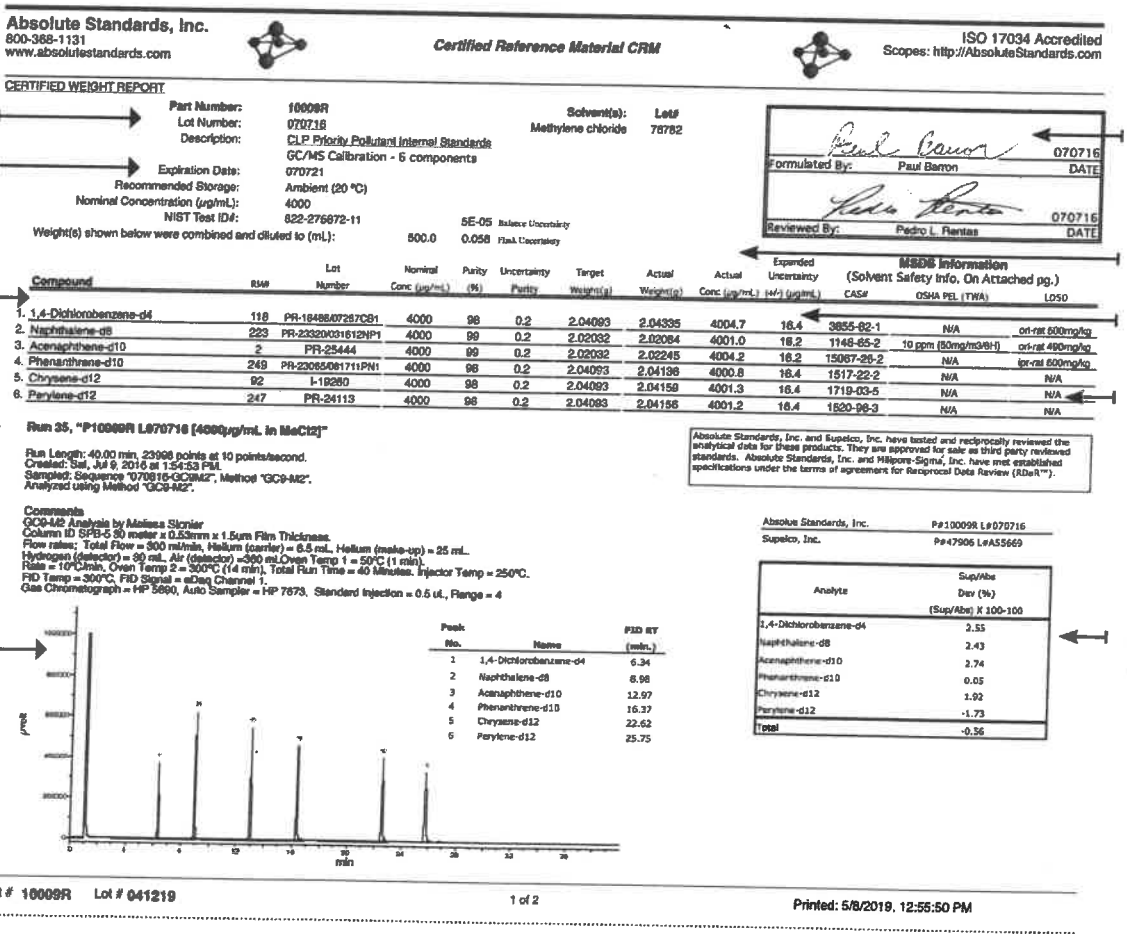
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
Expiration Date: 070721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-276872-11
Weight(s) shown below were combined and diluted to (mL): 500.0

Solvent(s): Methylene chloride Lot# 78782

5E-05 Balance Uncertainty
0.058 Final Uncertainty

Formulated By: Paul Barron 070716 DATE
Reviewed By: Pedro L. Rentas 070716 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-18488/07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	ori-rat 500mg/kg
2. Naphthalene-d8	223	PR-233200/31612NP1	4000	99	0.2	2.02032	2.02084	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	ori-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 600mg/kg
4. Phenanthrene-d10	249	PR-23065/061711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19280	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04083	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"

Run Length: 40.00 min, 23998 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070815-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments
GC9-M2 Analysis by Melissa Slonier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mLOven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673. Standard Injection = 0.5 uL, Range = 4

Peak No.	Name	FID RT (min.)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Absolute Standards, Inc. and Supelco, Inc. have tested and reciprocally reviewed the analytical data for these products. They are approved for sale as third party reviewed standards. Absolute Standards, Inc. and Millipore-Sigma, Inc. have met established specifications under the terms of agreement for Reciprocal Data Review (RDaR™).

Absolute Standards, Inc. P#10009R L#070716
Supelco, Inc. P#47906 L#A55669

Analyte	Sup/Abs Dev (%) (Sup/Abs) X 100-100
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	2.74
Phenanthrene-d10	0.05
Chrysene-d12	1.92
Perylene-d12	-1.73
Total	-0.56

Part # 10009R Lot # 041219 1 of 2 Printed: 5/8/2019, 12:55:50 PM

Part # / Lot # — Part Number / Lot Number
Shelf Life — Expiration Date
Formulator / Reviewer — Formulated By / Reviewed By
Target Compounds — Compound list
Actual Concentration — Actual Conc (µg/mL)
Uncertainty Values — Expanded Uncertainty (+/-) (µg/mL)
Health & Safety — MSDS Information / OSHA PEL (TWA) / LD50
Method of Analysis — Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Qualitative / Quantitative — Peak No. / Name / FID RT (min.)
3rd Party Comparison — Sup/Abs Dev (%)

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

11/04/2024

CERTIFIED WEIGHT REPORT:

Part Number: 54165
Lot Number: 070523
Description: Total Cyanide (CN^-)
Simple and Complex
Expiration Date: 070525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

	Lot #		
Solvent:	070523	ASTM Type 1 Water	
	5E-05	Balance Uncertainty	
Weights shown below were diluted to (mL):	1999.48	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	070523
Reviewed By:	Pedro L. Rentas	070523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium cyanide (CN)	IN105	10206876	500	99.0	0.10	40.0	2.52713	2.52715	**500.0**	**1.0**	151-50-8	5 mg/m3	orl-rat 5mg/kg	3141a
2. Potassium Ferricyanide (III) (CN)	IN166	TS08427AR	500	99.0	0.10	47.5	2.12822	2.12825	**500.0**	**1.0**	13746-66-2	NA	orl-mus 2970mg/kg	3141a
3. Sodium hydroxide (NaOH)	IN340	MKCL7860	NA	98.9	0.10	100.0	2.96755	2.96768	1467.9	3.0	1310-73-2	2 mg/m3	orl-mus 6600mg/kg	NA
Total Cyanide (CN^-)									**1000.0**	**2.0**				

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_CN1000ppmS_00038

Agilent
Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Complex Cyanide Standard
Product Number: ICC-009
Storage Conditions: Store at Room Temperature (15° to 30°C). Light Sensitive.

Lot Number: 0006766987
Lot Issue Date: 16-Oct-2023
Expiration Date: 30-Nov-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
potassium ferricyanide (as cyanide)	1001	±	5 µg/mL	013746-66-2	RM19446

Matrix: 0.1% sodium hydroxide in water

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system. The analyte concentration(s) were prepared and verified by an ISO 17034 / ISO 17025 accredited laboratory and compared to calibration standards independently prepared using NIST SRM(s) when available. The certified value and uncertainty value at the 95% confidence level for each analyte is determined gravimetrically.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-040.1

ISO 17025

Reagent

WC_NH3_STD_00035

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product:	1000 mg/L Ammonia as N
Catalog Number:	045-125mL, 985-500mL
Lot No.	820423m
Starting Material:	Ammonium Chloride (NH_4Cl)
Matrix:	18 megohm deionized water
Density:	0.9991 ± 0.0002 g/mL 21.0 °C and 759 mm Hg
Verification Method:	Ion Selective Electrode (ISE)
Certificate Issue Date:	May 3, 2023
Expiration Date:	April 27, 2025
Revision Number:	Original

CERTIFICATION

Parameter	Certified Value[1]	Uncertainty[2]	NIST Traceability	
	mg/L	%	SRM Number[3]	Recovery %
Ammonia as N (NH_3-N)	1000	0.824	194a	101

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ 800.372.0122 ▪ 303.431.8454 ▪ fax 303.421.0159 ▪ www.eraqc.com

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

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 #
MW-BCP-09A-10252024	480-224869-1	98	96	100	110
MW-BCP-10A-10242024	480-224869-3	93	95	92	113
MW-BCP-10A-10242024 DL	480-224869-3 DL	98	95	99	105
MW-BCP-11A-10242024	480-224869-5	94	93	101	108
MW-BCP-12A-10242024	480-224869-7	94	94	99	108
MW-BCP-13A-10252024	480-224869-9	91	92	100	110
MW-BCP-13B-10252024	480-224869-10	96	98	96	111
MW-BCP-24A-10252024	480-224869-11	98	102	101	109
MW-BCP-25A-10252024	480-224869-12	97	101	102	107
MW-BCP-19B-10252024	480-224869-13	96	100	98	109
MW-BCP-21A-10252024	480-224869-18	92	95	99	104
MW-BCP-19A-10252024	480-224869-19	89	92	100	111
	MB 480-730495/8	90	96	102	109
	MB 480-730696/8	97	101	100	112
	LCS 480-730495/6	93	95	98	106
	LCS 480-730696/6	93	93	101	112
MW-BCP-13A-10252024 MS	480-224869-9 MS	92	100	101	110
MW-BCP-13A-10252024 MSD	480-224869-9 MSD	95	97	100	107

	QC LIMITS
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 II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1239.d

Lab ID: LCS 480-730495/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.3	101	73-126	
1,1,2,2-Tetrachloroethane	25.0	21.6	87	76-120	
1,1,2-Trichloroethane	25.0	25.5	102	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.2	89	61-148	
1,1-Dichloroethane	25.0	23.4	93	77-120	
1,1-Dichloroethene	25.0	23.0	92	66-127	
1,2,4-Trichlorobenzene	25.0	22.5	90	79-122	
1,2-Dibromo-3-Chloropropane	25.0	23.5	94	56-134	
1,2-Dibromoethane	25.0	24.1	97	77-120	
1,2-Dichlorobenzene	25.0	21.9	87	80-124	
1,2-Dichloroethane	25.0	25.0	100	75-120	
1,2-Dichloropropane	25.0	23.2	93	76-120	
1,3-Dichlorobenzene	25.0	21.8	87	77-120	
1,4-Dichlorobenzene	25.0	21.3	85	80-120	
2-Hexanone	125	116	93	65-127	
2-Butanone (MEK)	125	115	92	57-140	
4-Methyl-2-pentanone (MIBK)	125	116	93	71-125	
Acetone	125	115	92	56-142	
Benzene	25.0	22.9	92	71-124	
Bromodichloromethane	25.0	26.2	105	80-122	
Bromoform	25.0	24.9	100	61-132	
Bromomethane	25.0	19.3	77	55-144	
Carbon disulfide	25.0	21.2	85	59-134	
Carbon tetrachloride	25.0	23.7	95	72-134	
Chlorobenzene	25.0	24.6	99	80-120	
Dibromochloromethane	25.0	24.7	99	75-125	
Chloroethane	25.0	18.5	74	69-136	
Chloroform	25.0	23.0	92	73-127	
Chloromethane	25.0	21.8	87	68-124	
cis-1,2-Dichloroethene	25.0	23.2	93	74-124	
cis-1,3-Dichloropropene	25.0	23.4	94	74-124	
Cyclohexane	25.0	23.1	93	59-135	
Dichlorodifluoromethane	25.0	22.7	91	59-135	
Ethylbenzene	25.0	25.2	101	77-123	
Isopropylbenzene	25.0	22.0	88	77-122	
Methyl acetate	50.0	42.1	84	74-133	
Methyl tert-butyl ether	25.0	23.0	92	77-120	
Methylcyclohexane	25.0	24.4	98	68-134	
Methylene Chloride	25.0	23.0	92	75-124	
Styrene	25.0	22.6	90	80-120	
Tetrachloroethene	25.0	23.0	92	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1239.d

Lab ID: LCS 480-730495/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	25.1	100	80-122	
trans-1,2-Dichloroethene	25.0	23.9	96	73-127	
trans-1,3-Dichloropropene	25.0	24.1	96	80-120	
Trichloroethene	25.0	23.7	95	74-123	
Trichlorofluoromethane	25.0	22.9	92	62-150	
Vinyl chloride	25.0	20.1	80	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1293.d

Lab ID: LCS 480-730696/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	24.1	97	73-126	
1,1,2,2-Tetrachloroethane	25.0	21.9	88	76-120	
1,1,2-Trichloroethane	25.0	24.2	97	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.5	82	61-148	
1,1-Dichloroethane	25.0	21.6	86	77-120	
1,1-Dichloroethene	25.0	20.7	83	66-127	
1,2,4-Trichlorobenzene	25.0	21.6	86	79-122	
1,2-Dibromo-3-Chloropropane	25.0	24.4	98	56-134	
1,2-Dibromoethane	25.0	23.0	92	77-120	
1,2-Dichlorobenzene	25.0	21.8	87	80-124	
1,2-Dichloroethane	25.0	24.2	97	75-120	
1,2-Dichloropropane	25.0	22.8	91	76-120	
1,3-Dichlorobenzene	25.0	22.6	90	77-120	
1,4-Dichlorobenzene	25.0	21.4	86	80-120	
2-Hexanone	125	126	101	65-127	
2-Butanone (MEK)	125	122	98	57-140	
4-Methyl-2-pentanone (MIBK)	125	121	97	71-125	
Acetone	125	119	95	56-142	
Benzene	25.0	21.5	86	71-124	
Bromodichloromethane	25.0	25.2	101	80-122	
Bromoform	25.0	24.8	99	61-132	
Bromomethane	25.0	17.7	71	55-144	
Carbon disulfide	25.0	19.3	77	59-134	
Carbon tetrachloride	25.0	22.8	91	72-134	
Chlorobenzene	25.0	24.4	98	80-120	
Dibromochloromethane	25.0	23.3	93	75-125	
Chloroethane	25.0	17.7	71	69-136	
Chloroform	25.0	21.5	86	73-127	
Chloromethane	25.0	19.8	79	68-124	
cis-1,2-Dichloroethene	25.0	22.4	90	74-124	
cis-1,3-Dichloropropene	25.0	22.7	91	74-124	
Cyclohexane	25.0	21.4	86	59-135	
Dichlorodifluoromethane	25.0	21.9	87	59-135	
Ethylbenzene	25.0	24.3	97	77-123	
Isopropylbenzene	25.0	21.8	87	77-122	
Methyl acetate	50.0	42.8	86	74-133	
Methyl tert-butyl ether	25.0	22.6	90	77-120	
Methylcyclohexane	25.0	22.8	91	68-134	
Methylene Chloride	25.0	22.9	92	75-124	
Styrene	25.0	22.7	91	80-120	
Tetrachloroethene	25.0	22.6	90	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1293.d

Lab ID: LCS 480-730696/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.9	100	80-122	
trans-1,2-Dichloroethene	25.0	20.6	82	73-127	
trans-1,3-Dichloropropene	25.0	25.3	101	80-120	
Trichloroethene	25.0	22.6	90	74-123	
Trichlorofluoromethane	25.0	22.9	92	62-150	
Vinyl chloride	25.0	19.6	78	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1258.d

Lab ID: 480-224869-9 MS Client ID: MW-BCP-13A-10252024 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2500	ND	2550	102	73-126	
1,1,2,2-Tetrachloroethane	2500	ND	2080	83	76-120	
1,1,2-Trichloroethane	2500	ND	2500	100	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	ND	2230	89	61-148	
1,1-Dichloroethane	2500	ND	2430	97	77-120	
1,1-Dichloroethene	2500	ND	2300	92	66-127	
1,2,4-Trichlorobenzene	2500	ND	2220	89	79-122	
1,2-Dibromo-3-Chloropropane	2500	ND	2310	92	56-134	
1,2-Dibromoethane	2500	ND	2250	90	77-120	
1,2-Dichlorobenzene	2500	ND	2210	88	80-124	
1,2-Dichloroethane	2500	ND	2500	100	75-120	
1,2-Dichloropropane	2500	ND	2410	96	76-120	
1,3-Dichlorobenzene	2500	ND	2200	88	77-120	
1,4-Dichlorobenzene	2500	ND	2120	85	78-124	
2-Hexanone	12500	ND	11600	93	65-127	
2-Butanone (MEK)	12500	ND	11400	91	57-140	
4-Methyl-2-pentanone (MIBK)	12500	ND	11900	95	71-125	
Acetone	12500	ND	10700	85	56-142	
Benzene	2500	2600	5000	96	71-124	
Bromodichloromethane	2500	ND	2540	102	80-122	
Bromoform	2500	ND	2390	96	61-132	
Bromomethane	2500	ND	2130	85	55-144	
Carbon disulfide	2500	ND	2190	88	59-134	
Carbon tetrachloride	2500	ND	2530	101	72-134	
Chlorobenzene	2500	ND	2580	103	80-120	
Dibromochloromethane	2500	ND	2430	97	75-125	
Chloroethane	2500	ND	2020	81	69-136	
Chloroform	2500	ND	2330	93	73-127	
Chloromethane	2500	ND	2280	91	68-124	
cis-1,2-Dichloroethene	2500	ND	2330	93	74-124	
cis-1,3-Dichloropropene	2500	ND	2260	90	74-124	
Cyclohexane	2500	ND	2380	95	59-135	
Dichlorodifluoromethane	2500	ND	2510	101	59-135	
Ethylbenzene	2500	ND	2570	103	77-123	
Isopropylbenzene	2500	ND	2190	87	77-122	
Methyl acetate	5000	ND	4300	86	74-133	
Methyl tert-butyl ether	2500	ND	2330	93	77-120	
Methylcyclohexane	2500	ND	2400	96	68-134	
Methylene Chloride	2500	87 J	2500	96	75-124	
Styrene	2500	ND	2430	97	80-120	
Tetrachloroethene	2500	ND	2450	98	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1258.d

Lab ID: 480-224869-9 MS Client ID: MW-BCP-13A-10252024 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	2500	940	3520	103	80-122	
trans-1,2-Dichloroethene	2500	ND	2410	96	73-127	
trans-1,3-Dichloropropene	2500	ND	2550	102	80-120	
Trichloroethene	2500	ND	2470	99	74-123	
Trichlorofluoromethane	2500	ND	2420	97	62-150	
Vinyl chloride	2500	ND	2030	81	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1259.d

Lab ID: 480-224869-9 MSD Client ID: MW-BCP-13A-10252024 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	2500	2530	101	0	15	73-126	
1,1,2,2-Tetrachloroethane	2500	2190	88	5	15	76-120	
1,1,2-Trichloroethane	2500	2350	94	6	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2300	92	3	20	61-148	
1,1-Dichloroethane	2500	2430	97	0	20	77-120	
1,1-Dichloroethene	2500	2360	94	3	16	66-127	
1,2,4-Trichlorobenzene	2500	2250	90	1	20	79-122	
1,2-Dibromo-3-Chloropropane	2500	2490	100	8	15	56-134	
1,2-Dibromoethane	2500	2230	89	1	15	77-120	
1,2-Dichlorobenzene	2500	2210	88	0	20	80-124	
1,2-Dichloroethane	2500	2560	102	2	20	75-120	
1,2-Dichloropropane	2500	2360	94	2	20	76-120	
1,3-Dichlorobenzene	2500	2250	90	2	20	77-120	
1,4-Dichlorobenzene	2500	2190	88	3	20	78-124	
2-Hexanone	12500	11200	90	3	15	65-127	
2-Butanone (MEK)	12500	11000	88	3	20	57-140	
4-Methyl-2-pentanone (MIBK)	12500	11300	90	5	35	71-125	
Acetone	12500	11100	89	4	15	56-142	
Benzene	2500	4910	93	2	13	71-124	
Bromodichloromethane	2500	2570	103	1	15	80-122	
Bromoform	2500	2470	99	3	15	61-132	
Bromomethane	2500	2080	83	2	15	55-144	
Carbon disulfide	2500	2170	87	1	15	59-134	
Carbon tetrachloride	2500	2490	100	2	15	72-134	
Chlorobenzene	2500	2510	100	3	25	80-120	
Dibromochloromethane	2500	2420	97	1	15	75-125	
Chloroethane	2500	2080	83	3	15	69-136	
Chloroform	2500	2270	91	3	20	73-127	
Chloromethane	2500	2270	91	0	15	68-124	
cis-1,2-Dichloroethene	2500	2370	95	2	15	74-124	
cis-1,3-Dichloropropene	2500	2260	91	0	15	74-124	
Cyclohexane	2500	2420	97	1	20	59-135	
Dichlorodifluoromethane	2500	2560	102	2	20	59-135	
Ethylbenzene	2500	2570	103	0	15	77-123	
Isopropylbenzene	2500	2240	90	3	20	77-122	
Methyl acetate	5000	4180	84	3	20	74-133	
Methyl tert-butyl ether	2500	2360	95	2	37	77-120	
Methylcyclohexane	2500	2430	97	1	20	68-134	
Methylene Chloride	2500	2690	104	7	15	75-124	
Styrene	2500	2380	95	2	20	80-120	
Tetrachloroethene	2500	2270	91	8	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1259.d

Lab ID: 480-224869-9 MSD Client ID: MW-BCP-13A-10252024 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	2500	3330	96	5	15	80-122	
trans-1,2-Dichloroethene	2500	2350	94	3	20	73-127	
trans-1,3-Dichloropropene	2500	2450	98	4	15	80-120	
Trichloroethene	2500	2470	99	0	16	74-123	
Trichlorofluoromethane	2500	2420	97	0	20	62-150	
Vinyl chloride	2500	2030	81	0	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: N1241.d Lab Sample ID: MB 480-730495/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP5973N Date Analyzed: 10/31/2024 03:02

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-730495/6	N1239.d	10/31/2024 02:17
MW-BCP-09A-10252024	480-224869-1	N1247.d	10/31/2024 05:16
MW-BCP-10A-10242024	480-224869-3	N1248.d	10/31/2024 05:39
MW-BCP-11A-10242024	480-224869-5	N1249.d	10/31/2024 06:01
MW-BCP-12A-10242024	480-224869-7	N1250.d	10/31/2024 06:23
MW-BCP-13A-10252024	480-224869-9	N1251.d	10/31/2024 06:46
MW-BCP-13B-10252024	480-224869-10	N1252.d	10/31/2024 07:08
MW-BCP-24A-10252024	480-224869-11	N1253.d	10/31/2024 07:31
MW-BCP-25A-10252024	480-224869-12	N1254.d	10/31/2024 07:54
MW-BCP-19B-10252024	480-224869-13	N1255.d	10/31/2024 08:16
MW-BCP-21A-10252024	480-224869-18	N1256.d	10/31/2024 08:39
MW-BCP-19A-10252024	480-224869-19	N1257.d	10/31/2024 09:01
MW-BCP-13A-10252024 MS	480-224869-9 MS	N1258.d	10/31/2024 09:24
MW-BCP-13A-10252024 MSD	480-224869-9 MSD	N1259.d	10/31/2024 09:46

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: N1295.d Lab Sample ID: MB 480-730696/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP5973N Date Analyzed: 11/01/2024 00:06

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-730696/6	N1293.d	10/31/2024 23:22
MW-BCP-10A-10242024 DL	480-224869-3 DL	N1296.d	11/01/2024 00:29

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: N0901.d BFB Injection Date: 10/24/2024

Instrument ID: HP5973N BFB Injection Time: 14:11

Analysis Batch No.: 729617

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	33.6
75	30.0 - 60.0 % of mass 95	43.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	5.8
173	Less than 2.0 % of mass 174	1.3 (1.8) 1
174	Greater than 50% of mass 95	70.0
175	5.0 - 9.0 % of mass 174	4.8 (6.8) 1
176	95.0 - 101.0 % of mass 174	70.4 (100.6) 1
177	5.0 - 9.0 % of mass 176	4.3 (6.1) 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
	IC 480-729617/13	N0904.d	10/24/2024	15:19
	IC 480-729617/14	N0905.d	10/24/2024	15:41
	IC 480-729617/15	N0906.d	10/24/2024	16:04
	IC 480-729617/16	N0907.d	10/24/2024	16:27
	IC 480-729617/17	N0908.d	10/24/2024	16:49
	ICIS 480-729617/18	N0909.d	10/24/2024	17:11
	IC 480-729617/19	N0910.d	10/24/2024	17:34
	IC 480-729617/20	N0911.d	10/24/2024	17:56
	ICV 480-729617/34	N0925.d	10/24/2024	23:10
	ICV 480-729617/35	N0926.d	10/24/2024	23:33

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: N1236.d BFB Injection Date: 10/31/2024

Instrument ID: HP5973N BFB Injection Time: 01:09

Analysis Batch No.: 730495

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	32.6	
75	30.0 - 60.0 % of mass 95	54.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	Greater than 50% of mass 95	76.6	
175	5.0 - 9.0 % of mass 174	6.4	(8.4) 1
176	95.0 - 101.0 % of mass 174	74.7	(97.5) 1
177	5.0 - 9.0 % of mass 176	4.8	(6.4) 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 480-730495/4	N1237.d	10/31/2024	1:32
	LCS 480-730495/6	N1239.d	10/31/2024	2:17
	MB 480-730495/8	N1241.d	10/31/2024	3:02
MW-BCP-09A-10252024	480-224869-1	N1247.d	10/31/2024	5:16
MW-BCP-10A-10242024	480-224869-3	N1248.d	10/31/2024	5:39
MW-BCP-11A-10242024	480-224869-5	N1249.d	10/31/2024	6:01
MW-BCP-12A-10242024	480-224869-7	N1250.d	10/31/2024	6:23
MW-BCP-13A-10252024	480-224869-9	N1251.d	10/31/2024	6:46
MW-BCP-13B-10252024	480-224869-10	N1252.d	10/31/2024	7:08
MW-BCP-24A-10252024	480-224869-11	N1253.d	10/31/2024	7:31
MW-BCP-25A-10252024	480-224869-12	N1254.d	10/31/2024	7:54
MW-BCP-19B-10252024	480-224869-13	N1255.d	10/31/2024	8:16
MW-BCP-21A-10252024	480-224869-18	N1256.d	10/31/2024	8:39
MW-BCP-19A-10252024	480-224869-19	N1257.d	10/31/2024	9:01
MW-BCP-13A-10252024 MS	480-224869-9 MS	N1258.d	10/31/2024	9:24
MW-BCP-13A-10252024 MSD	480-224869-9 MSD	N1259.d	10/31/2024	9:46

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: N1290.d BFB Injection Date: 10/31/2024

Instrument ID: HP5973N BFB Injection Time: 22:14

Analysis Batch No.: 730696

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	32.9	
75	30.0 - 60.0 % of mass 95	51.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	Greater than 50% of mass 95	73.6	
175	5.0 - 9.0 % of mass 174	6.4	(8.6) 1
176	95.0 - 101.0 % of mass 174	72.9	(99.1) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.7) 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 480-730696/4	N1291.d	10/31/2024	22:36
	LCS 480-730696/6	N1293.d	10/31/2024	23:22
	MB 480-730696/8	N1295.d	11/01/2024	0:06
MW-BCP-10A-10242024 DL	480-224869-3 DL	N1296.d	11/01/2024	0:29

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: ICIS 480-729617/18 Date Analyzed: 10/24/2024 17:11

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N0909.d Heated Purge: (Y/N) N

Calibration ID: 47464

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		186096	4.82	644937	7.77	333633	10.22
UPPER LIMIT		372192	4.99	1289874	7.94	667266	10.38
LOWER LIMIT		93048	4.65	322469	7.60	166817	10.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-730495/4		140709	4.82	498038	7.77	259011	10.22
CCVIS 480-730696/4		148709	4.82	499220	7.77	270277	10.22

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.167 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.: 480-224869-1

SDG No.:

Sample No.: CCVIS 480-730495/4 Date Analyzed: 10/31/2024 01:32

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N1237.d Heated Purge: (Y/N) N

Calibration ID: 47466

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		140709	4.82	498038	7.77	259011	10.22
UPPER LIMIT		281418	4.99	996076	7.94	518022	10.38
LOWER LIMIT		70355	4.65	249019	7.60	129506	10.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-730495/6		148109	4.82	500296	7.77	266361	10.22
MB 480-730495/8		146365	4.82	476444	7.77	255580	10.22
480-224869-1	MW-BCP-09A-10252024	137321	4.82	468660	7.77	254749	10.22
480-224869-3	MW-BCP-10A-10242024	143391	4.83	496724	7.77	272313	10.22
480-224869-5	MW-BCP-11A-10242024	142994	4.83	472257	7.77	263300	10.22
480-224869-7	MW-BCP-12A-10242024	141237	4.82	460971	7.77	258864	10.22
480-224869-9	MW-BCP-13A-10252024	150612	4.82	492683	7.77	272336	10.22
480-224869-10	MW-BCP-13B-10252024	143390	4.83	499344	7.77	269166	10.22
480-224869-11	MW-BCP-24A-10252024	140060	4.82	471186	7.77	264604	10.22
480-224869-12	MW-BCP-25A-10252024	139577	4.83	461209	7.77	266619	10.22
480-224869-13	MW-BCP-19B-10252024	143533	4.83	481949	7.77	254741	10.22
480-224869-18	MW-BCP-21A-10252024	141790	4.83	469049	7.77	255954	10.22
480-224869-19	MW-BCP-19A-10252024	146074	4.83	479555	7.77	276710	10.22
480-224869-9 MS	MW-BCP-13A-10252024 MS	144881	4.83	494753	7.77	272021	10.22
480-224869-9 MSD	MW-BCP-13A-10252024 MSD	144405	4.82	501558	7.77	263137	10.22

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.167 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.: 480-224869-1

SDG No.:

Sample No.: CCVIS 480-730696/4 Date Analyzed: 10/31/2024 22:36

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N1291.d Heated Purge: (Y/N) N

Calibration ID: 47466

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		148709	4.82	499220	7.77	270277	10.22
UPPER LIMIT		297418	4.99	998440	7.94	540554	10.39
LOWER LIMIT		74355	4.65	249610	7.60	135139	10.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-730696/6		147082	4.83	503636	7.77	263557	10.22
MB 480-730696/8		132118	4.82	443683	7.77	257542	10.22
480-224869-3 DL	MW-BCP-10A-10242024 DL	138991	4.82	473090	7.77	276538	10.22

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.167 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-09A-10252024 | Lab Sample ID: 480-224869-1

Matrix: Water | Lab File ID: N1247.d

Analysis Method: 8260C | Date Collected: 10/25/2024 16:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 05:16

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	7.2	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-09A-10252024 | Lab Sample ID: 480-224869-1

Matrix: Water | Lab File ID: N1247.d

Analysis Method: 8260C | Date Collected: 10/25/2024 16:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 05:16

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.46	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d
Lims ID: 480-224869-G-1
Client ID: MW-BCP-09A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 05:16:30 ALS Bottle#: 47 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-1
Misc. Info.: 480-0120932-014
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 12:04:05 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 12:04:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	137321	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	468660	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	254749	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	89	153443	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	222639	24.0	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	97	536188	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	186393	27.6	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.283	2.283	-0.006	97	35948	7.22	
25 Carbon disulfide	76		2.350				ND	
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.654	2.654	0.000	87	3482	0.4640	Ma
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	U
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78		4.552				ND	
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	
73 Toluene	92		6.371				ND	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	U
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91		7.898				ND	
90 m-Xylene & p-Xylene	106		8.020				ND	
91 o-Xylene	106		8.440				ND	
92 Styrene	104		8.476				ND	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

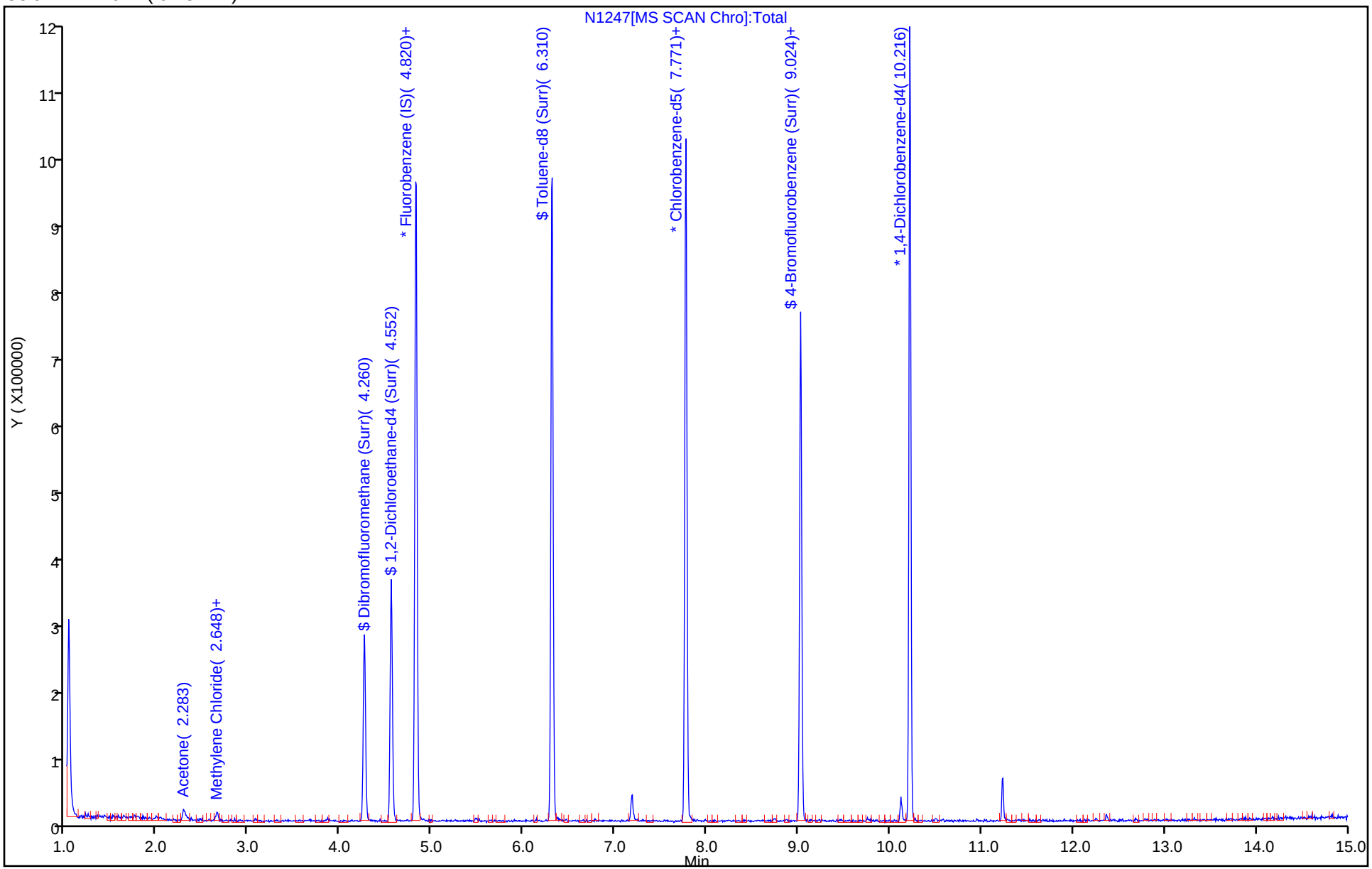
Report Date: 31-Oct-2024 12:04:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d

Injection Date:	31-Oct-2024 05:16:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-1	Lab Sample ID:	480-224869-1	Worklist Smp#:	14
Client ID:	MW-BCP-09A-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d
Lims ID: 480-224869-G-1
Client ID: MW-BCP-09A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 05:16:30 ALS Bottle#: 47 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-1
Misc. Info.: 480-0120932-014
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 12:04:05 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

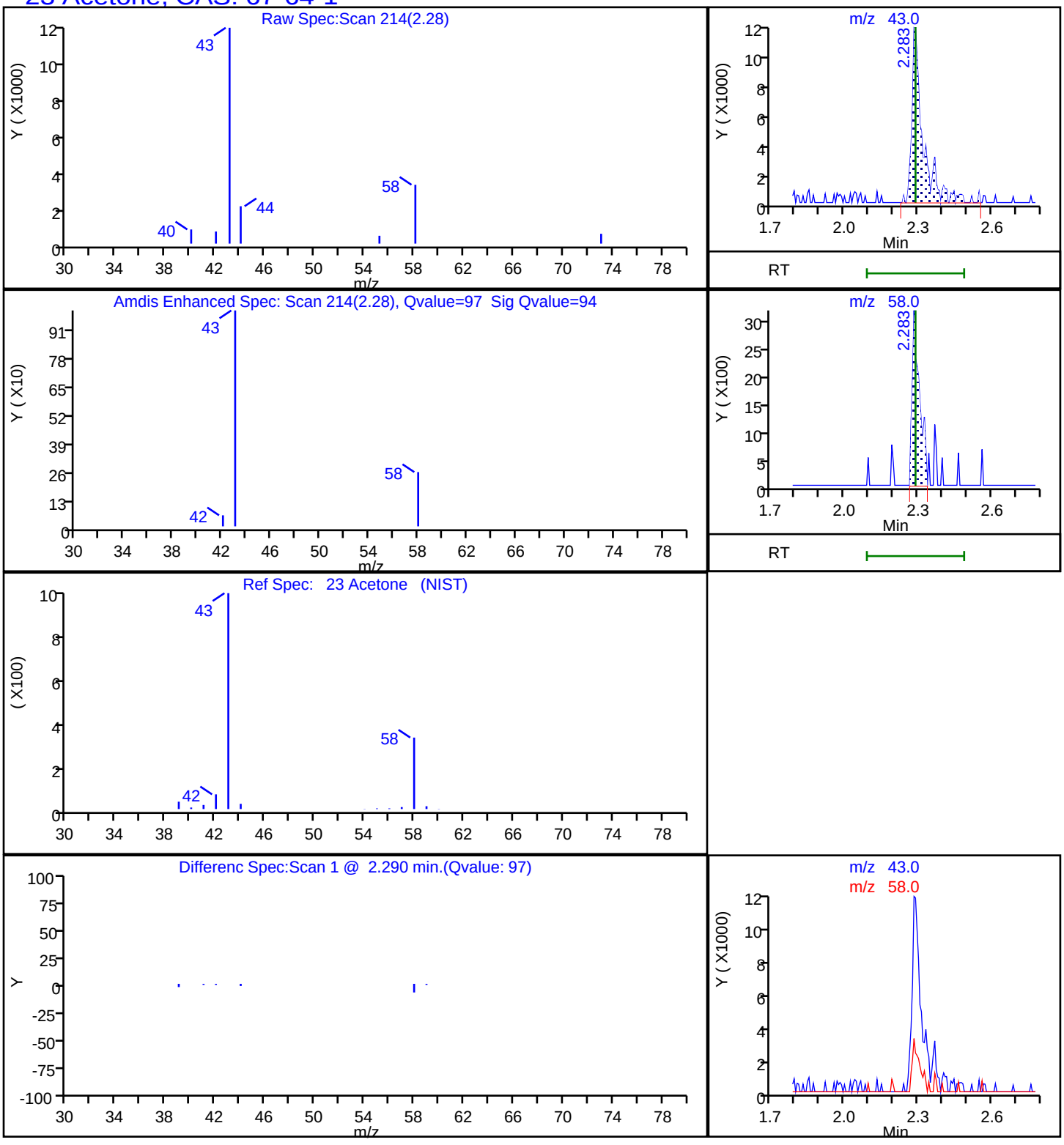
First Level Reviewer: HF3K Date: 31-Oct-2024 12:04:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.6	98.37
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.0	95.94
$ 6 Toluene-d8 (Surr)	25.0	25.0	99.98
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.6	110.21

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d
Injection Date: 31-Oct-2024 05:16:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-1 Lab Sample ID: 480-224869-1
Client ID: MW-BCP-09A-10252024
Operator ID: AD ALS Bottle#: 47 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

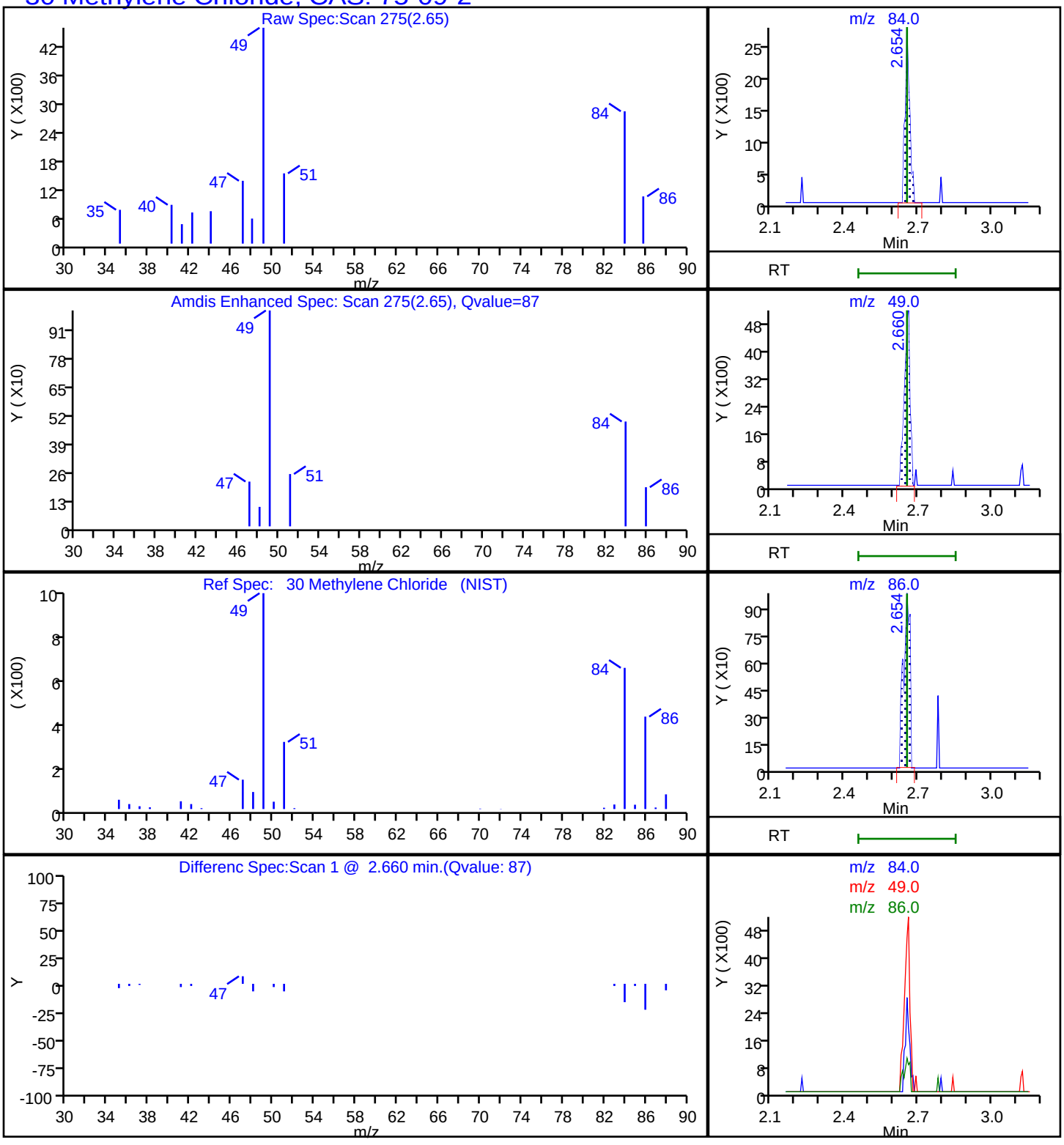
23 Acetone, CAS: 67-64-1



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d
Injection Date: 31-Oct-2024 05:16:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-1 Lab Sample ID: 480-224869-1
Client ID: MW-BCP-09A-10252024
Operator ID: AD ALS Bottle#: 47 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2



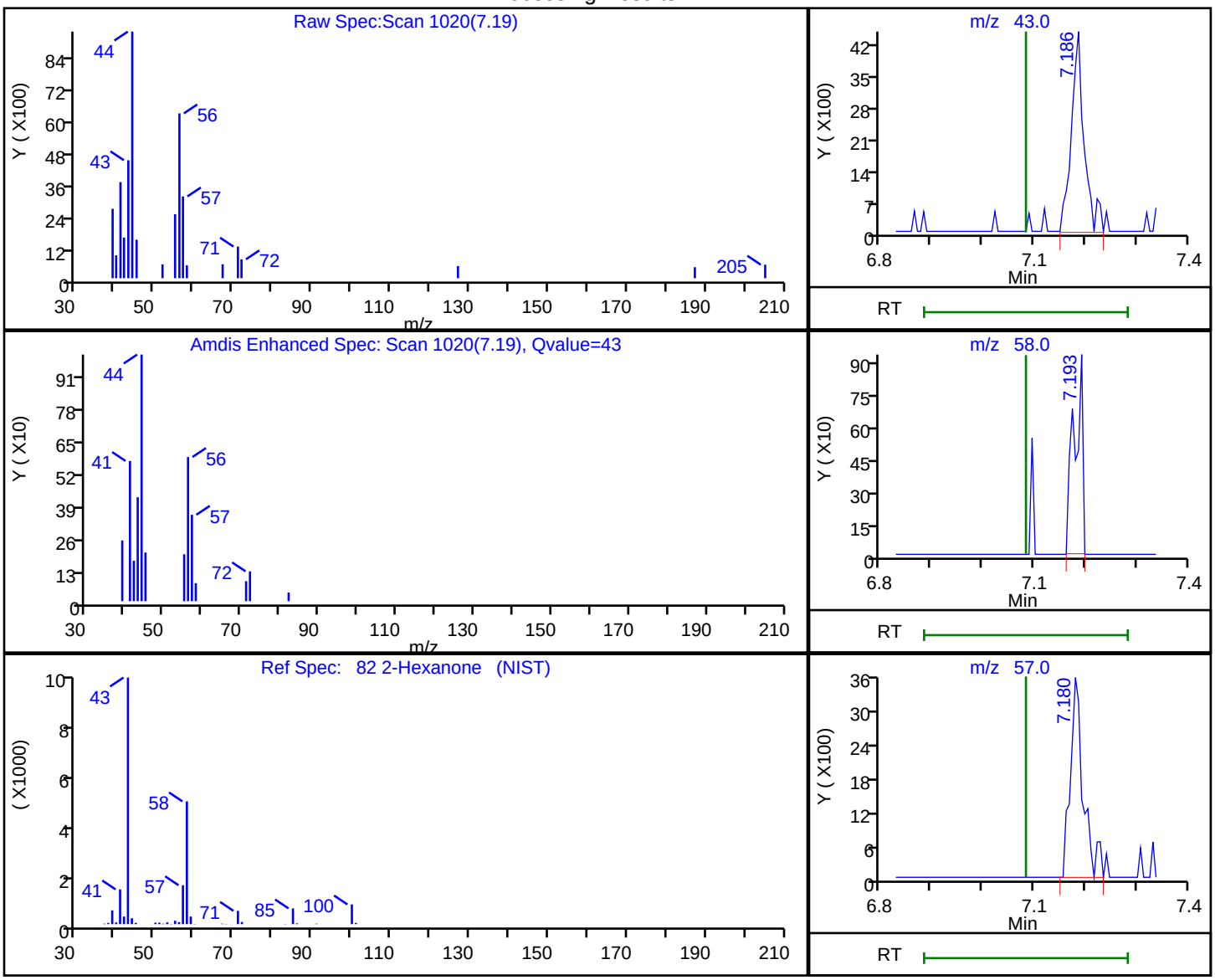
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d				
Injection Date:	31-Oct-2024 05:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-1	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	AD	ALS Bottle#:	47	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

82 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.19	43.00	7745	0.670754
7.19	58.00	1097	
7.18	57.00	6181	

Reviewer: HF3K, 31-Oct-2024 12:03:53 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

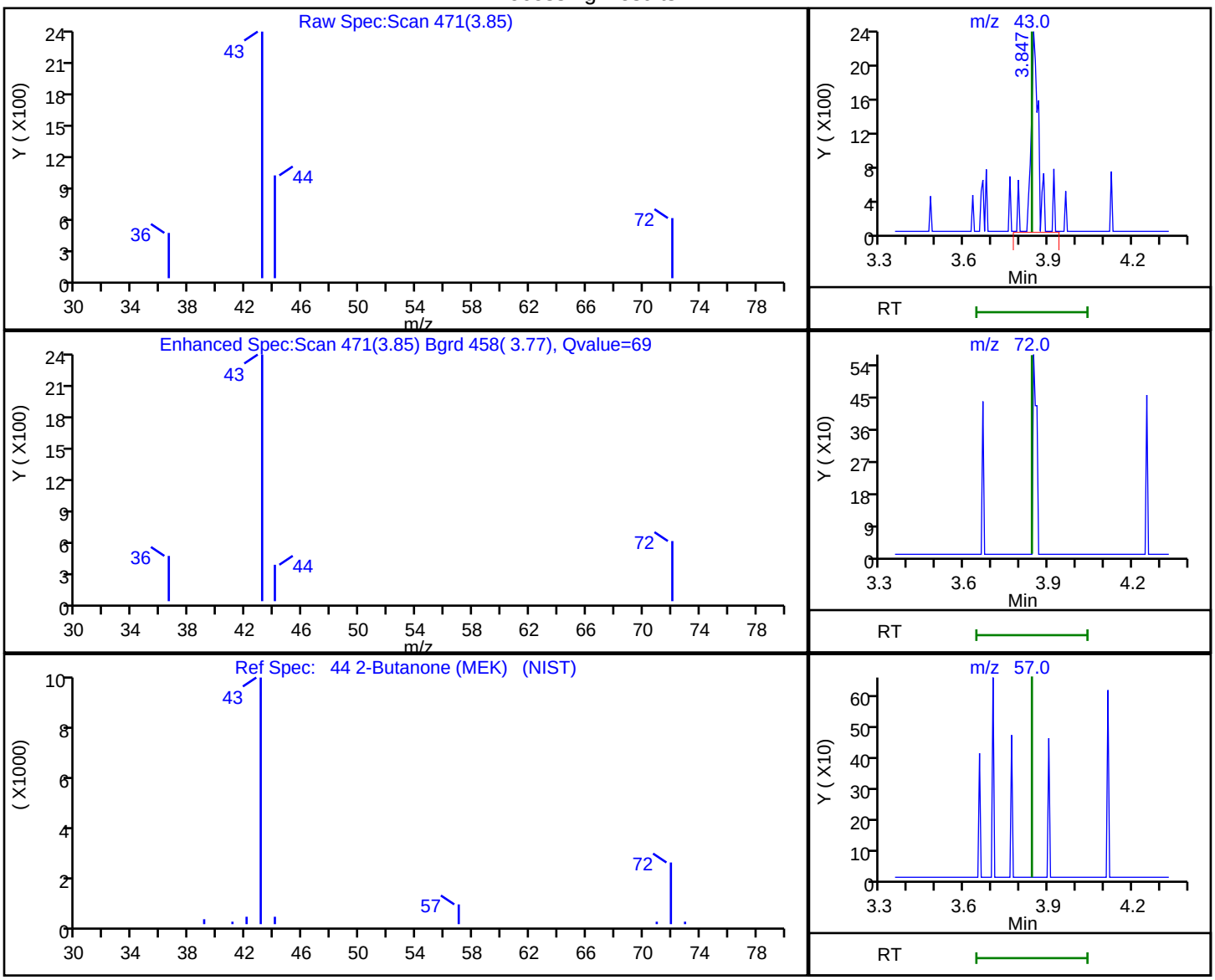
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d				
Injection Date:	31-Oct-2024 05:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-1	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	AD	ALS Bottle#:	47	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
3.85	43.00	4457	0.547755
3.84	72.00	0	
3.84	57.00	0	

Reviewer: HF3K, 31-Oct-2024 12:03:40 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

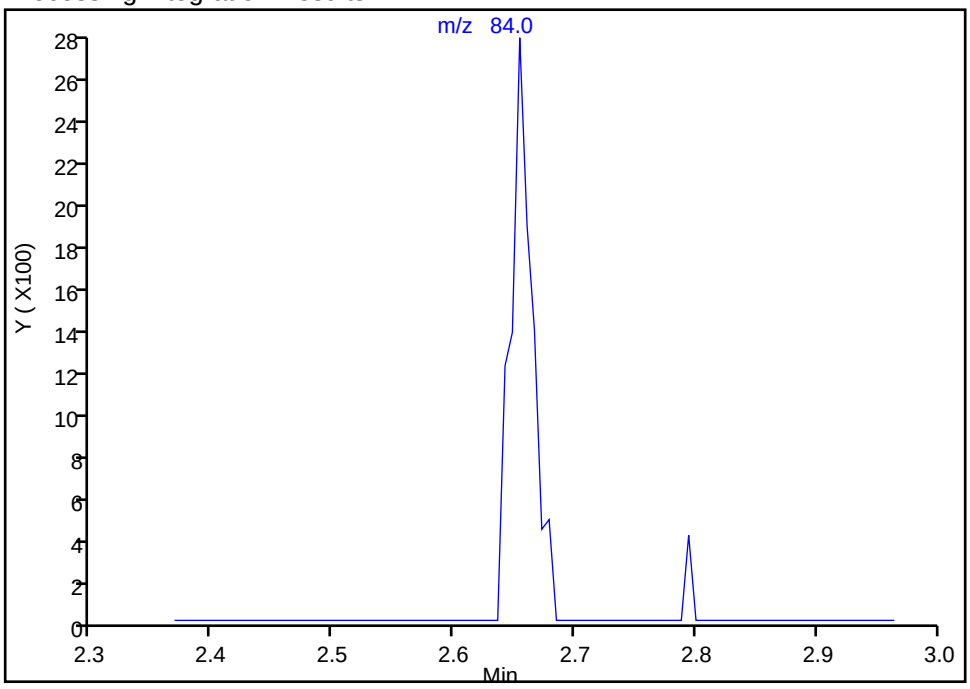
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d				
Injection Date:	31-Oct-2024 05:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-1	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	AD	ALS Bottle#:	47	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

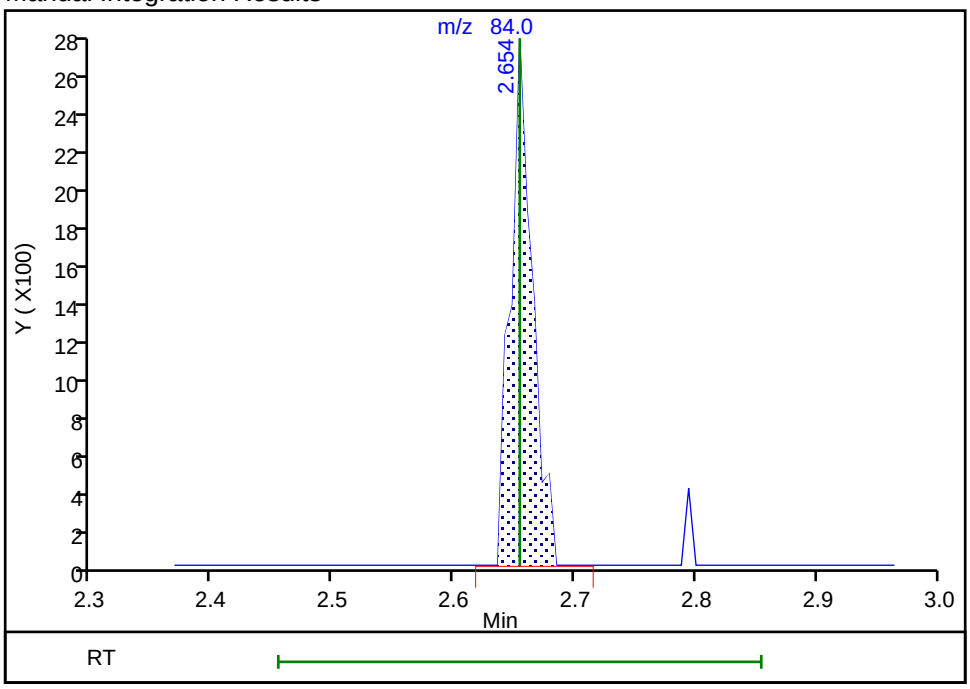
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.65
Area: 3482
Amount: 0.463966
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:03:19 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 | Lab Sample ID: 480-224869-3

Matrix: Water | Lab File ID: N1248.d

Analysis Method: 8260C | Date Collected: 10/24/2024 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 05:39

Soil Aliquot Vol: | Dilution Factor: 5

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	ND		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
591-78-6	2-Hexanone	ND		25	6.2
78-93-3	2-Butanone (MEK)	26	J	50	6.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	150		50	15
71-43-2	*Benzene*	*1500*	*E*	*5.0*	*2.1*
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	ND		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	ND		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	0.93	J	5.0	0.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 | Lab Sample ID: 480-224869-3

Matrix: Water | Lab File ID: N1248.d

Analysis Method: 8260C | Date Collected: 10/24/2024 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 05:39

Soil Aliquot Vol: | Dilution Factor: 5

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	70		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	6.0		5.0	2.2
100-42-5	Styrene	330		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	*Toluene*	*1800*	*E*	*5.0*	*2.6*
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	ND		5.0	4.5
1330-20-7	*Xylenes, Total*	*1500*	*E*	*10*	*3.3*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
2037-26-5	Toluene-d8 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	113		73-120
1868-53-7	Dibromofluoromethane (Surr)	93		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d
Lims ID: 480-224869-G-3
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 31-Oct-2024 05:39:30 ALS Bottle#: 48 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 480-224869-G-3
Misc. Info.: 480-0120932-015
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 12:06:26 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 12:06:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	143391	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	496724	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	272313	25.0	a
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	150830	23.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	43	230517	23.8	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	95	521841	23.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	87	203335	28.4	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.289	2.283	0.000	98	154280	29.7	
25 Carbon disulfide	76		2.350				ND	
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.654	2.654	0.000	84	8002	1.20	
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63	3.257	3.263	-0.006	1	3542	0.2583	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43	3.847	3.840	0.006	96	43550	5.13	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56	4.212	4.212	0.000	45	3140	0.1852	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78	4.552	4.552	0.000	92	6757975	291.6	Ea
57 1,2-Dichloroethane	62		4.619				ND	U
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	U
73 Toluene	92	6.371	6.365	0.000	96	4882012	360.0	E
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43	7.095	7.095	0.012	27	4219	0.3447	a
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91	7.898	7.898	0.000	98	363418	14.1	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	96	2180007	214.1	E
91 o-Xylene	106	8.440	8.434	0.000	98	724851	71.2	
92 Styrene	104	8.476	8.476	0.000	93	1088731	65.6	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105	8.835	8.835	0.006	21	7028	0.2605	a
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1				0		285.2	E

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

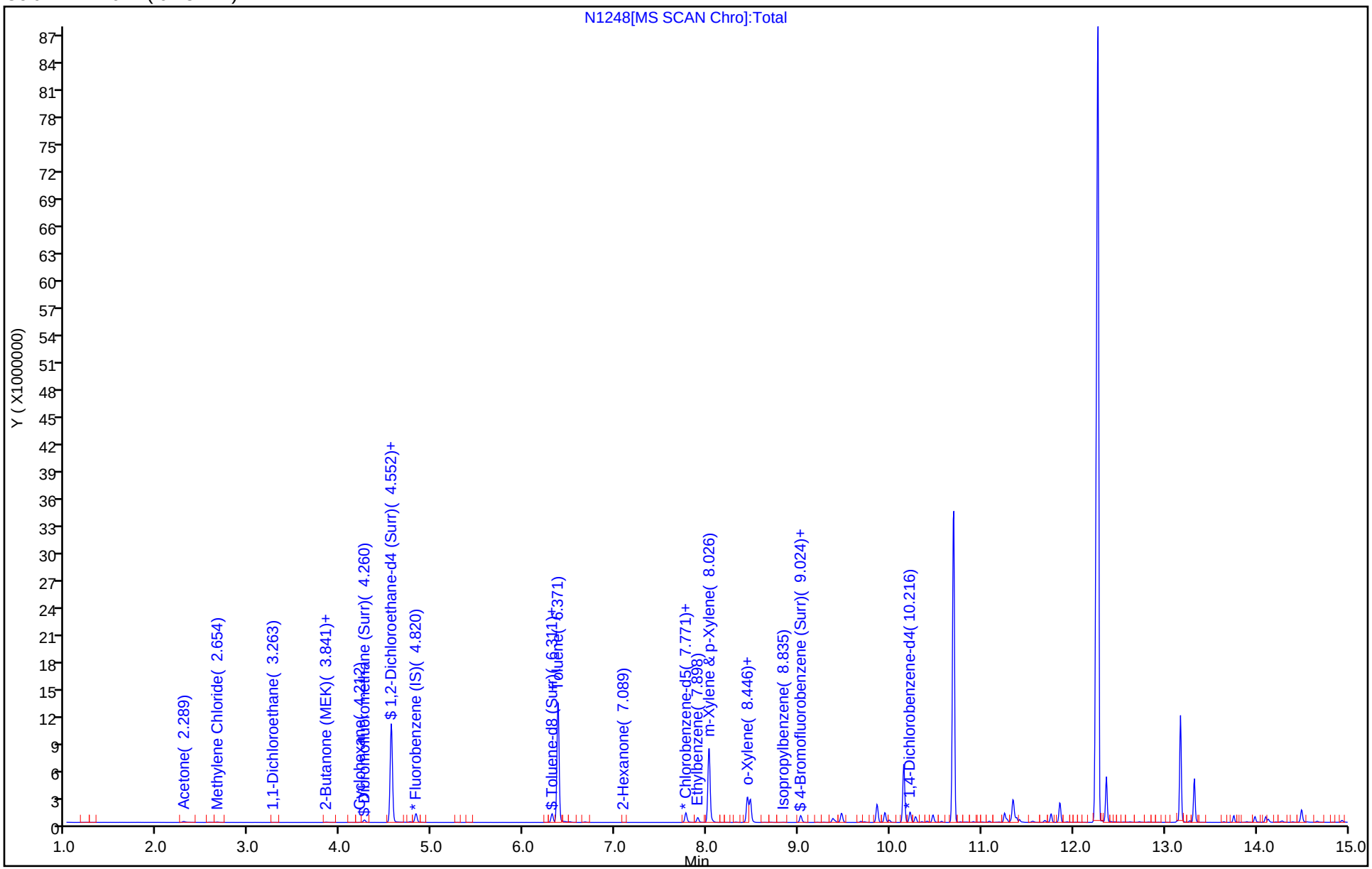
Report Date: 31-Oct-2024 12:06:26 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3	Worklist Smp#:	15
Client ID:	MW-BCP-10A-10242024				
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	48
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d
Lims ID: 480-224869-G-3
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 31-Oct-2024 05:39:30 ALS Bottle#: 48 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 480-224869-G-3
Misc. Info.: 480-0120932-015
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 12:06:26 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 12:06:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.1	92.60
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.8	95.13
$ 6 Toluene-d8 (Surr)	25.0	23.0	91.81
$ 7 4-Bromofluorobenzene (Surr)	25.0	28.4	113.43

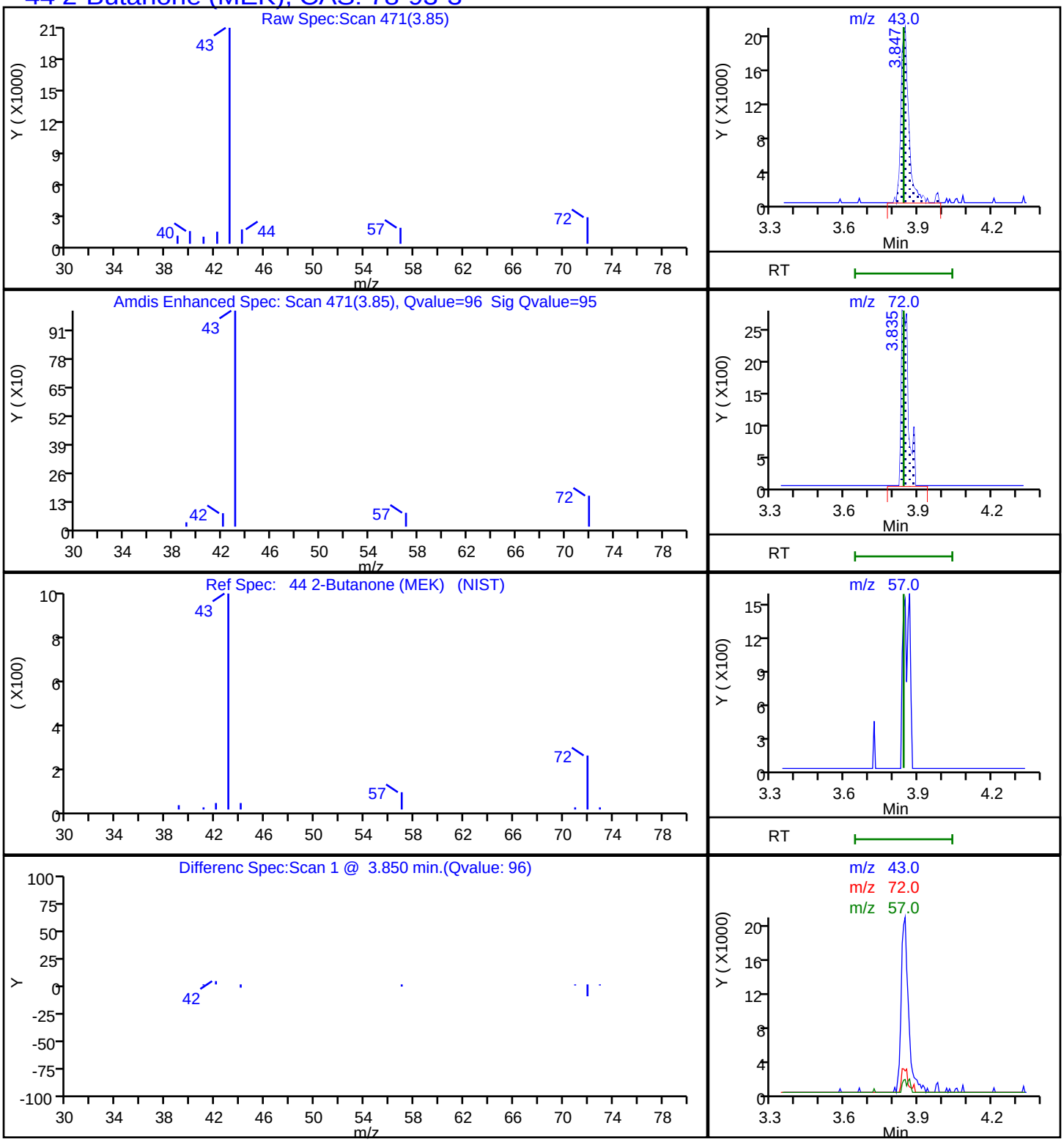
Report Date: 31-Oct-2024 12:06:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	48 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

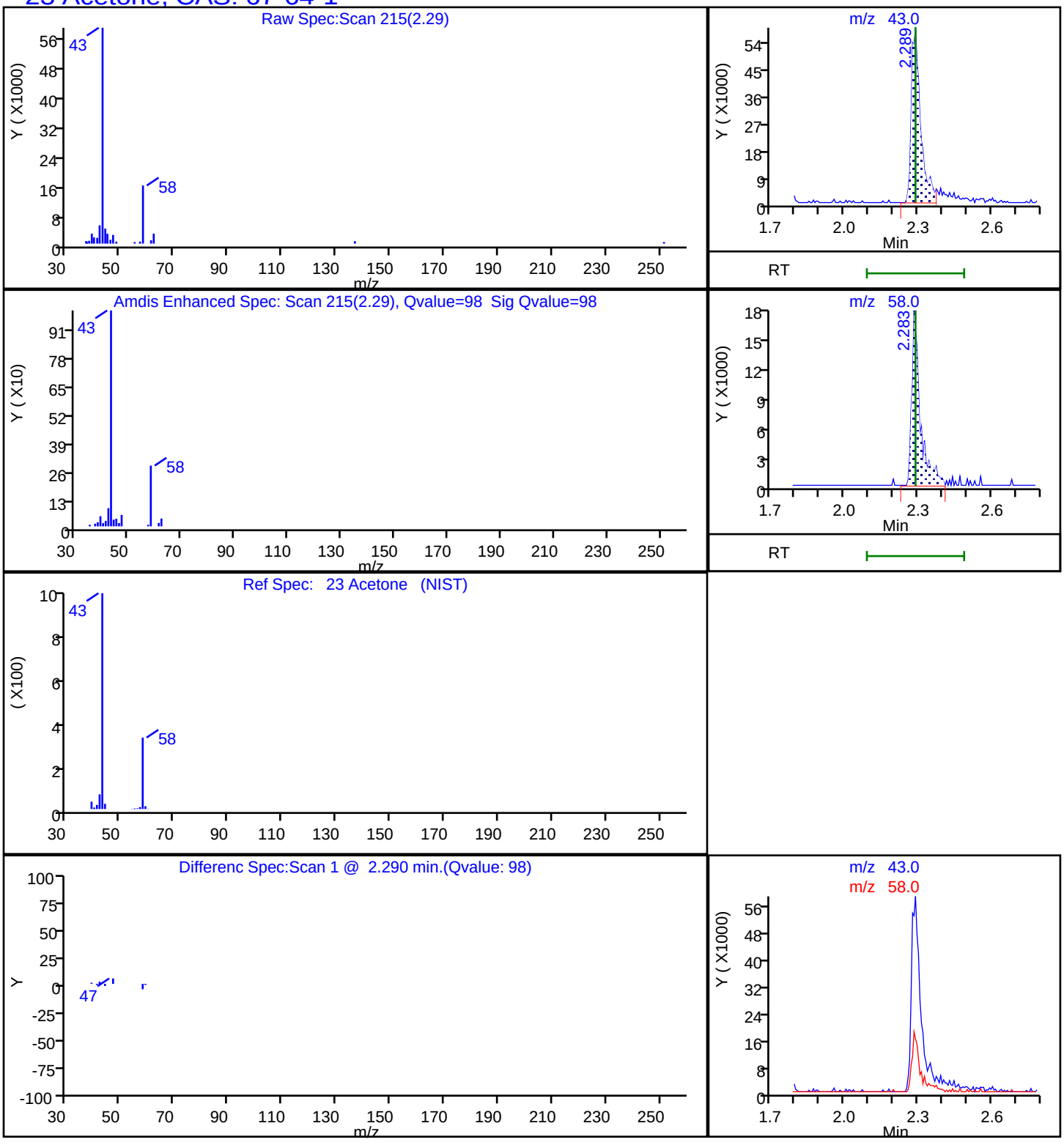
44 2-Butanone (MEK), CAS: 78-93-3



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d
Injection Date: 31-Oct-2024 05:39:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-3 Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: AD ALS Bottle#: 48 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



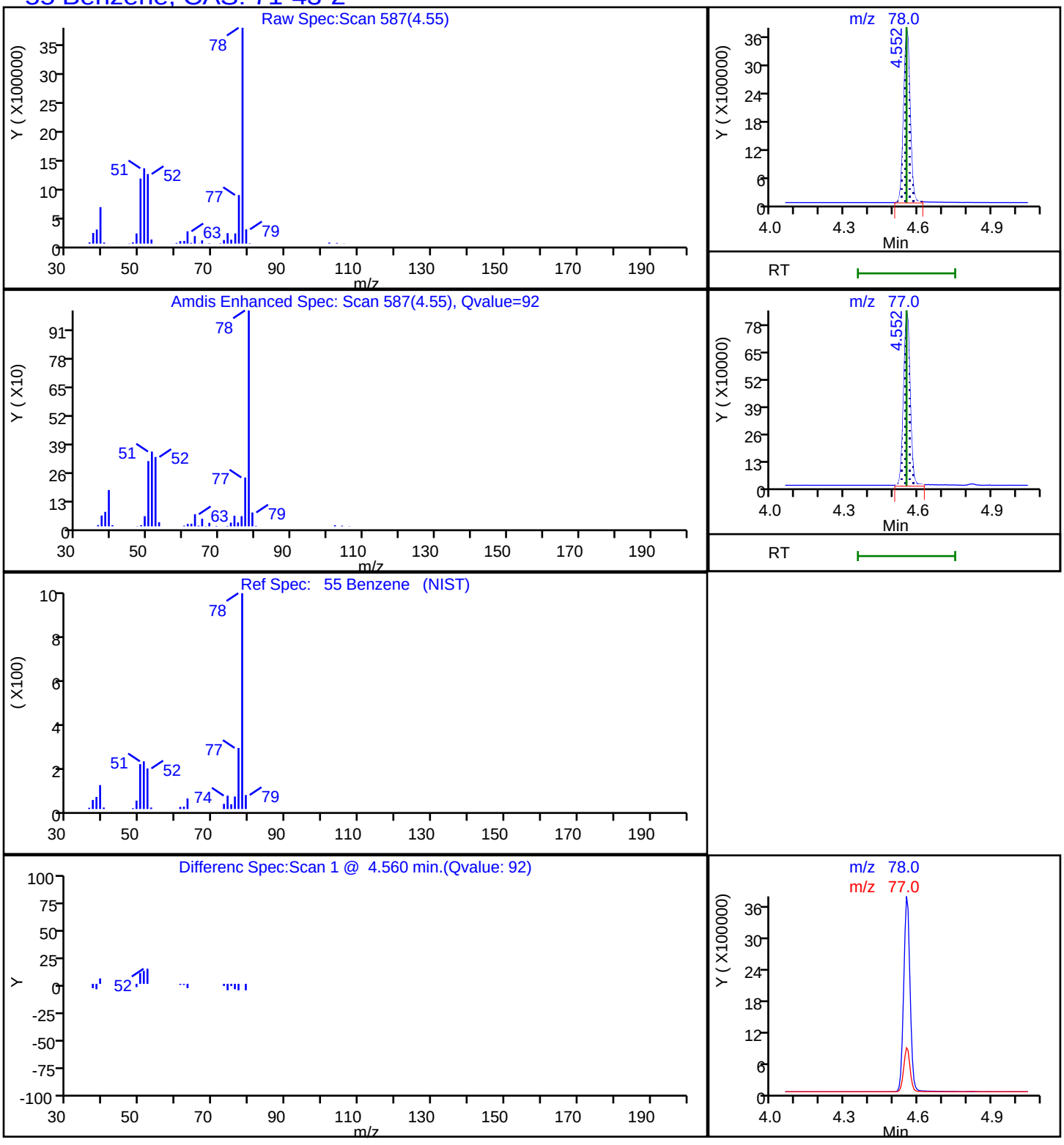
Report Date: 31-Oct-2024 12:06:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2



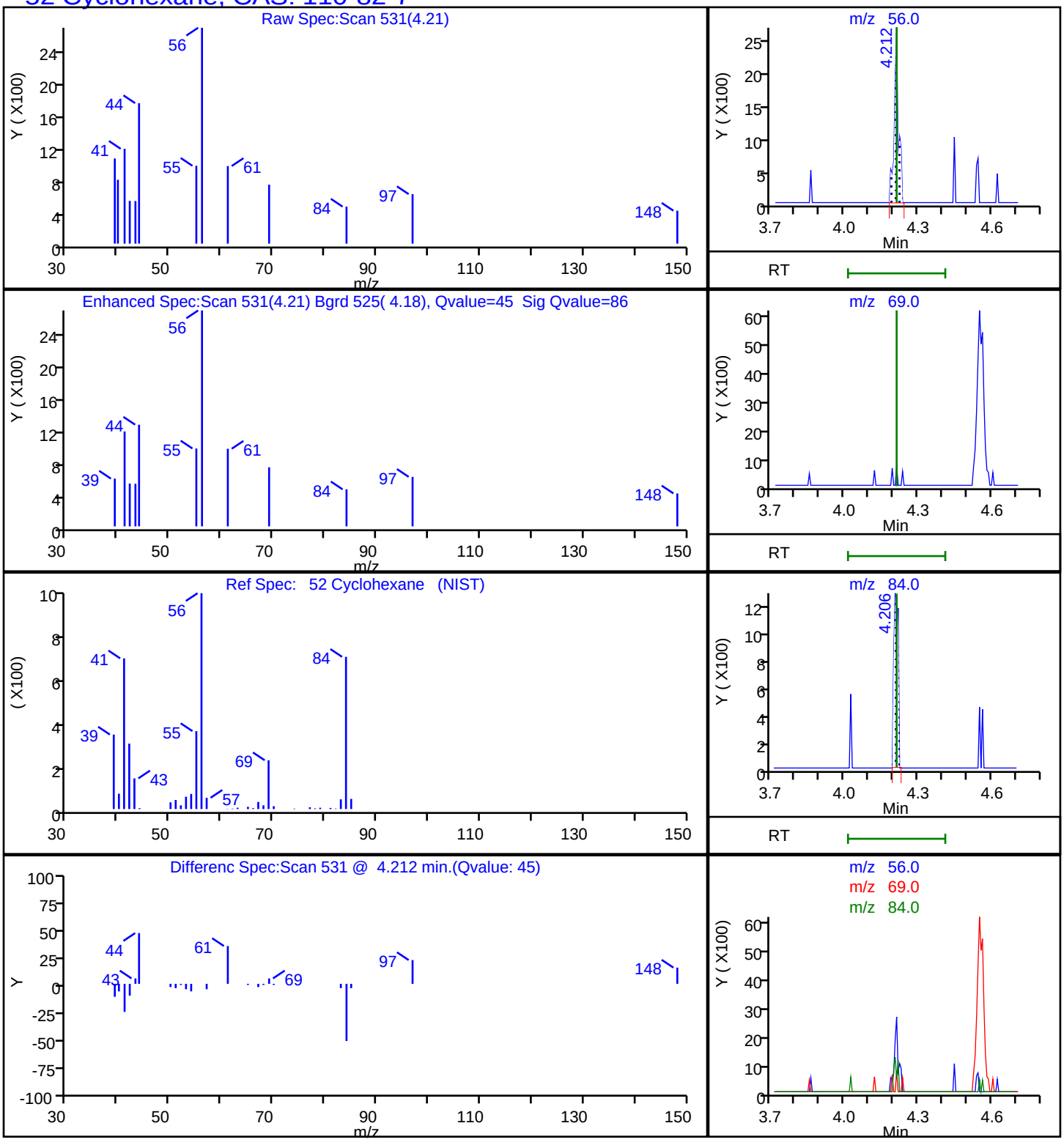
Report Date: 31-Oct-2024 12:06:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

52 Cyclohexane, CAS: 110-82-7



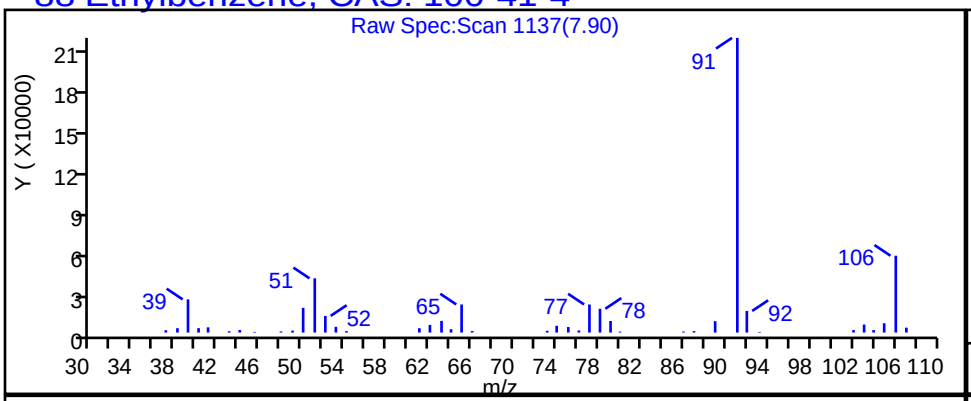
Report Date: 31-Oct-2024 12:06:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

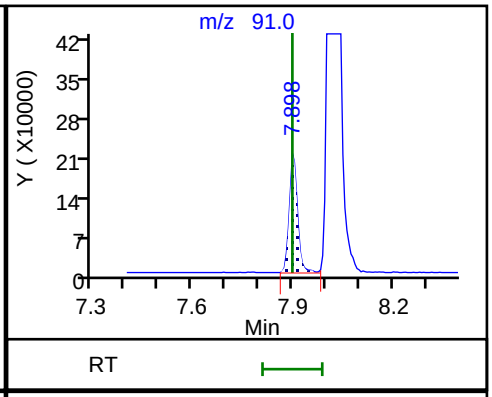
Eurofins Buffalo

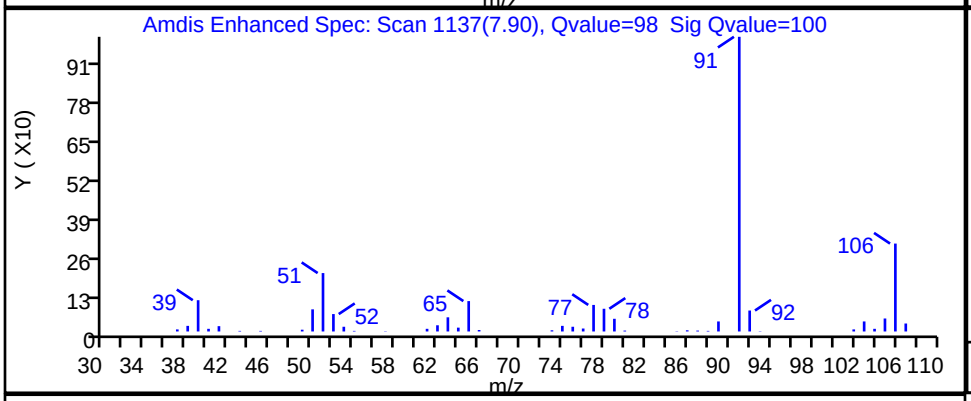
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

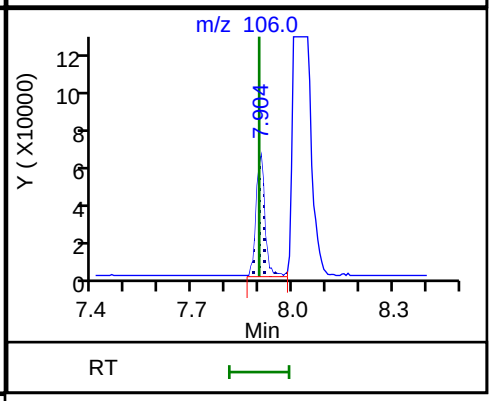
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

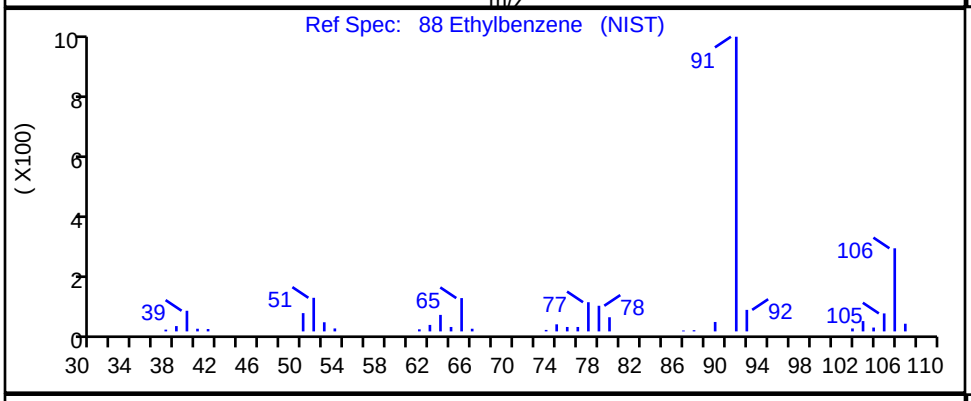
88 Ethylbenzene, CAS: 100-41-4

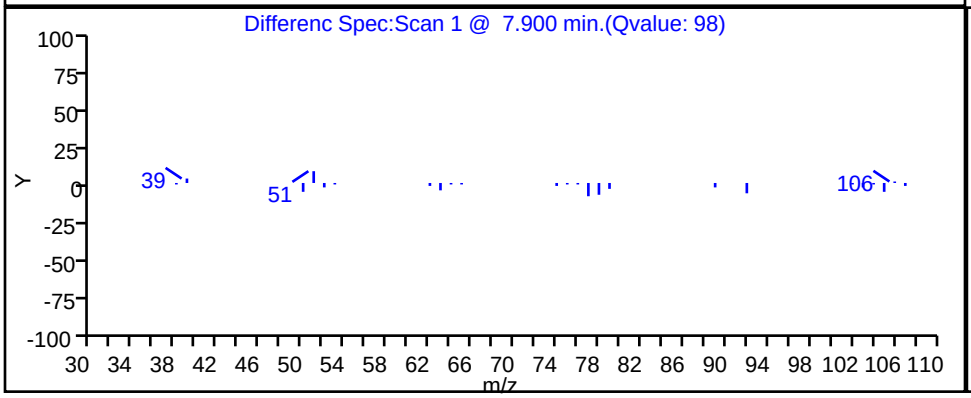


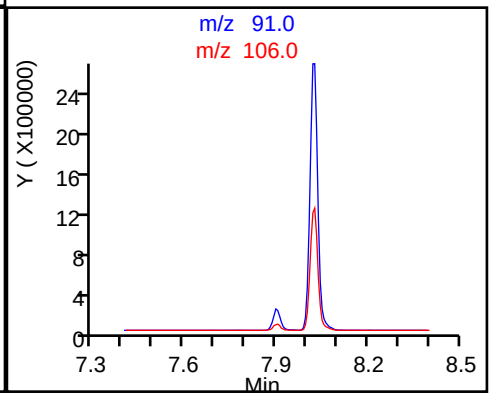












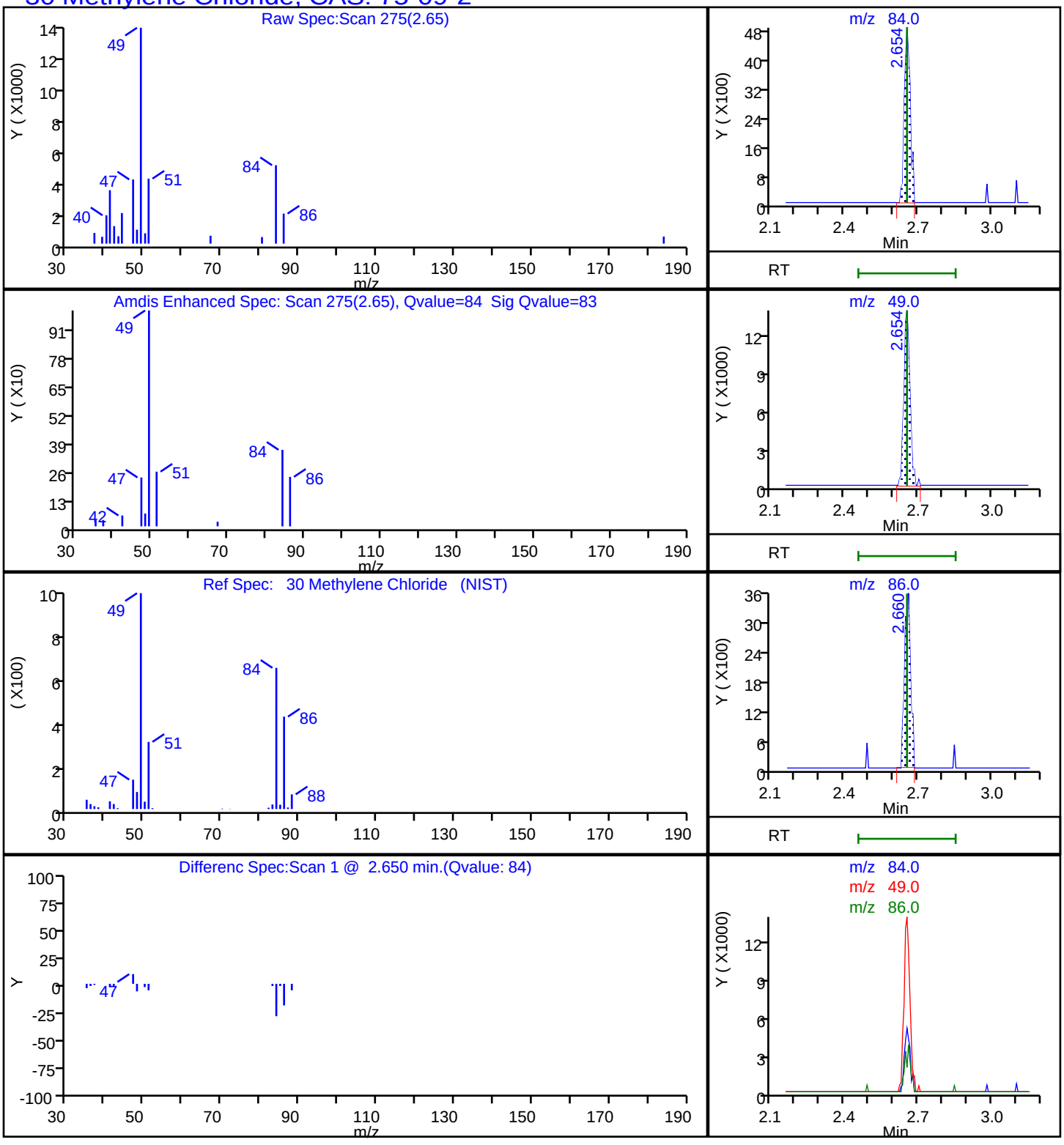
Report Date: 31-Oct-2024 12:06:26 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	48 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



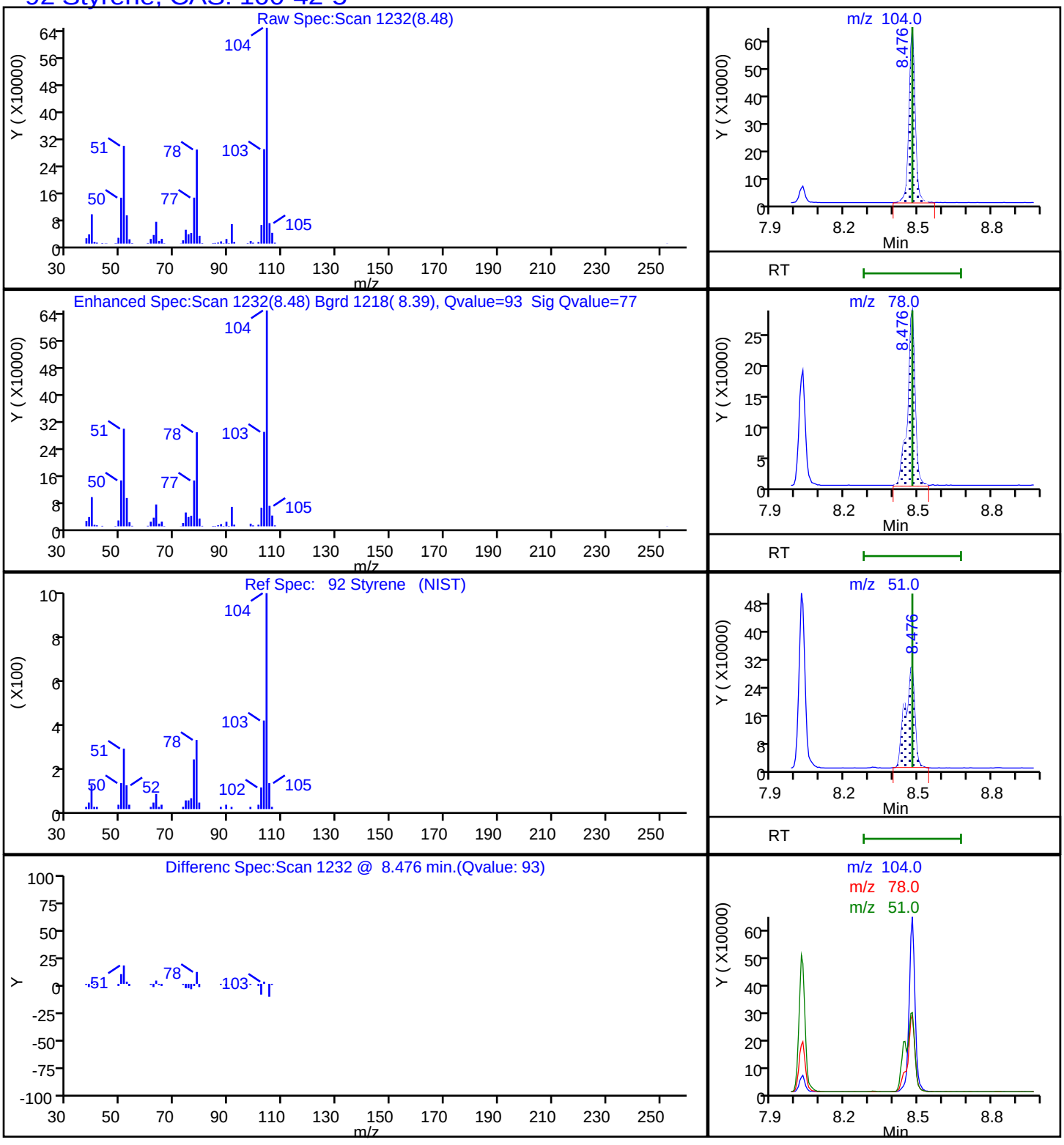
Report Date: 31-Oct-2024 12:06:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	48 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

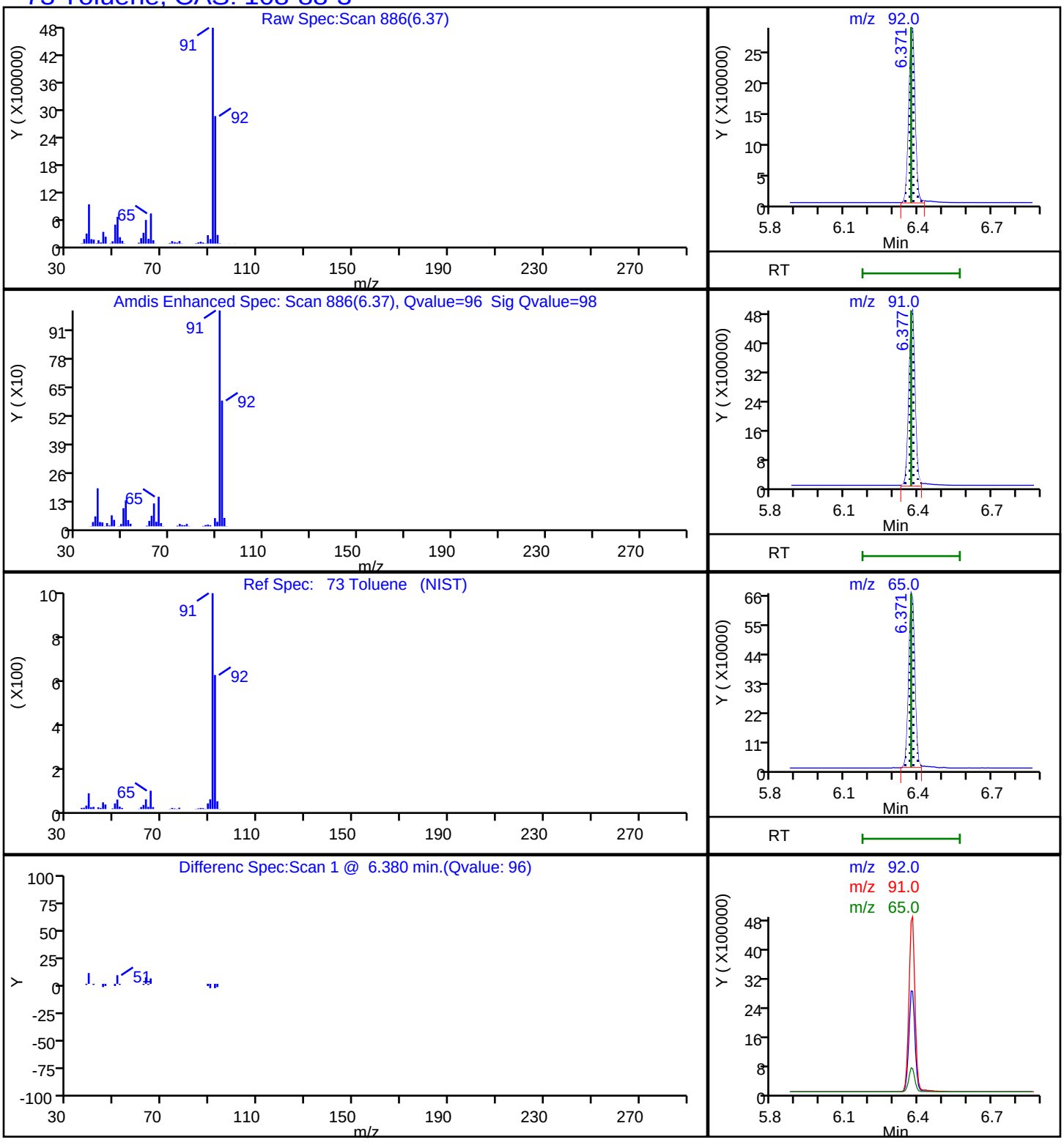
92 Styrene, CAS: 100-42-5



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d
Injection Date: 31-Oct-2024 05:39:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-3 Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: AD ALS Bottle#: 48 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

73 Toluene, CAS: 108-88-3



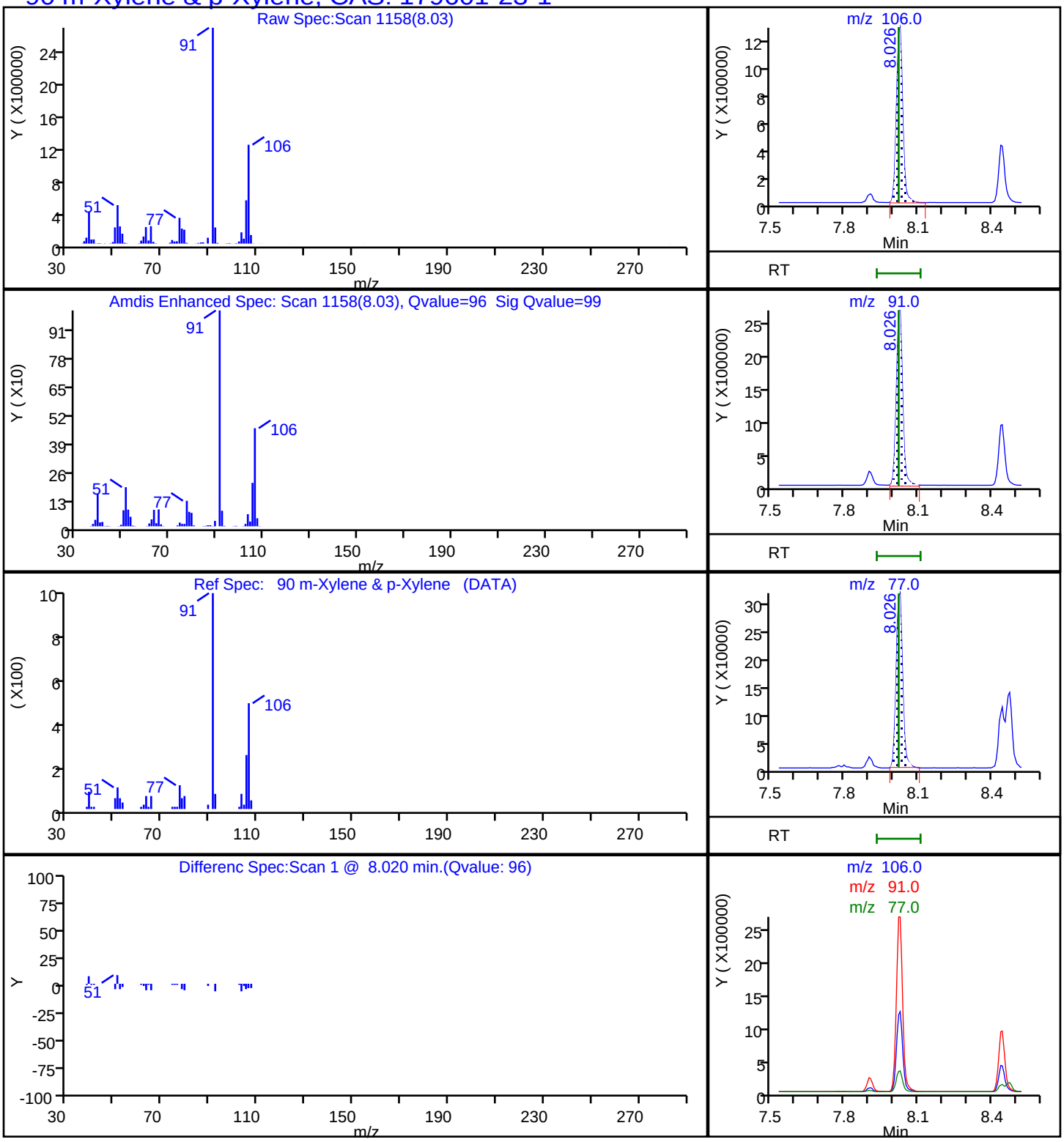
Report Date: 31-Oct-2024 12:06:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

90 m-Xylene & p-Xylene, CAS: 179601-23-1

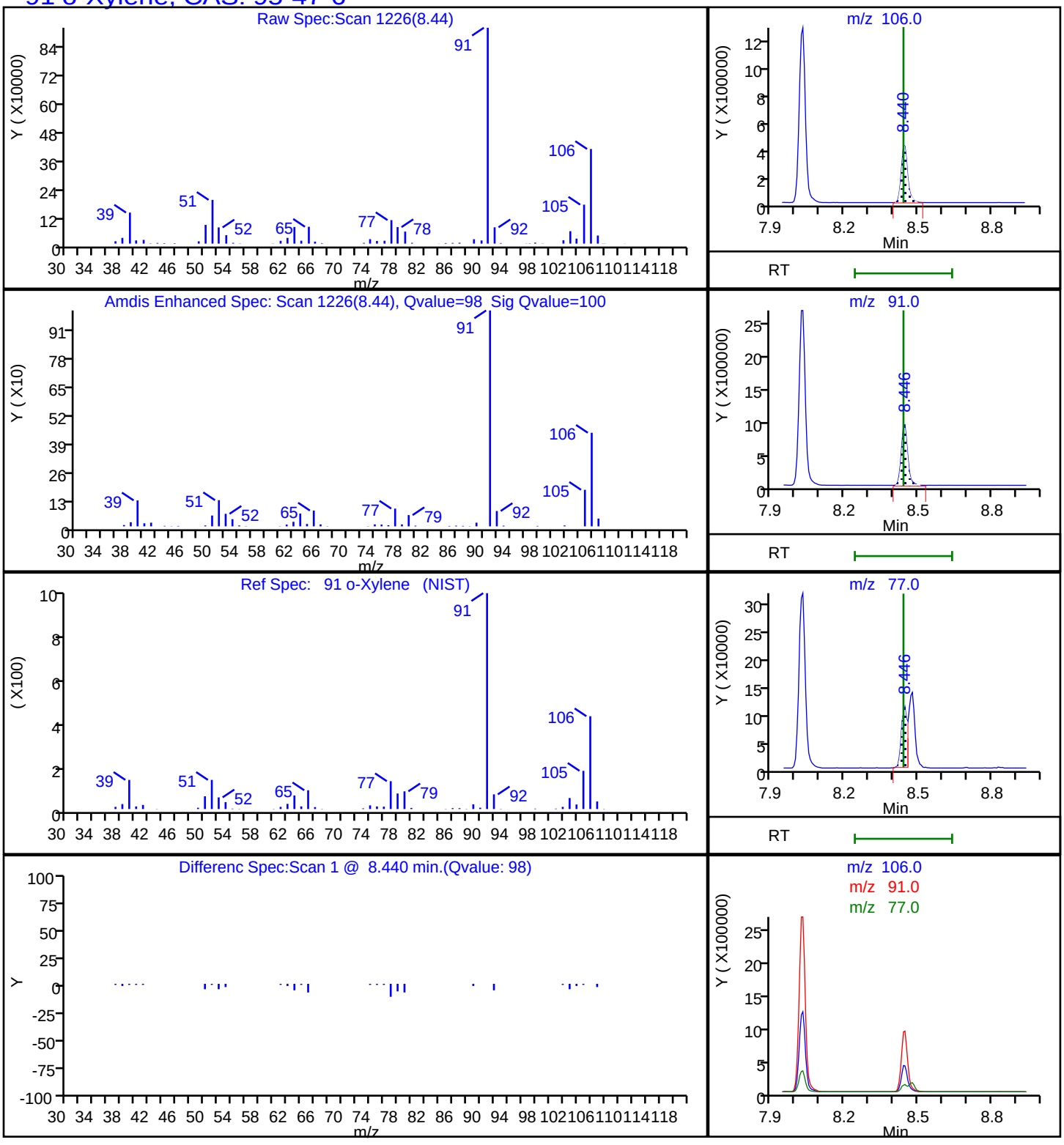


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

91 o-Xylene, CAS: 95-47-6



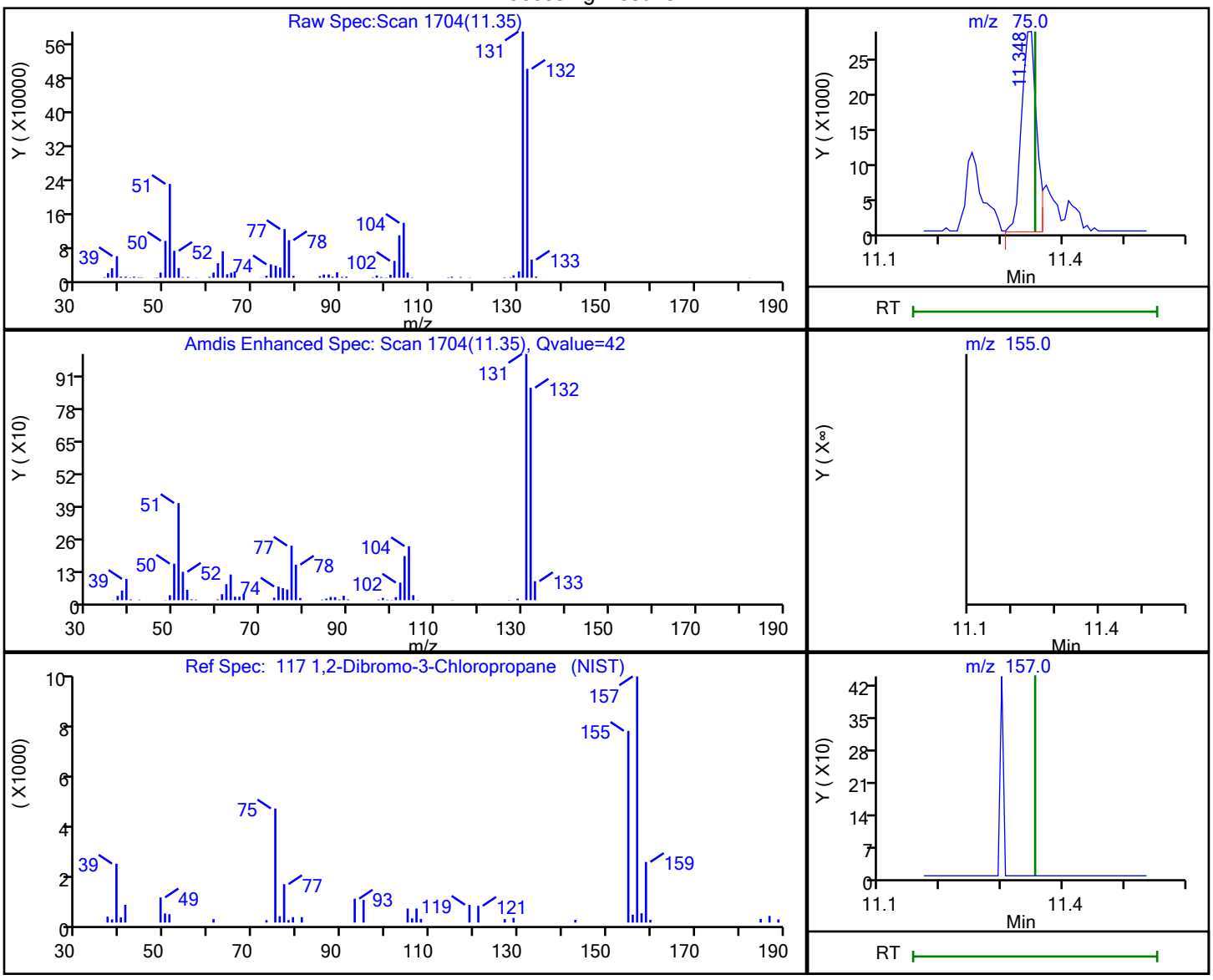
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-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	48478	25.457209
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 12:06:21 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

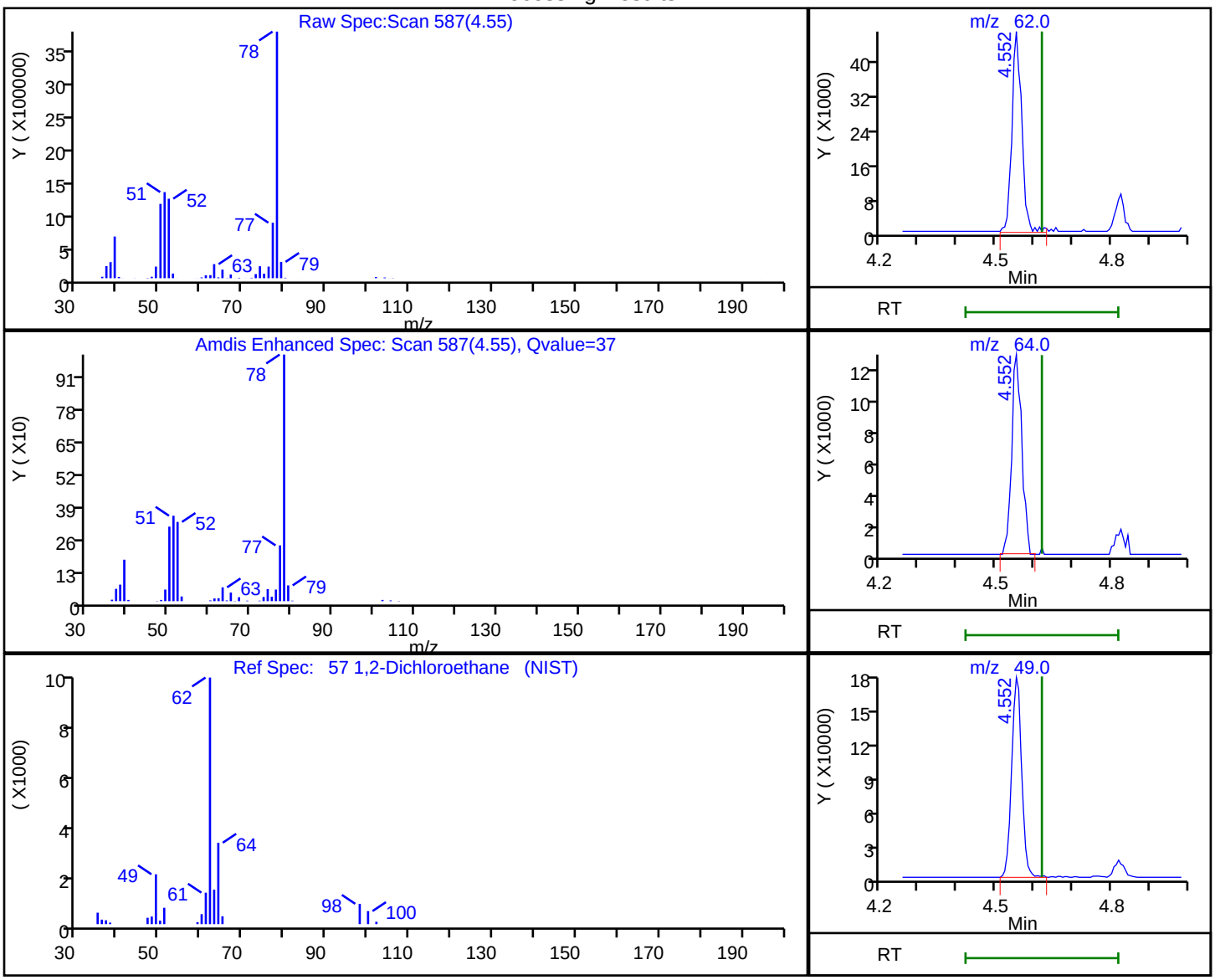
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.55	62.00	81918	6.875268
4.55	64.00	22521	
4.55	49.00	321975	

Reviewer: HF3K, 31-Oct-2024 12:05:35 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

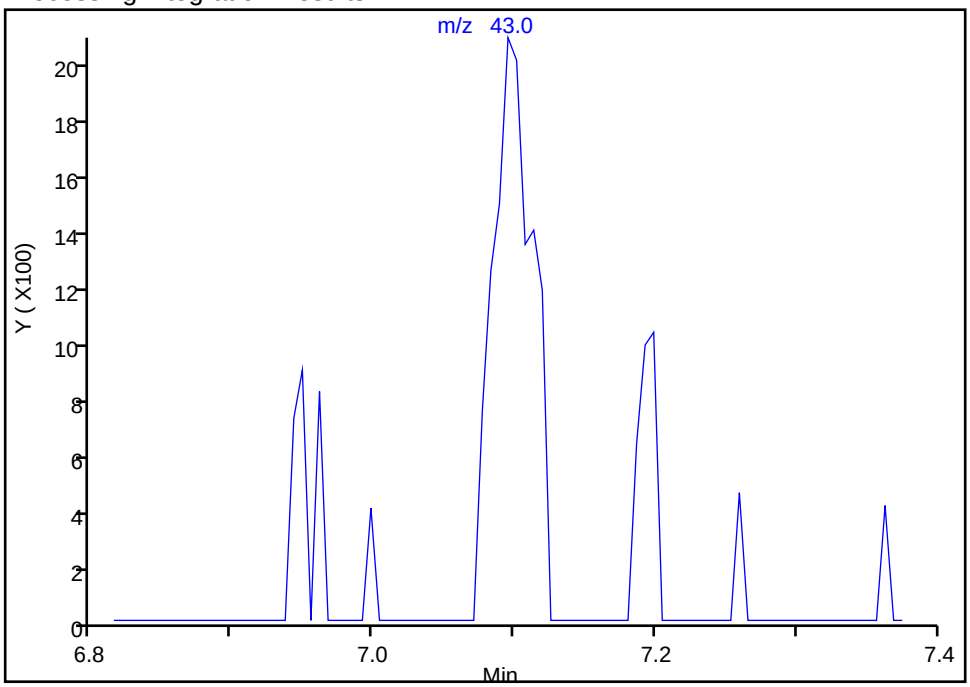
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

82 2-Hexanone, CAS: 591-78-6

Signal: 1

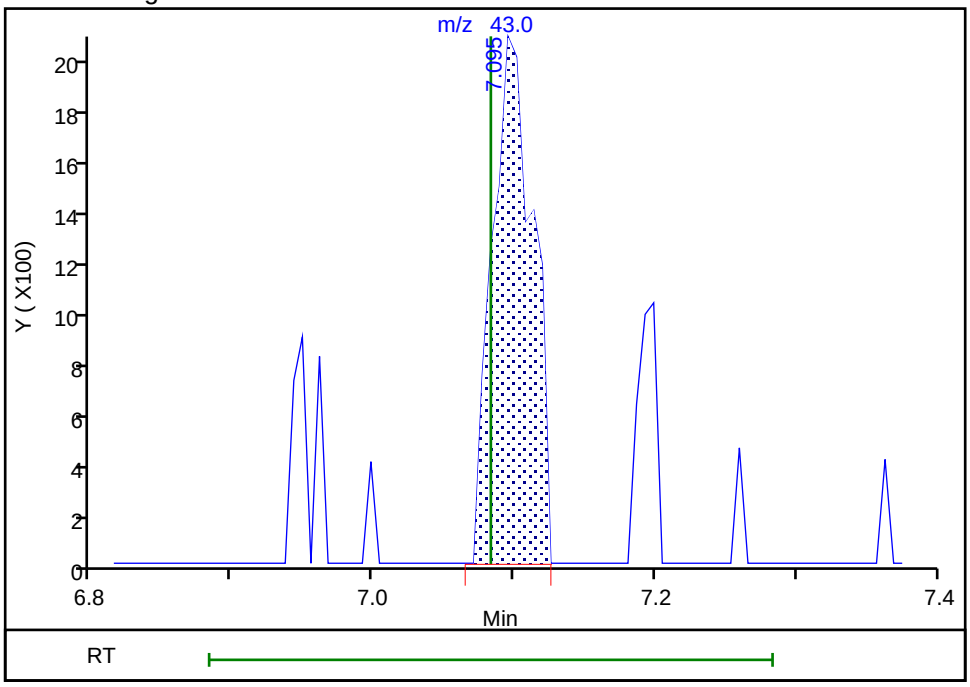
Not Detected
Expected RT: 7.08

Processing Integration Results



Manual Integration Results

RT: 7.10
Area: 4219
Amount: 0.344742
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:05:57 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

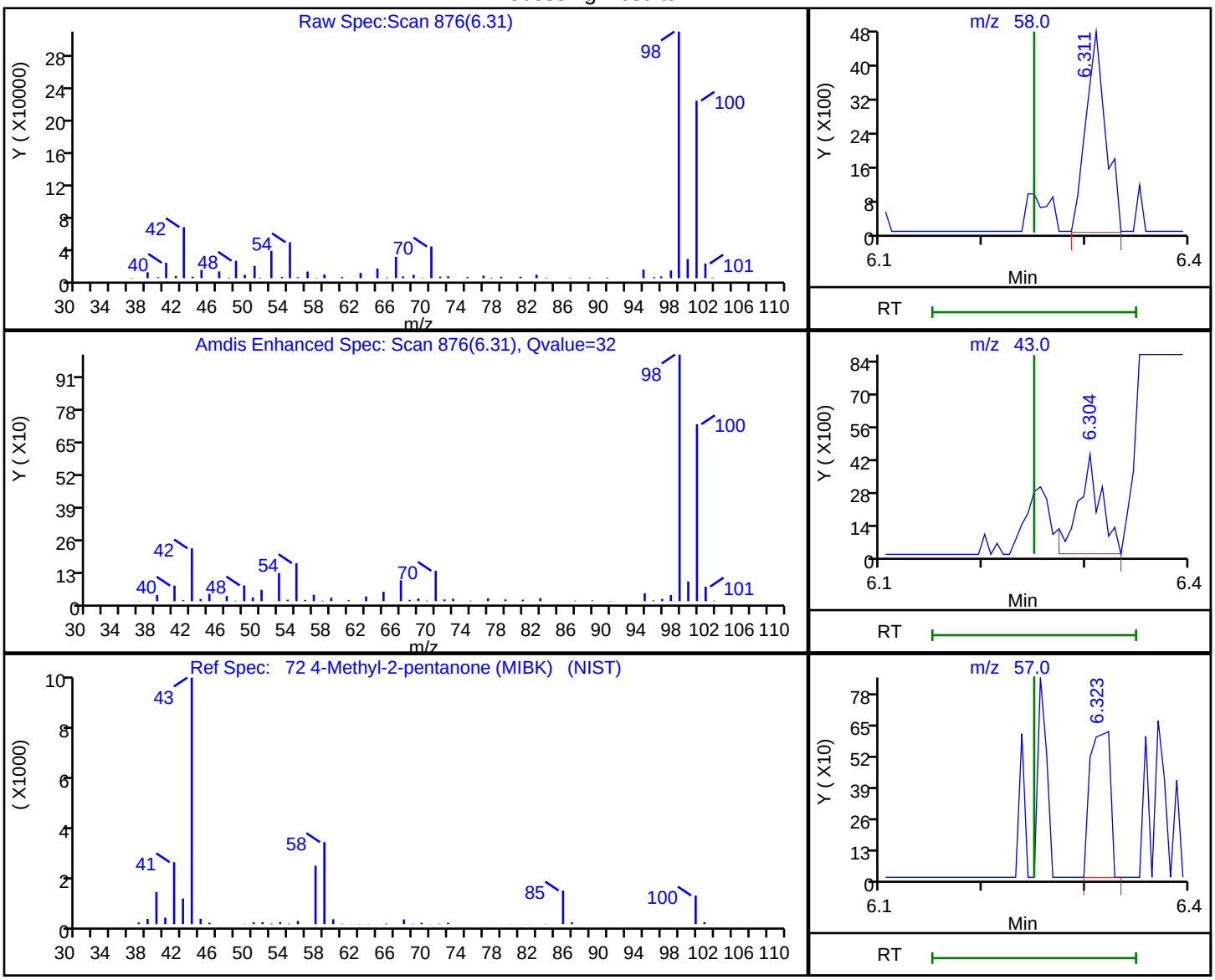
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.31	58.00	6381	1.167514
6.30	43.00	6837	
6.32	57.00	852	

Reviewer: HF3K, 31-Oct-2024 12:05:49 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

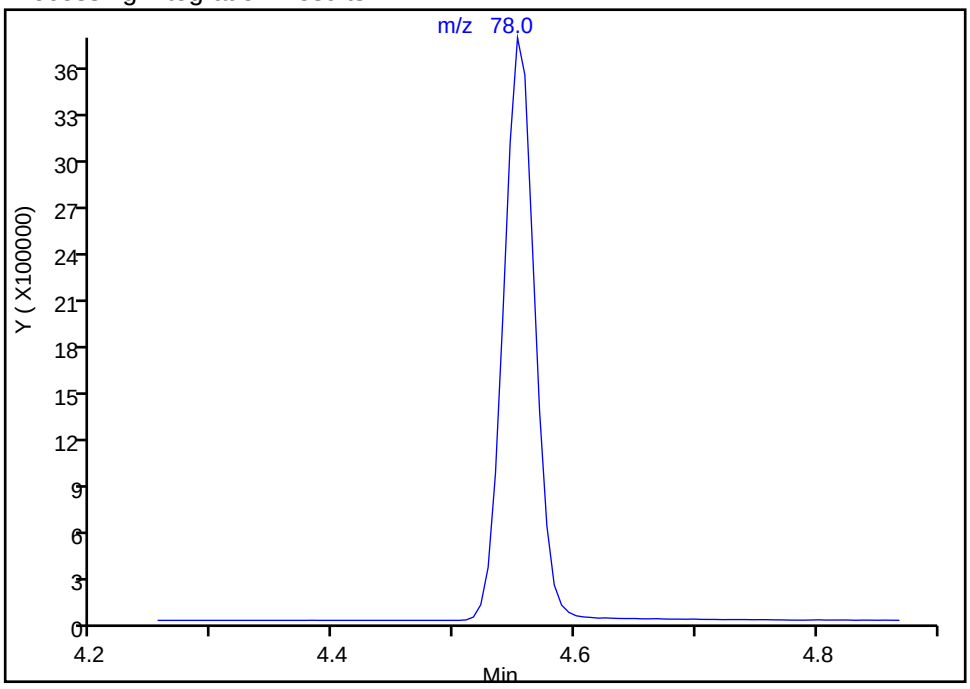
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2

Signal: 1

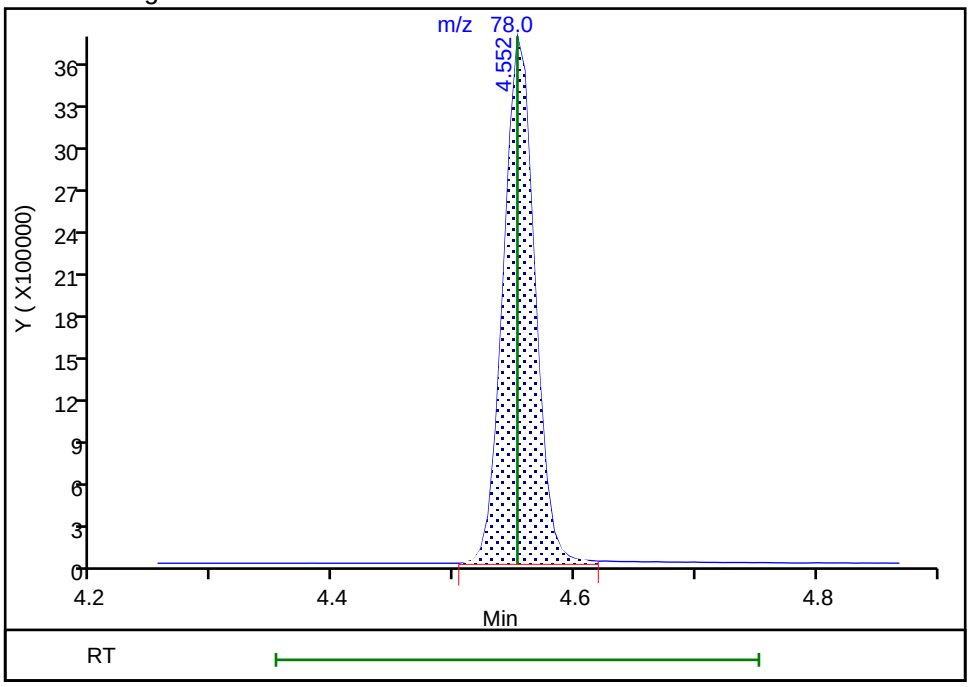
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 6757975
Amount: 291.6498
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:05:28 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

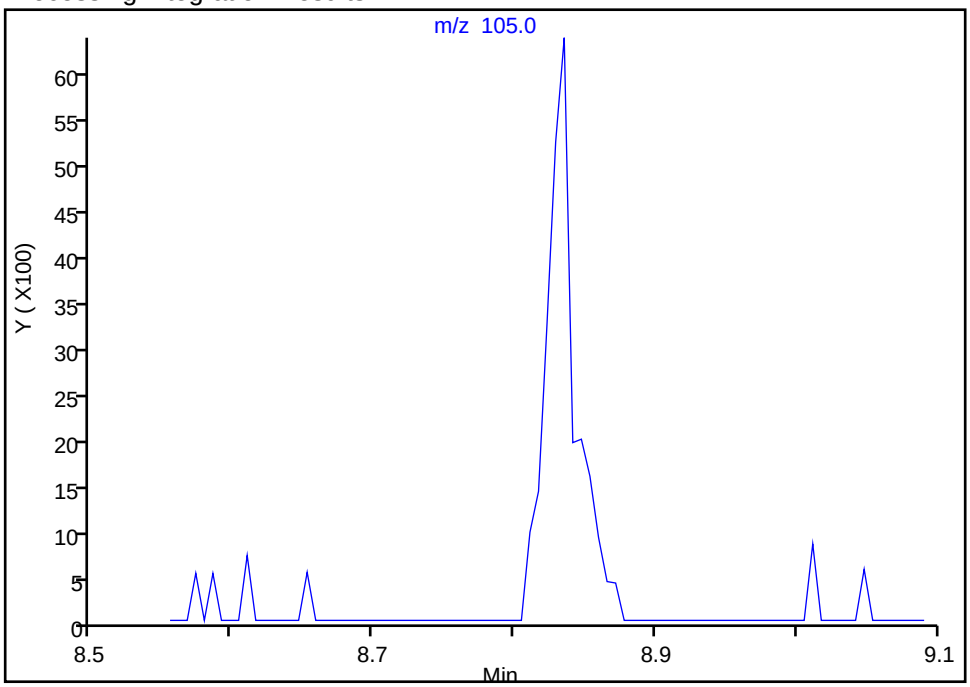
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

95 Isopropylbenzene, CAS: 98-82-8

Signal: 1

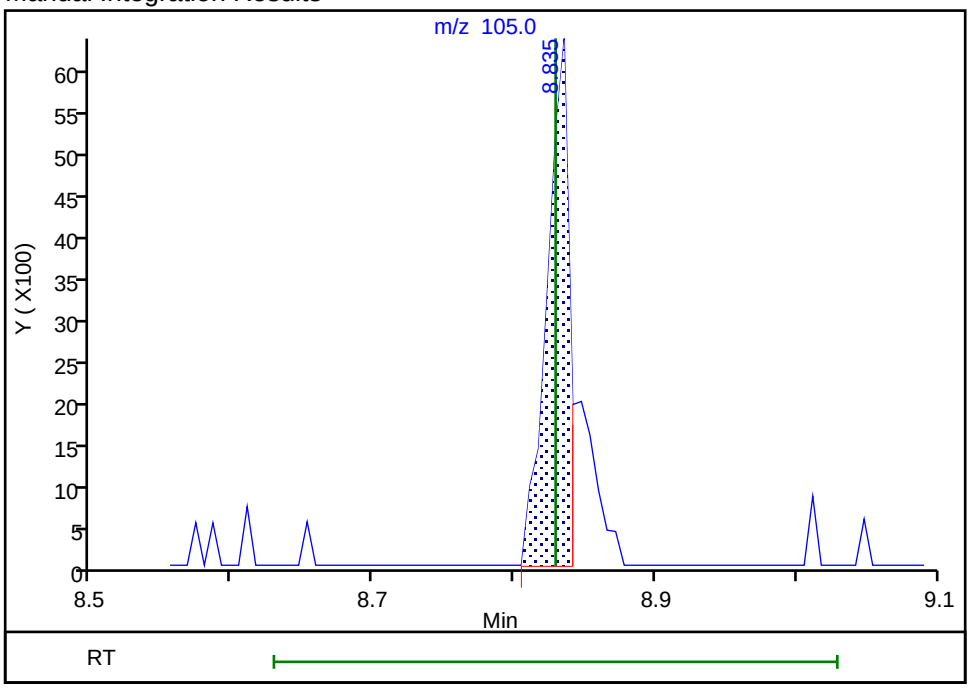
Not Detected
Expected RT: 8.83

Processing Integration Results



Manual Integration Results

RT: 8.84
Area: 7028
Amount: 0.260520
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:06:13 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Buffalo

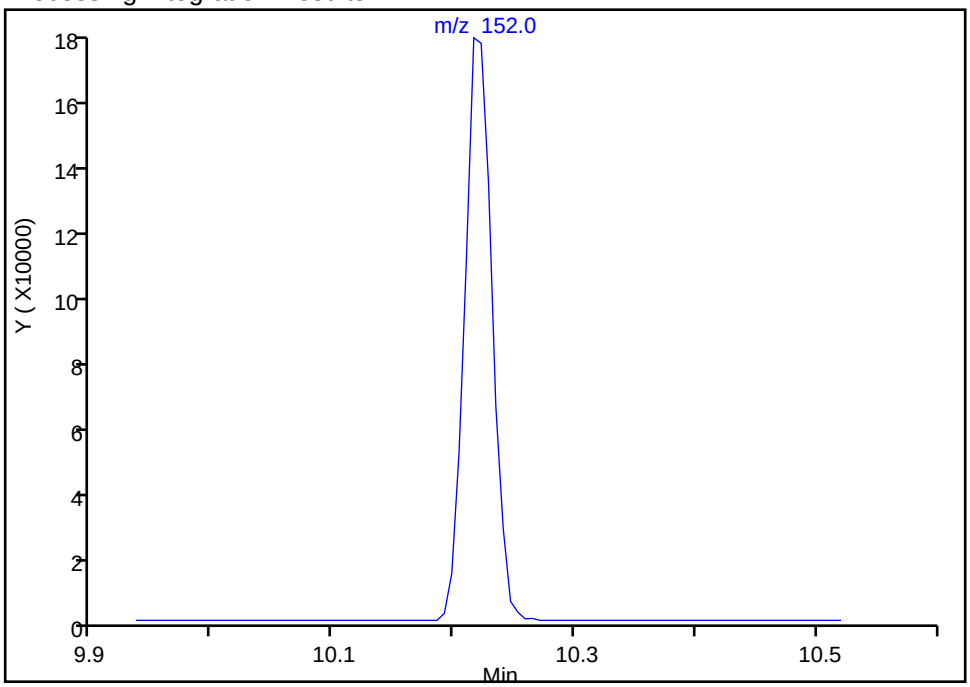
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

* 3 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

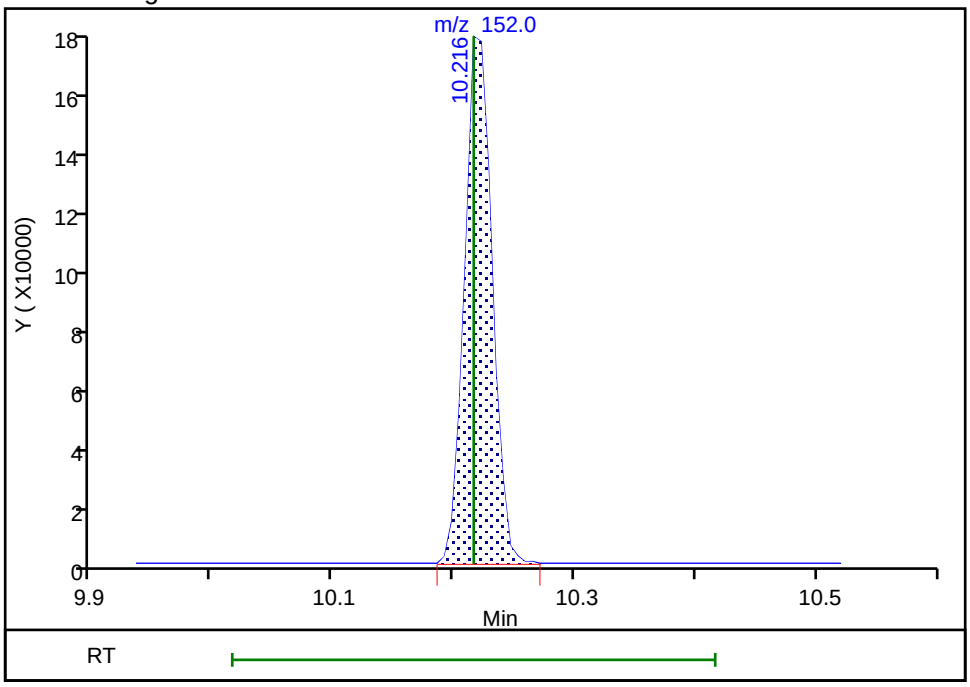
Not Detected
Expected RT: 10.22

Processing Integration Results



Manual Integration Results

RT: 10.22
Area: 272313
Amount: 25.000000
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:05:02 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 DL | Lab Sample ID: 480-224869-3 DL

Matrix: Water | Lab File ID: N1296.d

Analysis Method: 8260C | Date Collected: 10/24/2024 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 00:29

Soil Aliquot Vol: | Dilution Factor: 50

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.: 730696 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		50	41
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	11
79-00-5	1,1,2-Trichloroethane	ND		50	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16
75-34-3	1,1-Dichloroethane	ND		50	19
75-35-4	1,1-Dichloroethene	ND		50	15
120-82-1	1,2,4-Trichlorobenzene	ND		50	21
96-12-8	1,2-Dibromo-3-Chloropropane	160		50	20
106-93-4	1,2-Dibromoethane	ND		50	37
95-50-1	1,2-Dichlorobenzene	ND		50	40
107-06-2	1,2-Dichloroethane	ND		50	11
78-87-5	1,2-Dichloropropane	ND		50	36
541-73-1	1,3-Dichlorobenzene	ND		50	39
106-46-7	1,4-Dichlorobenzene	ND		50	42
591-78-6	2-Hexanone	ND		250	62
78-93-3	2-Butanone (MEK)	ND		500	66
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	110
67-64-1	Acetone	190	J	500	150
71-43-2	Benzene	1500		50	21
75-27-4	Bromodichloromethane	ND		50	20
75-25-2	Bromoform	ND		50	13
74-83-9	Bromomethane	ND		50	35
75-15-0	Carbon disulfide	ND		50	9.5
56-23-5	Carbon tetrachloride	ND		50	14
108-90-7	Chlorobenzene	ND		50	38
124-48-1	Dibromochloromethane	ND		50	16
75-00-3	Chloroethane	ND		50	16
67-66-3	Chloroform	ND		50	17
74-87-3	Chloromethane	ND		50	18
156-59-2	cis-1,2-Dichloroethene	ND		50	41
10061-01-5	cis-1,3-Dichloropropene	ND		50	18
110-82-7	Cyclohexane	ND		50	9.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 DL | Lab Sample ID: 480-224869-3 DL

Matrix: Water | Lab File ID: N1296.d

Analysis Method: 8260C | Date Collected: 10/24/2024 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 00:29

Soil Aliquot Vol: | Dilution Factor: 50

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.: 730696 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	*Dichlorodifluoromethane*	*ND*		*50*	*34*
100-41-4	*Ethylbenzene*	*78*		*50*	*37*
98-82-8	*Isopropylbenzene*	*ND*		*50*	*40*
79-20-9	*Methyl acetate*	*ND*		*130*	*65*
1634-04-4	*Methyl tert-butyl ether*	*ND*		*50*	*8.0*
108-87-2	*Methylcyclohexane*	*ND*		*50*	*8.0*
75-09-2	*Methylene Chloride*	*69*		*50*	*22*
100-42-5	*Styrene*	*310*		*50*	*37*
127-18-4	*Tetrachloroethene*	*ND*		*50*	*18*
108-88-3	Toluene	1900		50	26
156-60-5	*trans-1,2-Dichloroethene*	*ND*		*50*	*45*
10061-02-6	*trans-1,3-Dichloropropene*	*ND*		*50*	*19*
79-01-6	*Trichloroethene*	*ND*		*50*	*23*
75-69-4	*Trichlorofluoromethane*	*ND*		*50*	*44*
75-01-4	*Vinyl chloride*	*ND*		*50*	*45*
1330-20-7	Xylenes, Total	1500		100	33

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d
Lims ID: 480-224869-H-3
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 01-Nov-2024 00:29:30 ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 480-224869-H-3
Misc. Info.: 480-0120960-027
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:09:31 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:09:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	138991	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	473090	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	276538	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	154054	24.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	63	224212	23.9	
$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	97	535045	24.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.030	9.024	0.006	87	179633	26.3	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.571				ND	
18 Trichlorofluoromethane	101		1.748				ND	
22 1,1-Dichloroethene	96		2.180				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.186				ND	
23 Acetone	43	2.289	2.289	0.000	97	19190	3.81	
25 Carbon disulfide	76		2.350				ND	
28 Methyl acetate	43		2.569				ND	
30 Methylene Chloride	84	2.654	2.660	0.000	86	8836	1.39	
32 Methyl tert-butyl ether	73		2.855				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.269				ND	
43 cis-1,2-Dichloroethene	96		3.804				ND	
44 2-Butanone (MEK)	43		3.834				ND	
50 Chloroform	83	4.108	4.108	0.000	19	2309	0.2149	a
52 Cyclohexane	56		4.212				ND	
51 1,1,1-Trichloroethane	97		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78	4.552	4.552	0.000	89	679189	30.2	a
57 1,2-Dichloroethane	62		4.625				ND	U
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.392				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	U
73 Toluene	92	6.371	6.365	0.000	97	489914	37.9	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.235				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91	7.898	7.898	0.000	97	38300	1.56	
90 m-Xylene & p-Xylene	106	8.026	8.026	0.000	97	215191	22.2	
91 o-Xylene	106	8.446	8.440	0.006	98	70214	7.24	
92 Styrene	104	8.476	8.476	0.000	91	99329	6.29	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75	11.342	11.354	-0.012	42	6068	3.14	
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1				0		29.4	

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

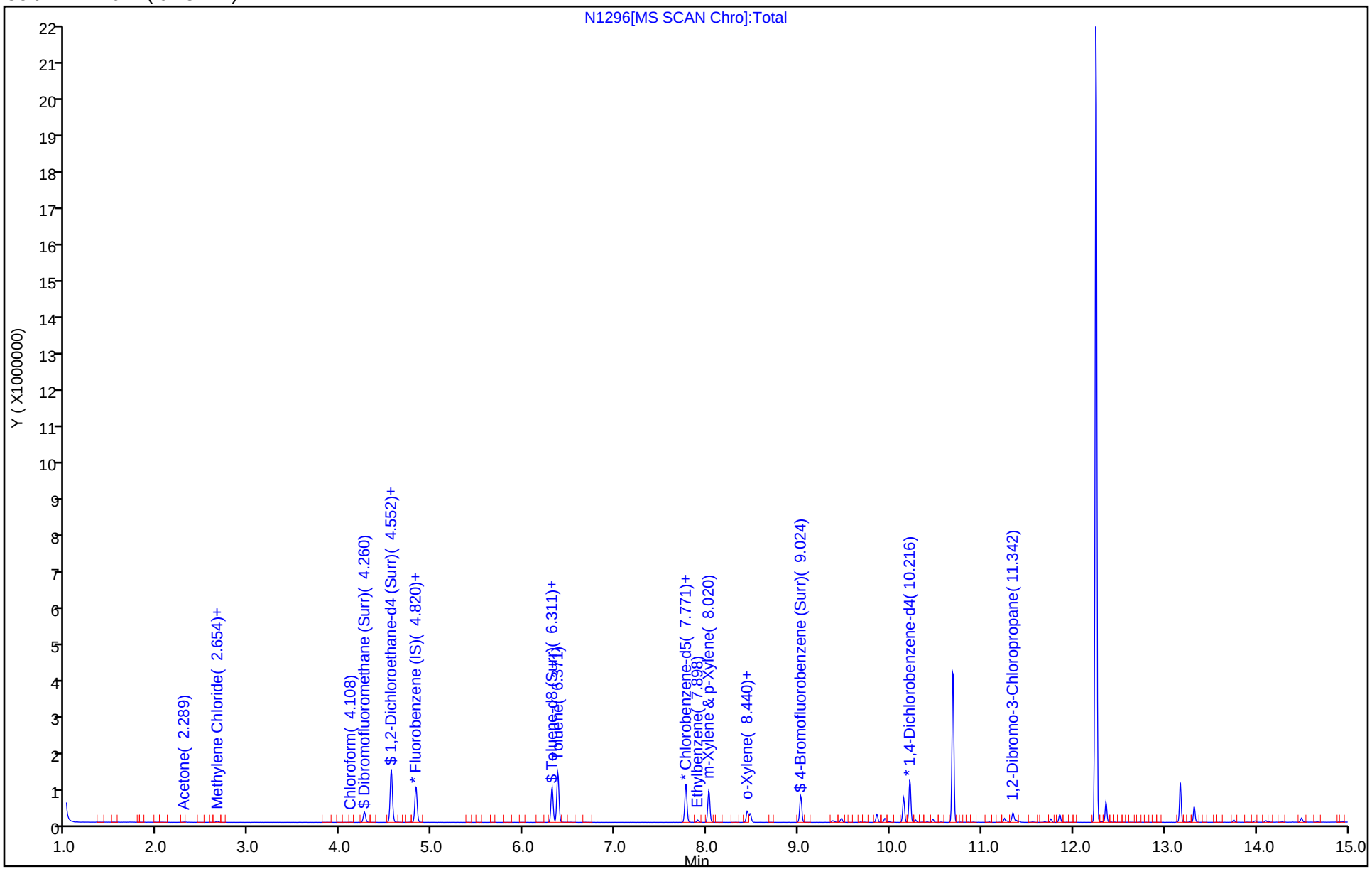
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3	Worklist Smp#:	27
Client ID:	MW-BCP-10A-10242024				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	37
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d
Lims ID: 480-224869-H-3
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 01-Nov-2024 00:29:30 ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 480-224869-H-3
Misc. Info.: 480-0120960-027
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:09:31 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

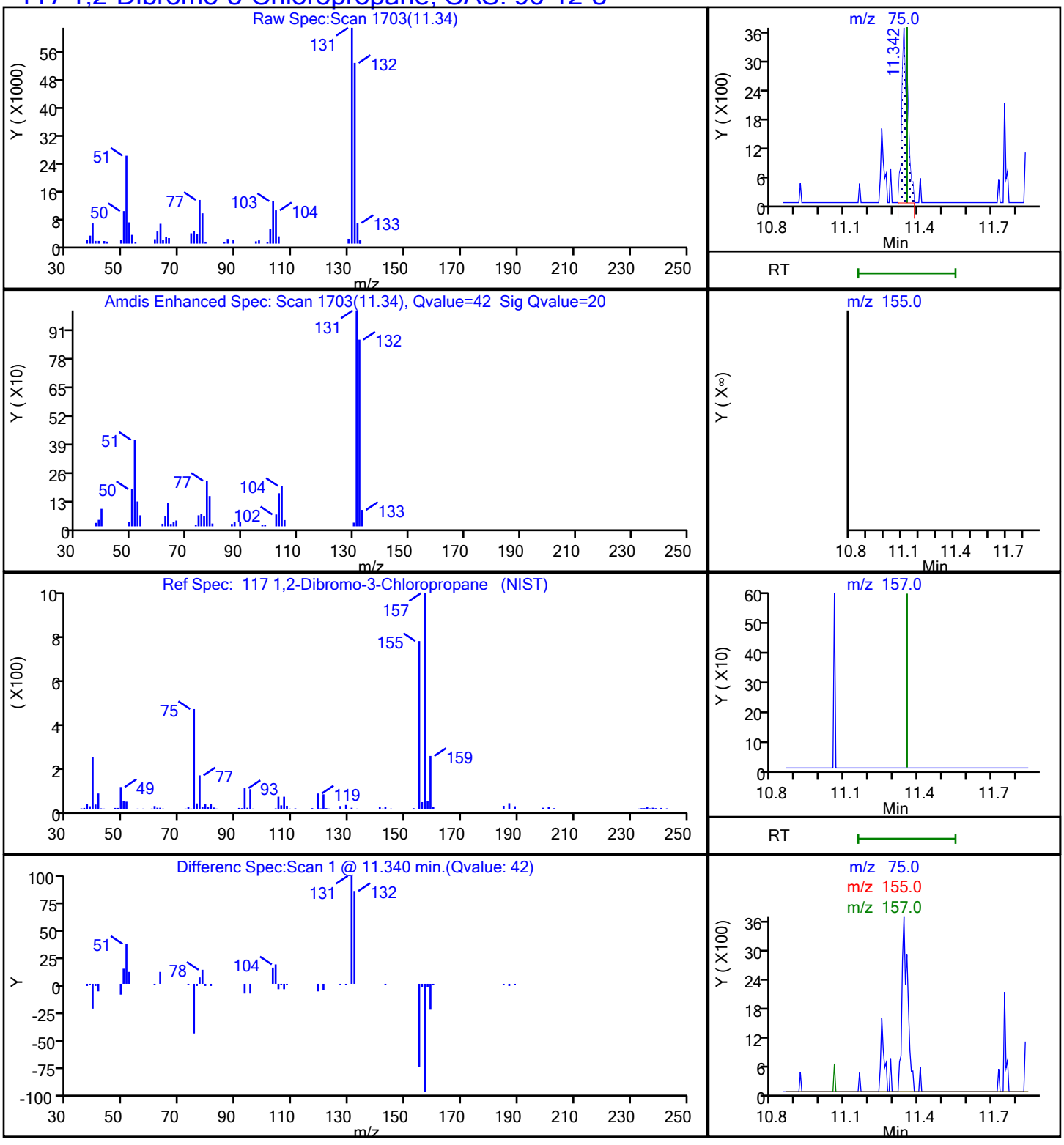
First Level Reviewer: HF3K Date: 01-Nov-2024 10:09:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.4	97.57
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.9	95.46
$ 6 Toluene-d8 (Surr)	25.0	24.7	98.84
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.3	105.21

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d				
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-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



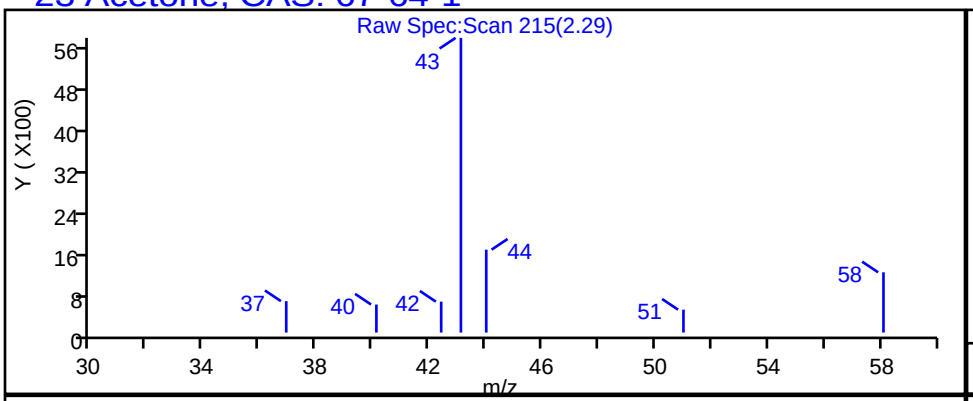
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

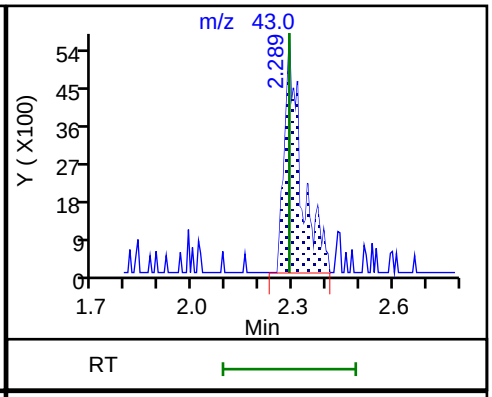
Eurofins Buffalo

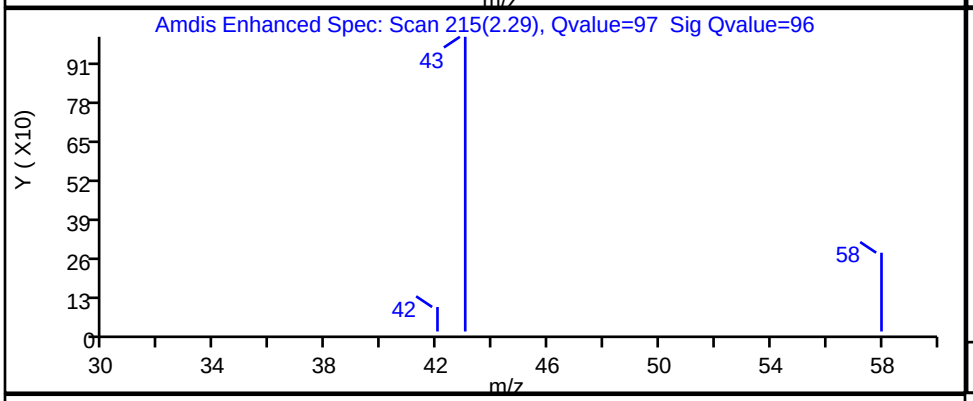
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

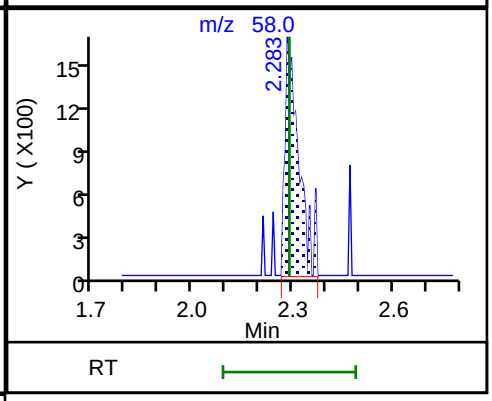
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

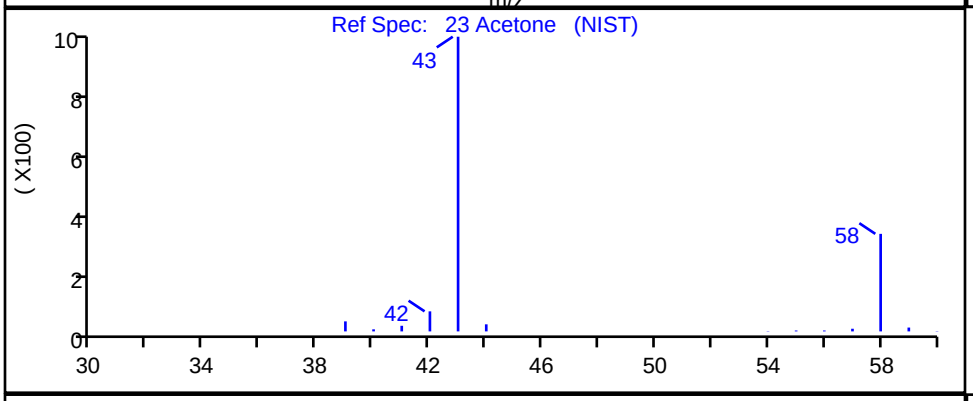
23 Acetone, CAS: 67-64-1

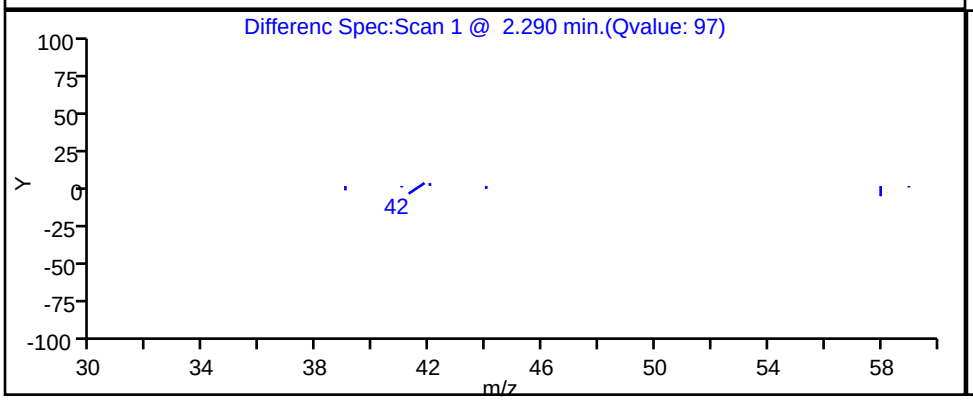


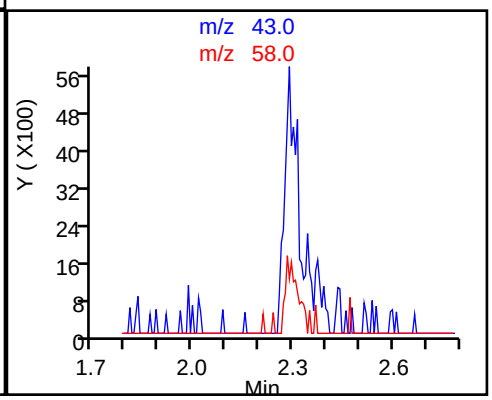












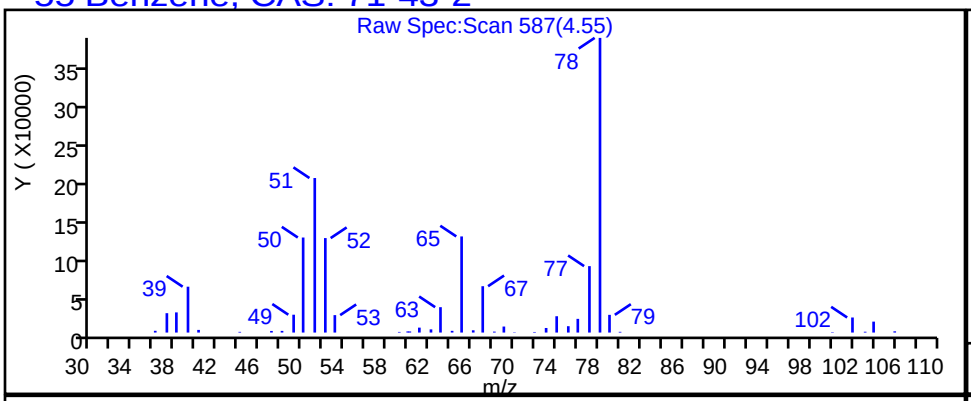
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

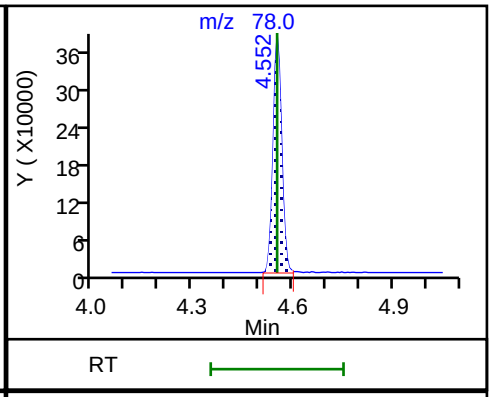
Eurofins Buffalo

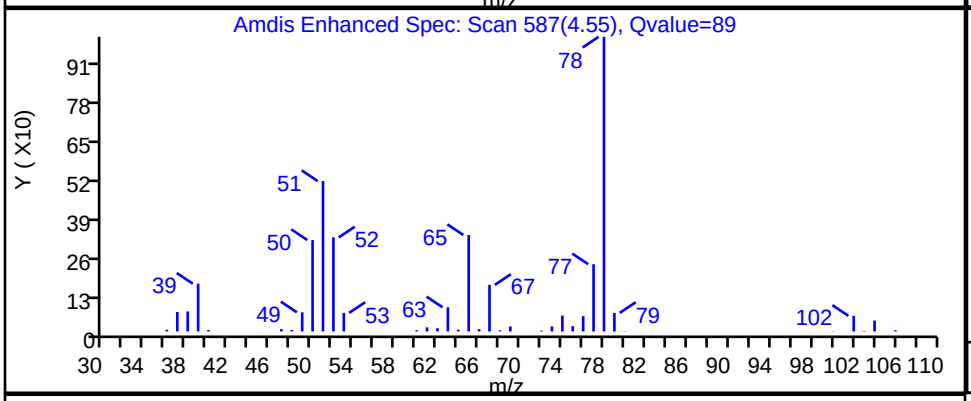
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

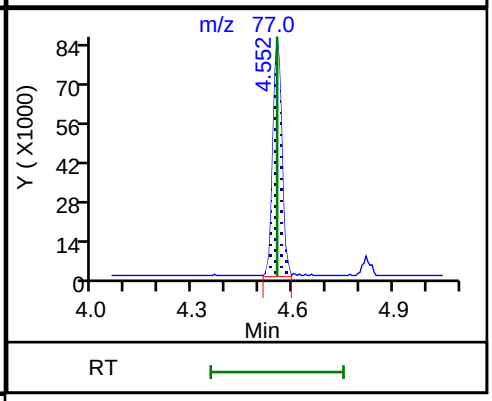
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	37 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

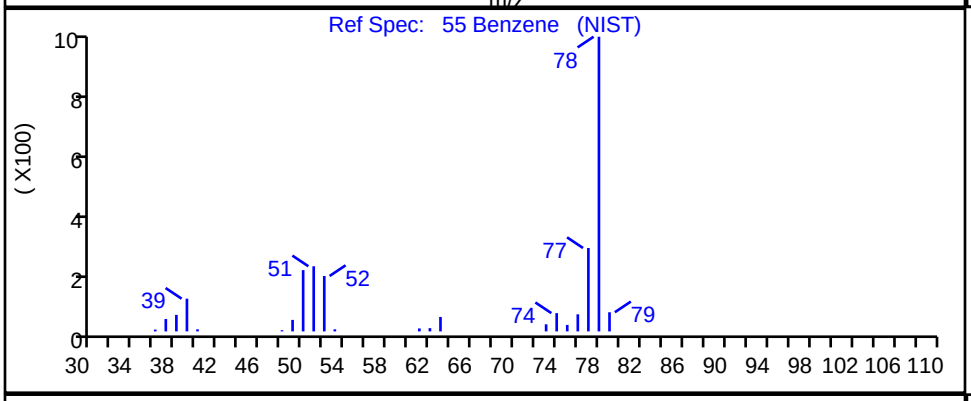
55 Benzene, CAS: 71-43-2

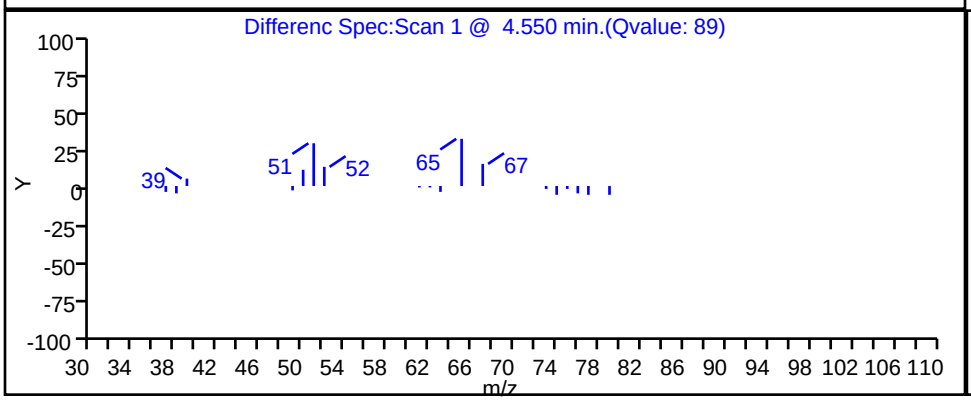


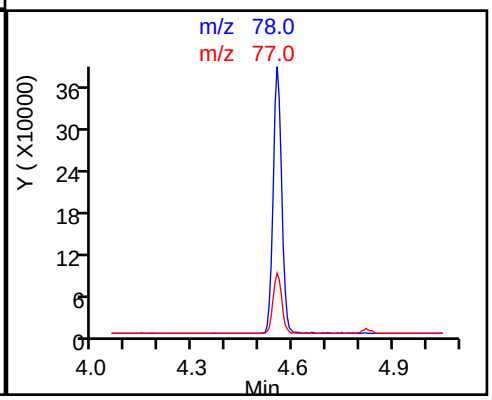










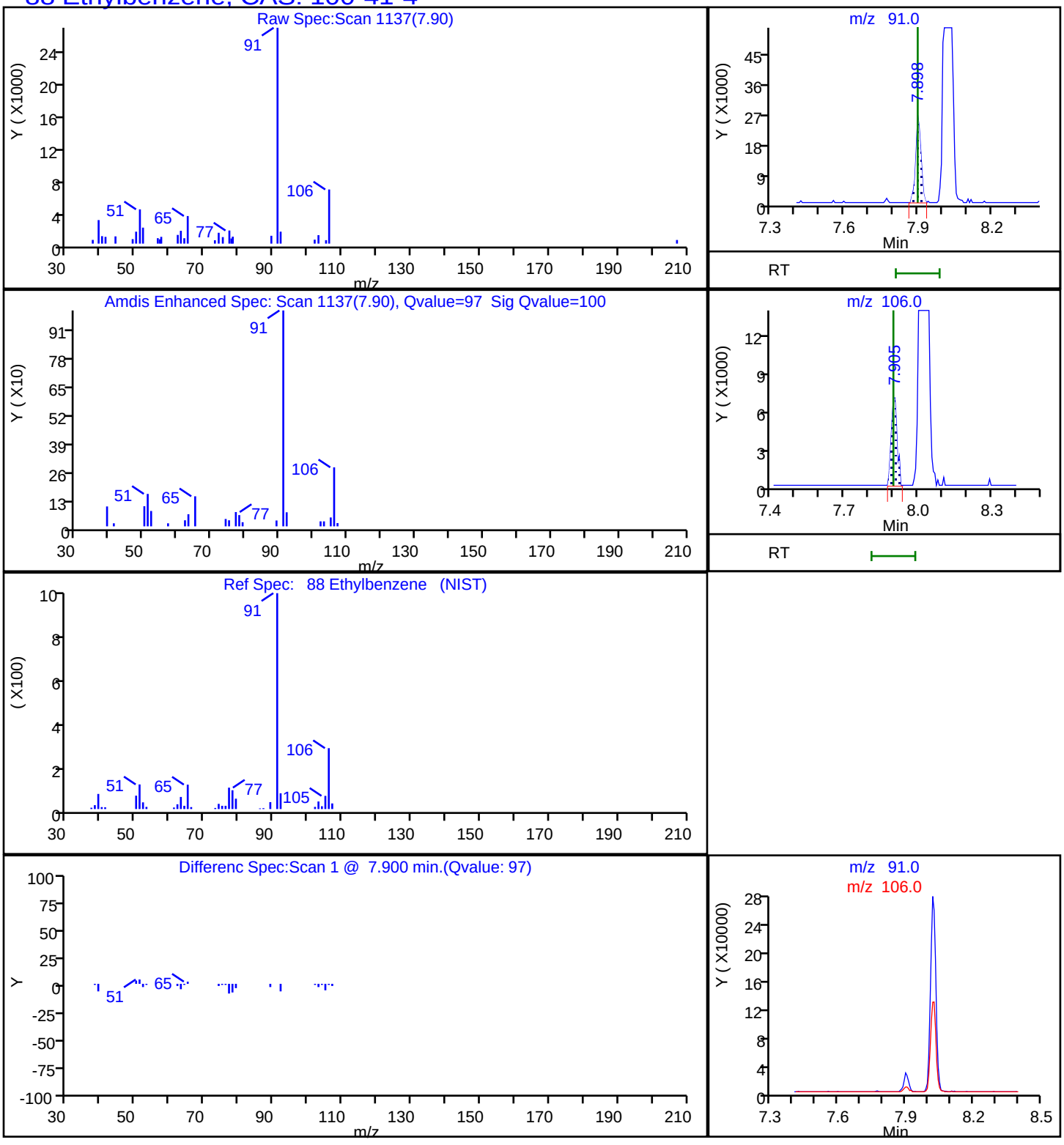


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	37 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

88 Ethylbenzene, CAS: 100-41-4



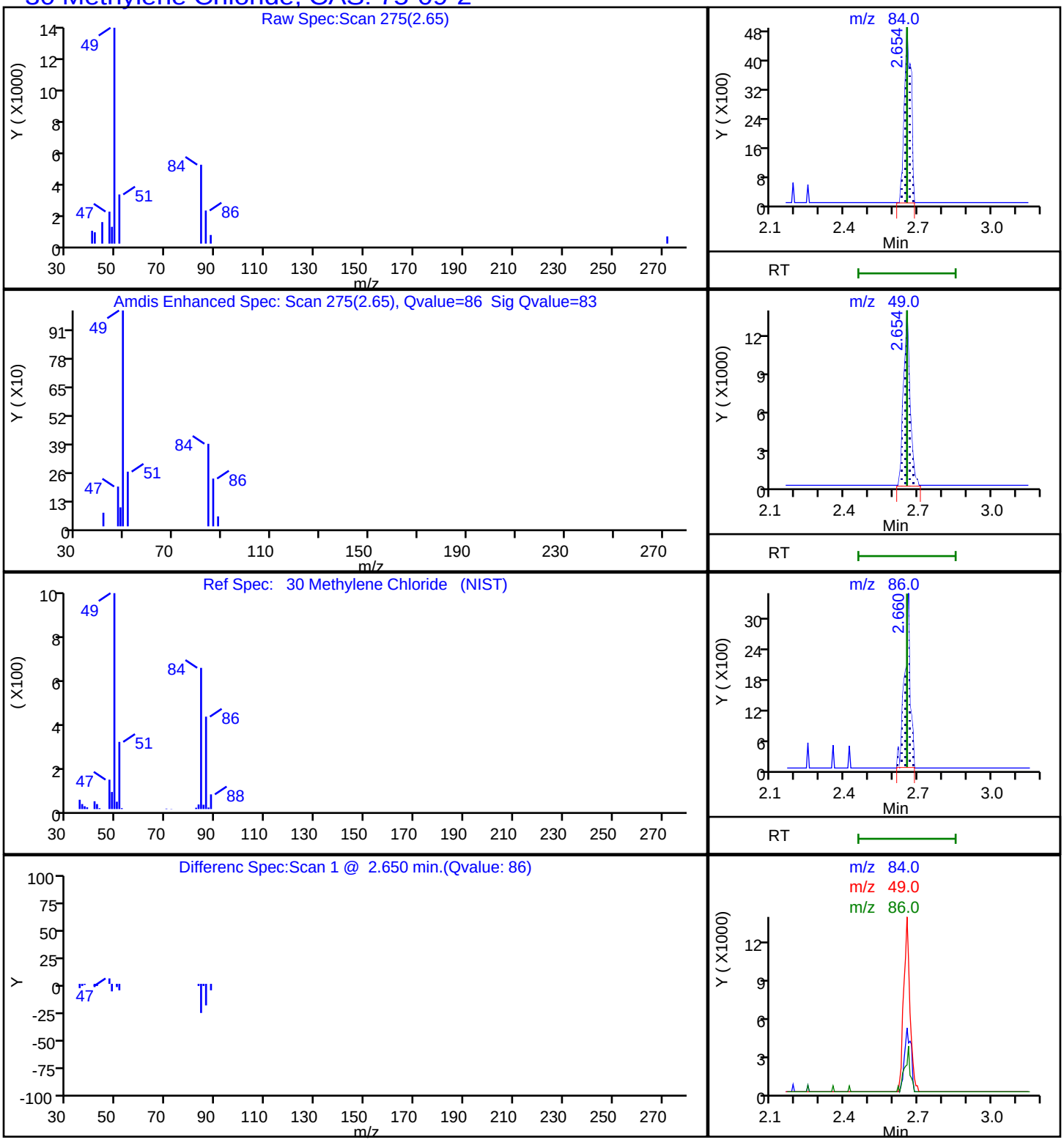
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	37 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



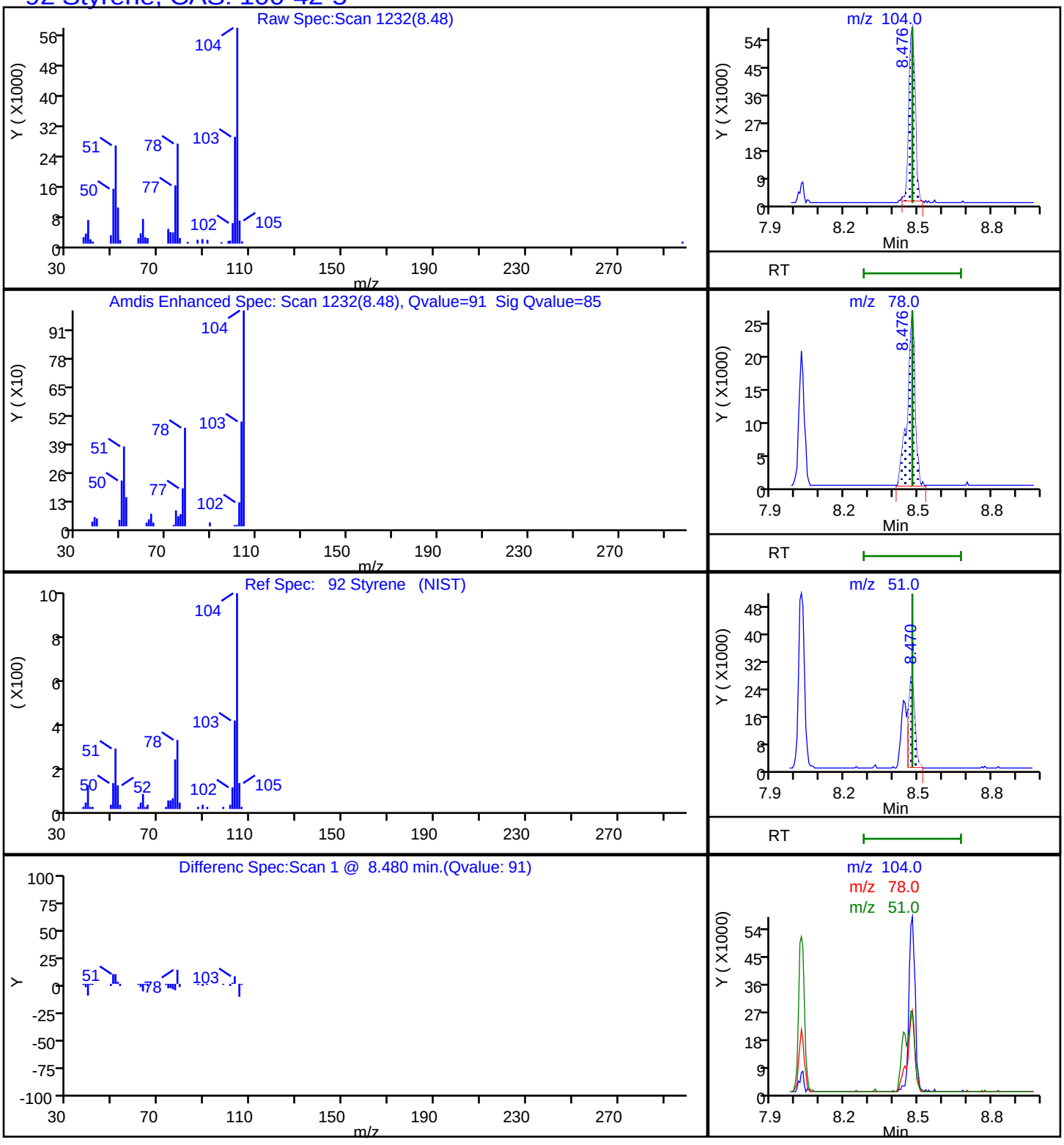
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	37 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

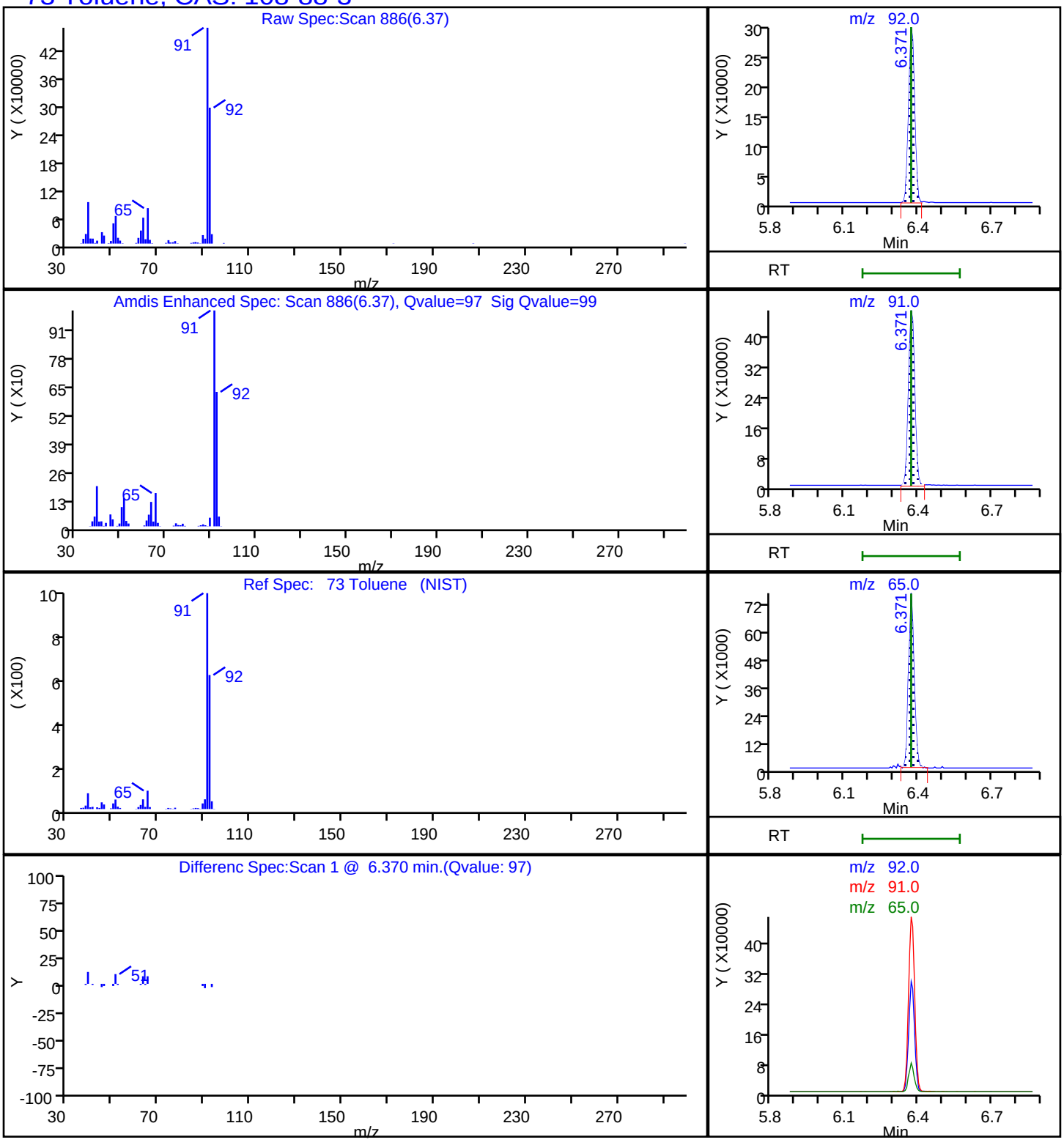
92 Styrene, CAS: 100-42-5



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d
Injection Date: 01-Nov-2024 00:29:30 Instrument ID: HP5973N
Lims ID: 480-224869-H-3 Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: AD ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

73 Toluene, CAS: 108-88-3



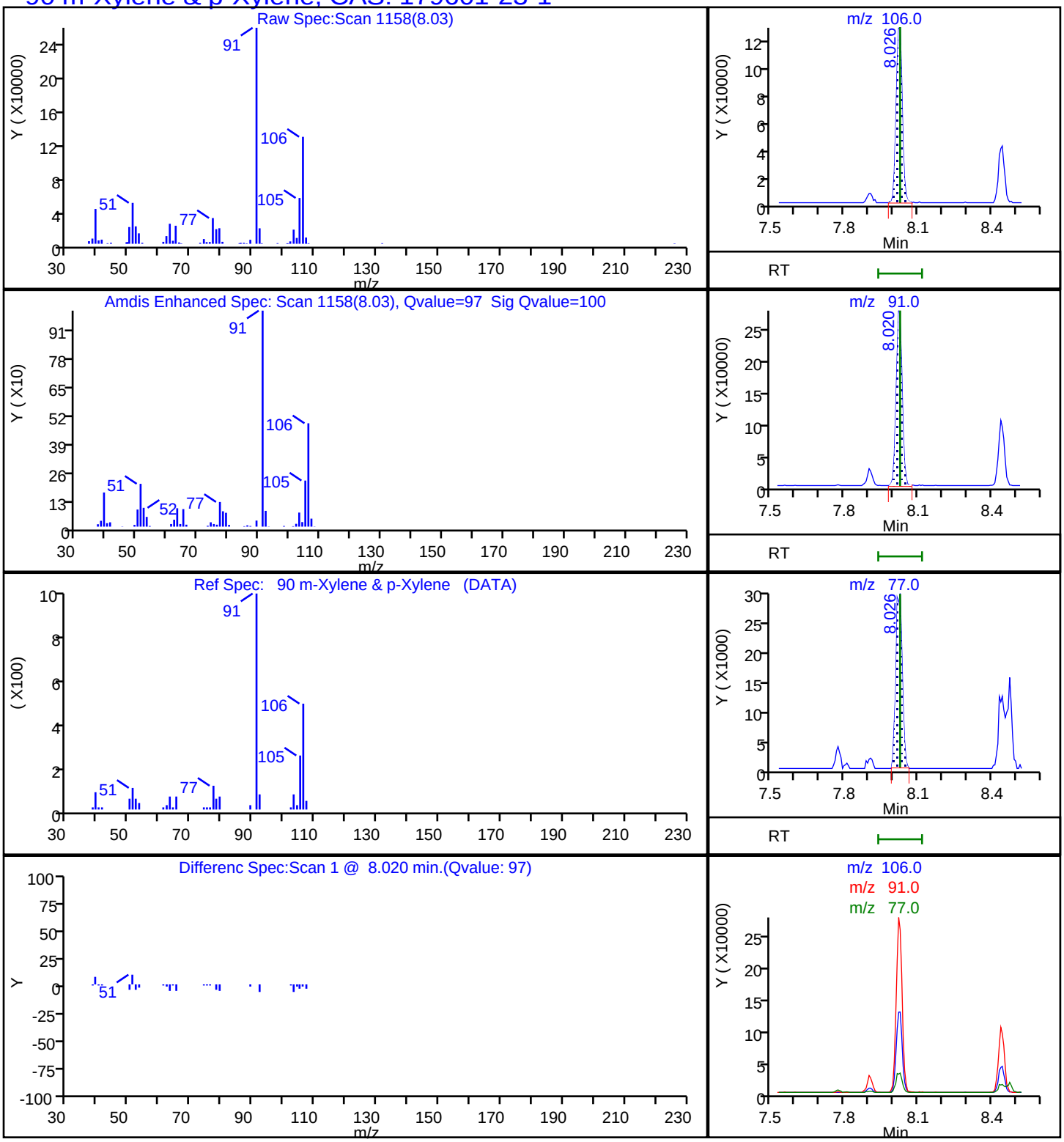
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

90 m-Xylene & p-Xylene, CAS: 179601-23-1



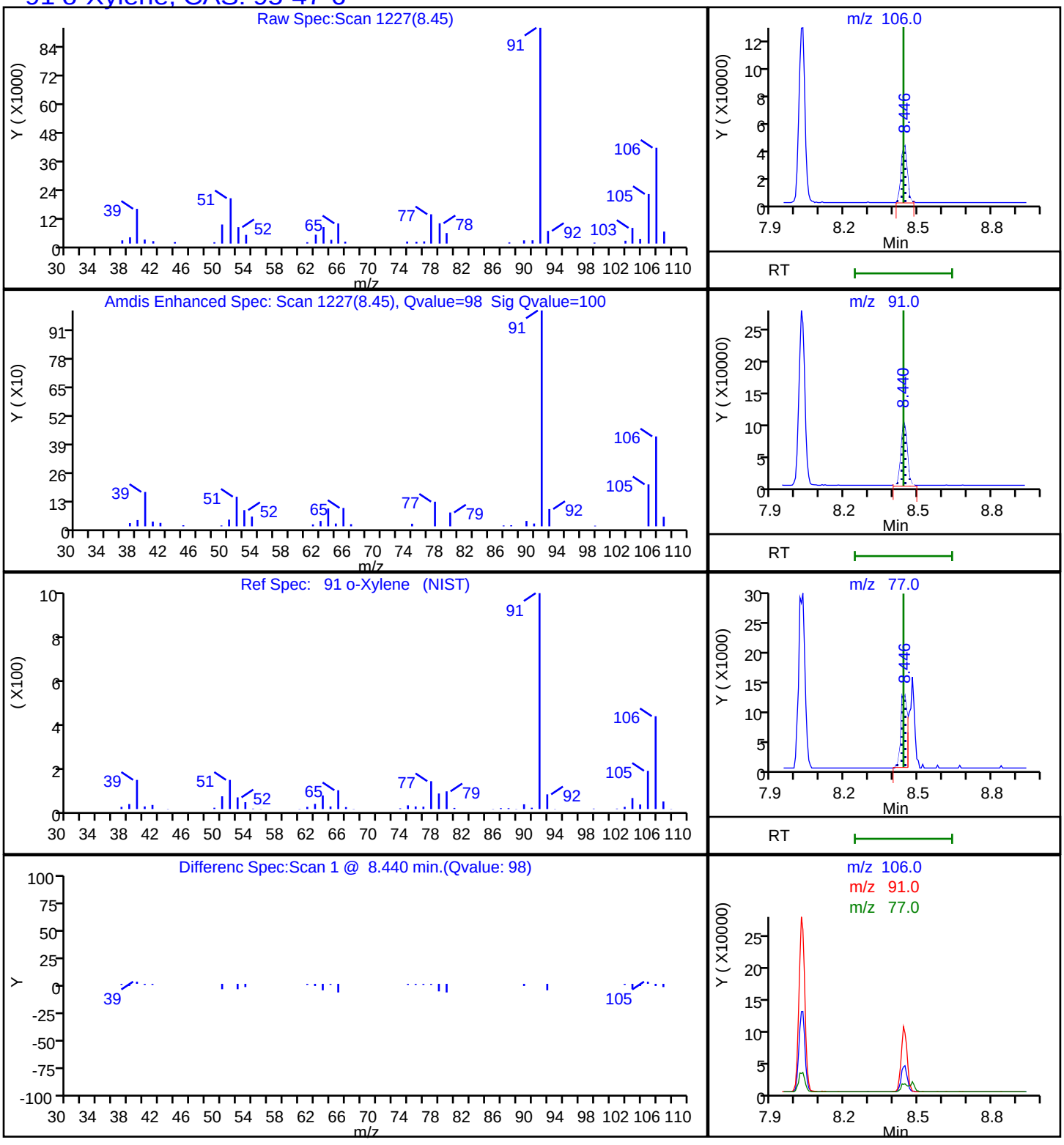
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	37 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

91 o-Xylene, CAS: 95-47-6



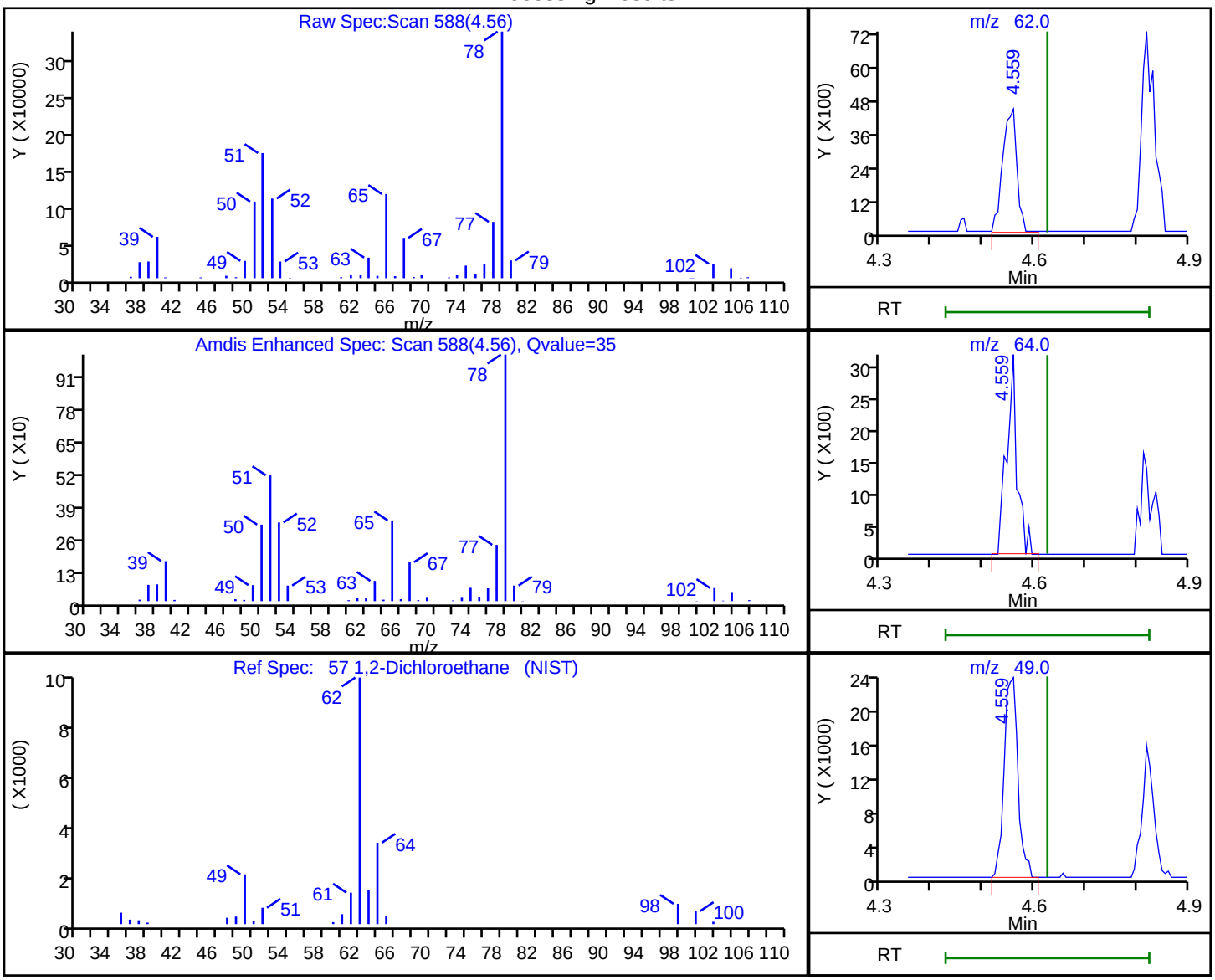
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d				
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.56	62.00	8421	0.729137
4.56	64.00	4514	
4.56	49.00	44569	

Reviewer: HF3K, 01-Nov-2024 10:08:32 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

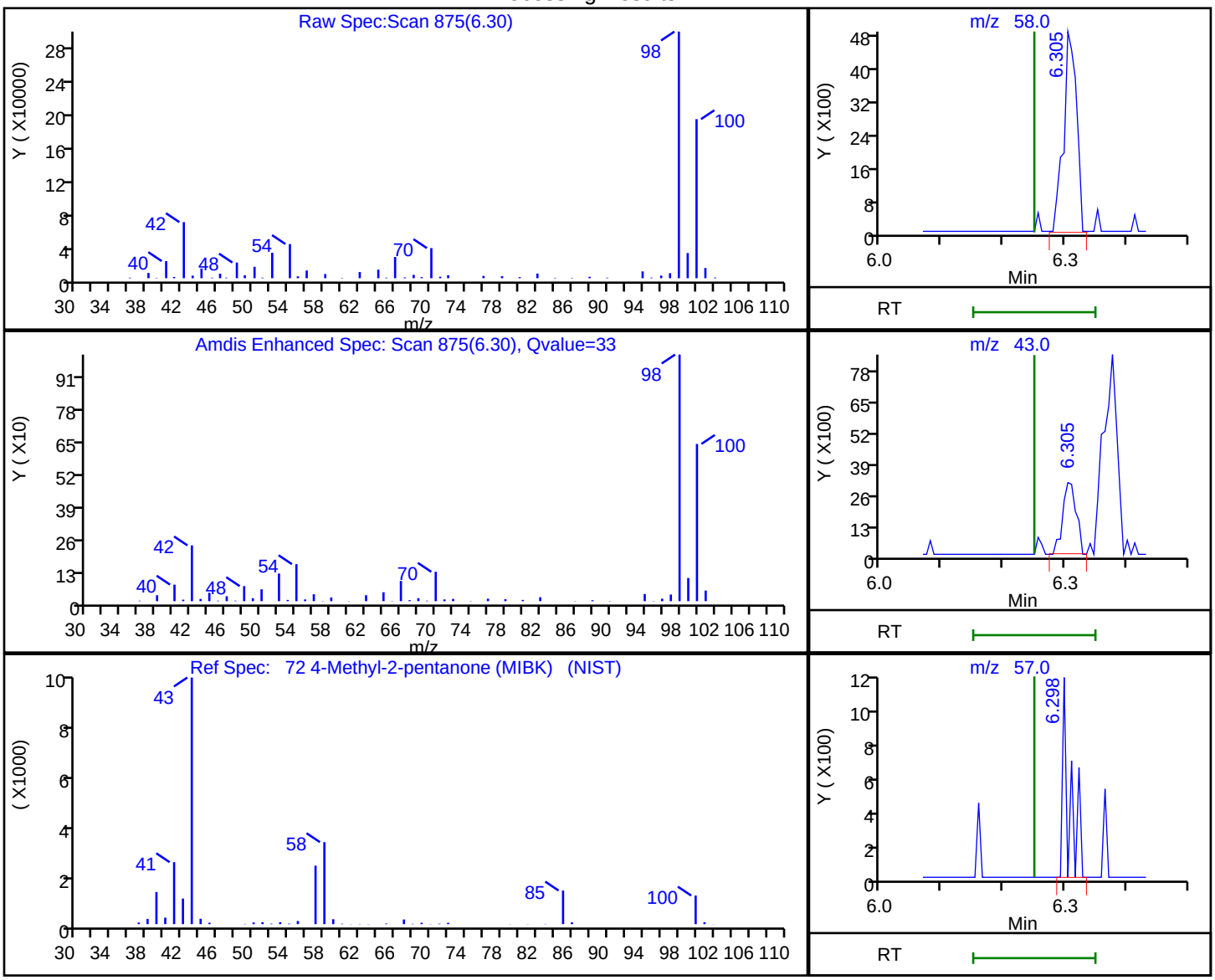
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d				
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.30	58.00	7128	1.369343
6.30	43.00	4678	
6.30	57.00	912	

Reviewer: HF3K, 01-Nov-2024 10:08:59 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

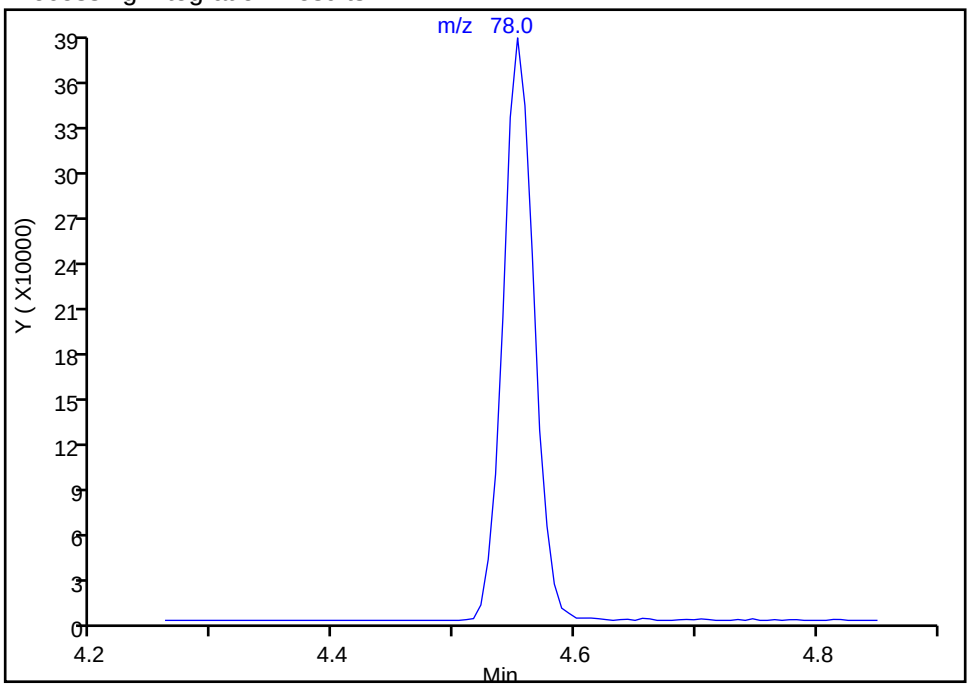
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d				
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2

Signal: 1

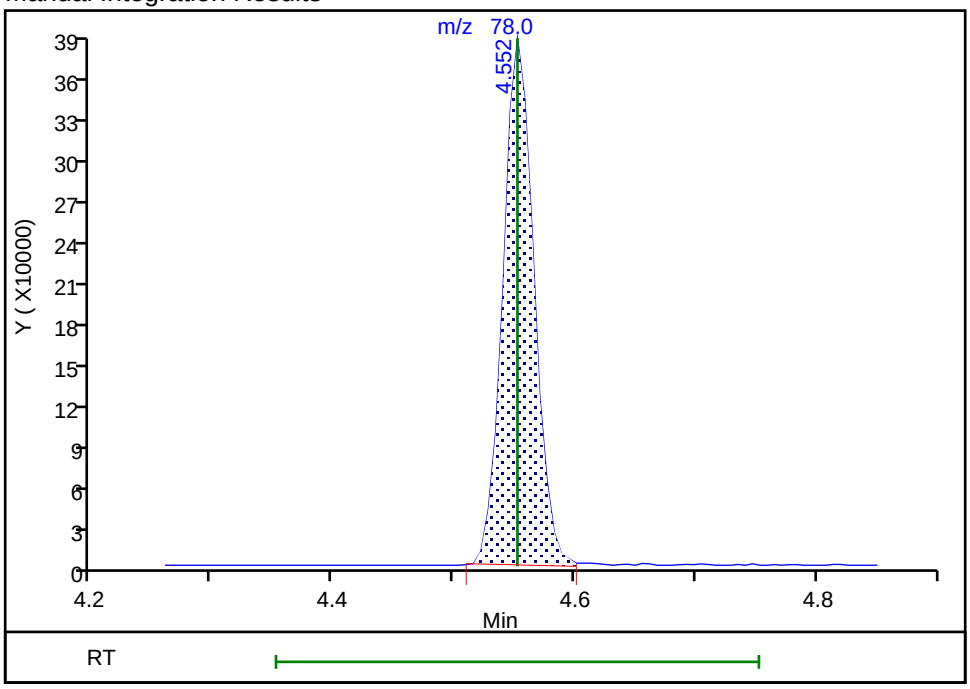
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 679189
Amount: 30.239248
Amount Units: ug/L



Reviewer: HF3K, 01-Nov-2024 10:08:24 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

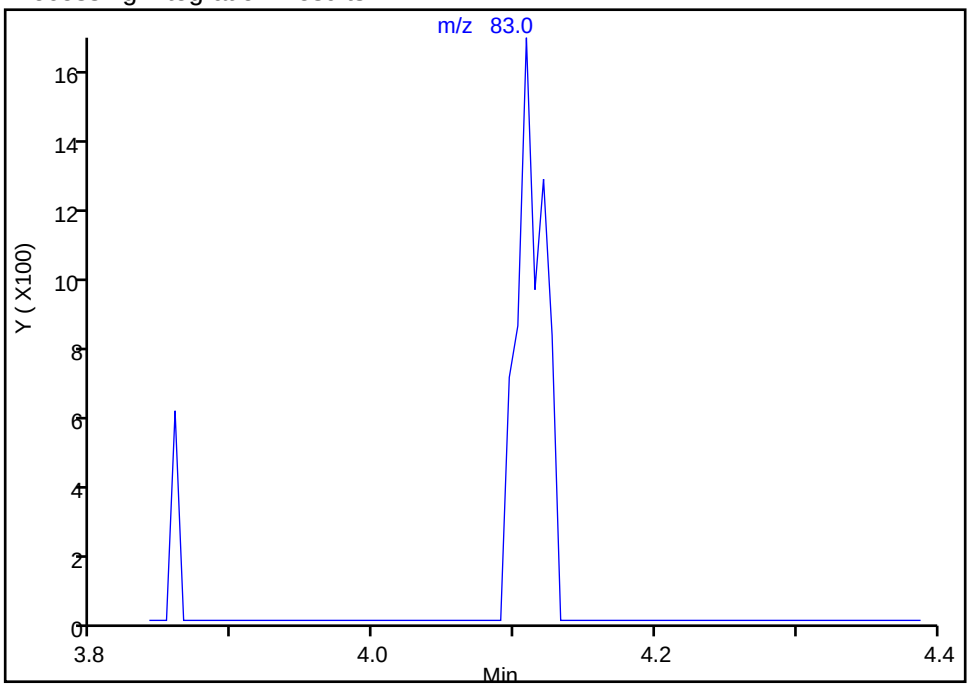
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d				
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3

Signal: 1

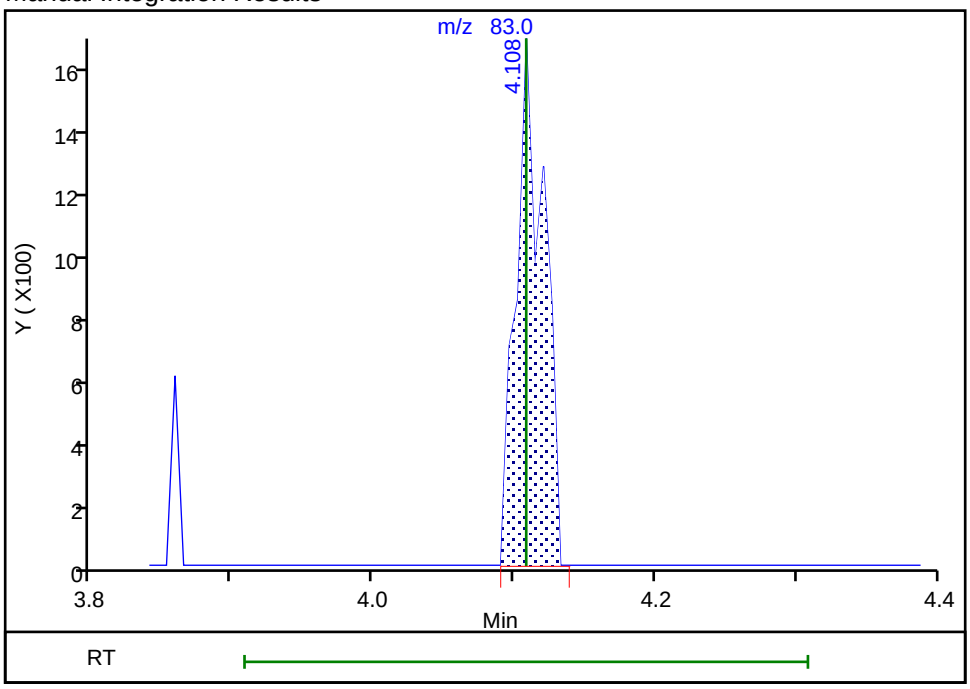
Not Detected
Expected RT: 4.11

Processing Integration Results



Manual Integration Results

RT: 4.11
Area: 2309
Amount: 0.214879
Amount Units: ug/L



Reviewer: HF3K, 01-Nov-2024 10:08:18 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-11A-10242024 | Lab Sample ID: 480-224869-5

Matrix: Water | Lab File ID: N1249.d

Analysis Method: 8260C | Date Collected: 10/24/2024 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 06:01

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-11A-10242024 | Lab Sample ID: 480-224869-5

Matrix: Water | Lab File ID: N1249.d

Analysis Method: 8260C | Date Collected: 10/24/2024 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 06:01

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	94		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d
Lims ID: 480-224869-G-5
Client ID: MW-BCP-11A-10242024
Sample Type: Client
Inject. Date: 31-Oct-2024 06:01:30 ALS Bottle#: 49 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-5
Misc. Info.: 480-0120932-016
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 12:07:39 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 12:07:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	142994	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	-0.001	93	472257	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	263300	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	153195	23.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	97	225611	23.3	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	96	543730	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	86	183236	26.9	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.277	2.277	-0.012	75	5916	1.14	a
25 Carbon disulfide	76		2.350				ND	U
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.660	2.660	0.006	86	3159	0.3849	a
32 Methyl tert-butyl ether	73		2.849				ND	7
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78		4.552				ND	
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	U
73 Toluene	92		6.371				ND	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91		7.898				ND	
90 m-Xylene & p-Xylene	106		8.020				ND	
91 o-Xylene	106		8.440				ND	
92 Styrene	104	8.470	8.470	-0.006	1	716	0.0454	a
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

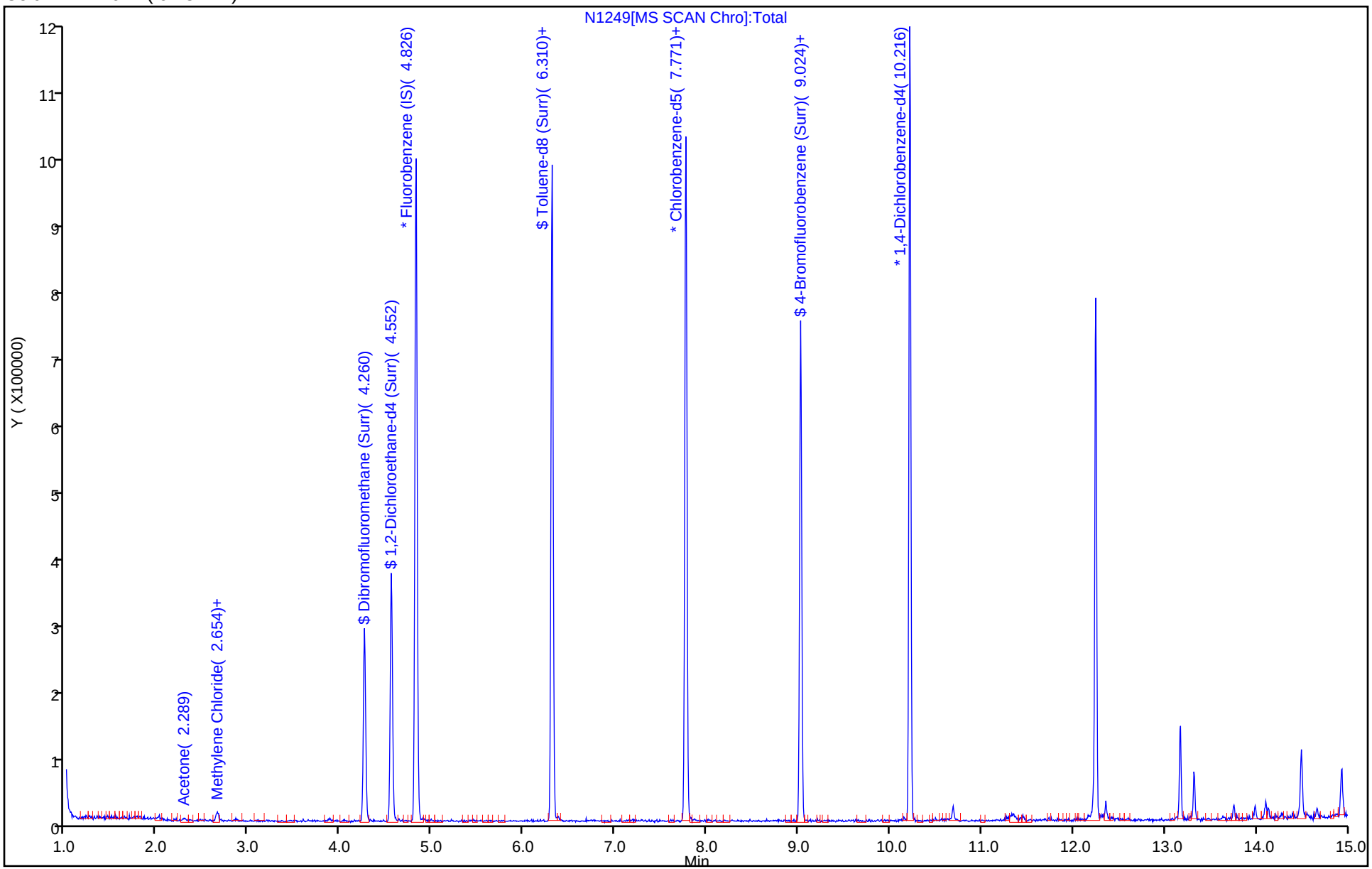
Report Date: 31-Oct-2024 12:07:39 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d

Injection Date:	31-Oct-2024 06:01:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-5	Lab Sample ID:	480-224869-5	Worklist Smp#:	16
Client ID:	MW-BCP-11A-10242024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d
Lims ID: 480-224869-G-5
Client ID: MW-BCP-11A-10242024
Sample Type: Client
Inject. Date: 31-Oct-2024 06:01:30 ALS Bottle#: 49 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-5
Misc. Info.: 480-0120932-016
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 12:07:39 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 12:07:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.6	94.31
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.3	93.36
$ 6 Toluene-d8 (Surr)	25.0	25.2	100.62
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.9	107.51

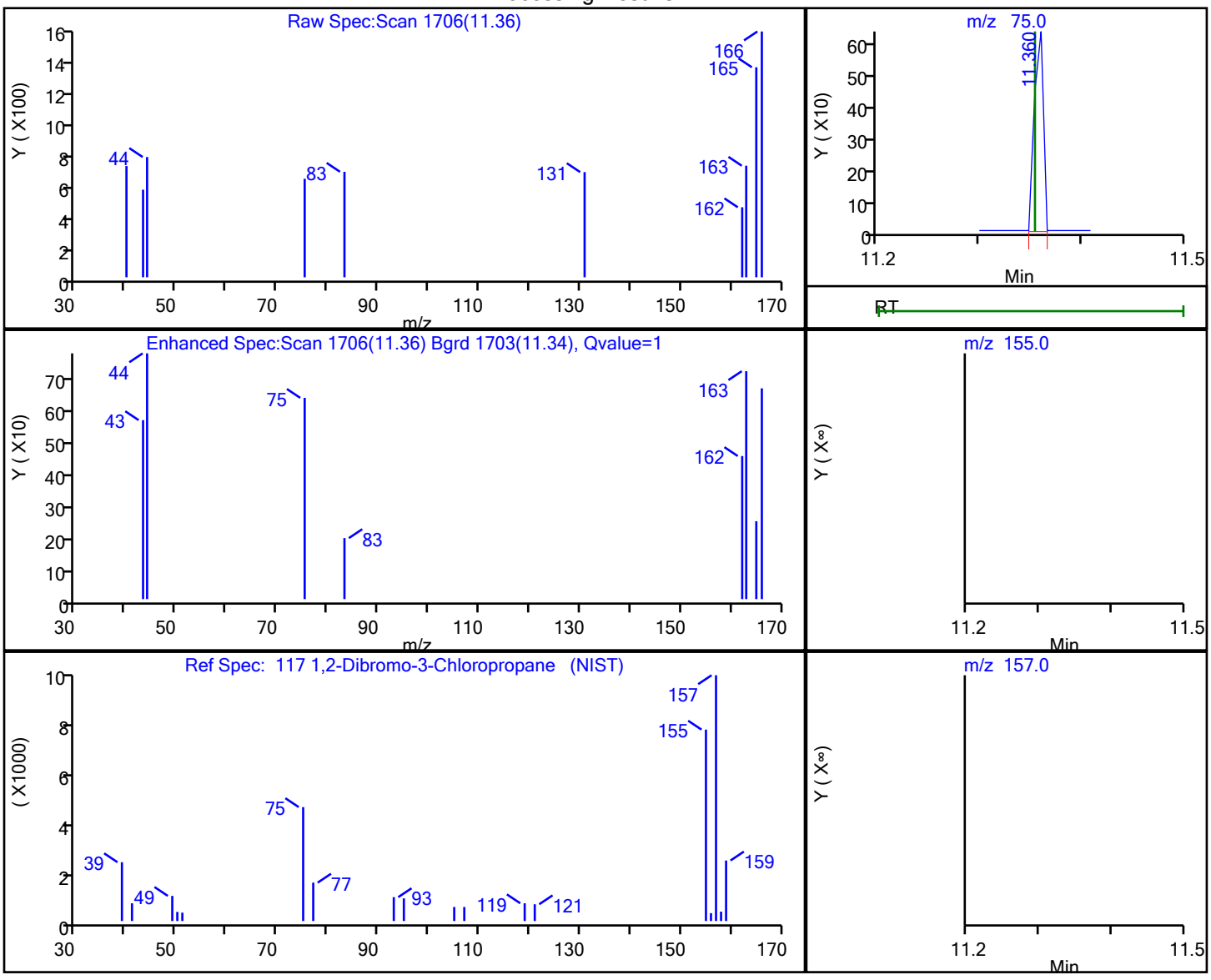
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d				
Injection Date:	31-Oct-2024 06:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-5	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	AD	ALS Bottle#:	49	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-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
11.36	75.00	393	0.213440
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 12:07:33 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

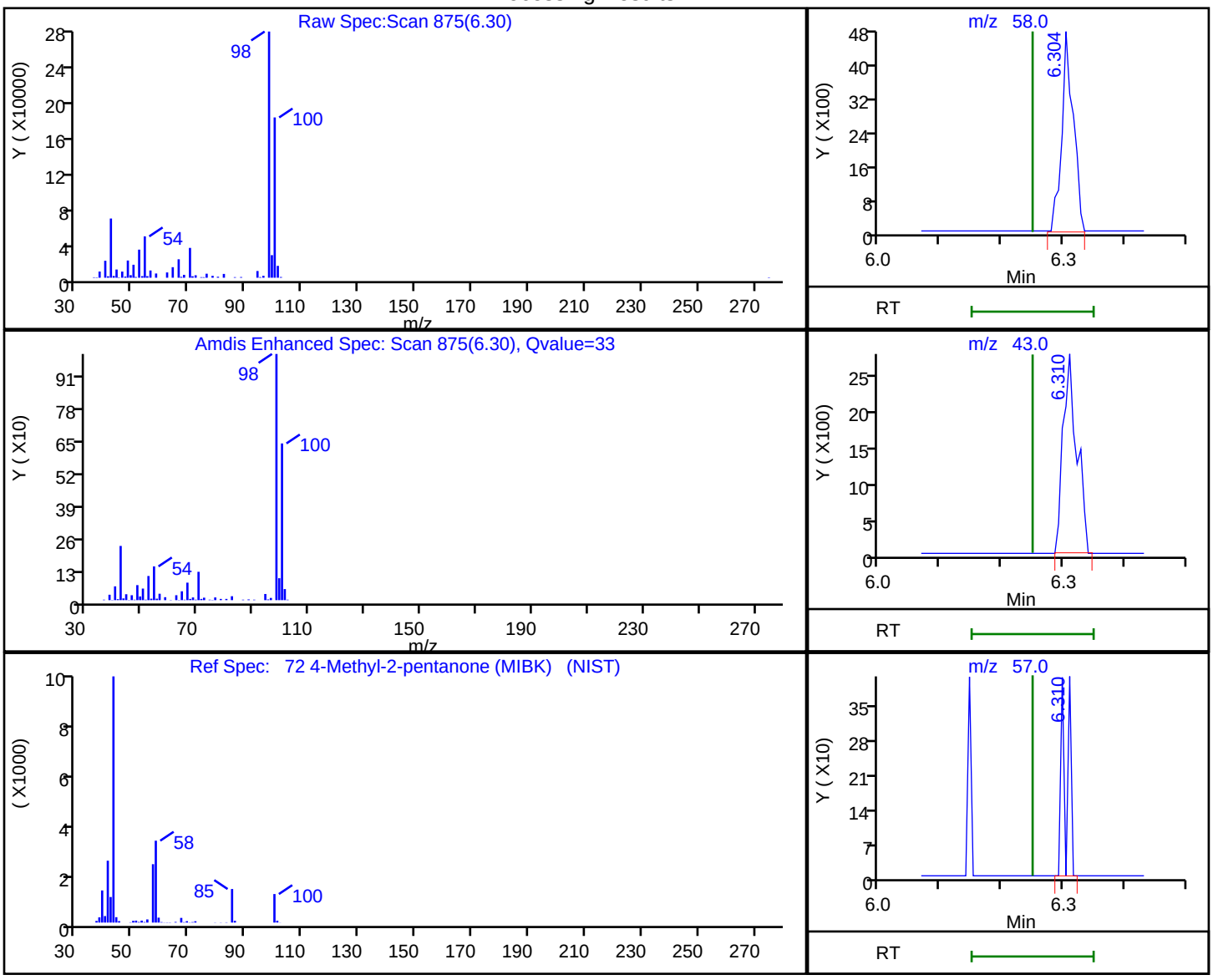
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d				
Injection Date:	31-Oct-2024 06:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-5	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	AD	ALS Bottle#:	49	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.30	58.00	6296	1.211643
6.31	43.00	4309	
6.31	57.00	293	

Reviewer: HF3K, 31-Oct-2024 12:07:08 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

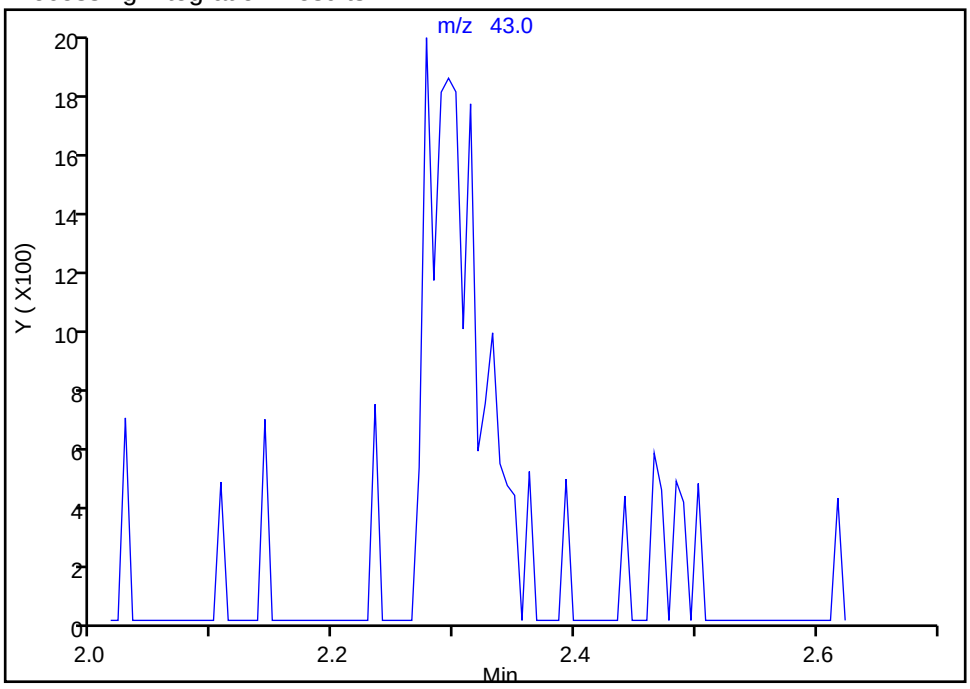
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d				
Injection Date:	31-Oct-2024 06:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-5	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	AD	ALS Bottle#:	49	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

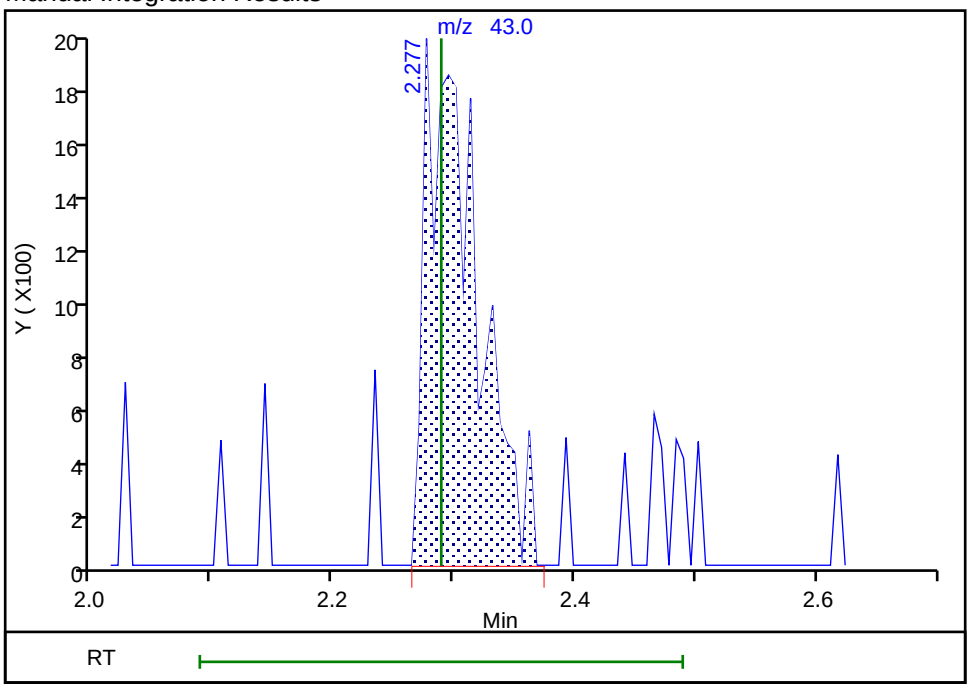
Not Detected
Expected RT: 2.29

Processing Integration Results



Manual Integration Results

RT: 2.28
Area: 5916
Amount: 1.140439
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:06:45 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

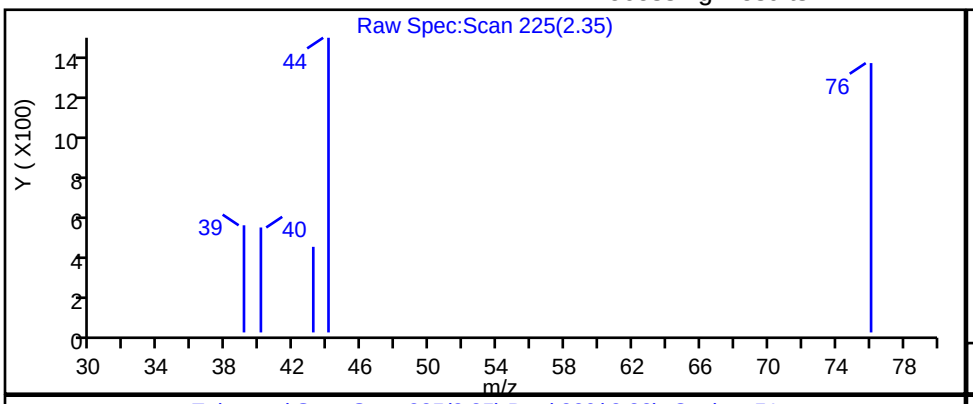
User Disabled Compound Report

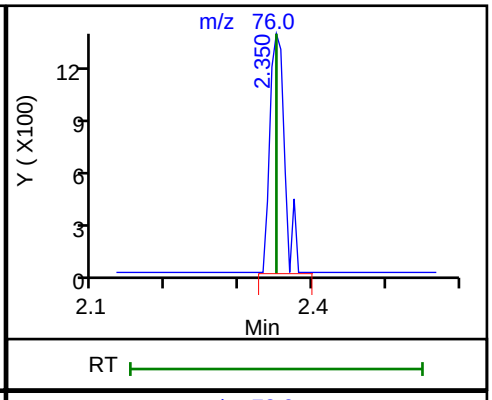
Eurofins Buffalo

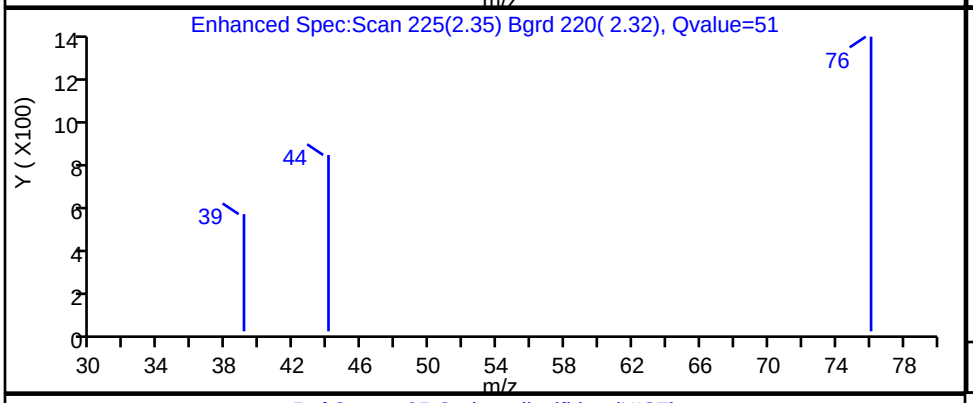
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d
Injection Date: 31-Oct-2024 06:01:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-5 Lab Sample ID: 480-224869-5
Client ID: MW-BCP-11A-10242024
Operator ID: AD ALS Bottle#: 49 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

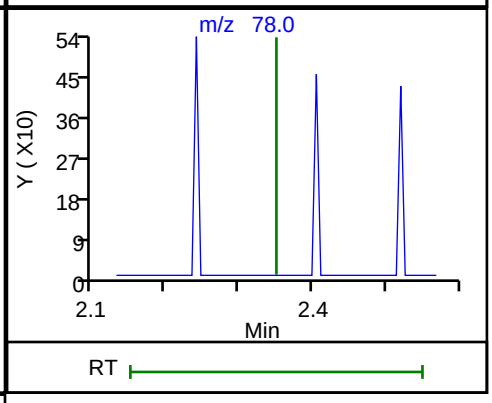
25 Carbon disulfide, CAS: 75-15-0

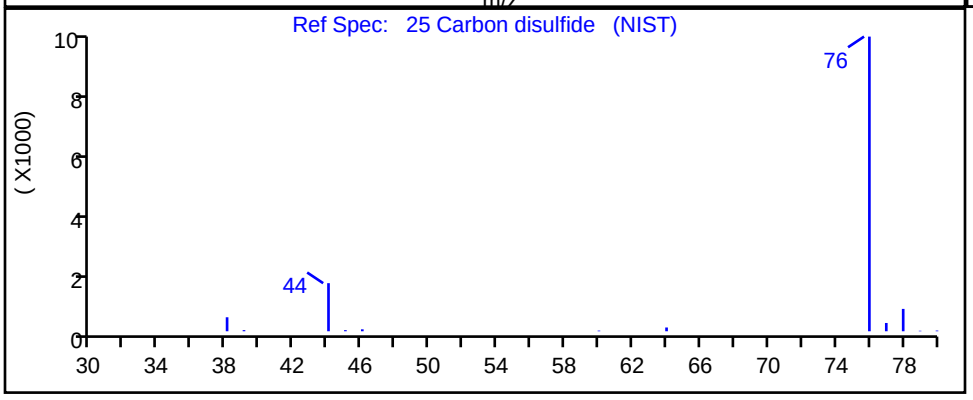
Processing Results











RT	Mass	Response	Amount
2.35	76.00	1883	0.106632
2.35	78.00	0	

Reviewer: HF3K, 31-Oct-2024 12:06:48 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

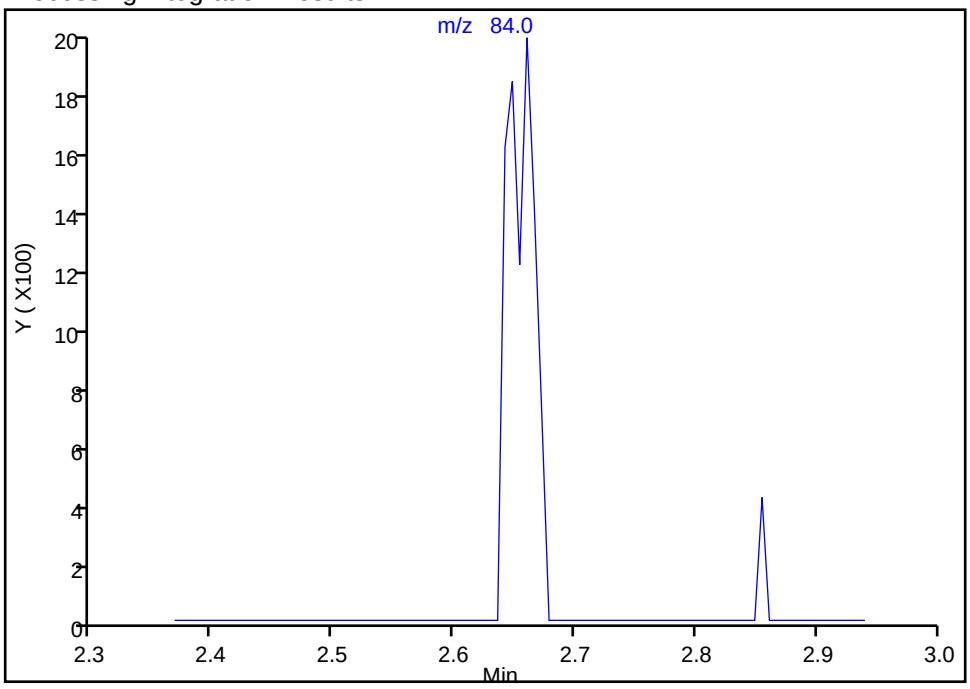
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d				
Injection Date:	31-Oct-2024 06:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-5	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	AD	ALS Bottle#:	49	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

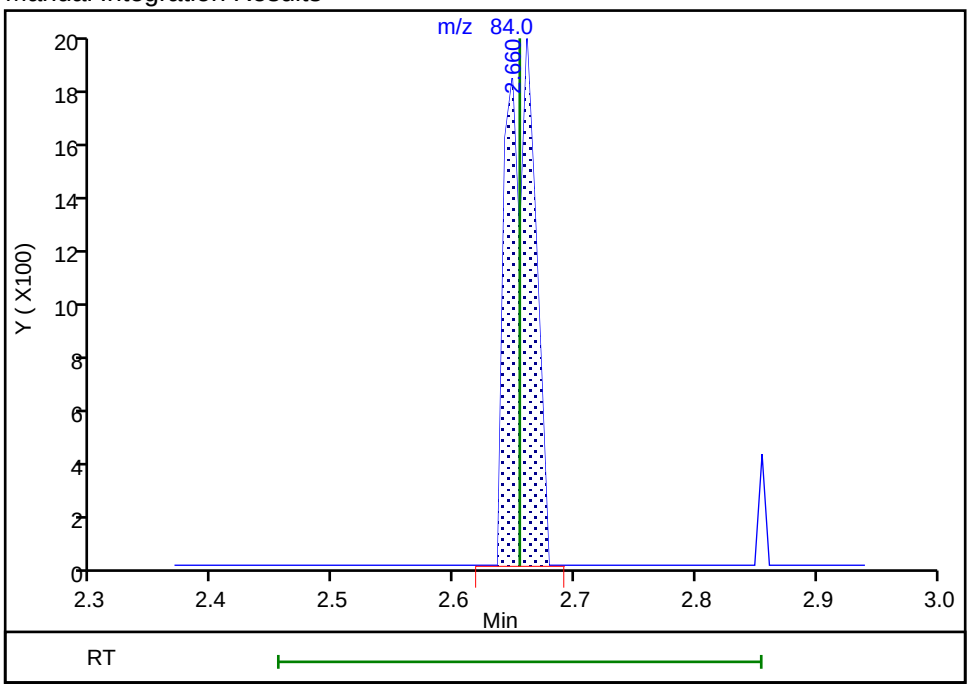
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.66
Area: 3159
Amount: 0.384885
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:06:54 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

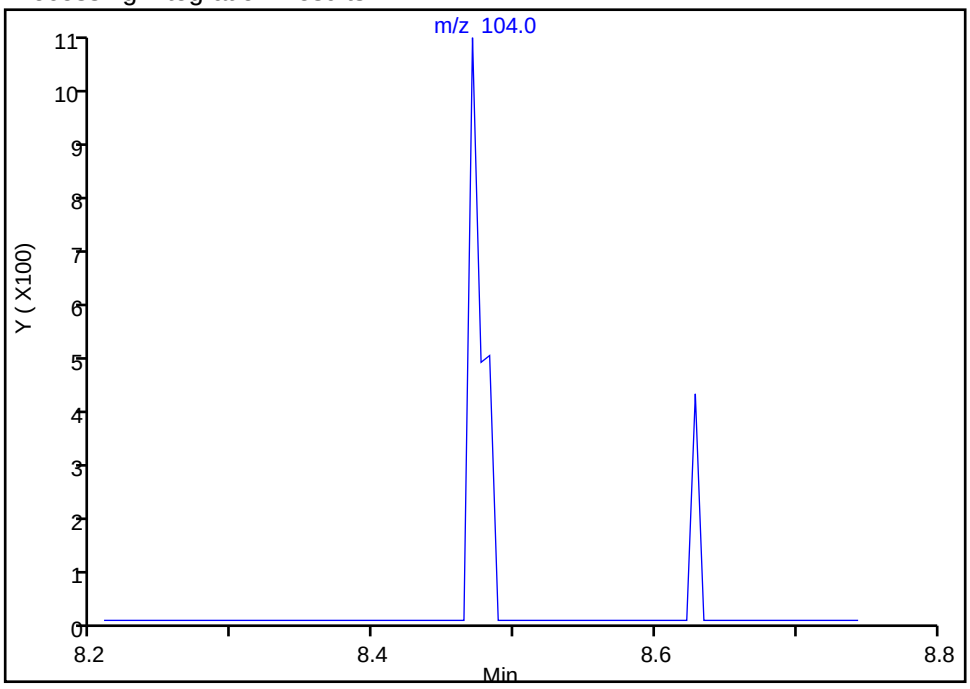
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d				
Injection Date:	31-Oct-2024 06:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-5	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	AD	ALS Bottle#:	49	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

92 Styrene, CAS: 100-42-5

Signal: 1

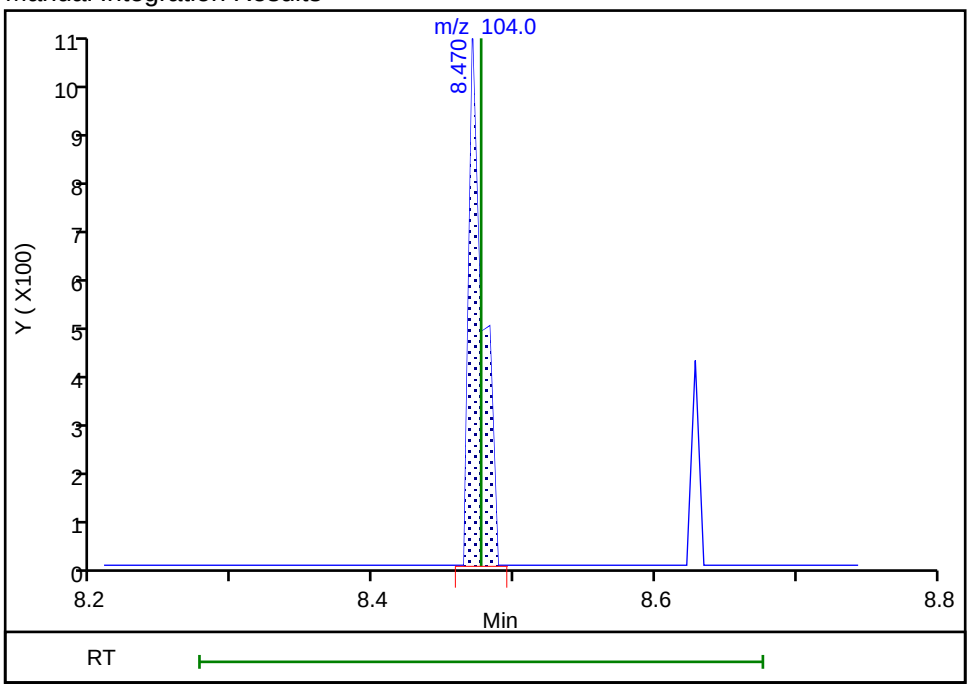
Not Detected
Expected RT: 8.48

Processing Integration Results



Manual Integration Results

RT: 8.47
Area: 716
Amount: 0.045406
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:07:26 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-12A-10242024 | Lab Sample ID: 480-224869-7

Matrix: Water | Lab File ID: N1250.d

Analysis Method: 8260C | Date Collected: 10/24/2024 03:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 06:23

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-12A-10242024 | Lab Sample ID: 480-224869-7

Matrix: Water | Lab File ID: N1250.d

Analysis Method: 8260C | Date Collected: 10/24/2024 03:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 06:23

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.49	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

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

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d
Lims ID: 480-224869-G-7
Client ID: MW-BCP-12A-10242024
Sample Type: Client
Inject. Date: 31-Oct-2024 06:23:30 ALS Bottle#: 50 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-7
Misc. Info.: 480-0120932-017
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:51:36 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:51:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	98	141237	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	460971	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	258864	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	93	150504	23.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	223364	23.4	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	96	523943	24.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	179750	27.0	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.283	2.283	-0.006	82	10212	1.99	a
25 Carbon disulfide	76		2.350				ND	U
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.660	2.660	0.006	86	3757	0.4941	a
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	7
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	1	462	0.0724	7a
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78		4.552				ND	
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	
73 Toluene	92		6.371				ND	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91		7.898				ND	
90 m-Xylene & p-Xylene	106		8.020				ND	
91 o-Xylene	106		8.440				ND	
92 Styrene	104		8.476				ND	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	7
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

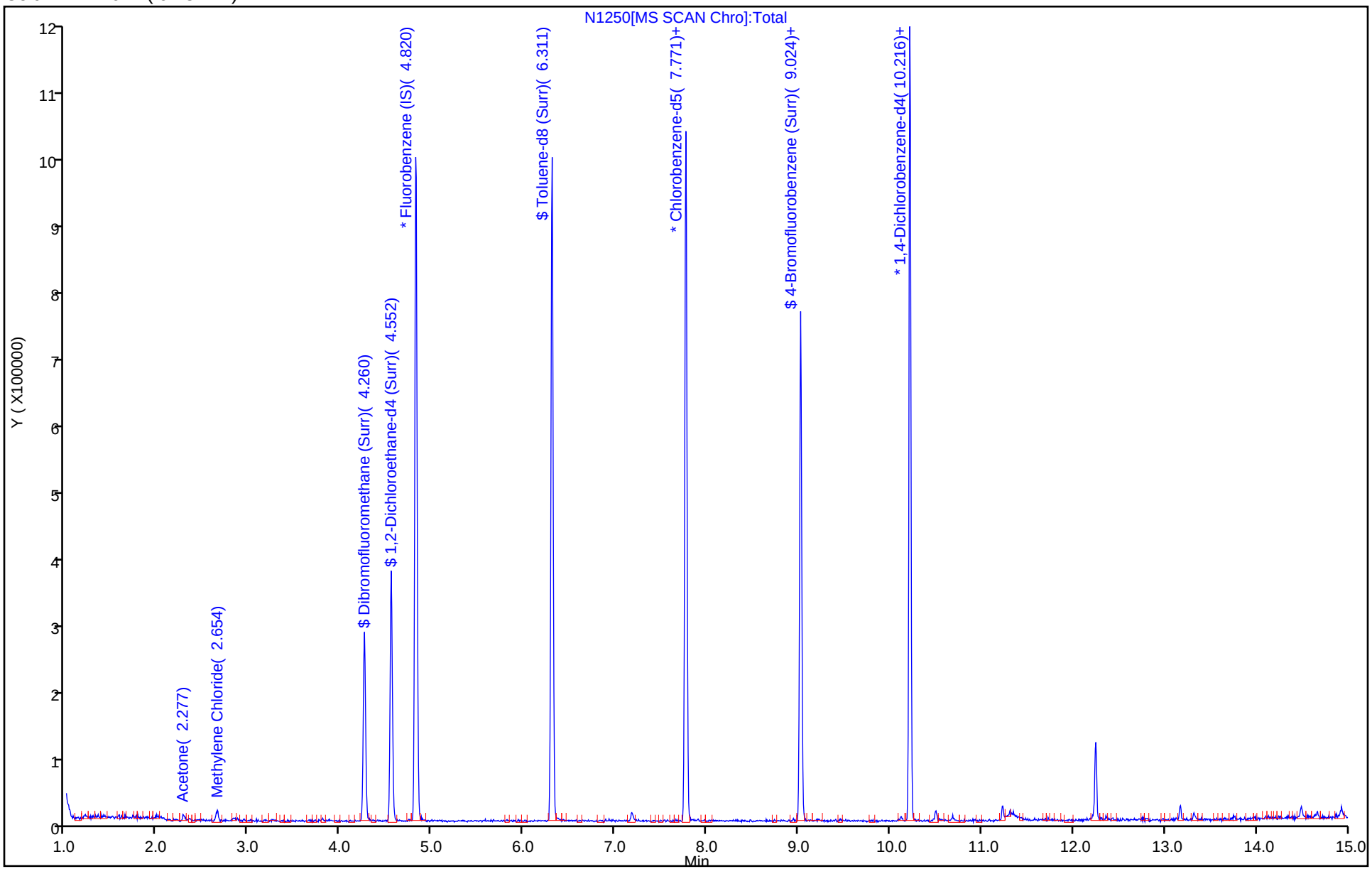
Report Date: 31-Oct-2024 15:51:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d

Injection Date:	31-Oct-2024 06:23:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-7	Lab Sample ID:	480-224869-7	Worklist Smp#:	17
Client ID:	MW-BCP-12A-10242024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	50
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



11/04/2024

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d
Lims ID: 480-224869-G-7
Client ID: MW-BCP-12A-10242024
Sample Type: Client
Inject. Date: 31-Oct-2024 06:23:30 ALS Bottle#: 50 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-7
Misc. Info.: 480-0120932-017
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:51:36 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:51:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.5	93.81
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.4	93.58
$ 6 Toluene-d8 (Surr)	25.0	24.8	99.33
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.0	108.05

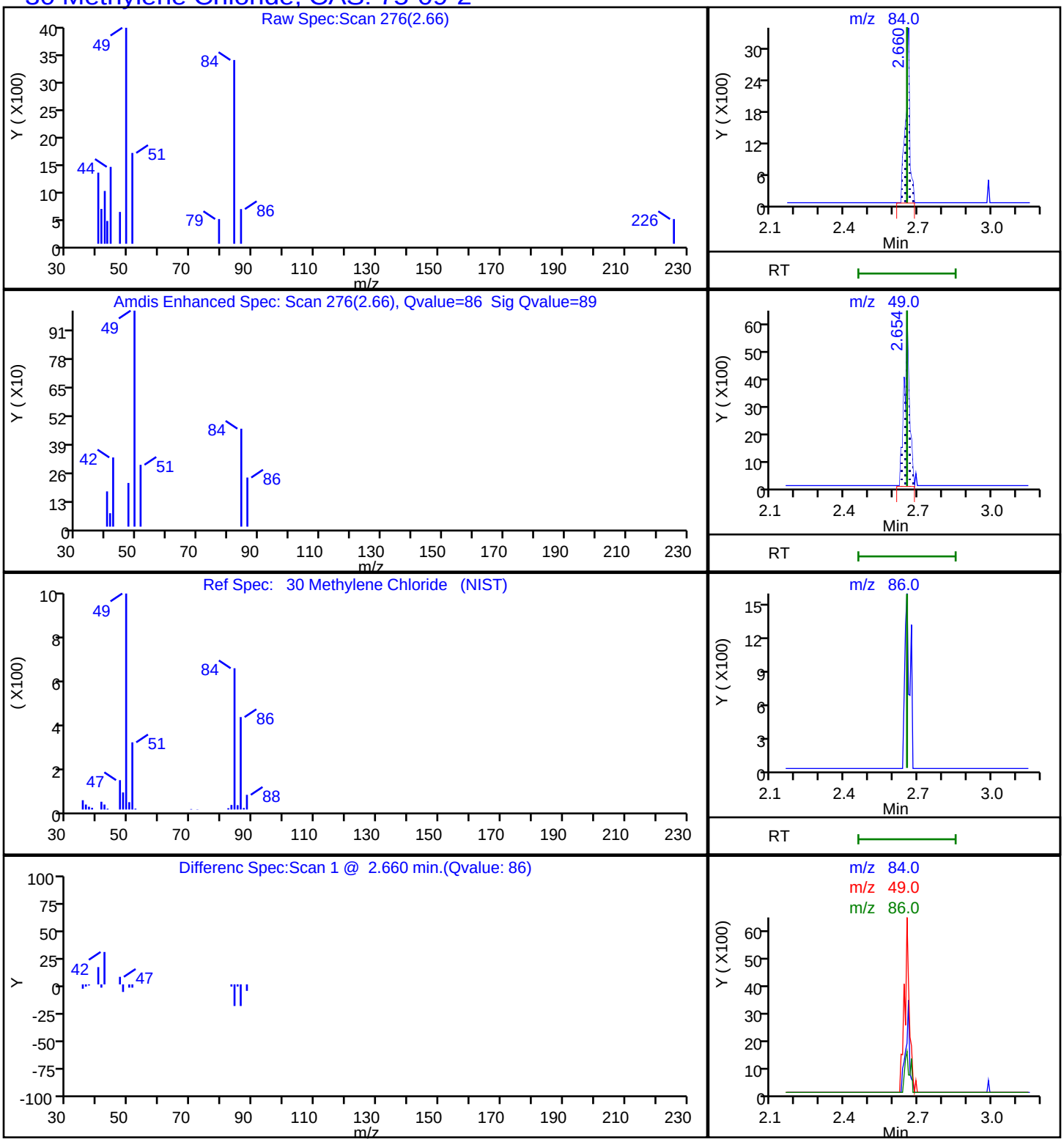
Report Date: 31-Oct-2024 15:51:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d

Injection Date:	31-Oct-2024 06:23:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-7	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	AD	ALS Bottle#:	50	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



Manual Integration/User Assign Peak Report

Eurofins Buffalo

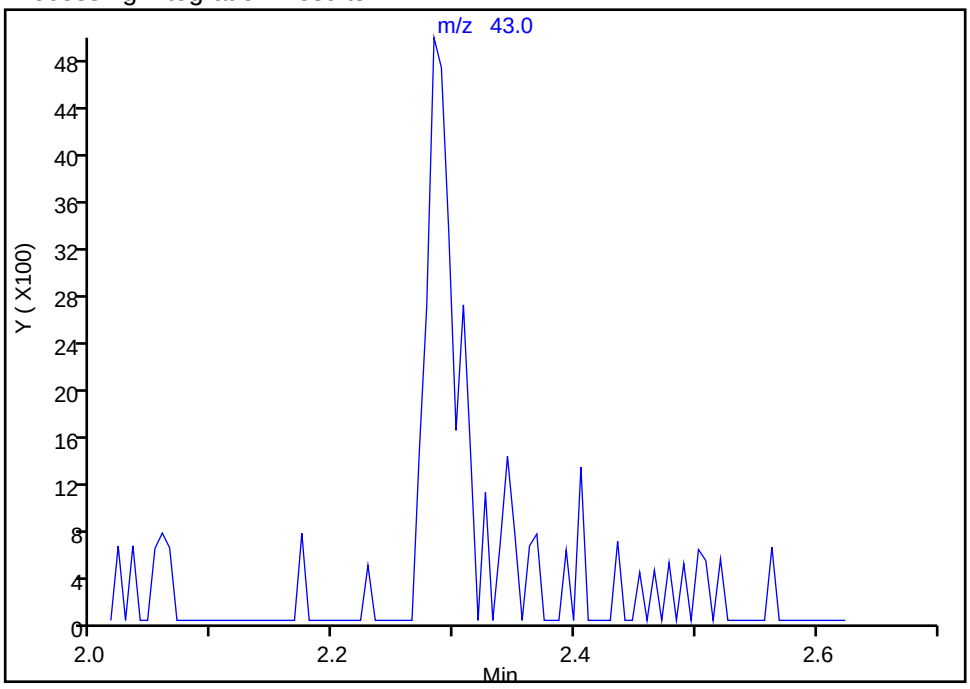
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d				
Injection Date:	31-Oct-2024 06:23:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-7	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	AD	ALS Bottle#:	50	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

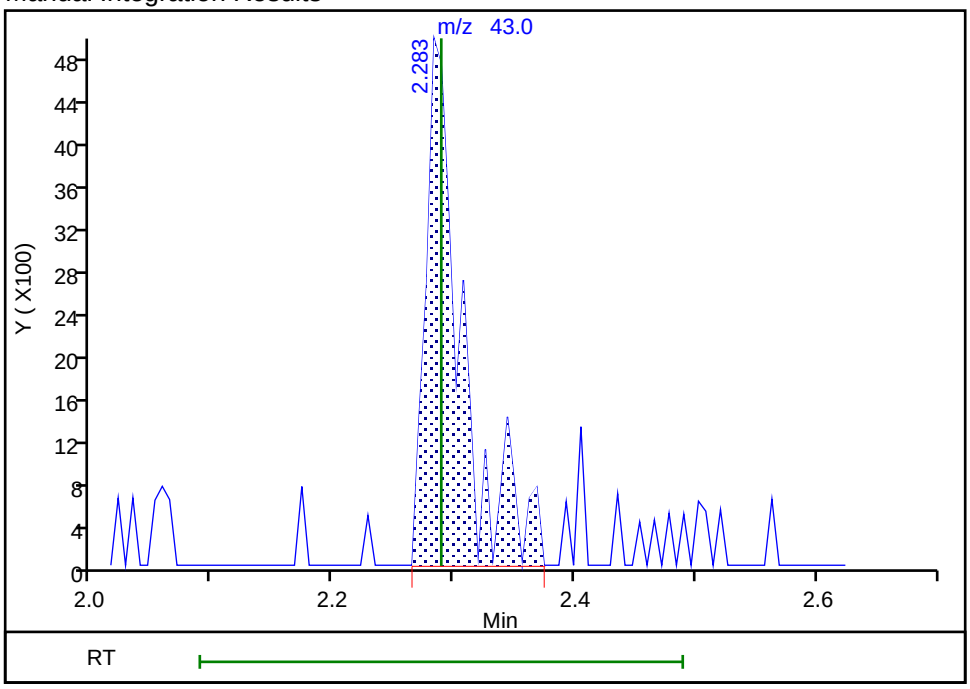
Not Detected
Expected RT: 2.29

Processing Integration Results



Manual Integration Results

RT: 2.28
Area: 10212
Amount: 1.993077
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:07:54 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

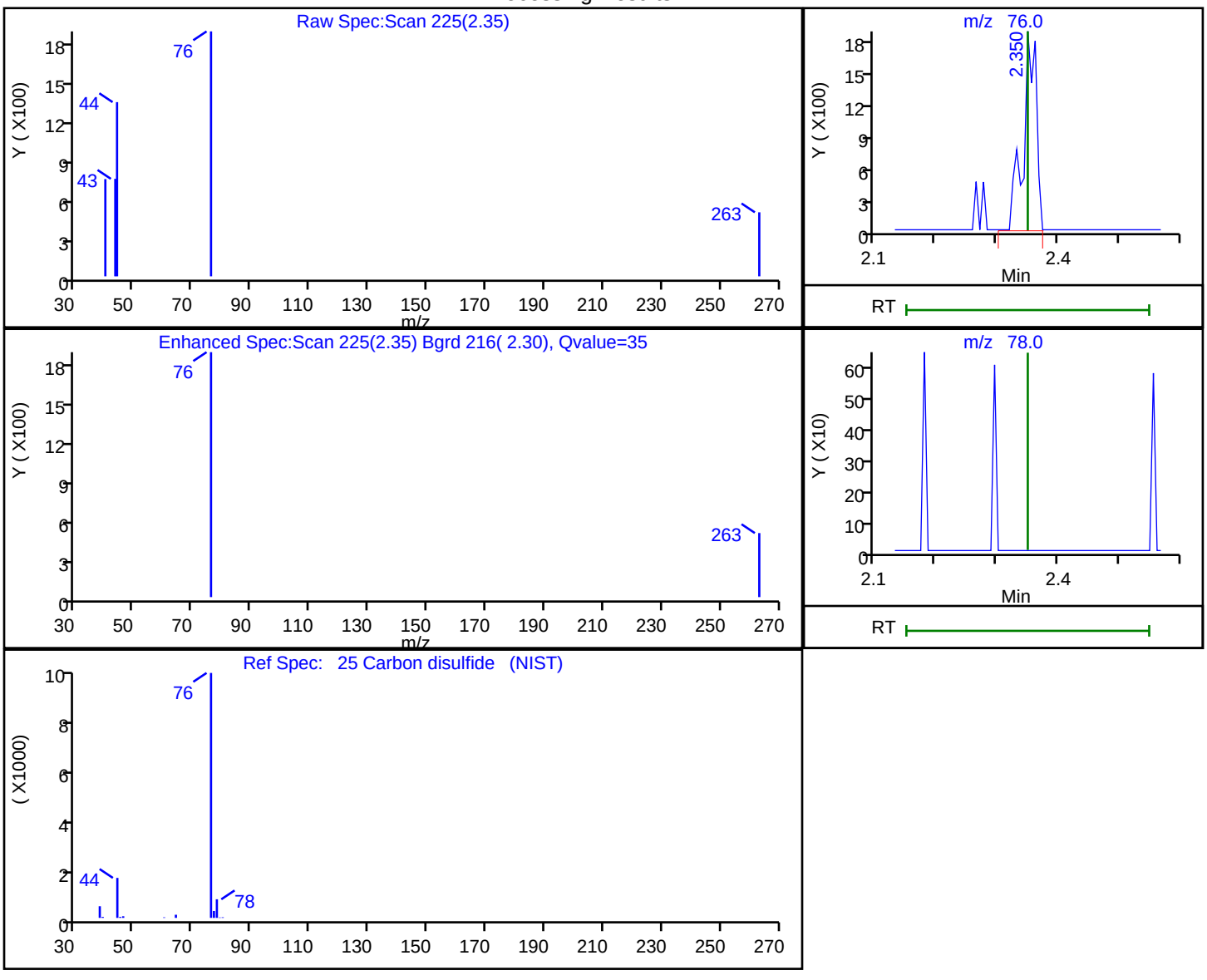
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d				
Injection Date:	31-Oct-2024 06:23:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-7	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	AD	ALS Bottle#:	50	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

25 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.35	76.00	2780	0.159386
2.35	78.00	0	

Reviewer: HF3K, 31-Oct-2024 12:07:57 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

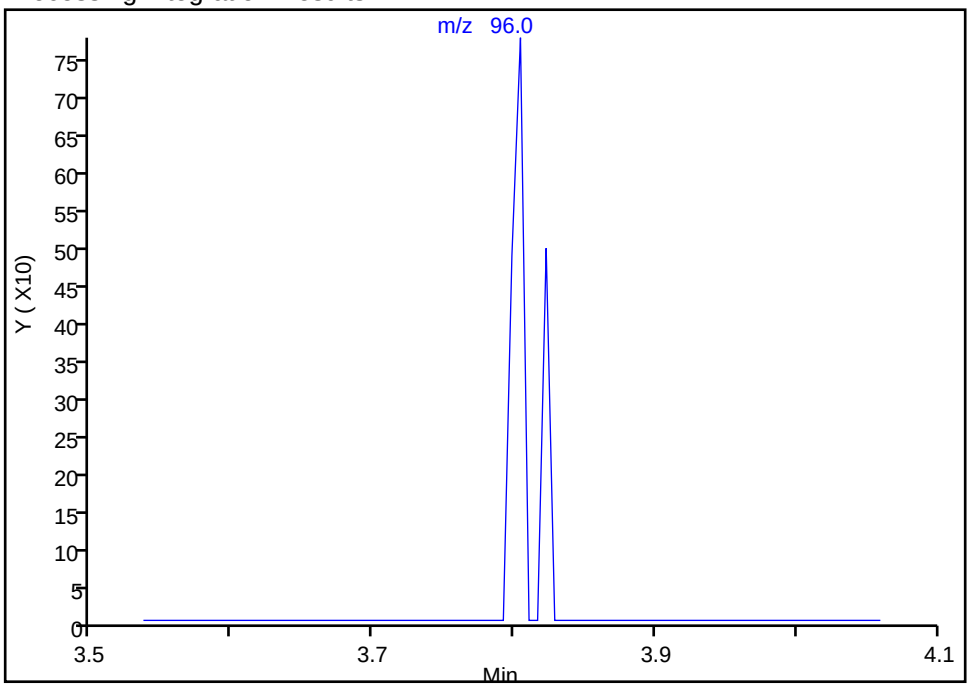
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d				
Injection Date:	31-Oct-2024 06:23:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-7	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	AD	ALS Bottle#:	50	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

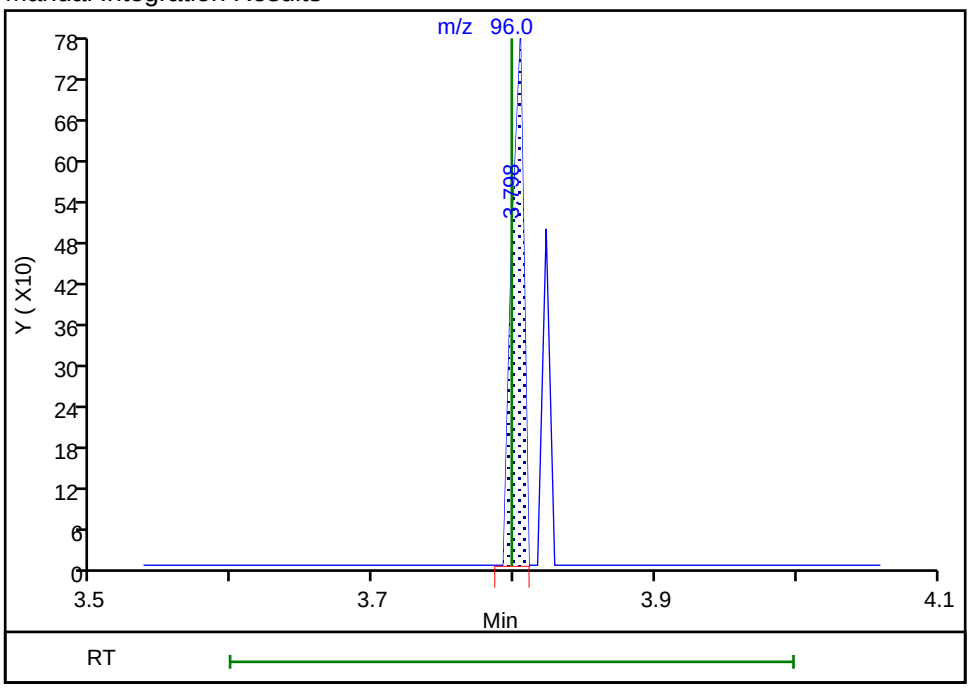
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 462
Amount: 0.072352
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:49:39 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

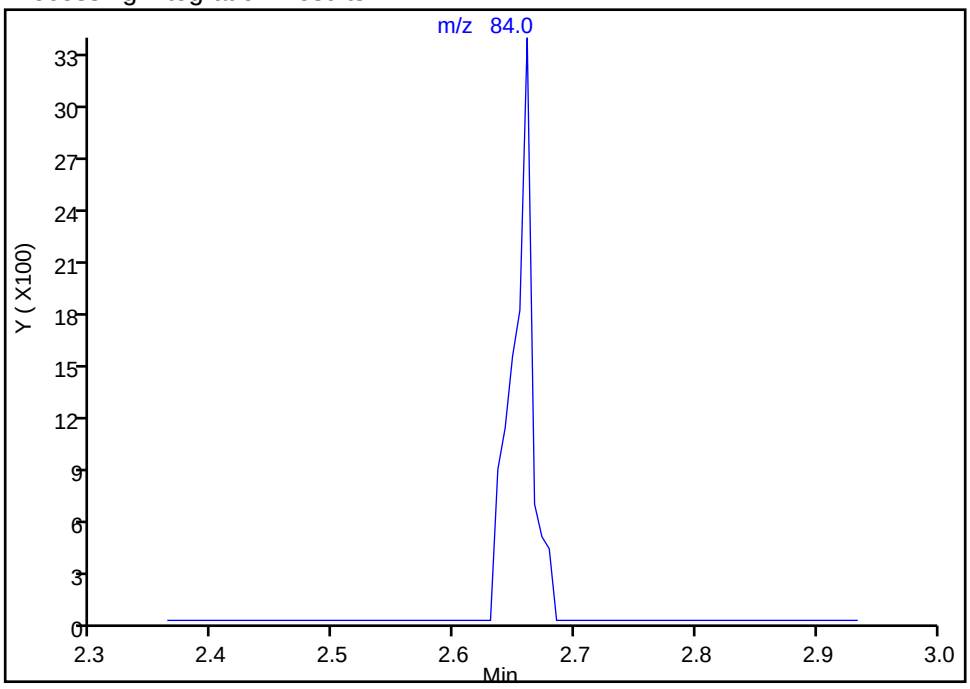
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d				
Injection Date:	31-Oct-2024 06:23:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-7	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	AD	ALS Bottle#:	50	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

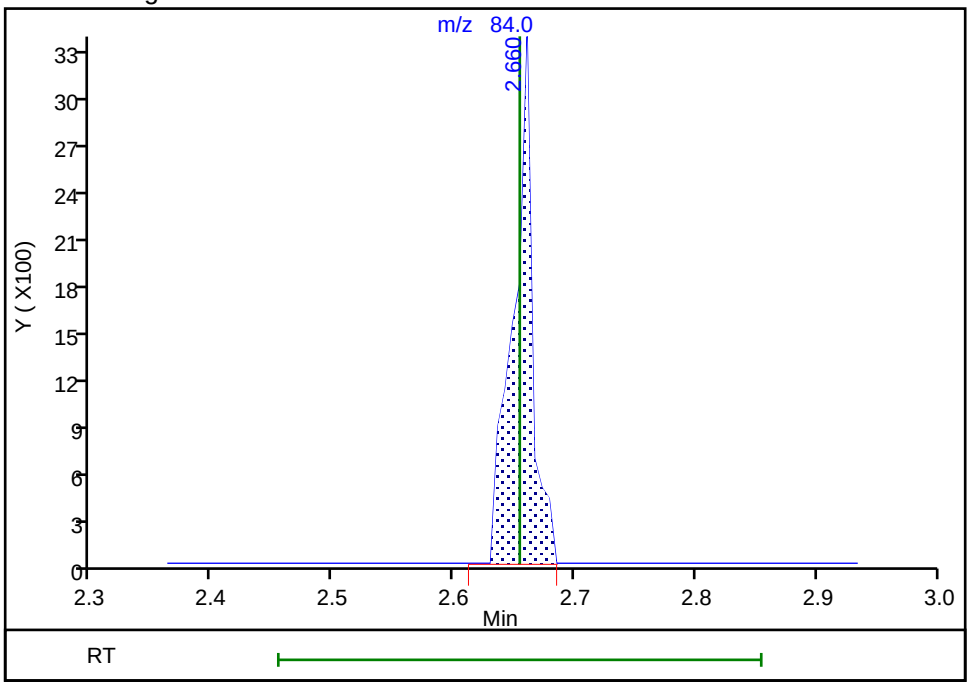
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.66
Area: 3757
Amount: 0.494099
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:40:48 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 | Lab Sample ID: 480-224869-9

Matrix: Water | Lab File ID: N1251.d

Analysis Method: 8260C | Date Collected: 10/25/2024 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 06:46

Soil Aliquot Vol: | Dilution Factor: 100

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		100	82
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	21
79-00-5	1,1,2-Trichloroethane	ND		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31
75-34-3	1,1-Dichloroethane	ND		100	38
75-35-4	1,1-Dichloroethene	ND		100	29
120-82-1	1,2,4-Trichlorobenzene	ND		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		100	39
106-93-4	1,2-Dibromoethane	ND		100	73
95-50-1	1,2-Dichlorobenzene	ND		100	79
107-06-2	1,2-Dichloroethane	ND		100	21
78-87-5	1,2-Dichloropropane	ND		100	72
541-73-1	1,3-Dichlorobenzene	ND		100	78
106-46-7	1,4-Dichlorobenzene	ND		100	84
591-78-6	2-Hexanone	ND		500	120
78-93-3	2-Butanone (MEK)	ND		1000	130
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	210
67-64-1	Acetone	ND		1000	300
71-43-2	Benzene	2600		100	41
75-27-4	Bromodichloromethane	ND		100	39
75-25-2	Bromoform	ND		100	26
74-83-9	Bromomethane	ND		100	69
75-15-0	Carbon disulfide	ND		100	19
56-23-5	Carbon tetrachloride	ND		100	27
108-90-7	Chlorobenzene	ND		100	75
124-48-1	Dibromochloromethane	ND		100	32
75-00-3	Chloroethane	ND		100	32
67-66-3	Chloroform	ND		100	34
74-87-3	Chloromethane	ND		100	35
156-59-2	cis-1,2-Dichloroethene	ND		100	81
10061-01-5	cis-1,3-Dichloropropene	ND		100	36
110-82-7	Cyclohexane	ND		100	18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 | Lab Sample ID: 480-224869-9

Matrix: Water | Lab File ID: N1251.d

Analysis Method: 8260C | Date Collected: 10/25/2024 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 06:46

Soil Aliquot Vol: | Dilution Factor: 100

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		100	68
100-41-4	Ethylbenzene	ND		100	74
98-82-8	Isopropylbenzene	ND		100	79
79-20-9	Methyl acetate	ND		250	130
1634-04-4	Methyl tert-butyl ether	ND		100	16
108-87-2	Methylcyclohexane	ND		100	16
75-09-2	Methylene Chloride	87	J	100	44
100-42-5	Styrene	ND		100	73
127-18-4	Tetrachloroethene	ND		100	36
108-88-3	Toluene	940		100	51
156-60-5	trans-1,2-Dichloroethene	ND		100	90
10061-02-6	trans-1,3-Dichloropropene	ND		100	37
79-01-6	Trichloroethene	ND		100	46
75-69-4	Trichlorofluoromethane	ND		100	88
75-01-4	Vinyl chloride	ND		100	90
1330-20-7	Xylenes, Total	520		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	91		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d
Lims ID: 480-224869-G-9
Client ID: MW-BCP-13A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 06:46:30 ALS Bottle#: 51 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224869-G-9
Misc. Info.: 480-0120932-018
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:52:58 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:52:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	150612	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	492683	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	272336	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	93	156219	22.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	65	233387	22.9	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	96	562369	24.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	87	195330	27.5	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.289	2.289	0.000	65	3850	0.7046	a
25 Carbon disulfide	76		2.350				ND	
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.654	2.654	0.000	84	6319	0.8660	a
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78	4.552	4.552	0.000	88	629101	25.8	a
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	
73 Toluene	92	6.371	6.365	0.000	96	125857	9.36	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91	7.898	7.898	0.000	95	9392	0.3665	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	96	36825	3.65	
91 o-Xylene	106	8.446	8.434	0.006	94	16213	1.60	
92 Styrene	104	8.476	8.470	0.000	48	7397	0.4496	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1				0		5.25	

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

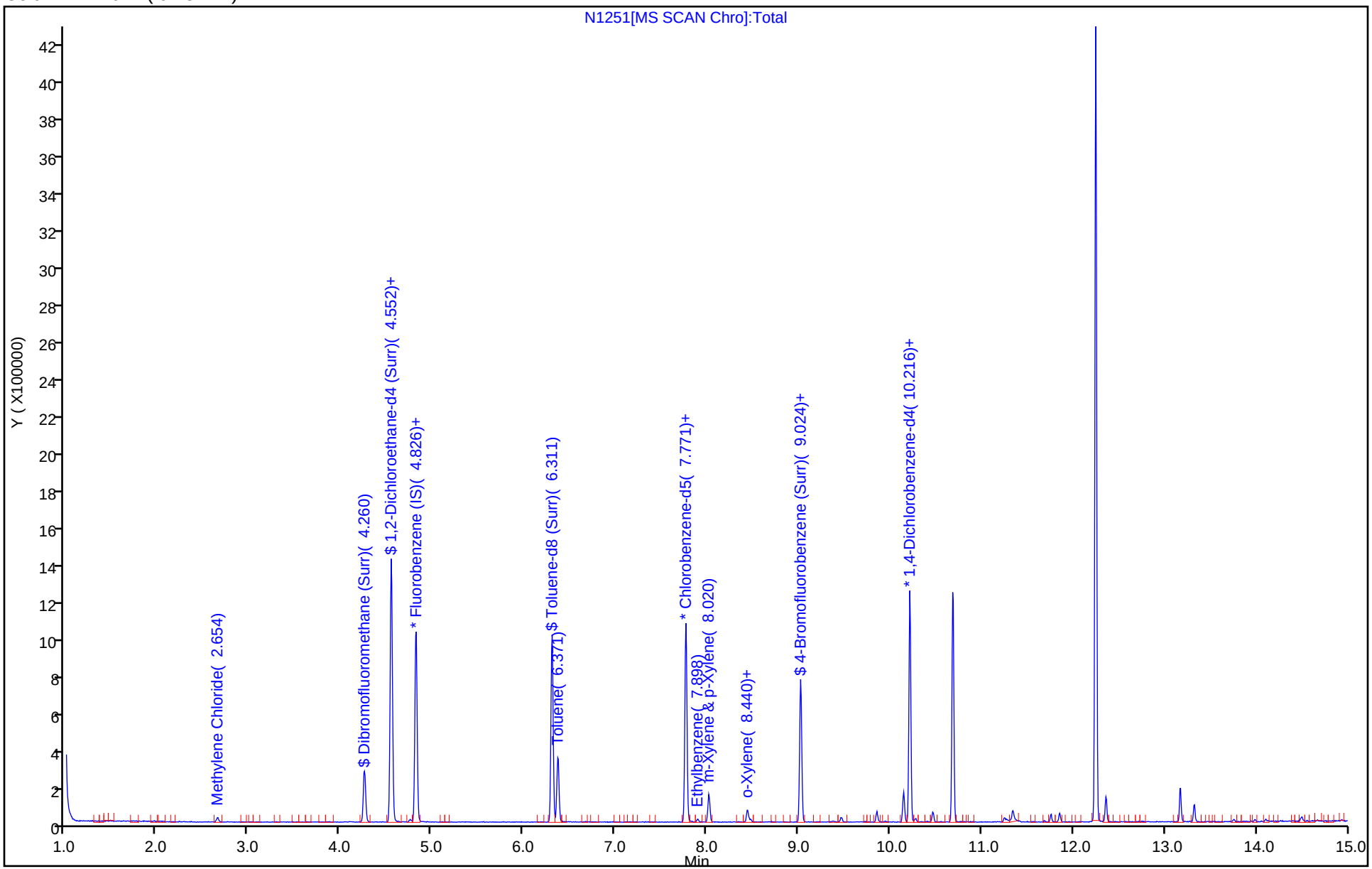
Report Date: 31-Oct-2024 15:52:59 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d

Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9	Worklist Smp#:	18
Client ID:	MW-BCP-13A-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	100.0000	ALS Bottle#:	51
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d
Lims ID: 480-224869-G-9
Client ID: MW-BCP-13A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 06:46:30 ALS Bottle#: 51 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224869-G-9
Misc. Info.: 480-0120932-018
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:52:58 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:52:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	22.8	91.31
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	22.9	91.70
$ 6 Toluene-d8 (Surr)	25.0	24.9	99.75
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.5	109.86

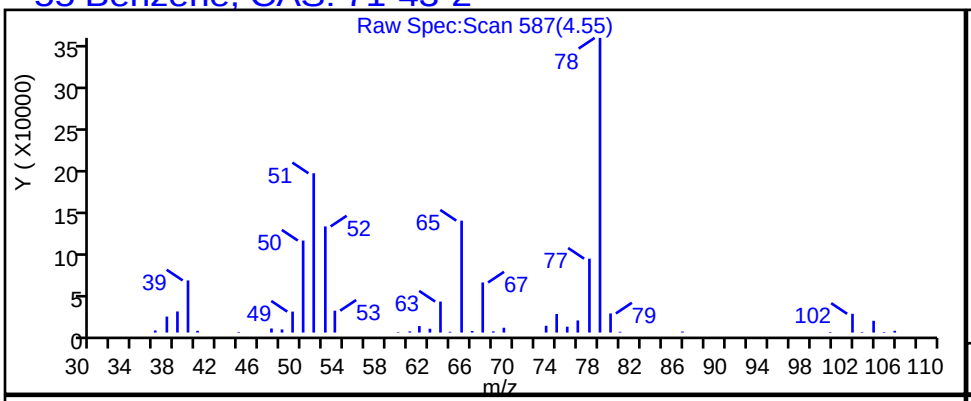
Report Date: 31-Oct-2024 15:52:59 Chrom Revision: 2.3 24-Sep-2024 15:19:46

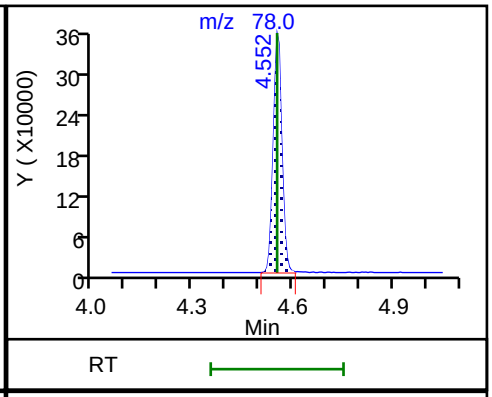
Eurofins Buffalo

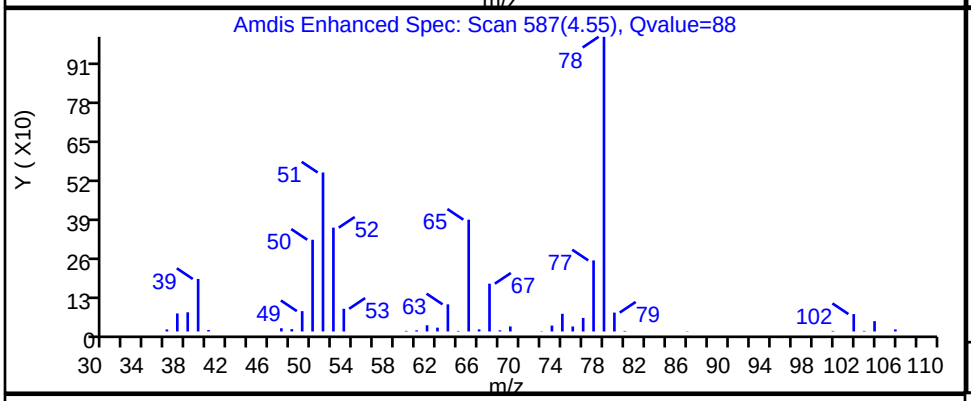
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d

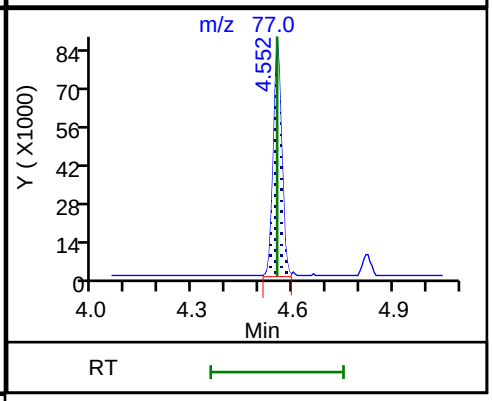
Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

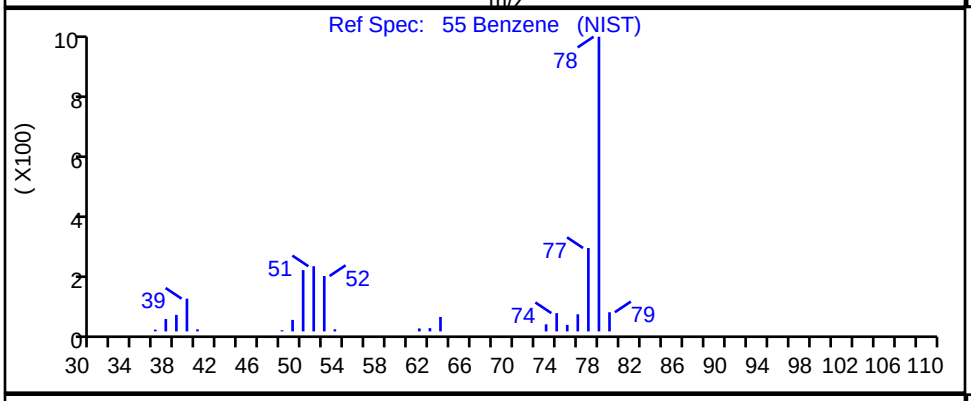
55 Benzene, CAS: 71-43-2

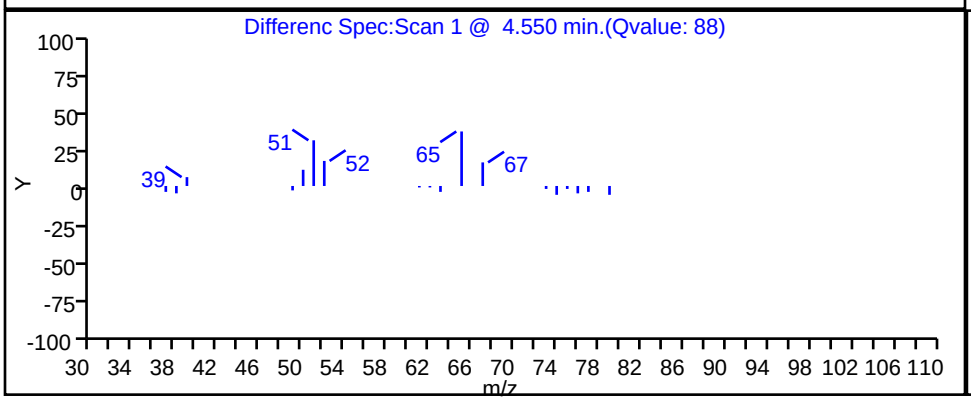


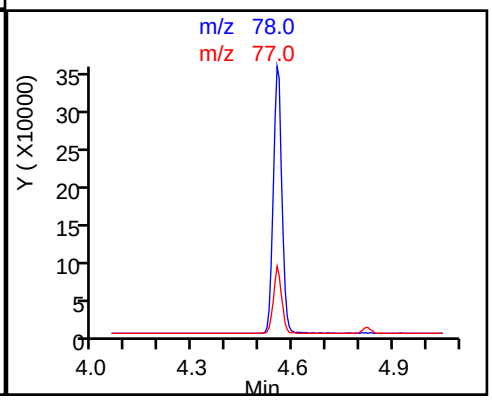












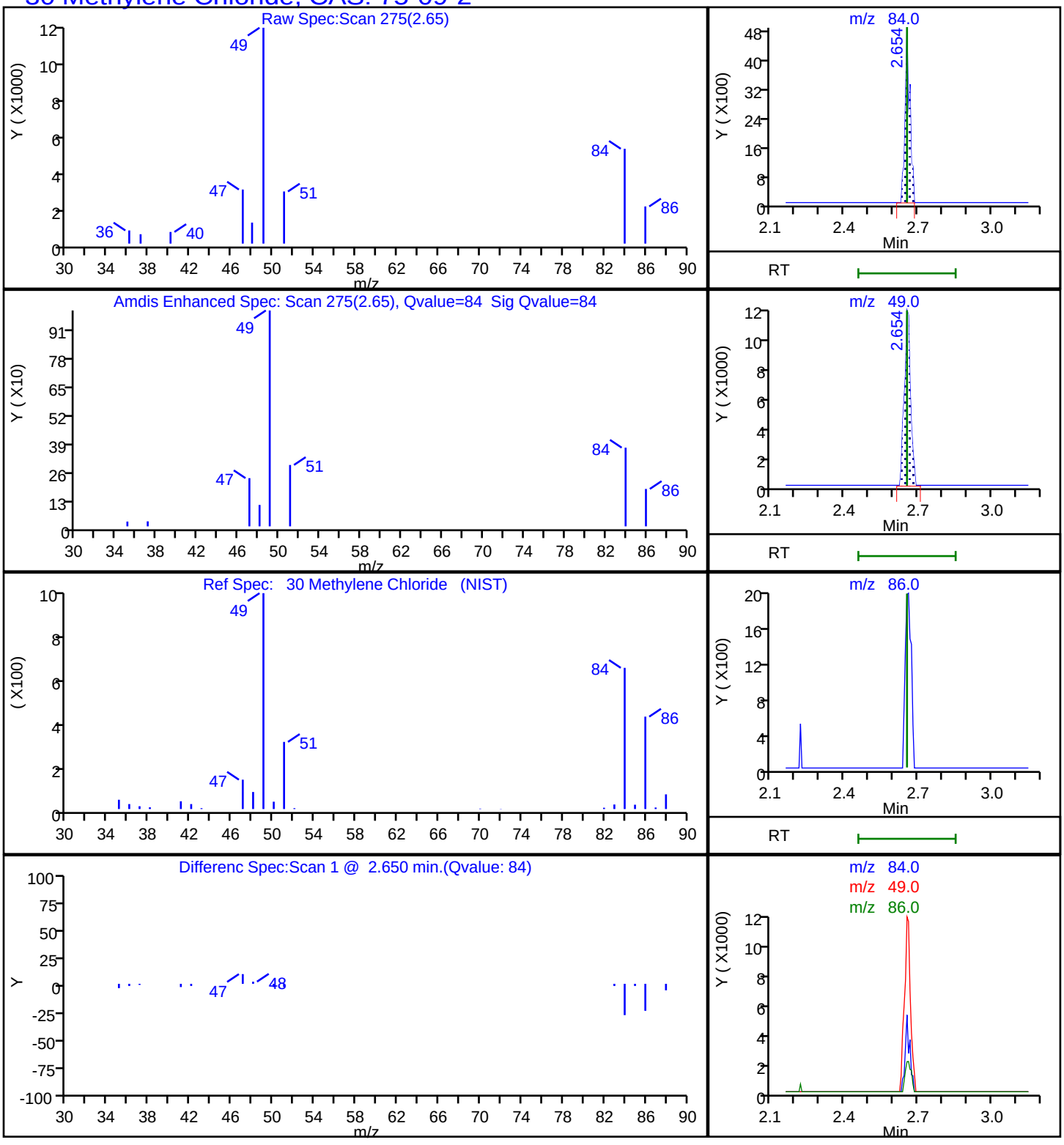
Report Date: 31-Oct-2024 15:52:59 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d

Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

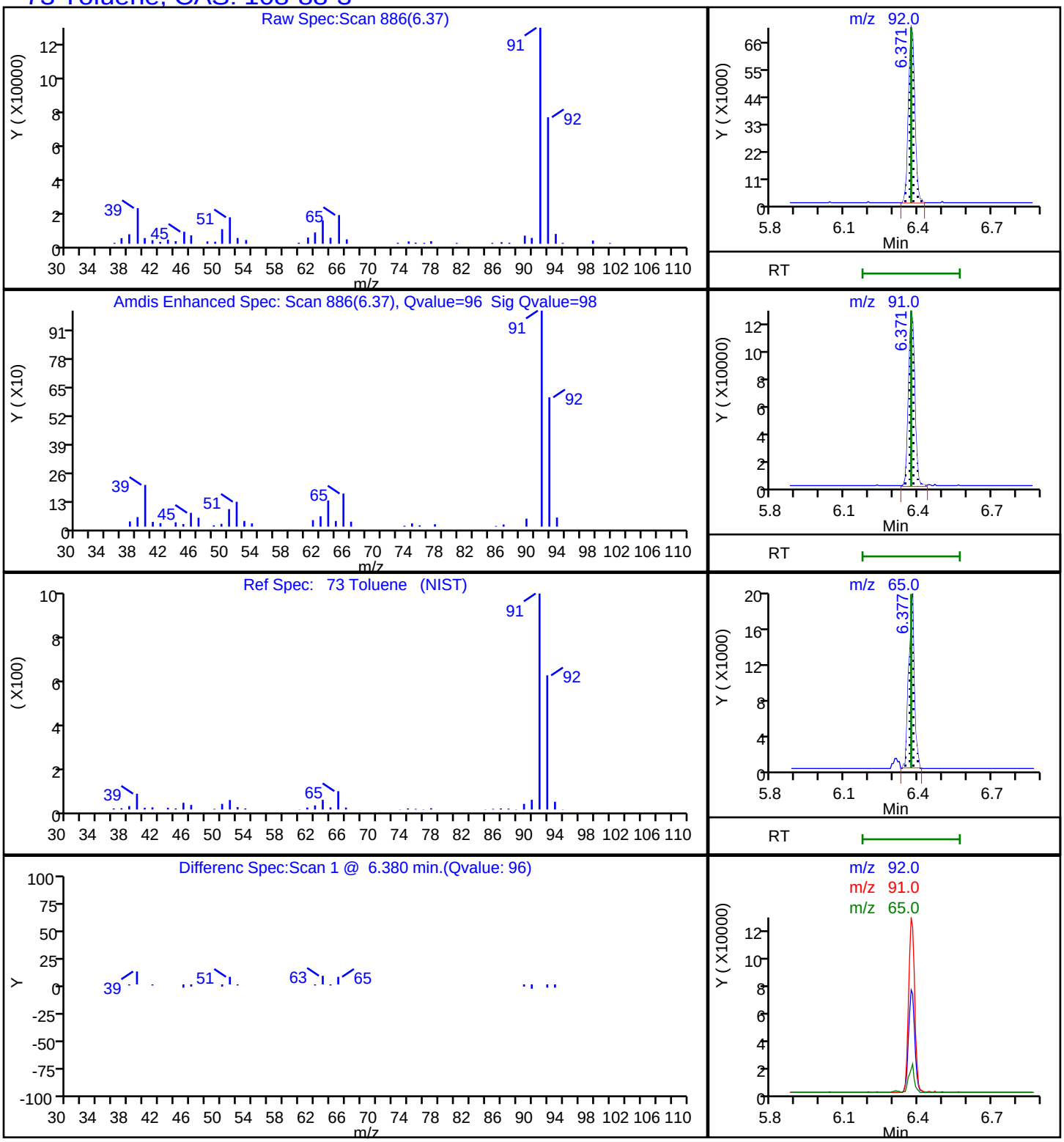
30 Methylene Chloride, CAS: 75-09-2



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d
Injection Date: 31-Oct-2024 06:46:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-9 Lab Sample ID: 480-224869-9
Client ID: MW-BCP-13A-10252024
Operator ID: AD ALS Bottle#: 51 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

73 Toluene, CAS: 108-88-3



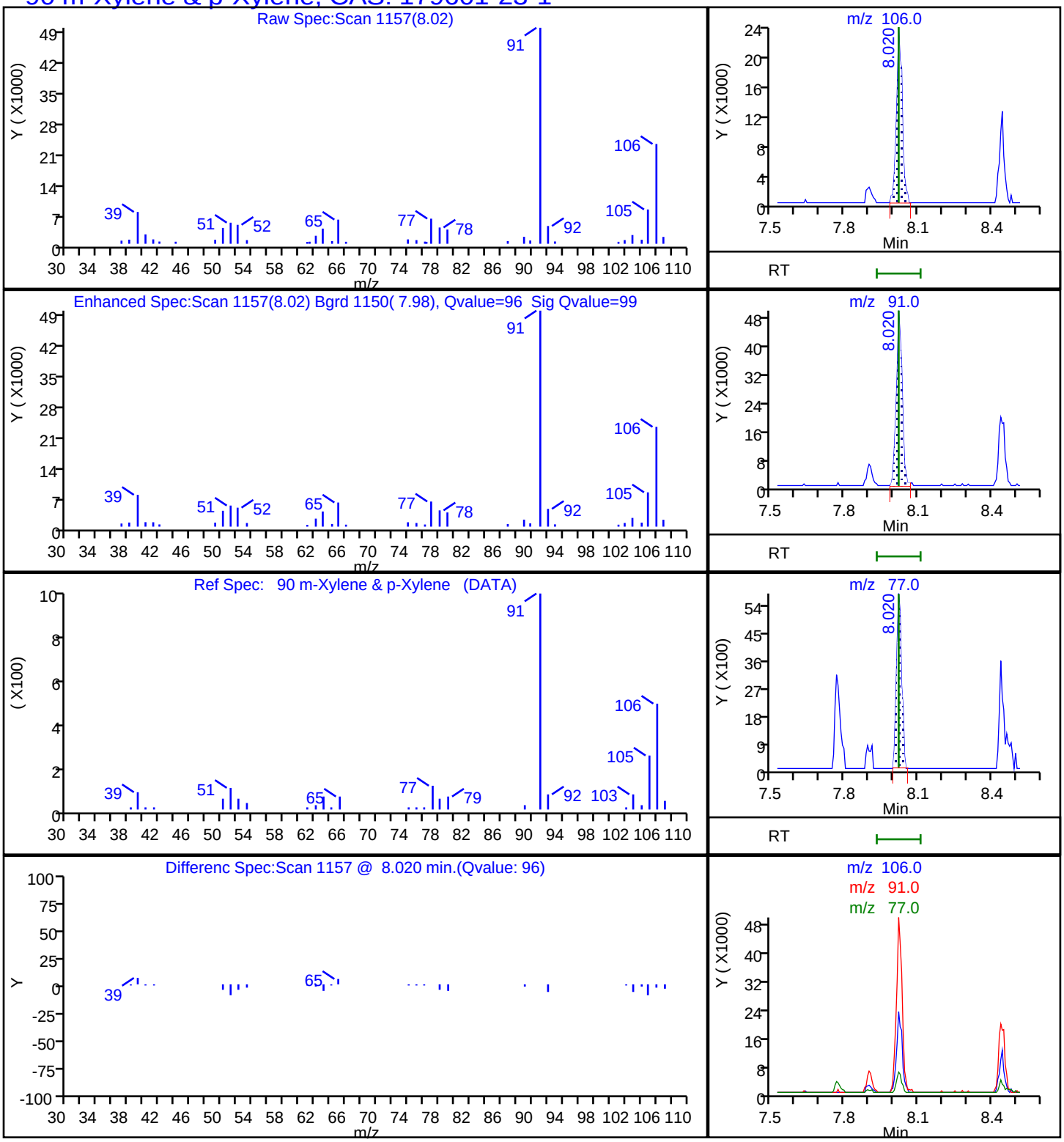
Report Date: 31-Oct-2024 15:52:59 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d

Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

90 m-Xylene & p-Xylene, CAS: 179601-23-1



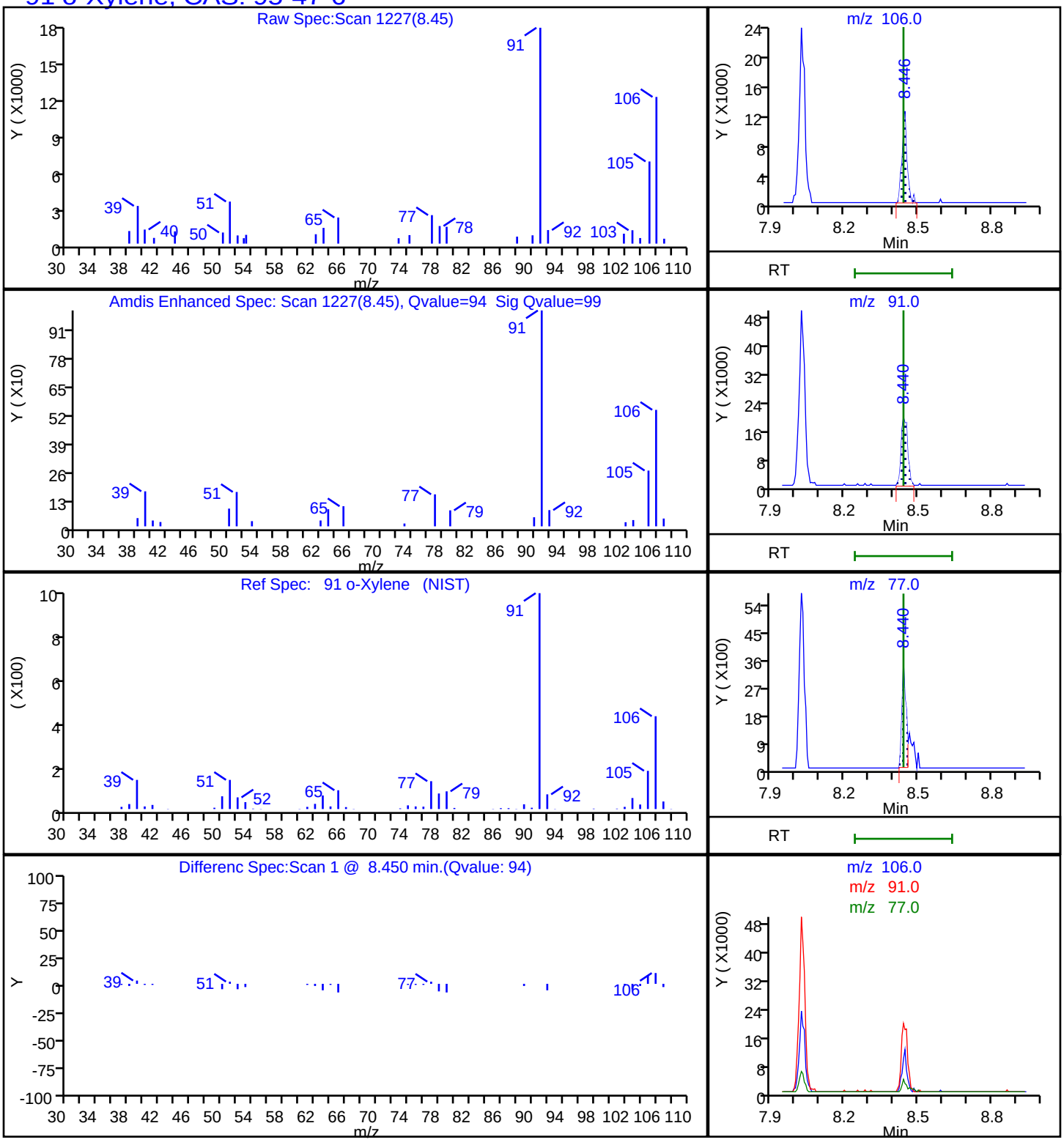
Report Date: 31-Oct-2024 15:52:59 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d

Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9
Client ID:	MW-BCP-13A-10252024		
Operator ID:	AD	ALS Bottle#:	51 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

91 o-Xylene, CAS: 95-47-6



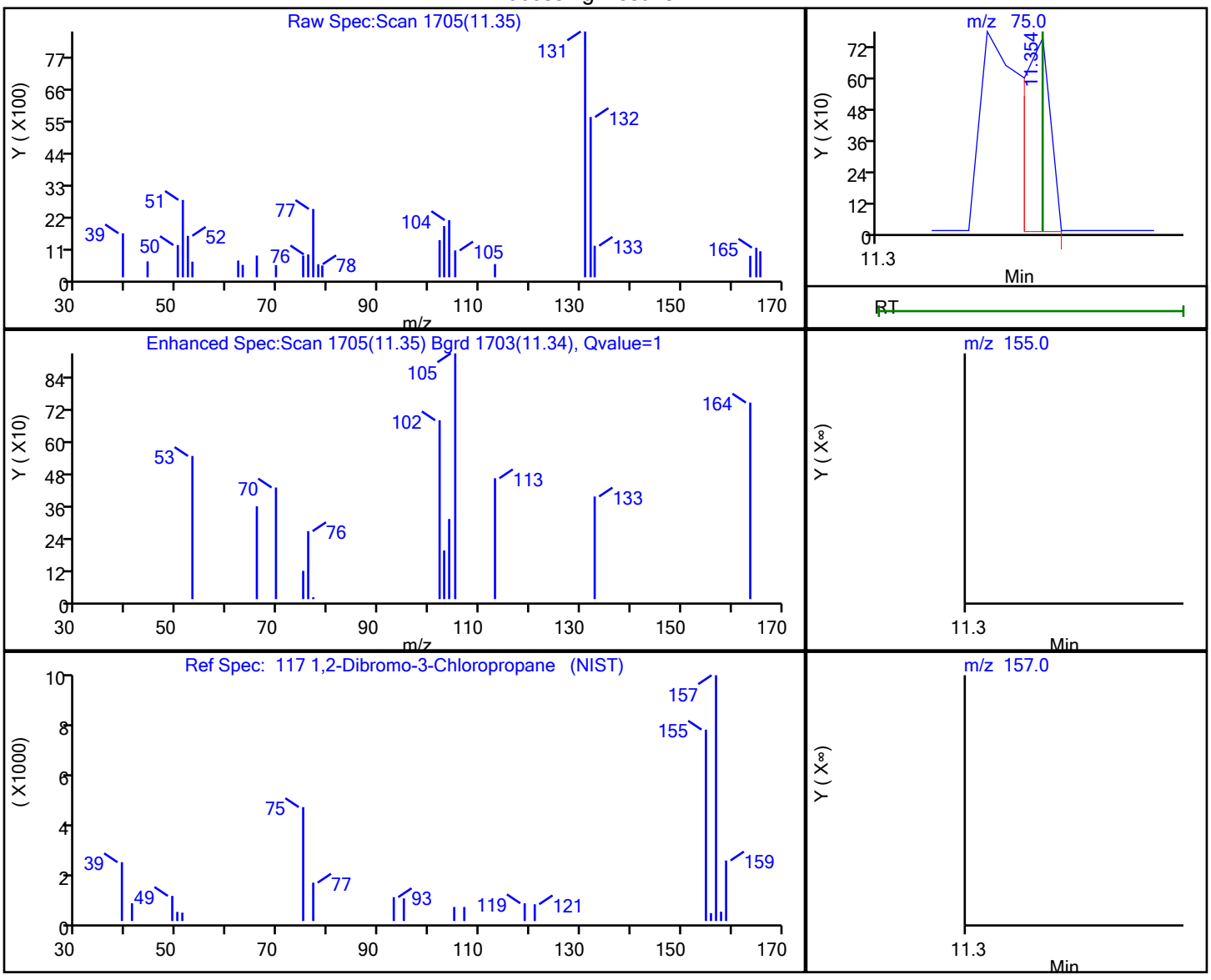
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d				
Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-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	491	0.257817
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 15:52:51 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

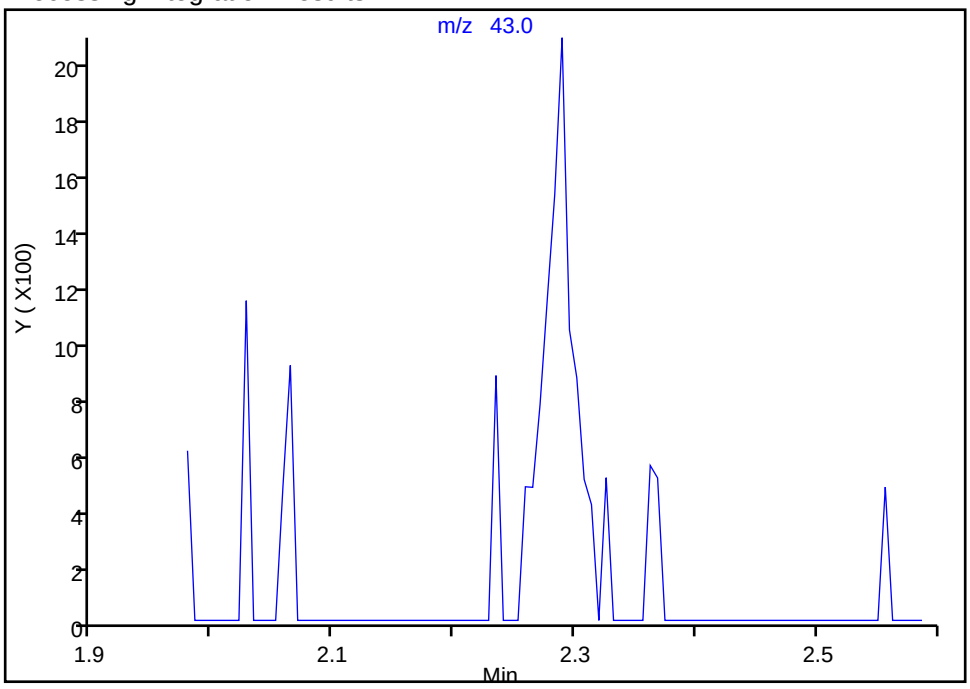
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d				
Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

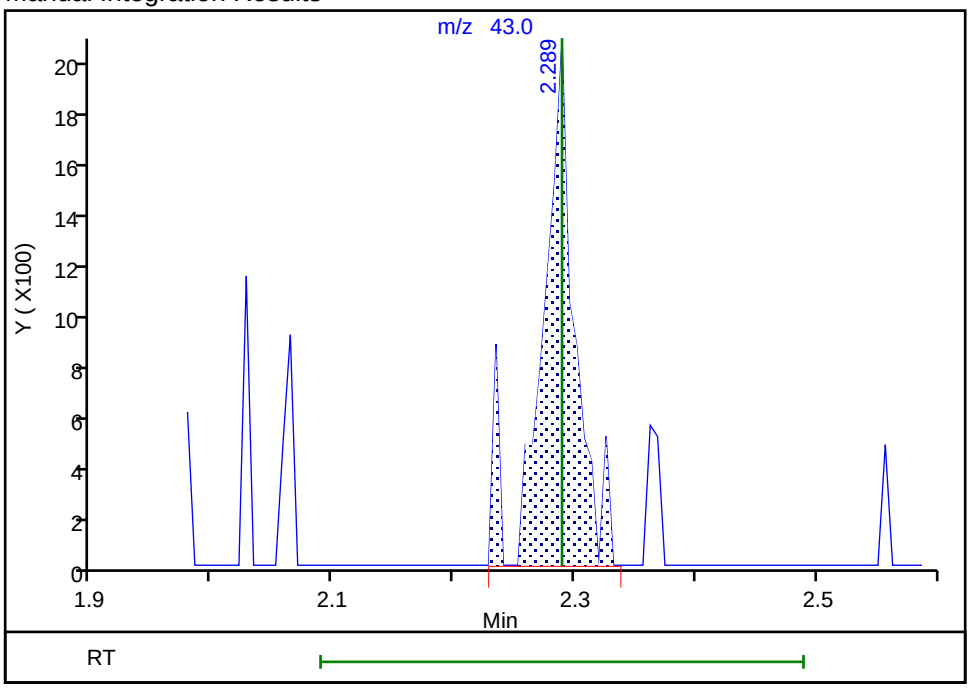
Not Detected
Expected RT: 2.29

Processing Integration Results



Manual Integration Results

RT: 2.29
Area: 3850
Amount: 0.704633
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:52:00 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

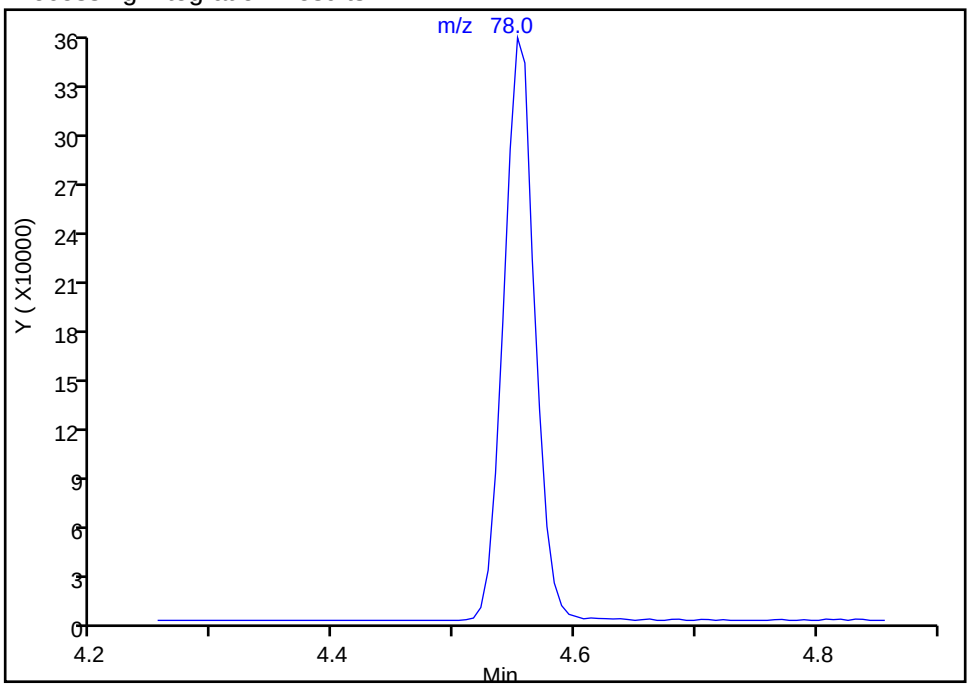
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d				
Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2

Signal: 1

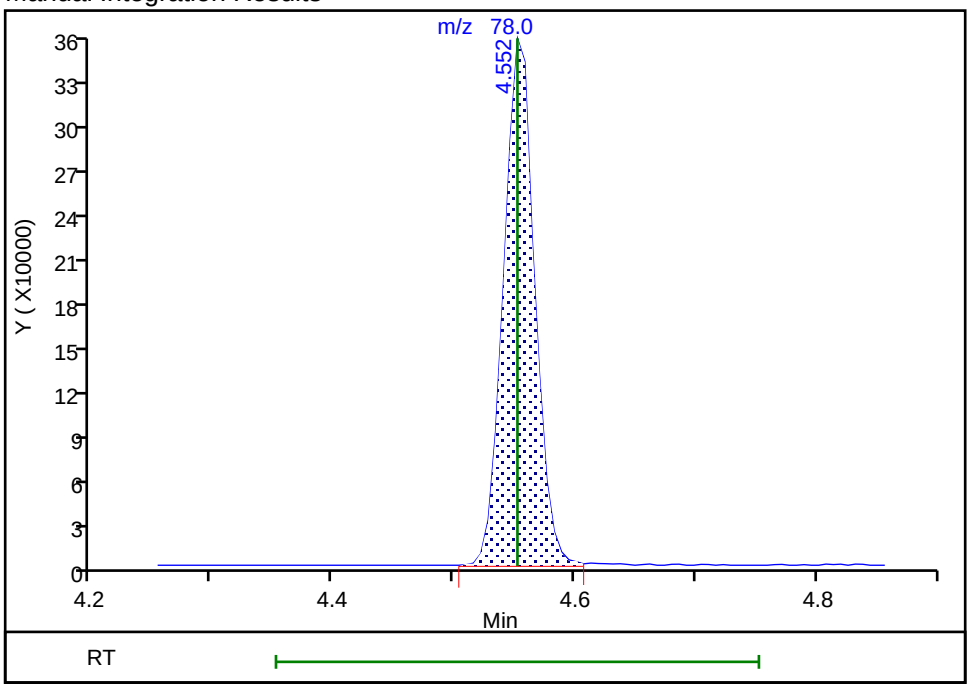
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 629101
Amount: 25.848053
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:52:15 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

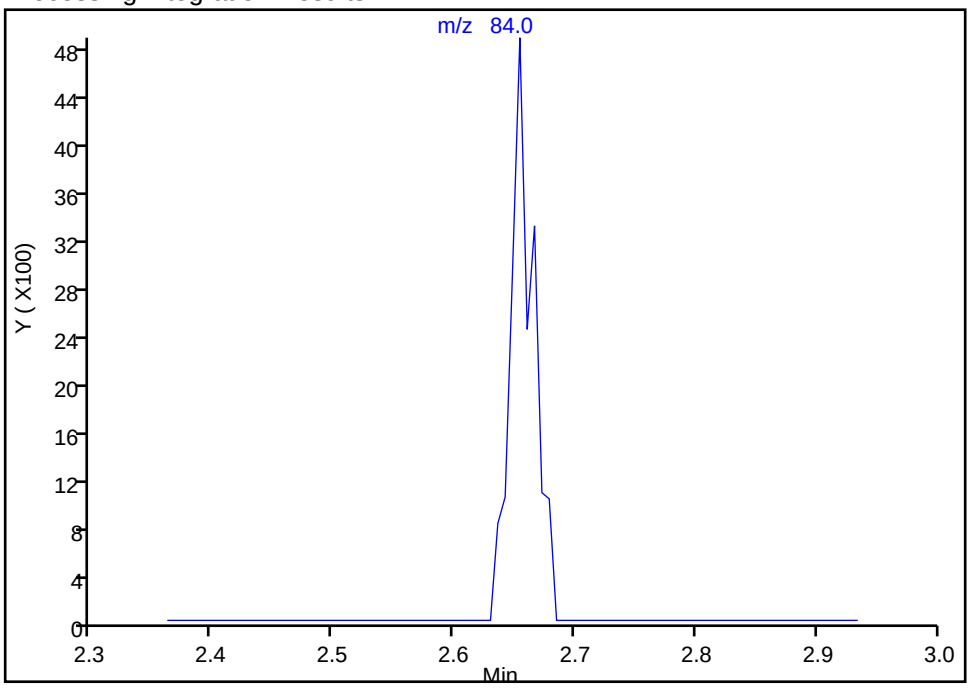
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d				
Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

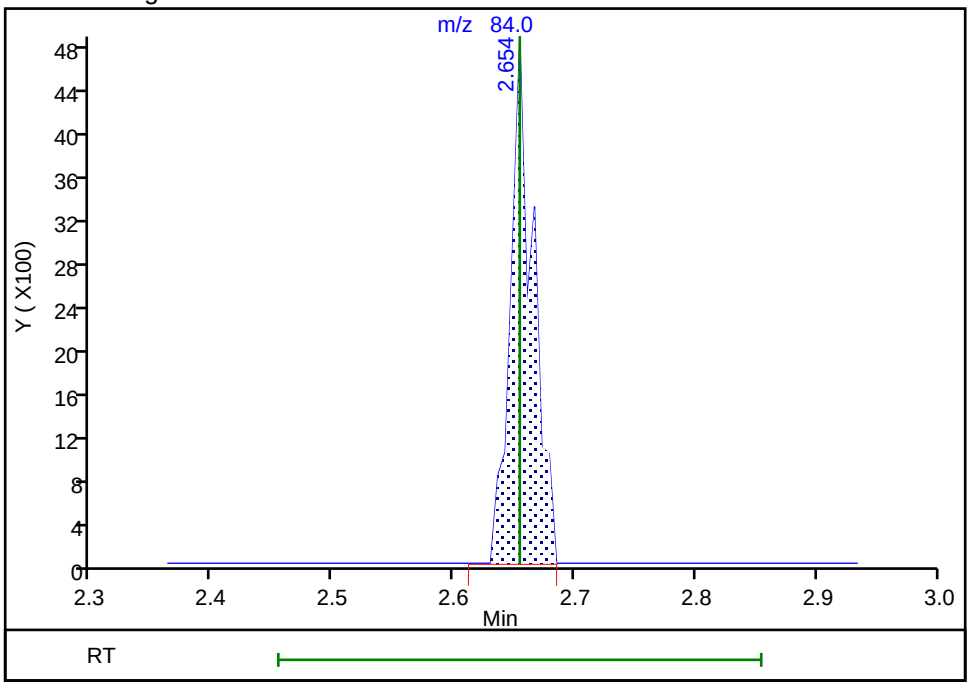
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.65
Area: 6319
Amount: 0.866025
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:52:08 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 | Lab Sample ID: 480-224869-10

Matrix: Water | Lab File ID: N1252.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:10

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 07:08

Soil Aliquot Vol: | Dilution Factor: 2

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
75-34-3	1,1-Dichloroethane	ND		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
591-78-6	2-Hexanone	ND		10	2.5
78-93-3	2-Butanone (MEK)	ND		20	2.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	6.6	J	20	6.0
71-43-2	Benzene	53		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	ND		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 | Lab Sample ID: 480-224869-10

Matrix: Water | Lab File ID: N1252.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:10

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 07:08

Soil Aliquot Vol: | Dilution Factor: 2

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	11		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	2.6		2.0	0.88
100-42-5	Styrene	3.6		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	39		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	100		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d
Lims ID: 480-224869-G-10
Client ID: MW-BCP-13B-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 07:08:30 ALS Bottle#: 52 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 480-224869-G-10
Misc. Info.: 480-0120932-019
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:54:36 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:54:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	98	143390	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	94	499344	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	269166	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	155606	23.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	66	237164	24.5	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	95	548306	24.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	86	200569	27.8	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.283	2.283	-0.006	96	17193	3.31	a
25 Carbon disulfide	76		2.350				ND	7
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.660	2.654	0.006	85	8515	1.29	
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	U
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78	4.552	4.552	0.000	88	609688	26.3	a
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	
73 Toluene	92	6.371	6.365	0.000	97	267824	19.6	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91	7.904	7.898	0.006	98	144047	5.55	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	97	363474	35.5	
91 o-Xylene	106	8.446	8.434	0.006	99	156891	15.3	
92 Styrene	104	8.476	8.476	0.000	85	29869	1.79	a
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105	8.835	8.835	0.006	93	12826	0.4810	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1				0		50.8	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

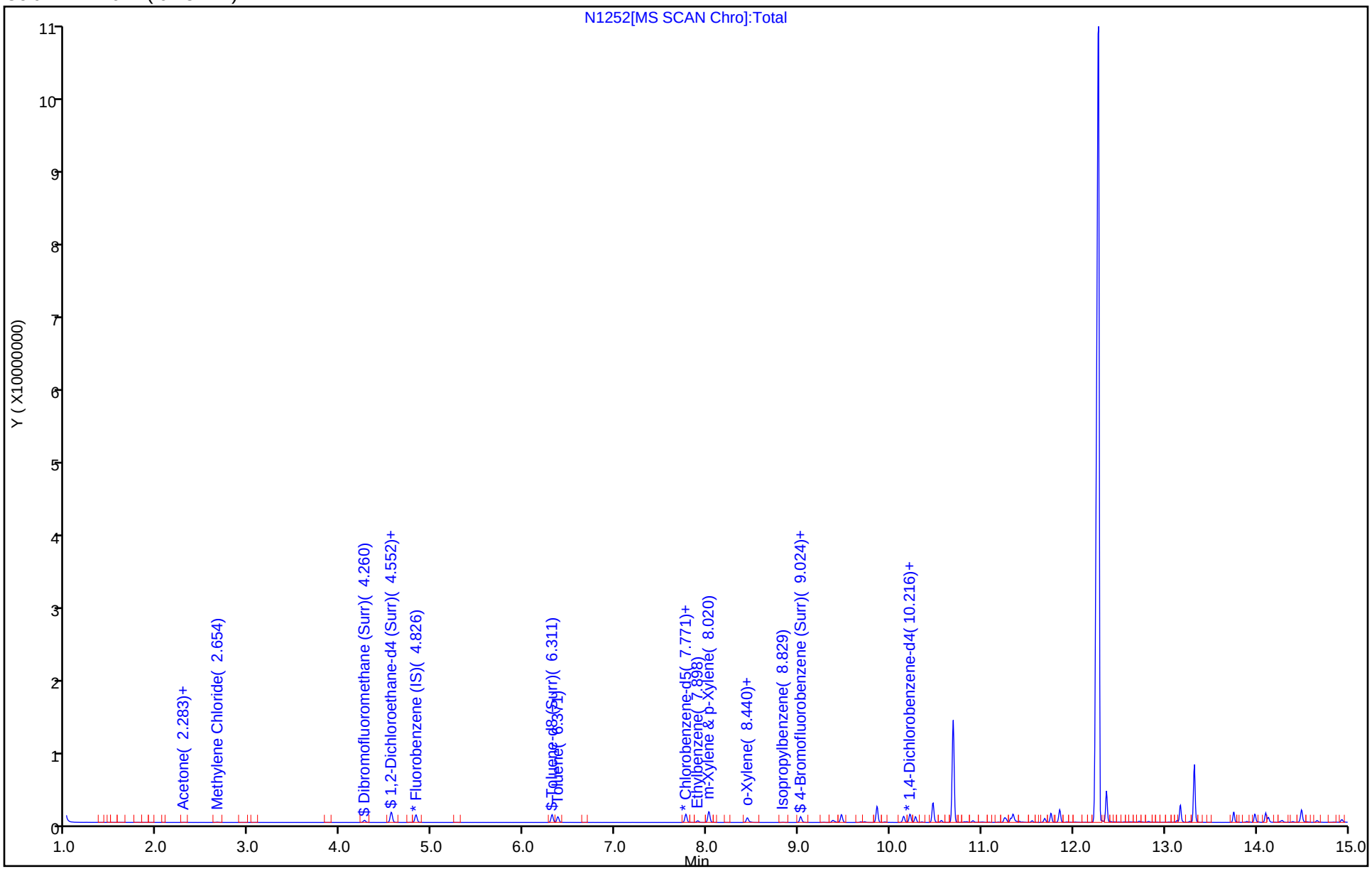
Report Date: 31-Oct-2024 15:54:36 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10	Worklist Smp#:	19
Client ID:	MW-BCP-13B-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	2.0000	ALS Bottle#:	52
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d
Lims ID: 480-224869-G-10
Client ID: MW-BCP-13B-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 07:08:30 ALS Bottle#: 52 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 480-224869-G-10
Misc. Info.: 480-0120932-019
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:54:36 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:54:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.9	95.53
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.5	97.87
$ 6 Toluene-d8 (Surr)	25.0	24.0	95.96
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.8	111.30

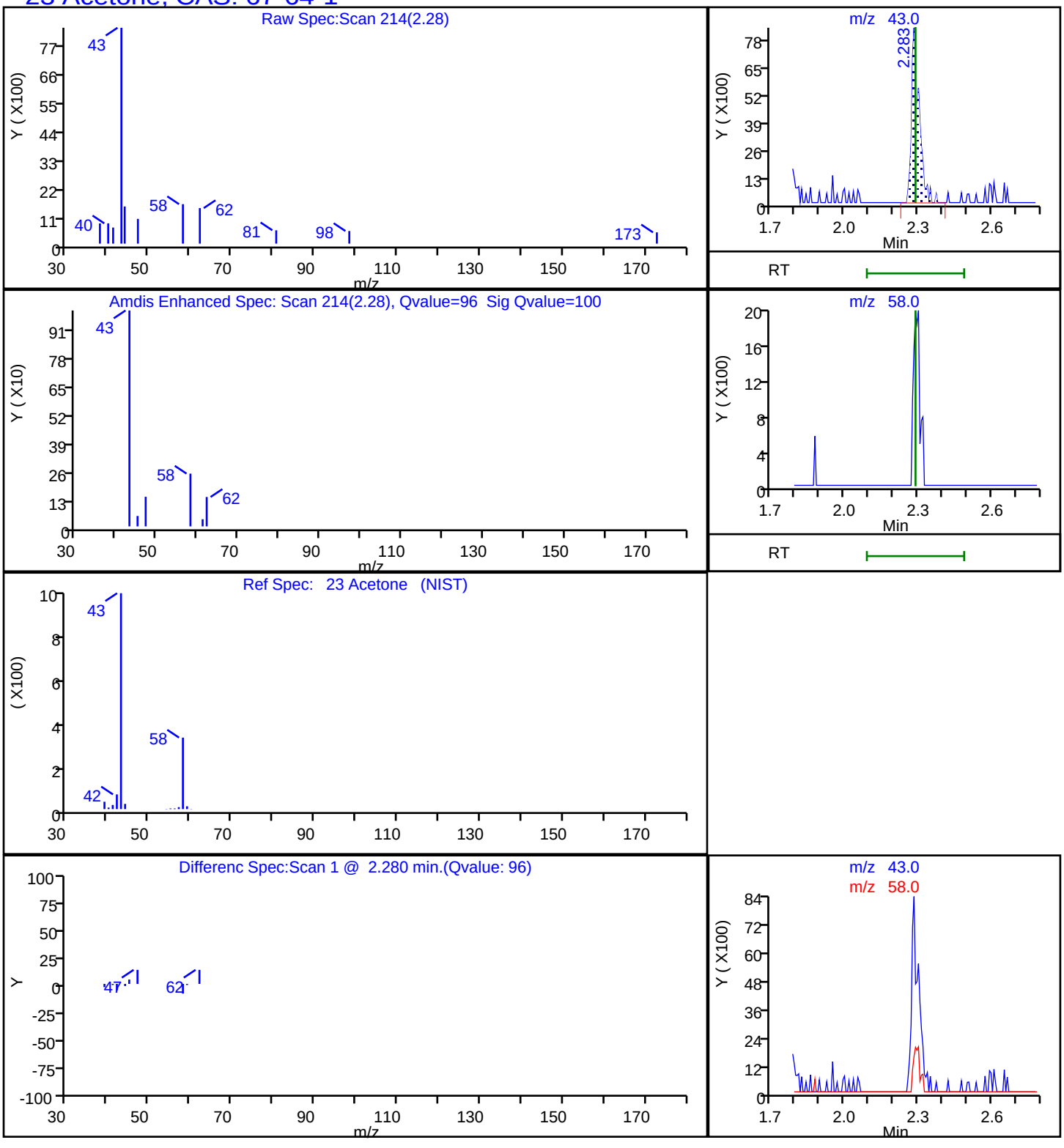
Report Date: 31-Oct-2024 15:54:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

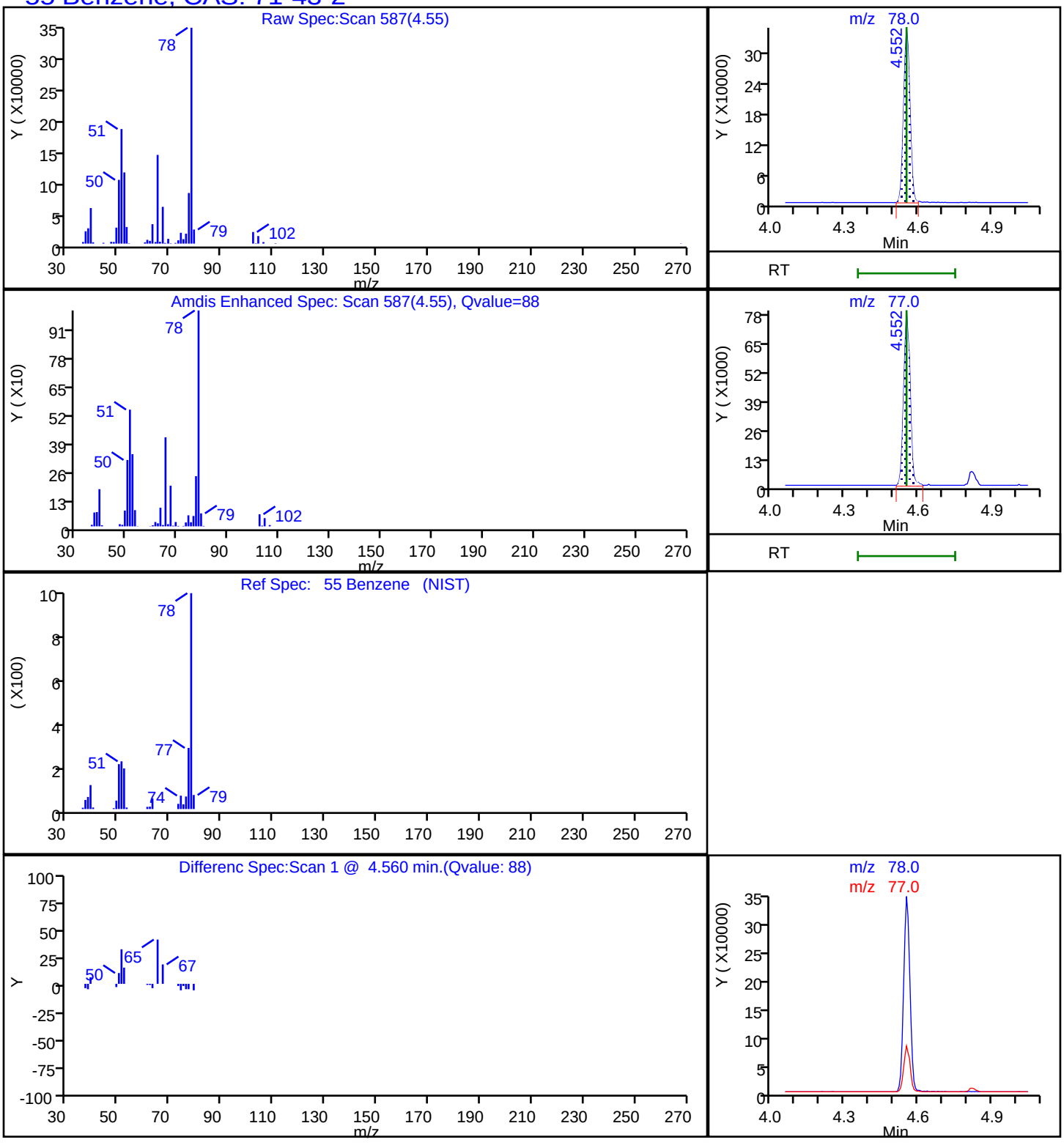


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	AD	ALS Bottle#:	52 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

55 Benzene, CAS: 71-43-2



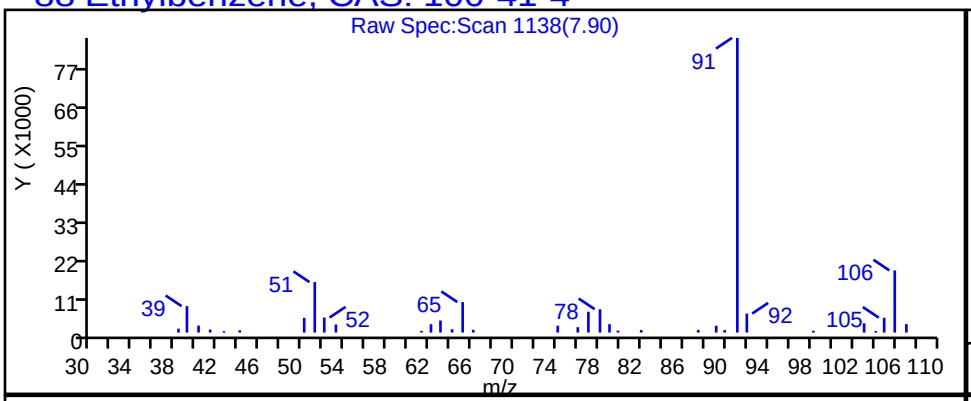
Report Date: 31-Oct-2024 15:54:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

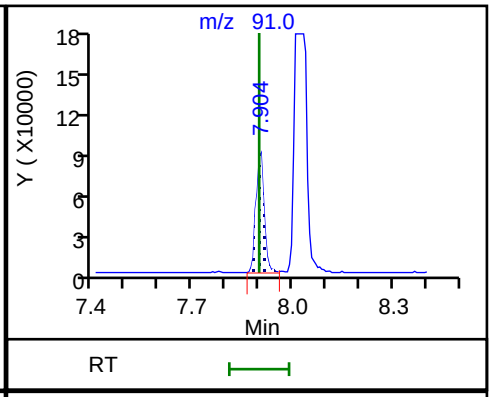
Eurofins Buffalo

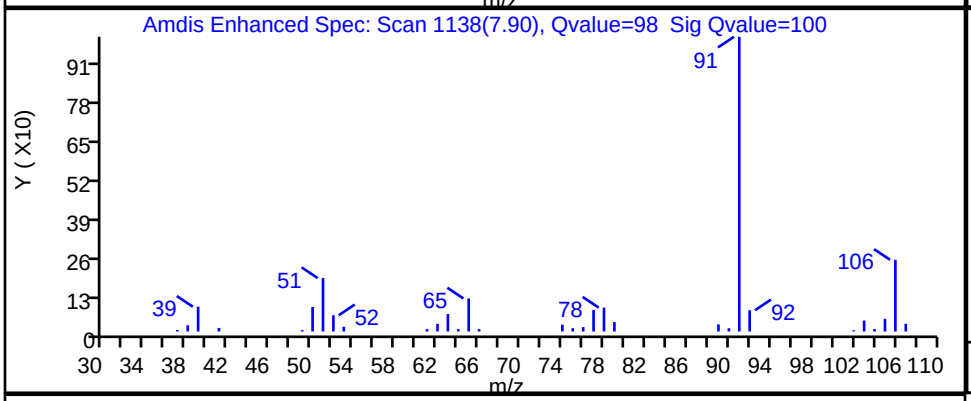
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

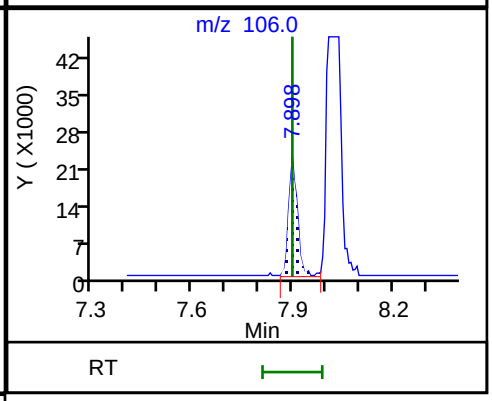
Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

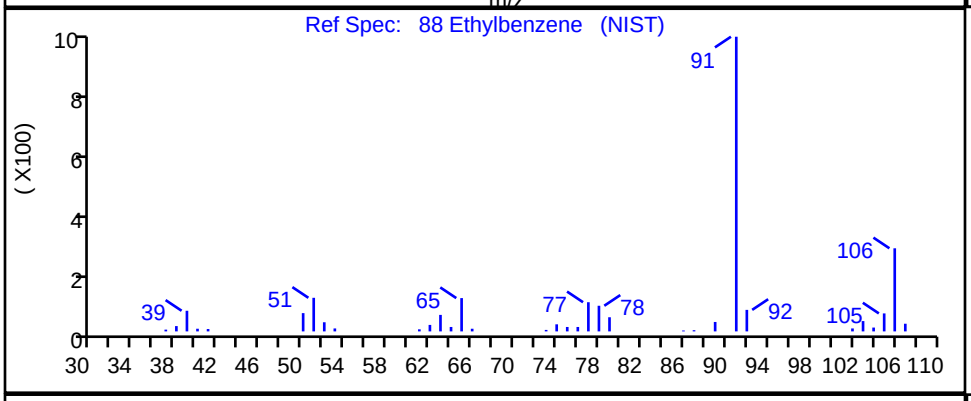
88 Ethylbenzene, CAS: 100-41-4

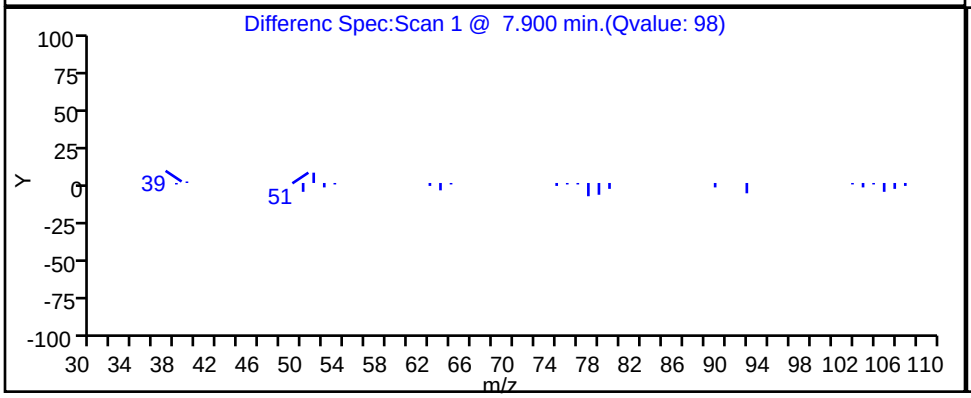


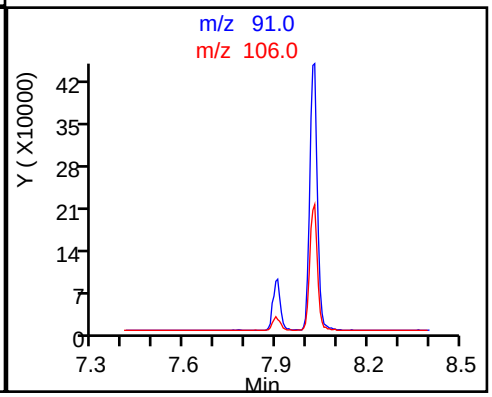












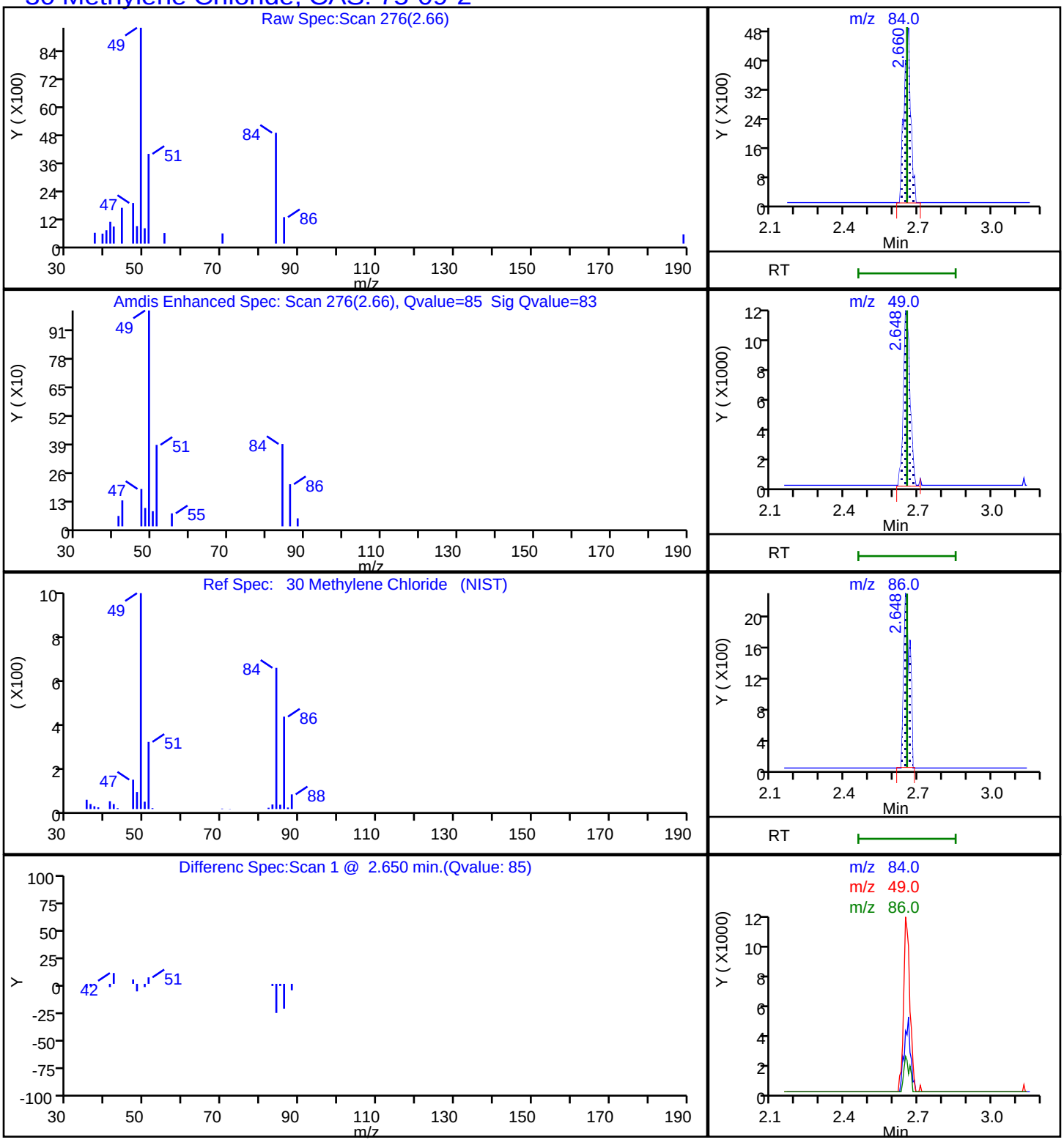
Report Date: 31-Oct-2024 15:54:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	AD	ALS Bottle#:	52 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



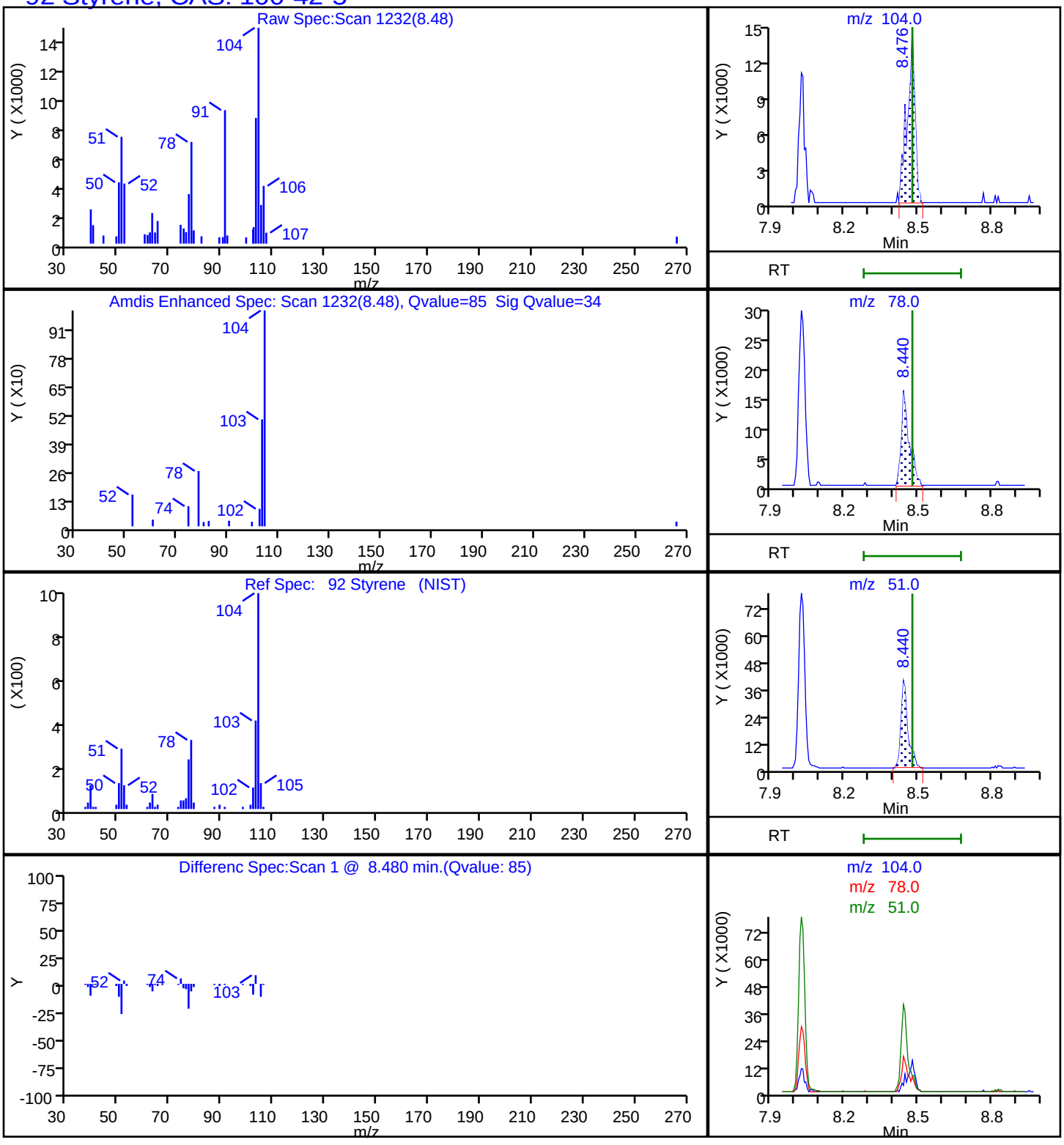
Report Date: 31-Oct-2024 15:54:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	AD	ALS Bottle#:	52 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

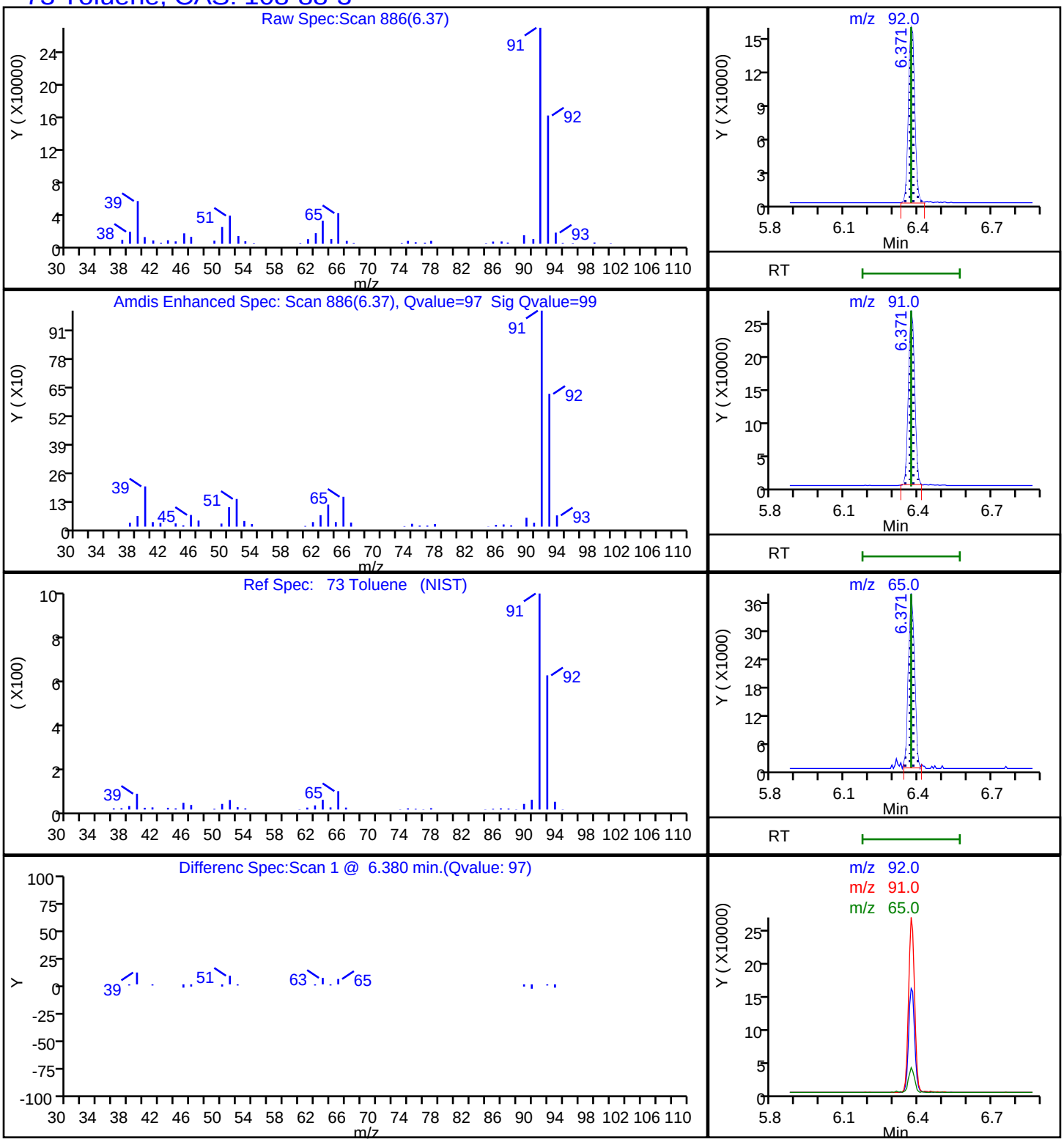
92 Styrene, CAS: 100-42-5



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d
Injection Date: 31-Oct-2024 07:08:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-10 Lab Sample ID: 480-224869-10
Client ID: MW-BCP-13B-10252024
Operator ID: AD ALS Bottle#: 52 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

73 Toluene, CAS: 108-88-3



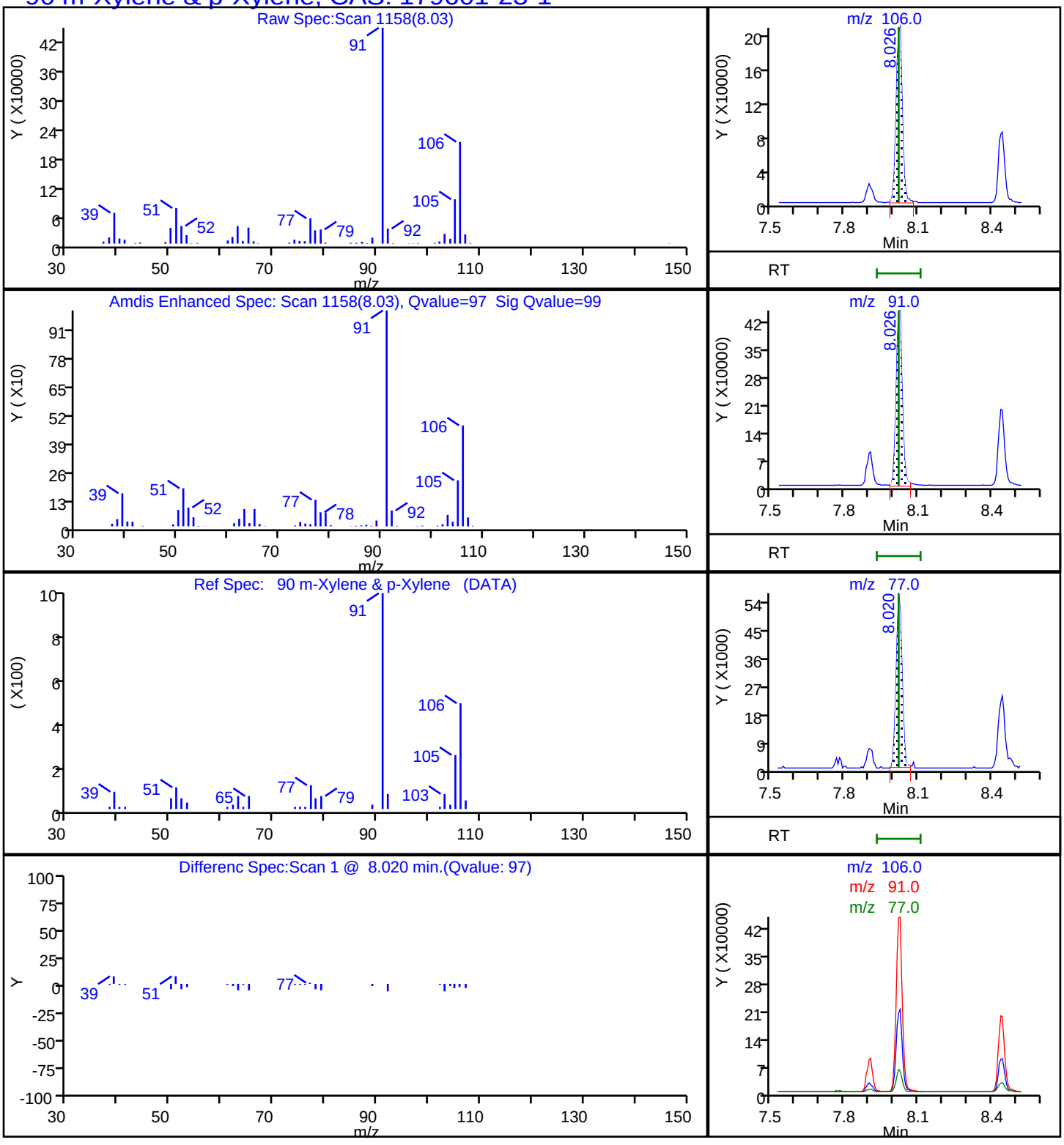
Report Date: 31-Oct-2024 15:54:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

90 m-Xylene & p-Xylene, CAS: 179601-23-1



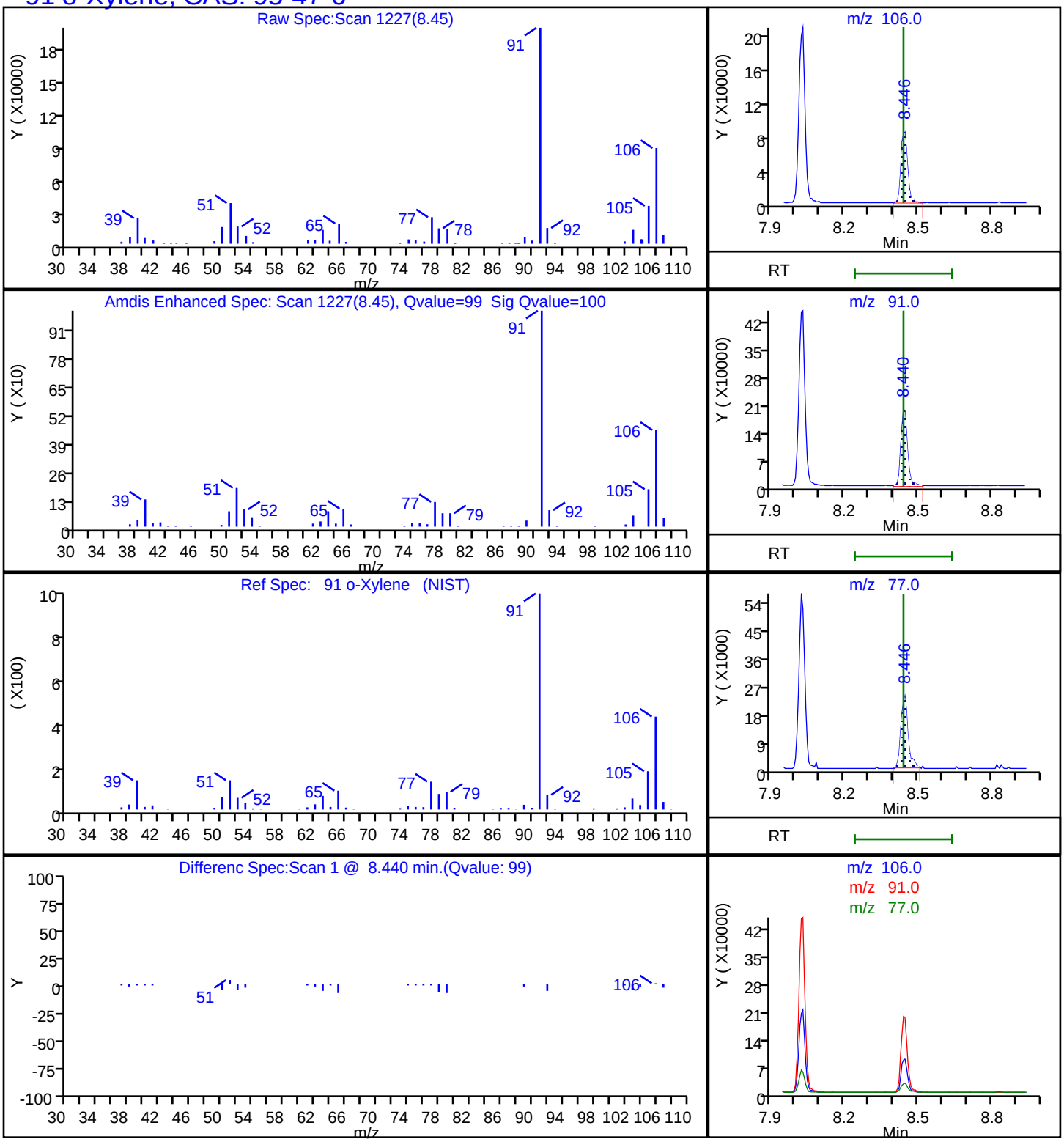
Report Date: 31-Oct-2024 15:54:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

91 o-Xylene, CAS: 95-47-6



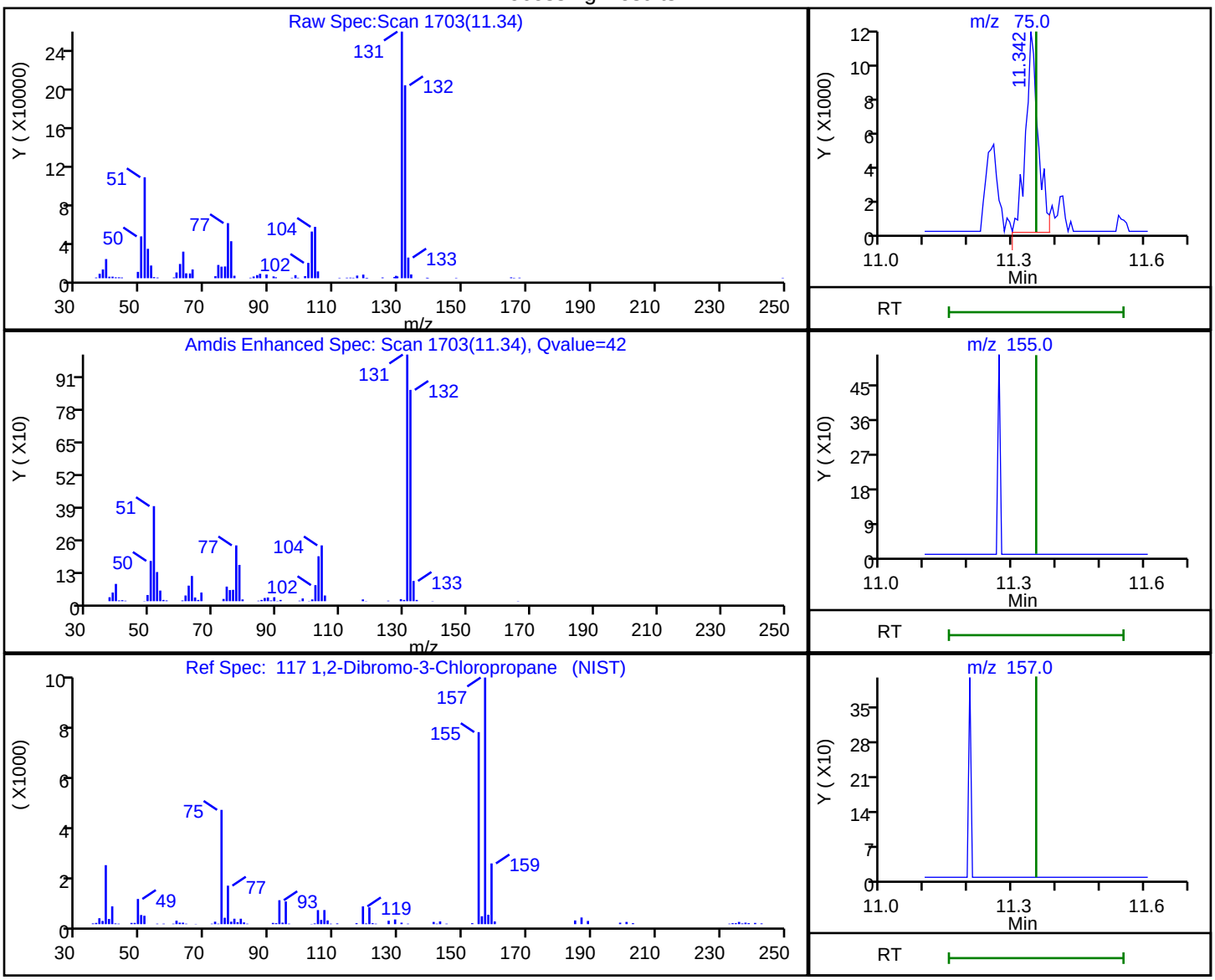
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d				
Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-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
11.34	75.00	23158	12.303121
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 15:54:32 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

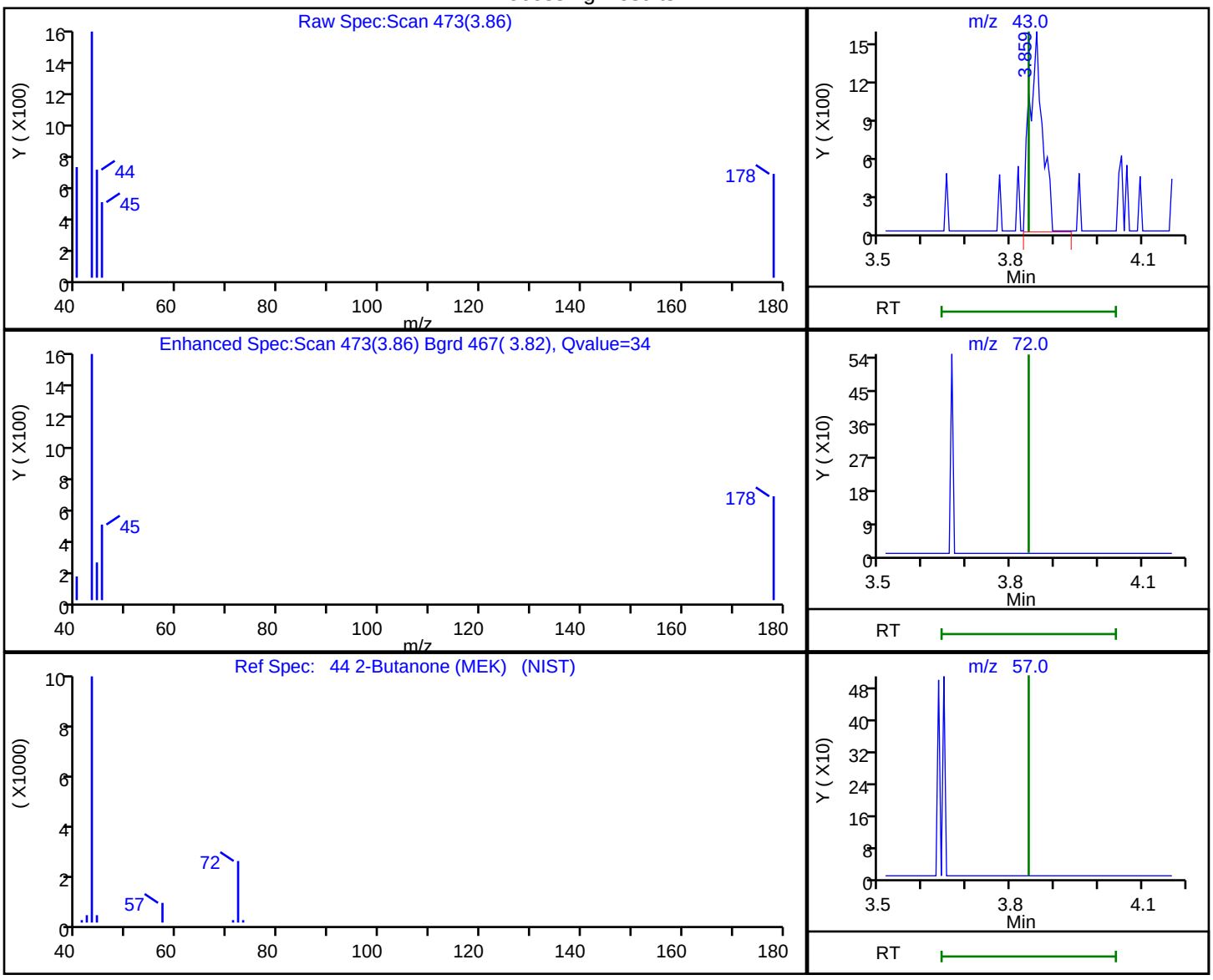
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d				
Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
3.86	43.00	3265	0.384277
3.84	72.00	0	
3.84	57.00	0	

Reviewer: HF3K, 31-Oct-2024 15:53:29 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

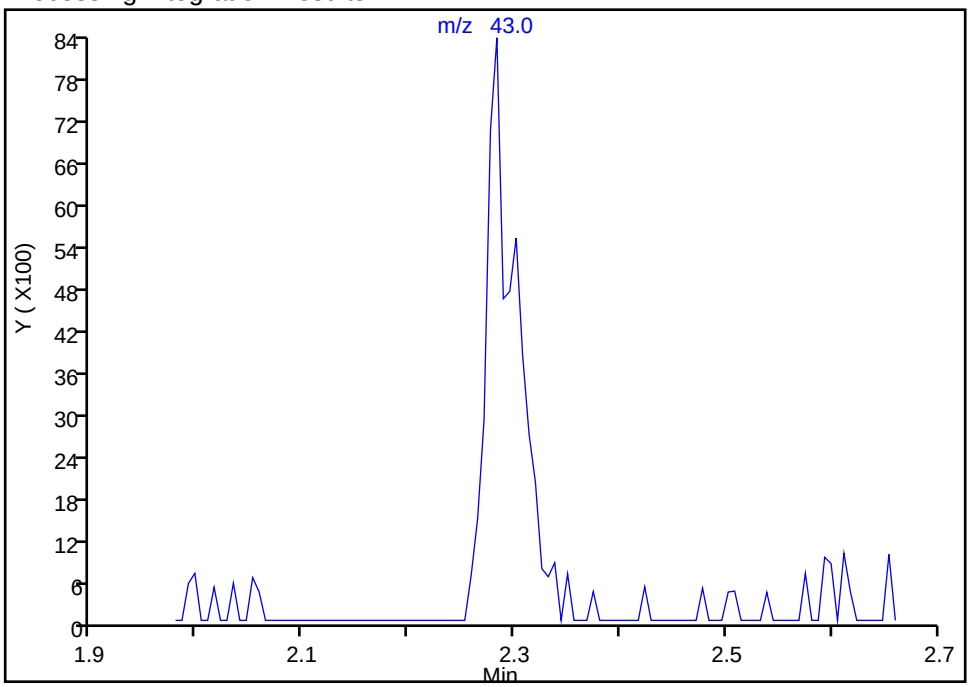
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d				
Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

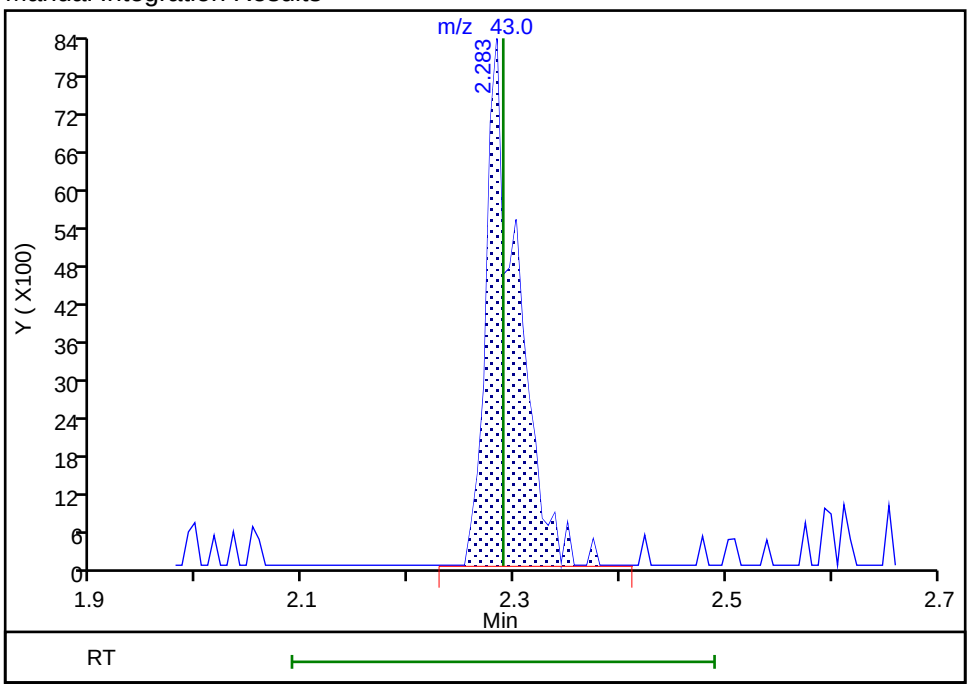
Not Detected
Expected RT: 2.29

Processing Integration Results



Manual Integration Results

RT: 2.28
Area: 17193
Amount: 3.305175
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:53:18 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

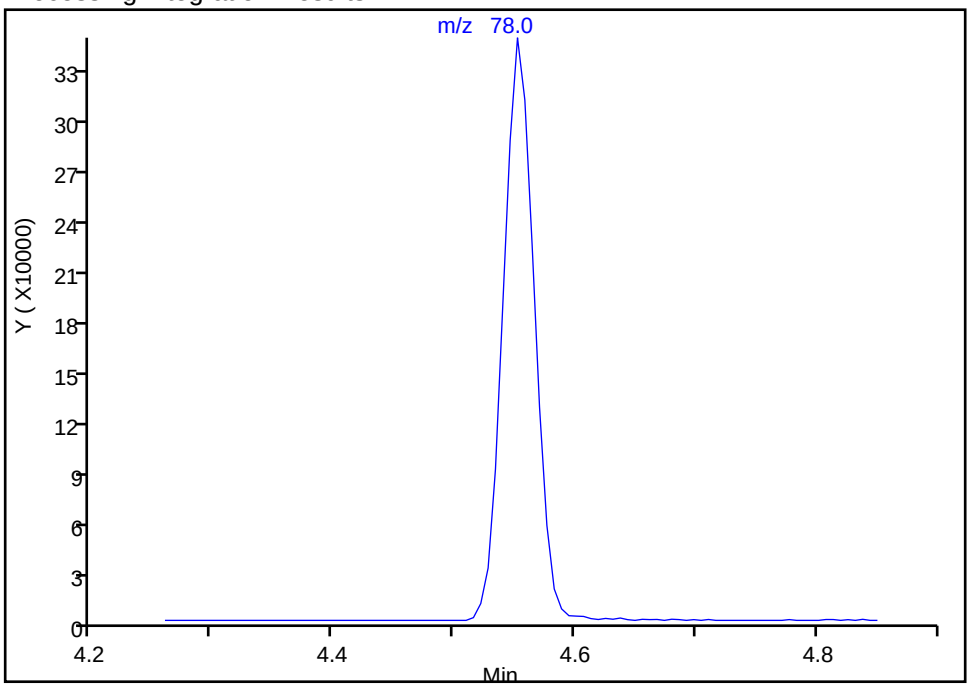
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d				
Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2

Signal: 1

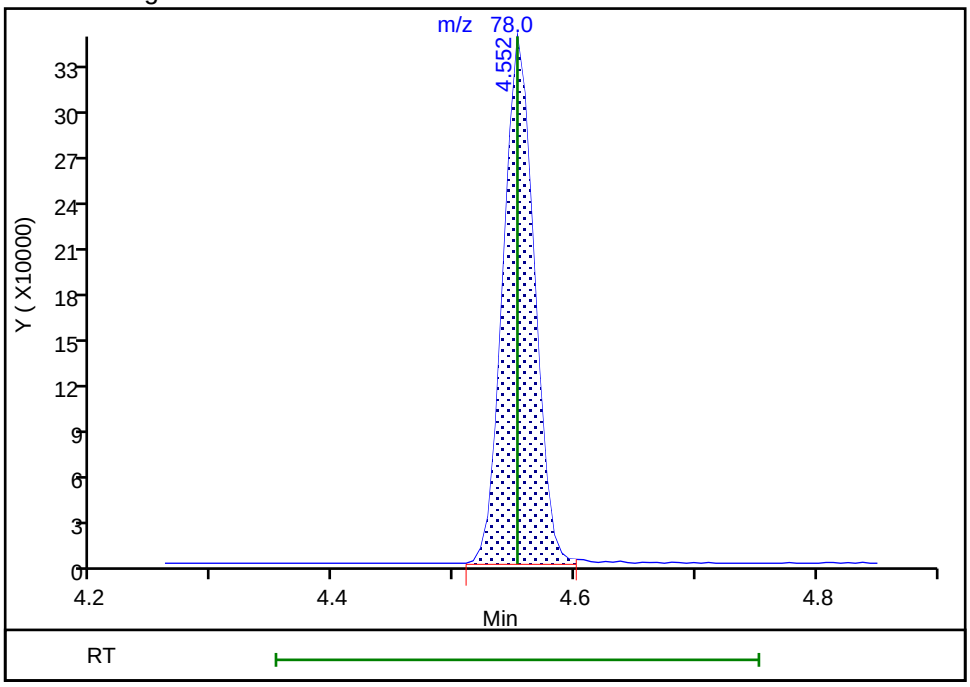
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 609688
Amount: 26.312118
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:53:40 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

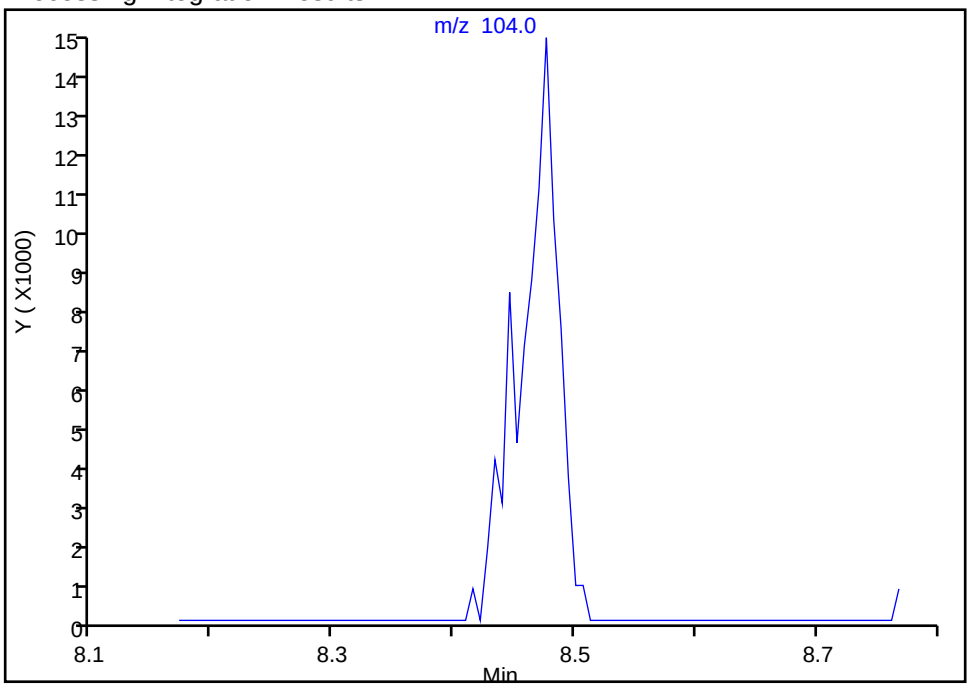
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d				
Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

92 Styrene, CAS: 100-42-5

Signal: 1

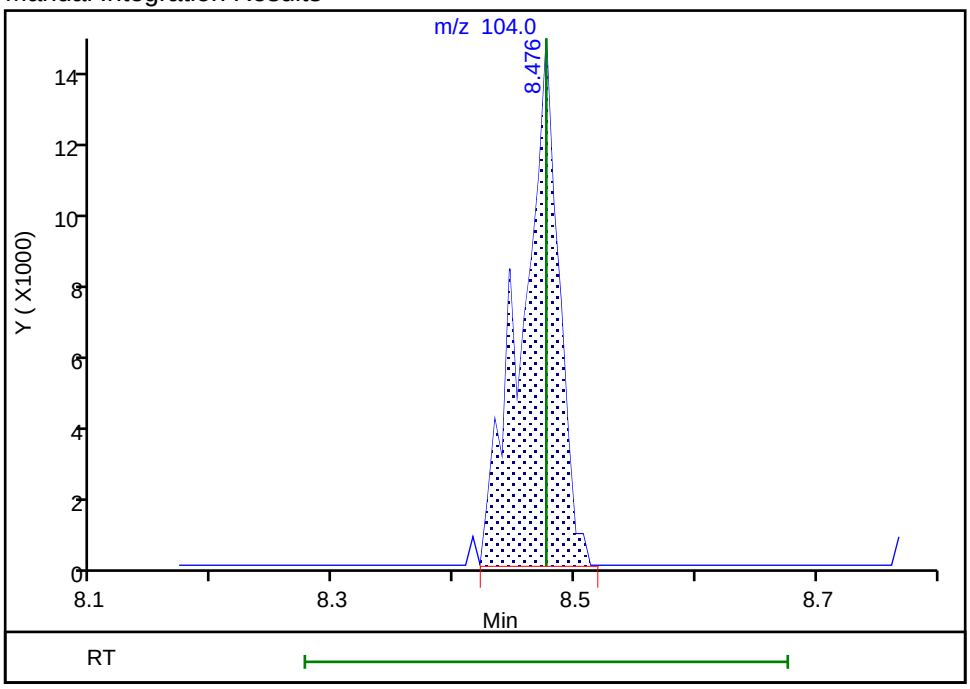
Not Detected
Expected RT: 8.48

Processing Integration Results



Manual Integration Results

RT: 8.48
Area: 29869
Amount: 1.791431
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:54:20 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-24A-10252024 | Lab Sample ID: 480-224869-11

Matrix: Water | Lab File ID: N1253.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 07:31

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-24A-10252024 | Lab Sample ID: 480-224869-11

Matrix: Water | Lab File ID: N1253.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 07:31

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	0.16	J	1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1253.d
Lims ID: 480-224869-G-11
Client ID: MW-BCP-24A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 07:31:30 ALS Bottle#: 53 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-11
Misc. Info.: 480-0120932-020
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:55:39 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:55:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	140060	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	471186	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	264604	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	90	156621	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.558	4.552	0.006	96	241228	25.5	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	96	543406	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	86	184964	27.2	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.295	2.283	0.006	30	4239	0.8343	
25 Carbon disulfide	76		2.350				ND	
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.654	2.654	0.000	83	2781	0.3307	Ma
32 Methyl tert-butyl ether	73	2.849	2.849	0.000	19	3365	0.1623	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78		4.552				ND	
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	
73 Toluene	92		6.371				ND	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91		7.898				ND	
90 m-Xylene & p-Xylene	106		8.020				ND	
91 o-Xylene	106		8.440				ND	
92 Styrene	104		8.476				ND	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

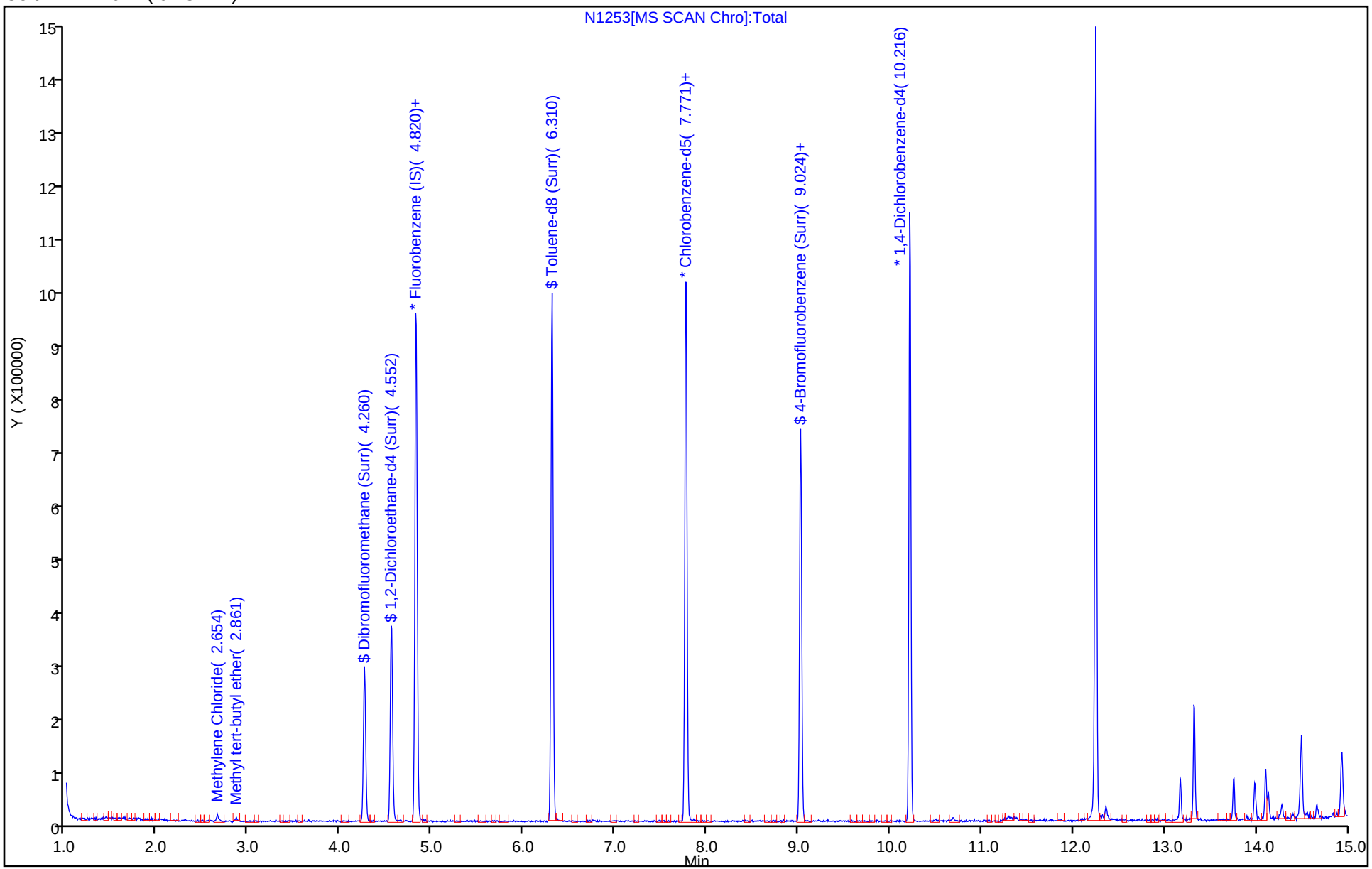
Report Date: 31-Oct-2024 15:55:39 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1253.d

Injection Date:	31-Oct-2024 07:31:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-11	Lab Sample ID:	480-224869-11	Worklist Smp#:	20
Client ID:	MW-BCP-24A-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	53
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1253.d
Lims ID: 480-224869-G-11
Client ID: MW-BCP-24A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 07:31:30 ALS Bottle#: 53 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-11
Misc. Info.: 480-0120932-020
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:55:39 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:55:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.6	98.44
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.5	101.92
$ 6 Toluene-d8 (Surr)	25.0	25.2	100.79
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.2	108.77

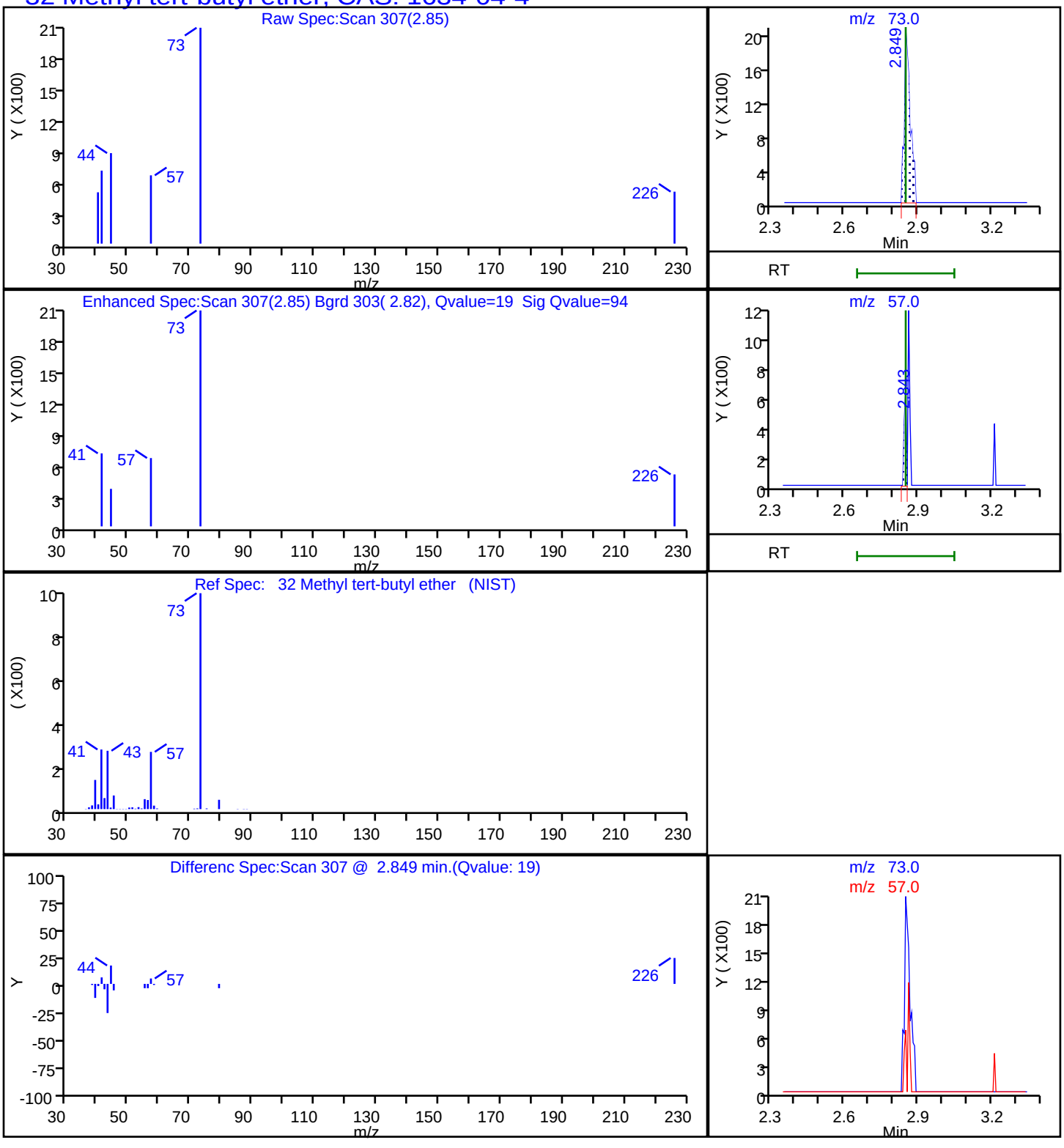
Report Date: 31-Oct-2024 15:55:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1253.d

Injection Date:	31-Oct-2024 07:31:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-11	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	AD	ALS Bottle#:	53	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

32 Methyl tert-butyl ether, CAS: 1634-04-4



Manual Integration/User Assign Peak Report

Eurofins Buffalo

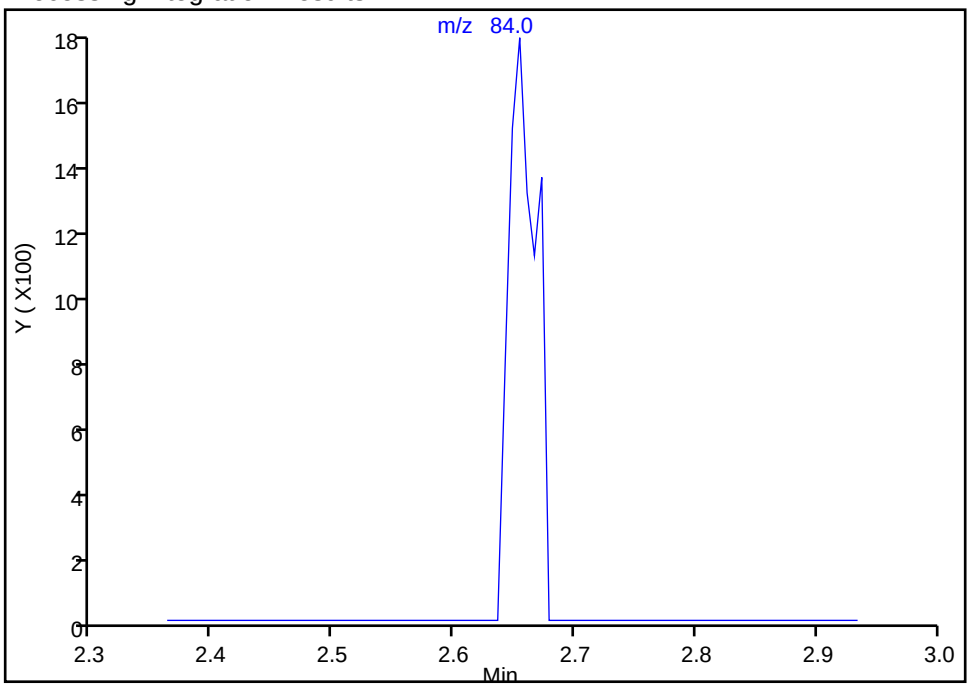
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1253.d				
Injection Date:	31-Oct-2024 07:31:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-11	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	AD	ALS Bottle#:	53	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

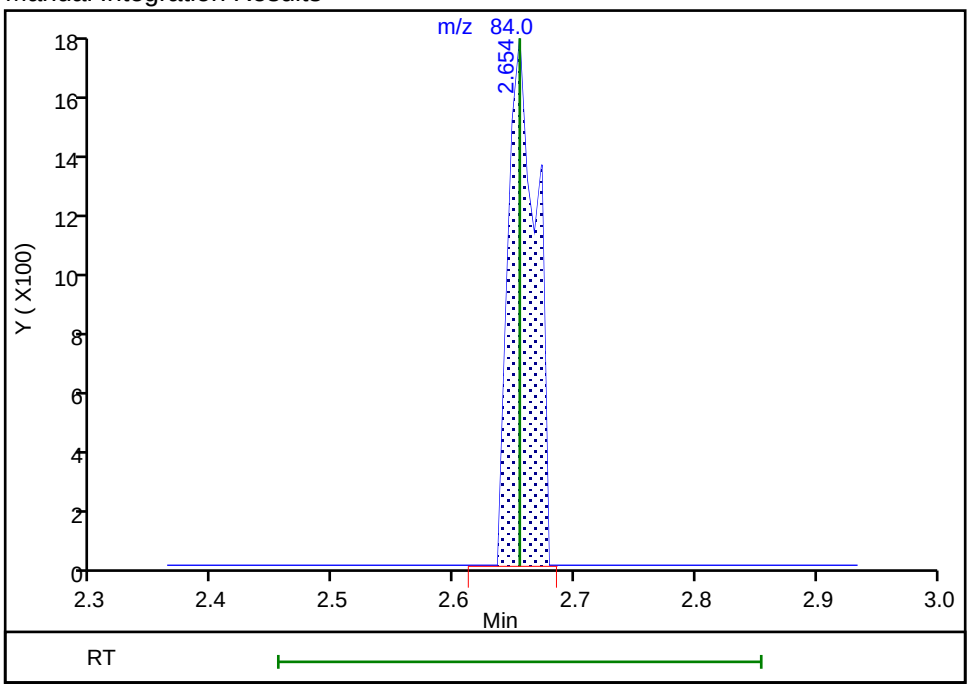
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.65
Area: 2781
Amount: 0.330723
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:55:21 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-25A-10252024 | Lab Sample ID: 480-224869-12

Matrix: Water | Lab File ID: N1254.d

Analysis Method: 8260C | Date Collected: 10/25/2024 02:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 07:54

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-25A-10252024 | Lab Sample ID: 480-224869-12

Matrix: Water | Lab File ID: N1254.d

Analysis Method: 8260C | Date Collected: 10/25/2024 02:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 07:54

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.46	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d
Lims ID: 480-224869-G-12
Client ID: MW-BCP-25A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 07:54:30 ALS Bottle#: 54 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-12
Misc. Info.: 480-0120932-021
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:56:35 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:56:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	96	139577	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	461209	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	94	266619	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	154567	24.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	239370	25.4	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	96	540754	25.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	86	178561	26.8	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.289	2.289	0.000	80	14228	2.81	a
25 Carbon disulfide	76		2.350				ND	7
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.648	2.648	-0.006	84	3511	0.4591	a
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78		4.552				ND	
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	U
73 Toluene	92		6.371				ND	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91		7.898				ND	
90 m-Xylene & p-Xylene	106		8.020				ND	
91 o-Xylene	106		8.440				ND	
92 Styrene	104		8.476				ND	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	7
113 1,4-Dichlorobenzene	146		10.240				ND	7
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

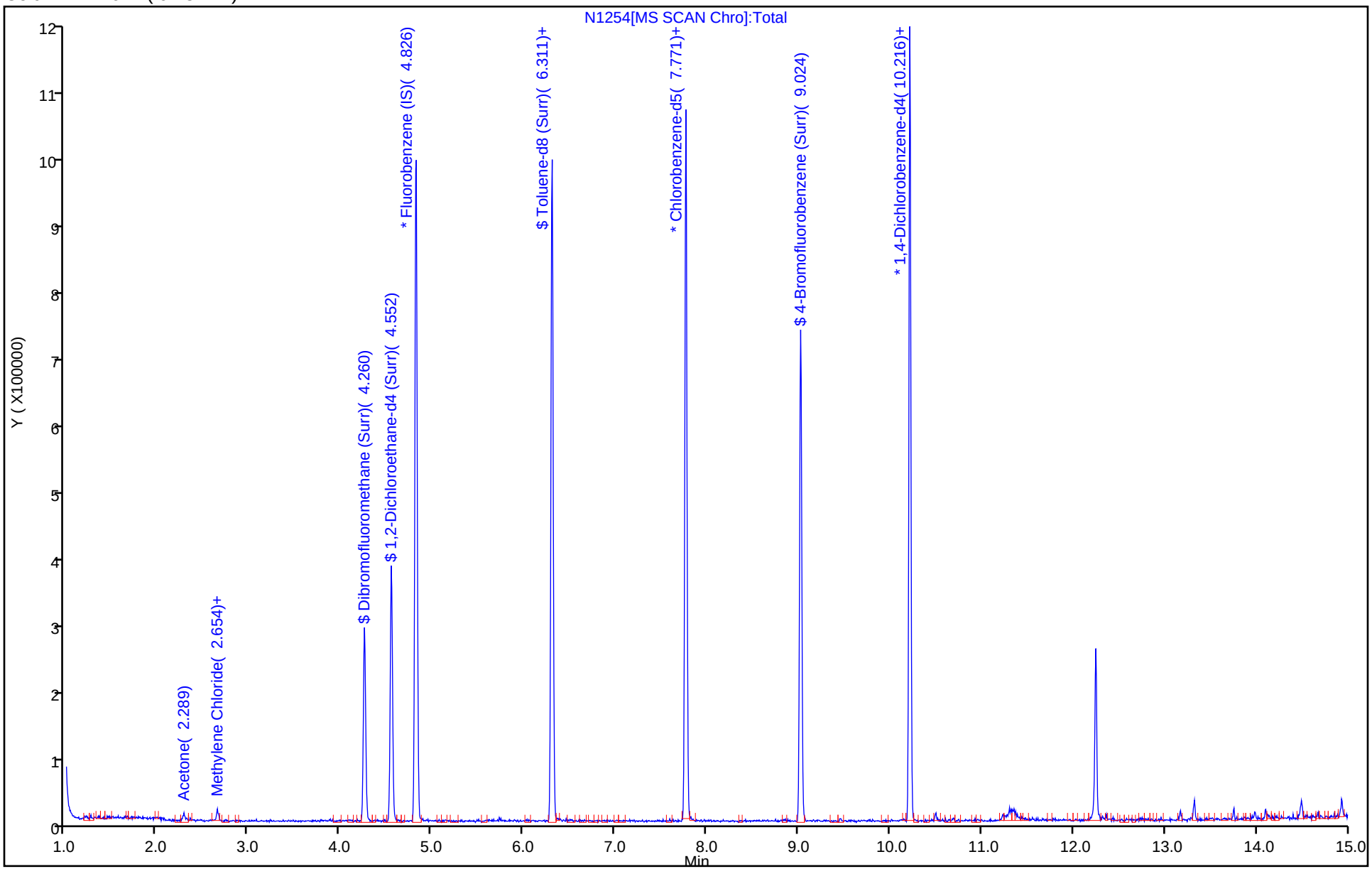
Report Date: 31-Oct-2024 15:56:35 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d

Injection Date:	31-Oct-2024 07:54:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-12	Lab Sample ID:	480-224869-12	Worklist Smp#:	21
Client ID:	MW-BCP-25A-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	54
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d
Lims ID: 480-224869-G-12
Client ID: MW-BCP-25A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 07:54:30 ALS Bottle#: 54 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-12
Misc. Info.: 480-0120932-021
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:56:35 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:56:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.4	97.48
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.4	101.48
$ 6 Toluene-d8 (Surr)	25.0	25.6	102.46
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.8	107.28

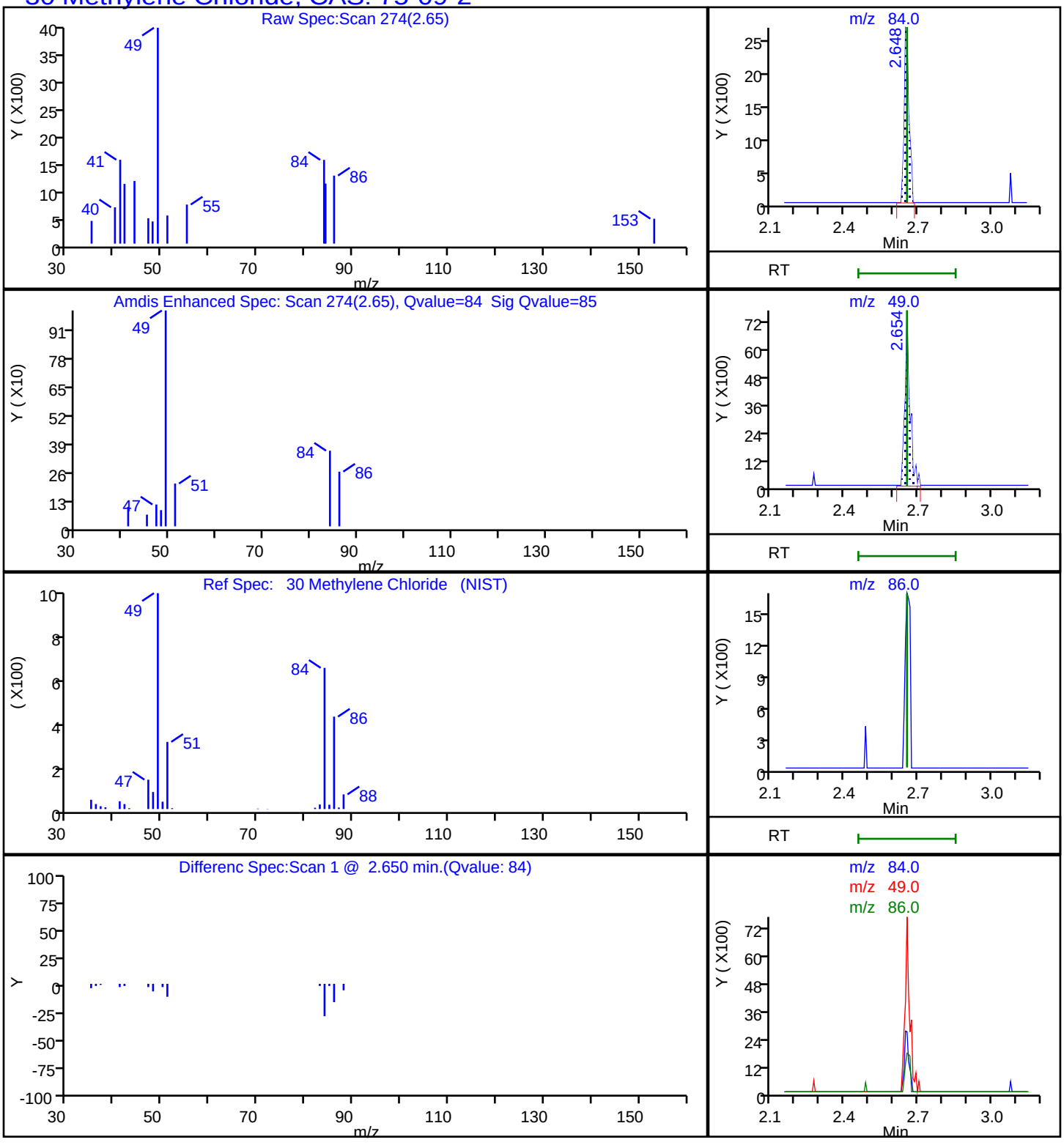
Report Date: 31-Oct-2024 15:56:35 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d

Injection Date:	31-Oct-2024 07:54:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-12	Lab Sample ID:	480-224869-12
Client ID:	MW-BCP-25A-10252024		
Operator ID:	AD	ALS Bottle#:	54 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



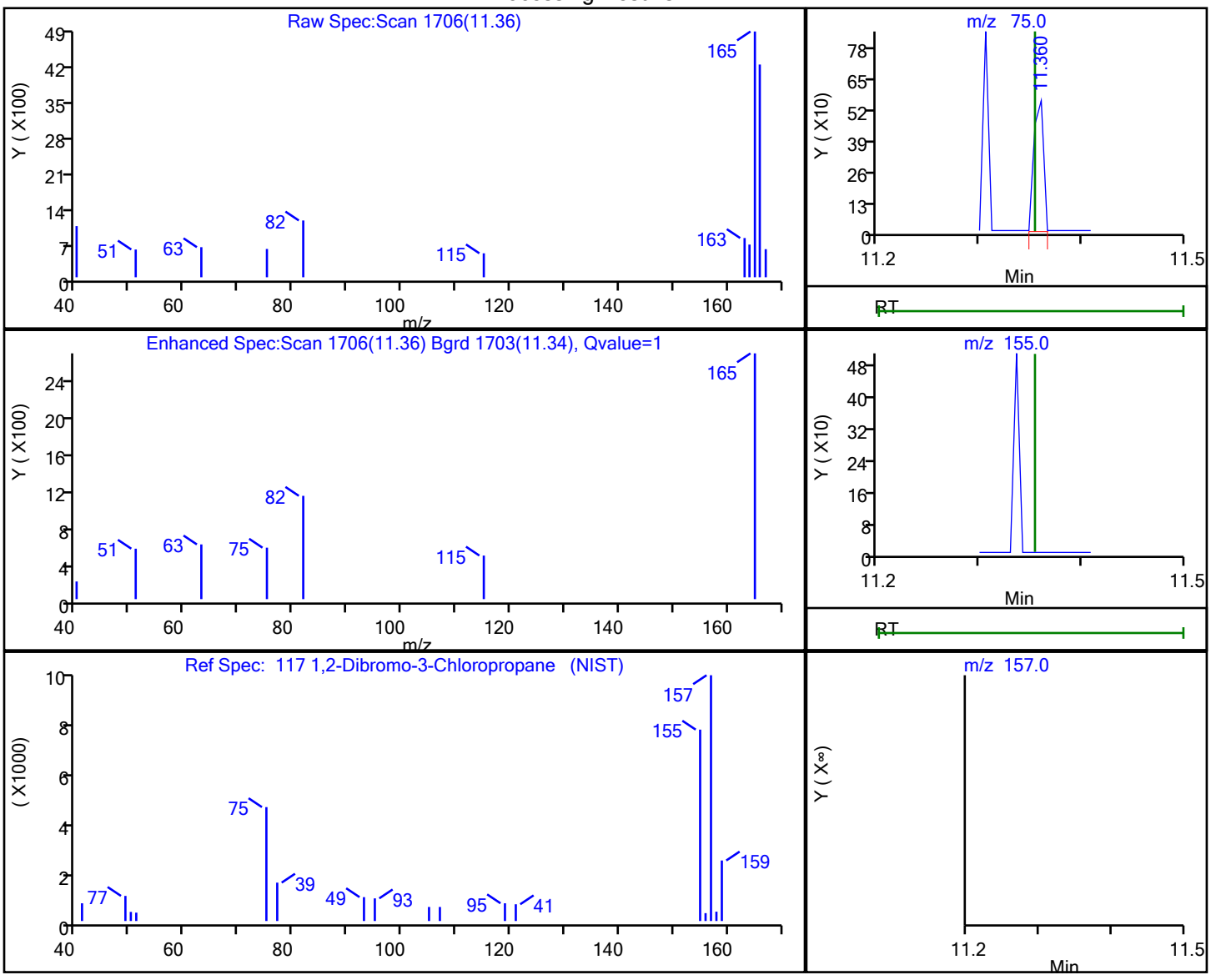
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d				
Injection Date:	31-Oct-2024 07:54:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-12	Lab Sample ID:	480-224869-12		
Client ID:	MW-BCP-25A-10252024				
Operator ID:	AD	ALS Bottle#:	54	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-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
11.36	75.00	368	0.197375
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 15:56:31 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

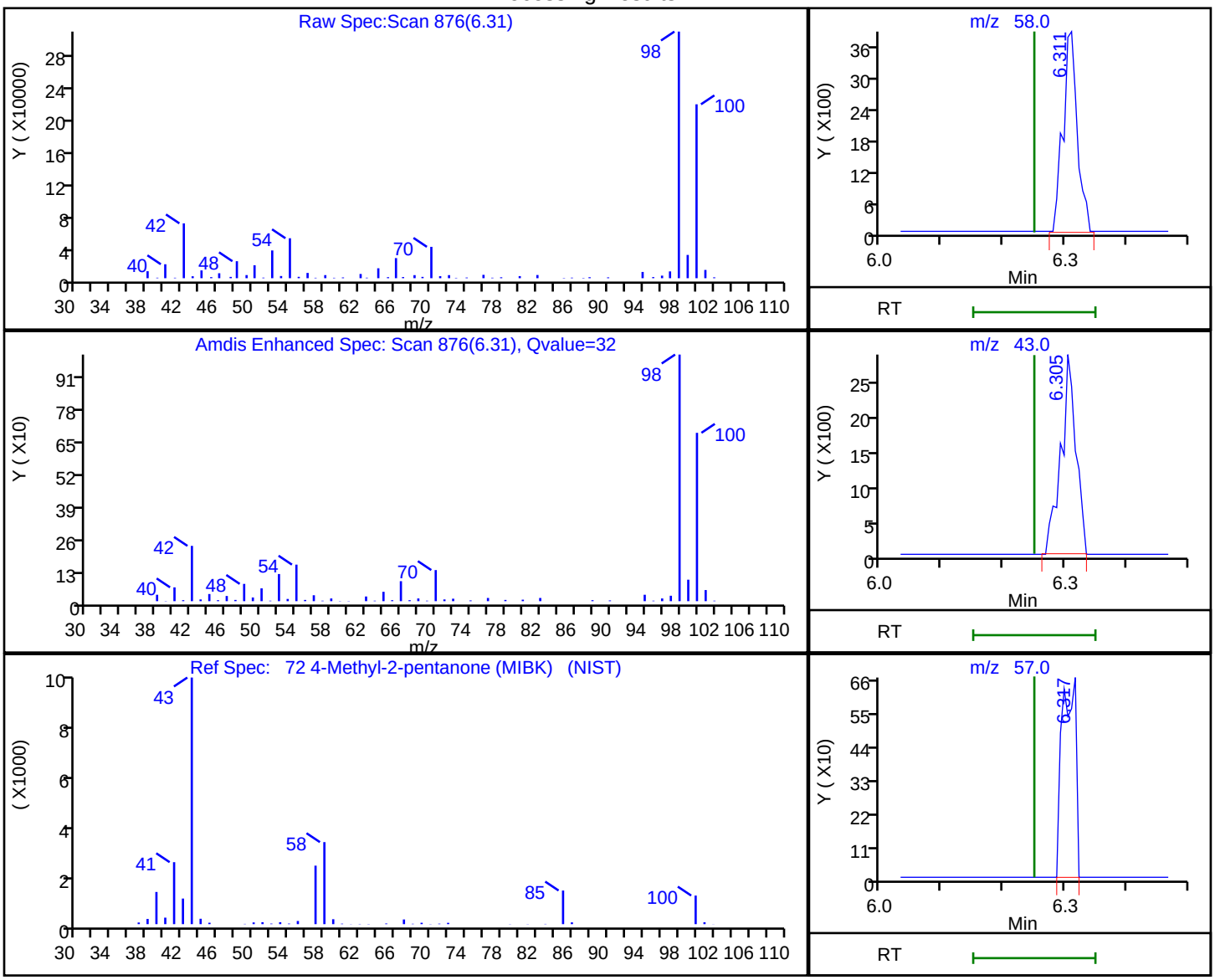
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d				
Injection Date:	31-Oct-2024 07:54:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-12	Lab Sample ID:	480-224869-12		
Client ID:	MW-BCP-25A-10252024				
Operator ID:	AD	ALS Bottle#:	54	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.31	58.00	6255	1.232588
6.30	43.00	4892	
6.32	57.00	1052	

Reviewer: HF3K, 31-Oct-2024 15:56:19 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

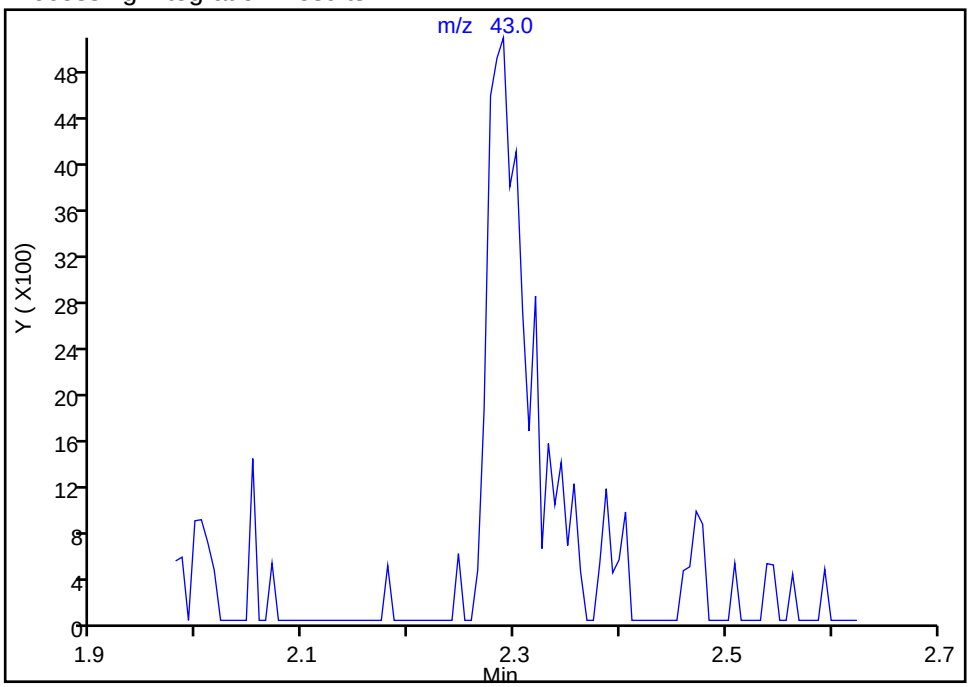
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d				
Injection Date:	31-Oct-2024 07:54:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-12	Lab Sample ID:	480-224869-12		
Client ID:	MW-BCP-25A-10252024				
Operator ID:	AD	ALS Bottle#:	54	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

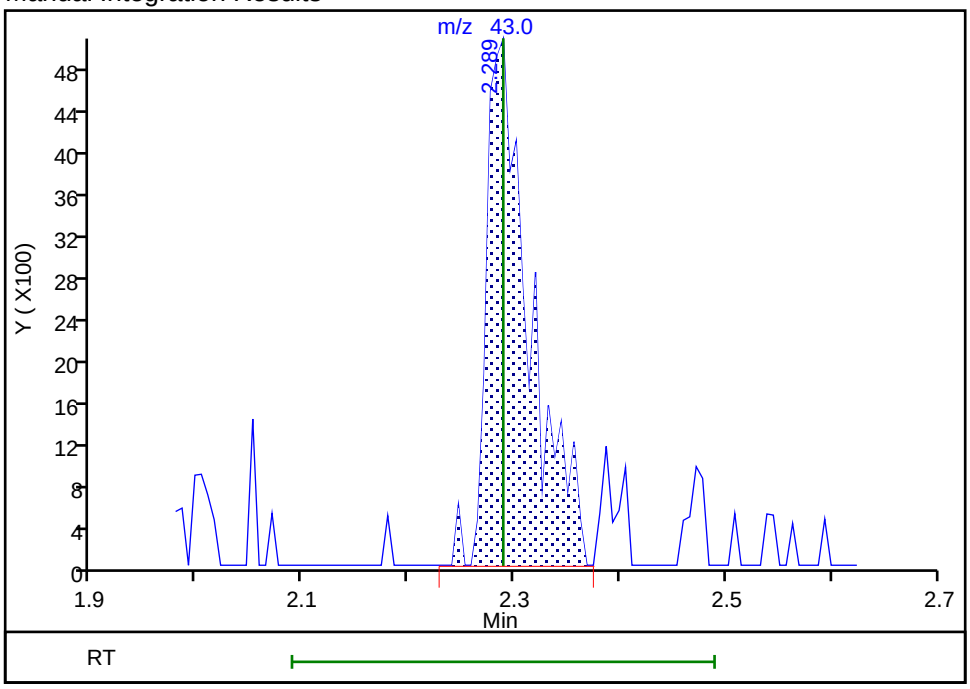
Not Detected
Expected RT: 2.29

Processing Integration Results



Manual Integration Results

RT: 2.29
Area: 14228
Amount: 2.809905
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:55:56 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

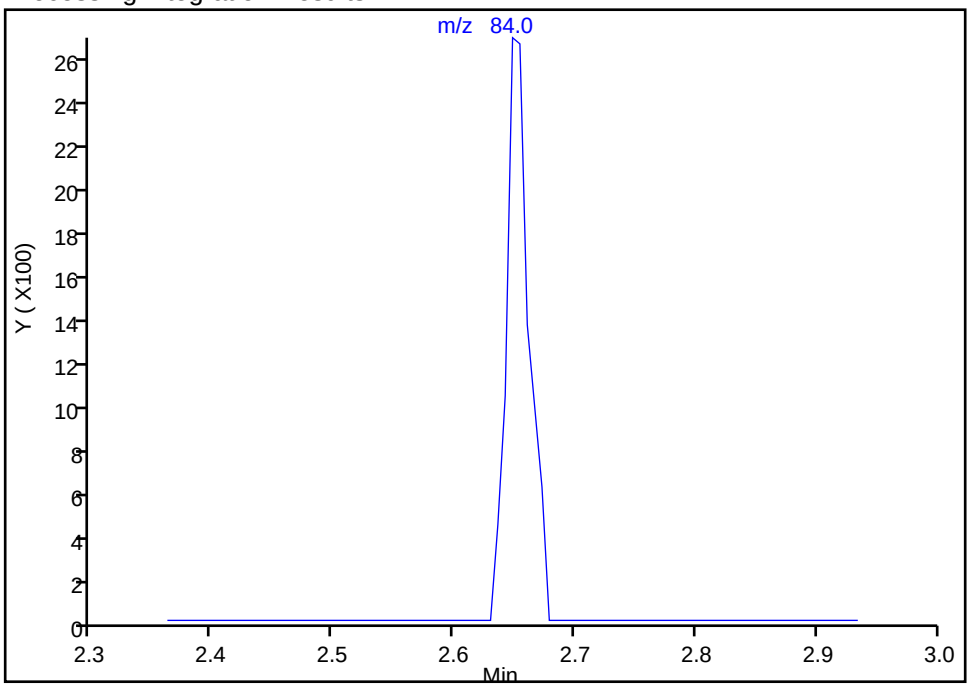
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d				
Injection Date:	31-Oct-2024 07:54:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-12	Lab Sample ID:	480-224869-12		
Client ID:	MW-BCP-25A-10252024				
Operator ID:	AD	ALS Bottle#:	54	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

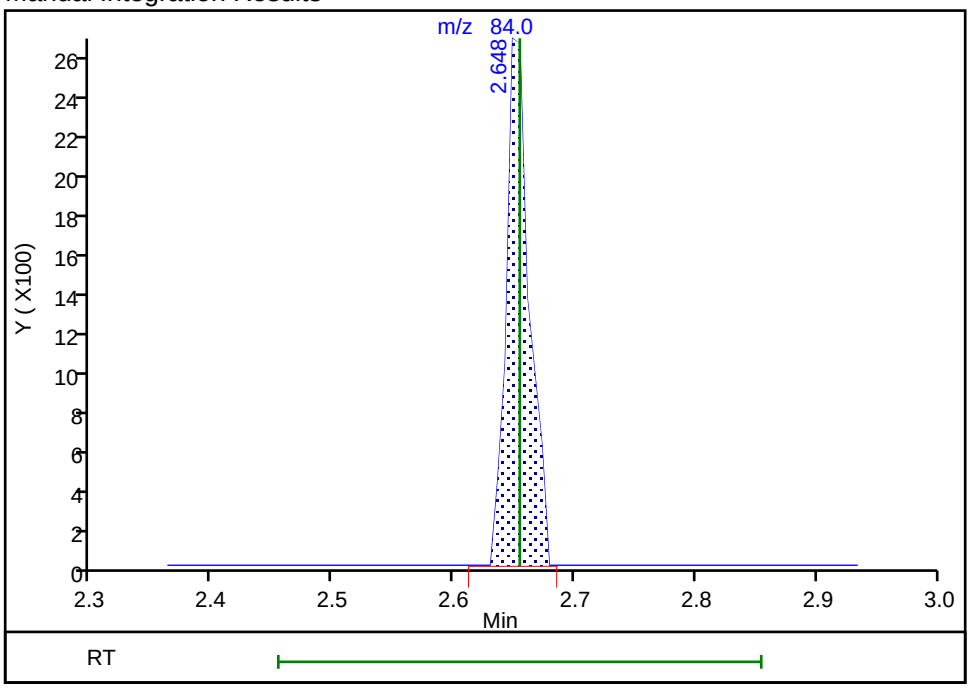
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.65
Area: 3511
Amount: 0.459071
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:56:04 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 | Lab Sample ID: 480-224869-13

Matrix: Water | Lab File ID: N1255.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 08:16

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	3.0		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	0.21	J	1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 | Lab Sample ID: 480-224869-13

Matrix: Water | Lab File ID: N1255.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 08:16

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	1.4		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	0.24	J	1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	2.4		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	6.0		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d
Lims ID: 480-224869-E-13
Client ID: MW-BCP-19B-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 08:16:30 ALS Bottle#: 55 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-E-13
Misc. Info.: 480-0120932-022
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:58:40 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:58:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	143533	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	481949	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	254741	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	156958	24.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	94	242057	24.9	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	95	542384	24.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	87	189797	27.3	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.295	2.289	0.006	97	9087	1.75	
25 Carbon disulfide	76	2.356	2.356	0.006	67	3665	0.2068	Ma
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.660	2.660	0.006	86	2516	0.2744	a
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	7
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78	4.552	4.552	0.000	52	70337	3.03	a
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.258	5.258	-0.012	81	2326	0.2386	Ma
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	
73 Toluene	92	6.377	6.365	0.006	98	30970	2.35	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91	7.904	7.898	0.006	98	35188	1.40	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	97	23961	2.43	
91 o-Xylene	106	8.446	8.434	0.006	97	35797	3.62	
92 Styrene	104	8.470	8.470	-0.006	1	3146	0.1955	a
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105	8.835	8.835	0.006	92	8606	0.3410	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	7
113 1,4-Dichlorobenzene	146		10.240				ND	7
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1				0		6.05	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

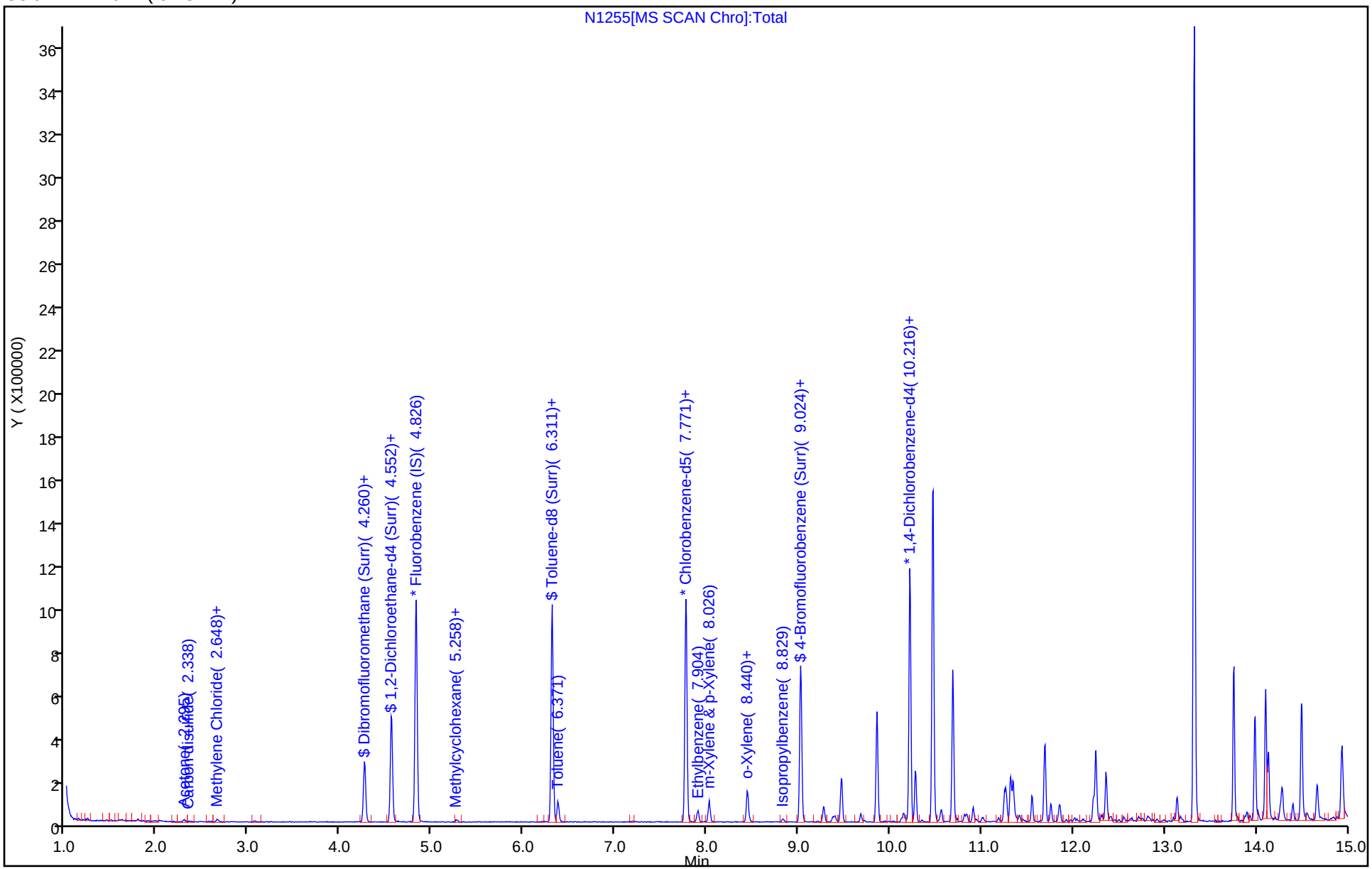
Report Date: 31-Oct-2024 15:58:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13	Worklist Smp#:	22
Client ID:	MW-BCP-19B-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	55
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d
Lims ID: 480-224869-E-13
Client ID: MW-BCP-19B-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 08:16:30 ALS Bottle#: 55 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-E-13
Misc. Info.: 480-0120932-022
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:58:40 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:58:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.1	96.26
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.9	99.79
$ 6 Toluene-d8 (Surr)	25.0	24.6	98.35
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.3	109.12

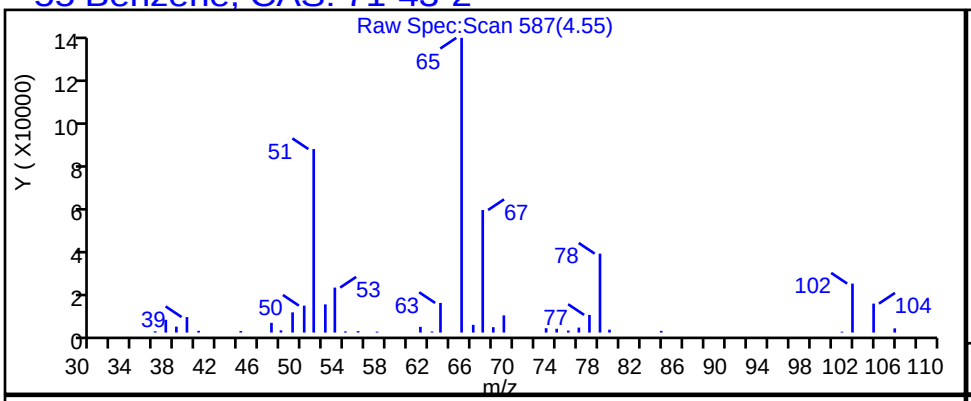
Report Date: 31-Oct-2024 15:58:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

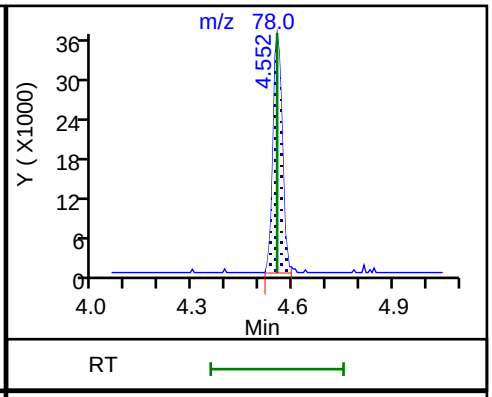
Eurofins Buffalo

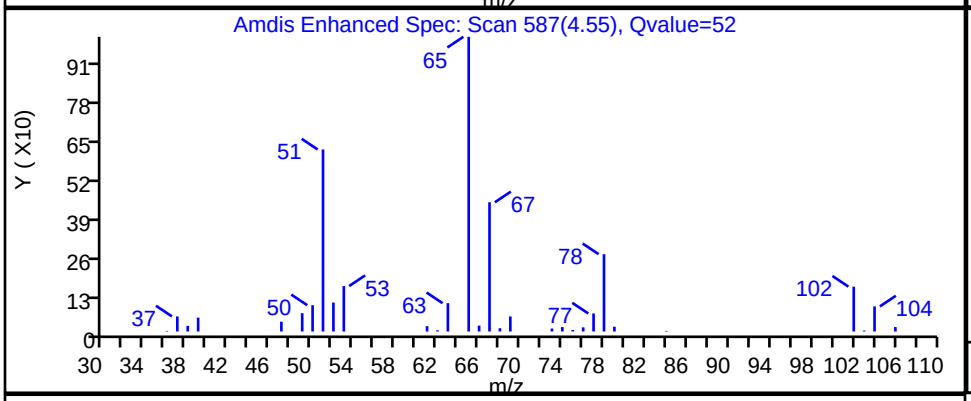
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

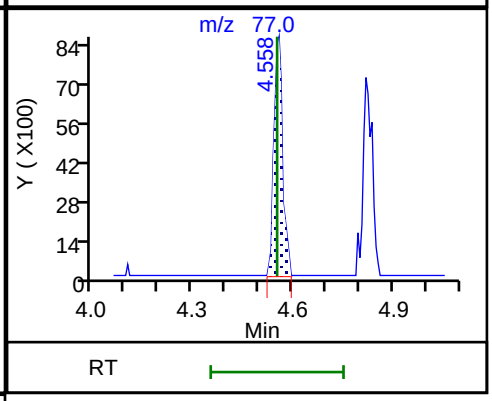
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

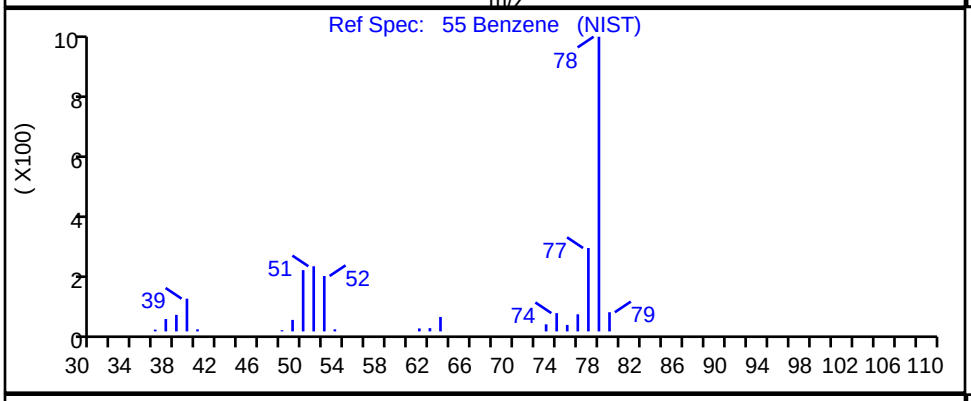
55 Benzene, CAS: 71-43-2

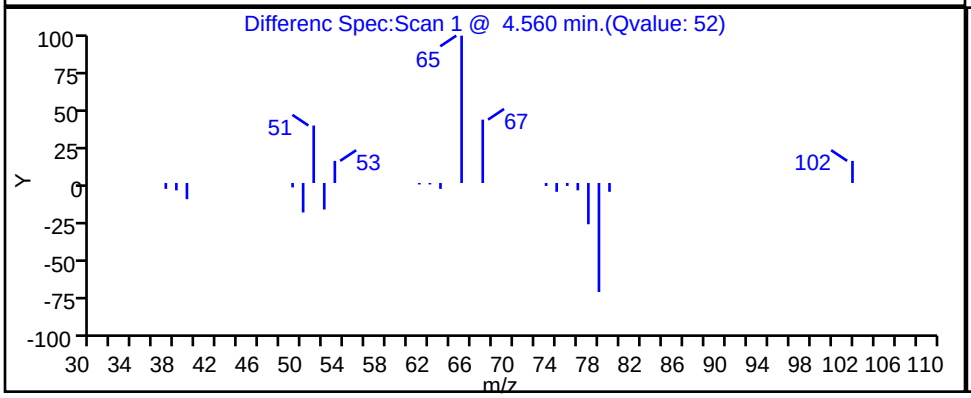


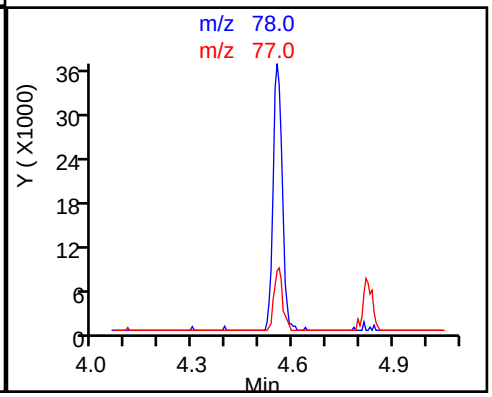










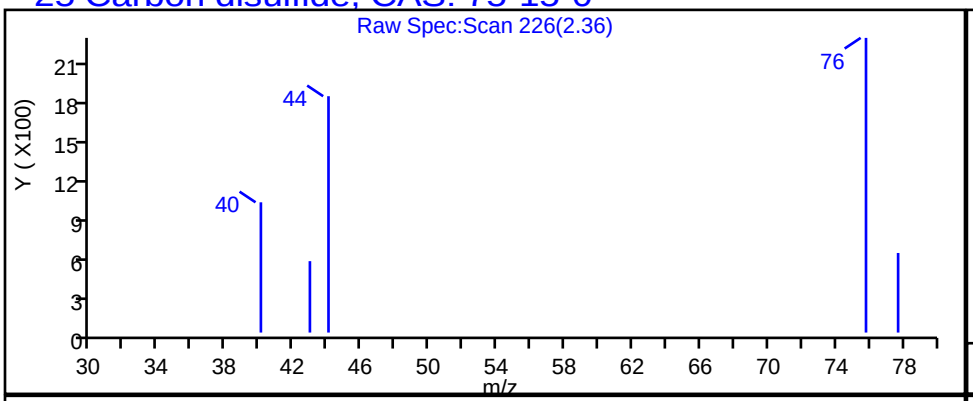


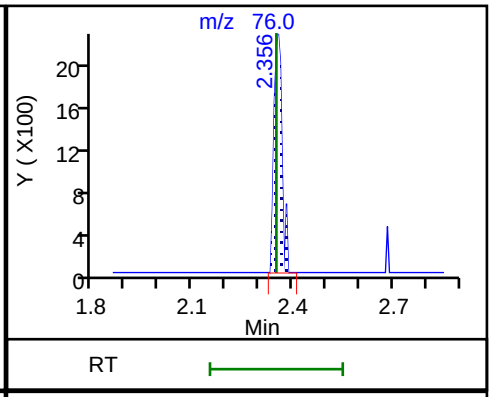
Eurofins Buffalo

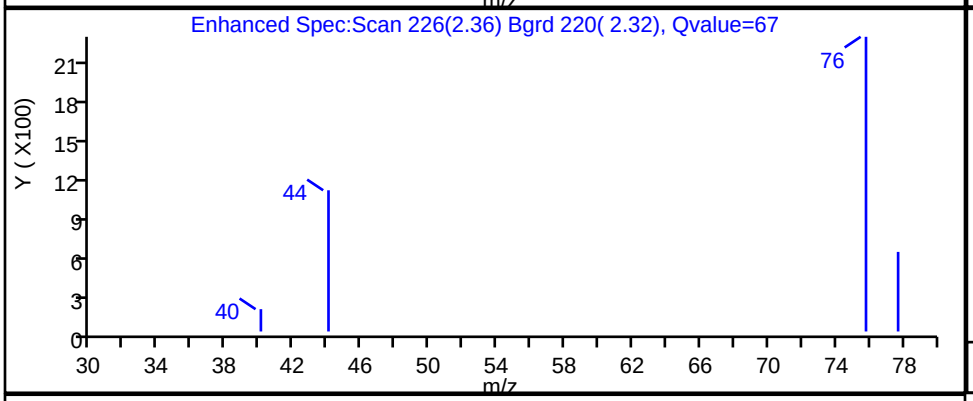
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

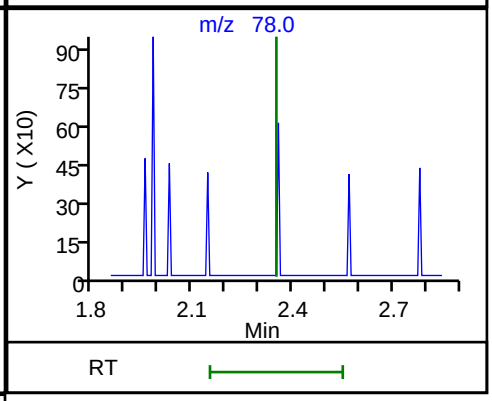
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

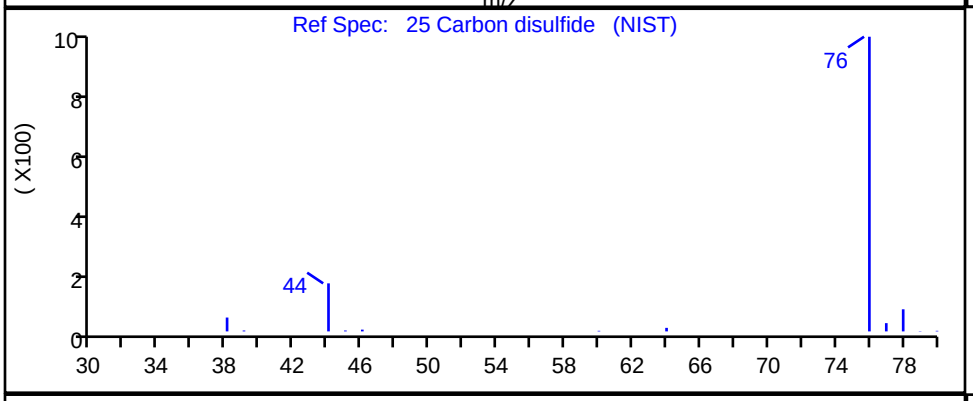
25 Carbon disulfide, CAS: 75-15-0

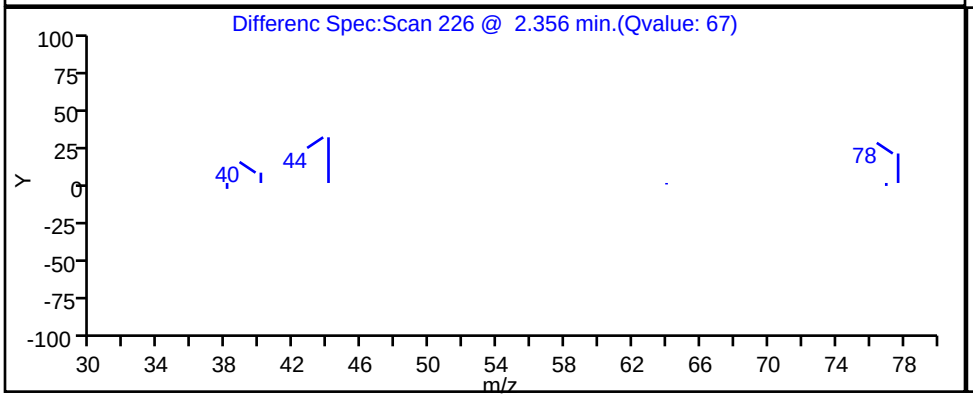


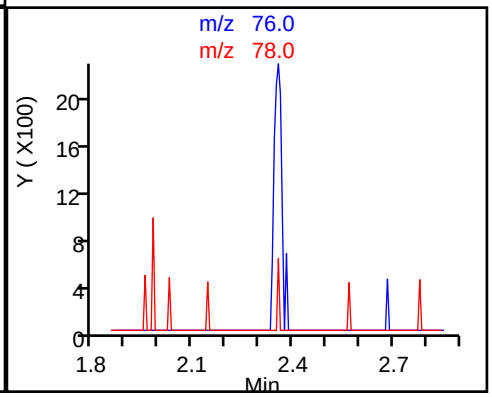












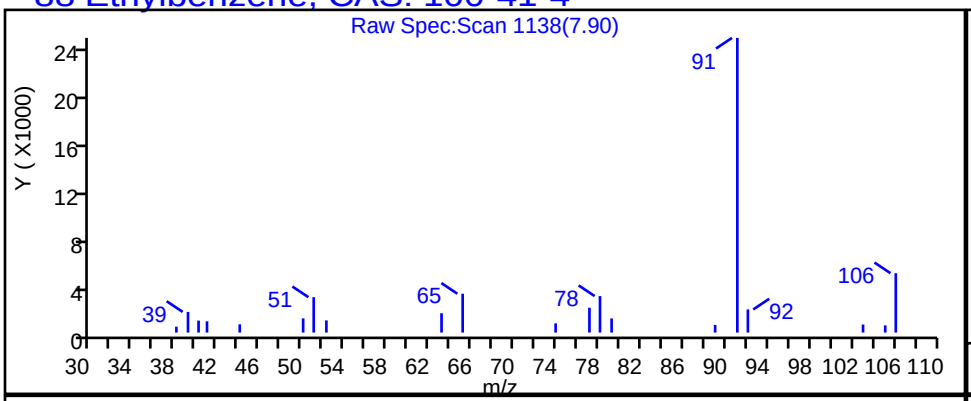
Report Date: 31-Oct-2024 15:58:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

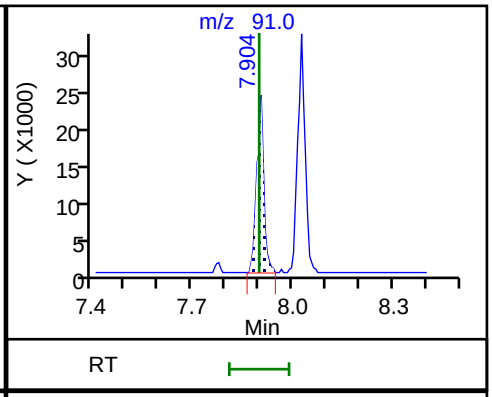
Eurofins Buffalo

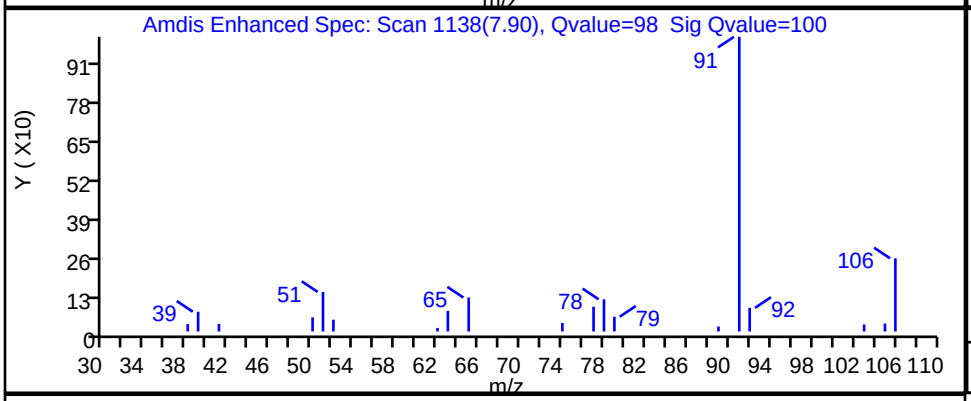
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

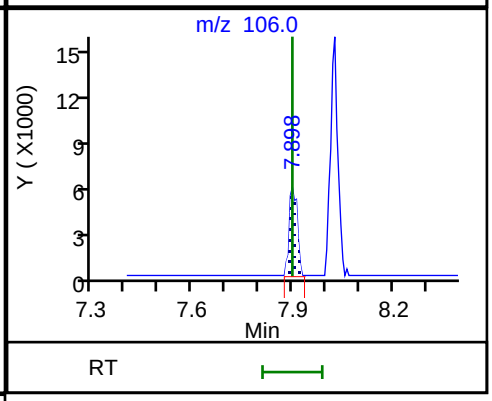
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

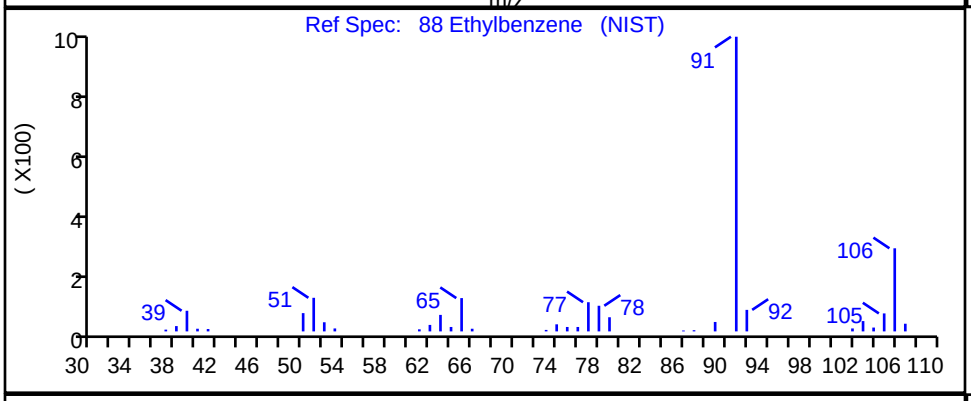
88 Ethylbenzene, CAS: 100-41-4

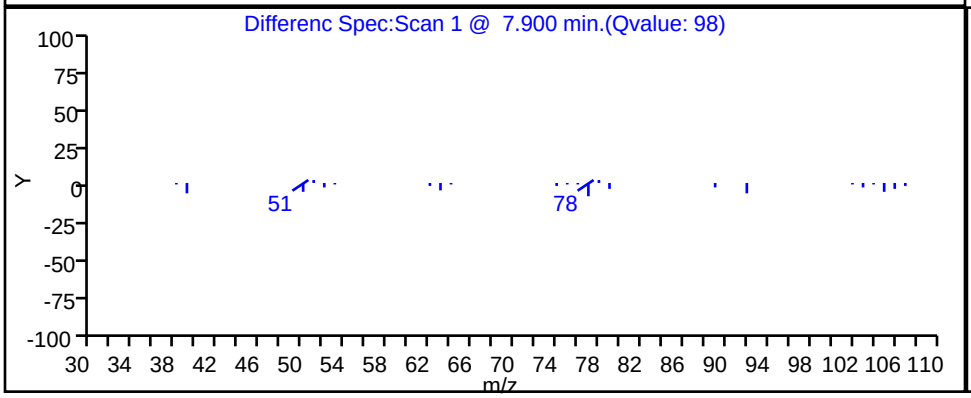


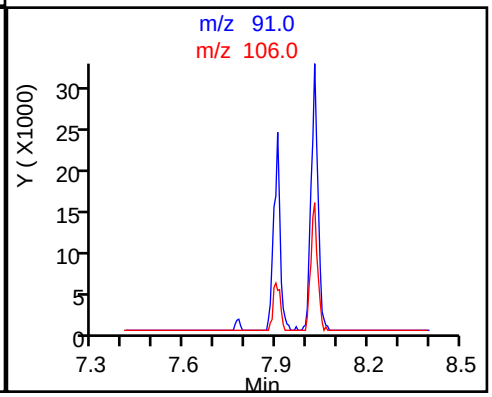












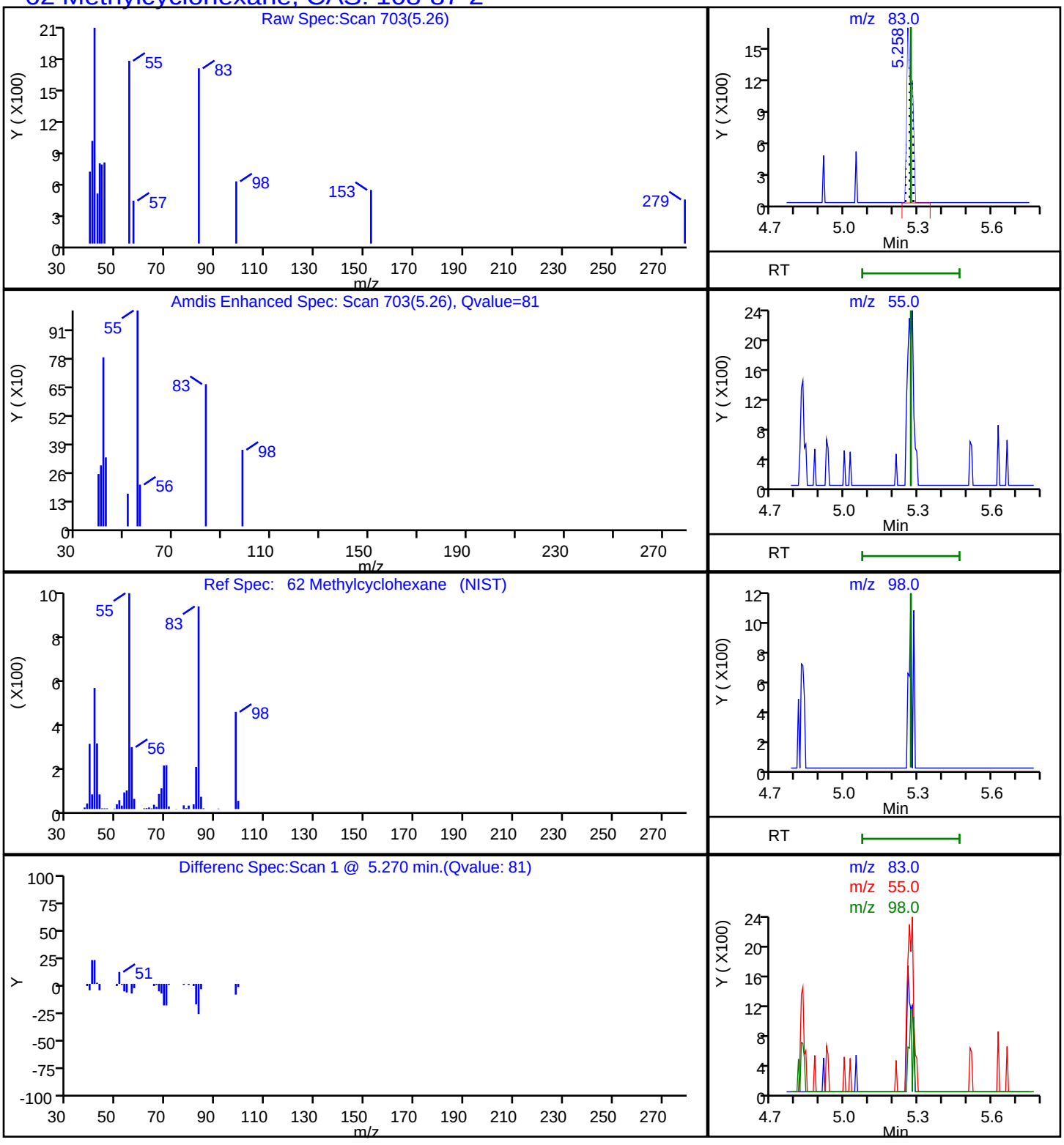
Report Date: 31-Oct-2024 15:58:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Methylcyclohexane, CAS: 108-87-2



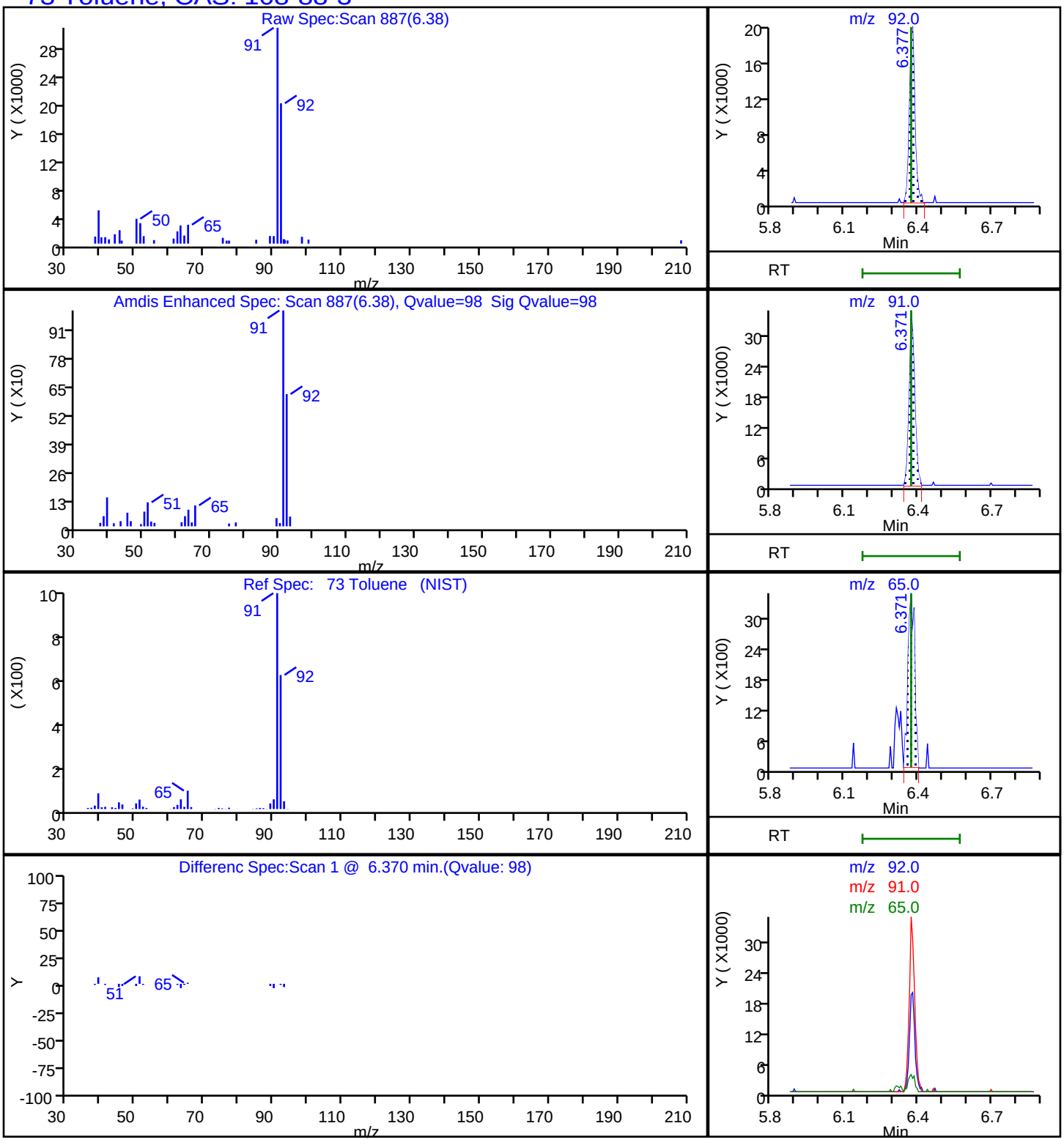
Report Date: 31-Oct-2024 15:58:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

73 Toluene, CAS: 108-88-3



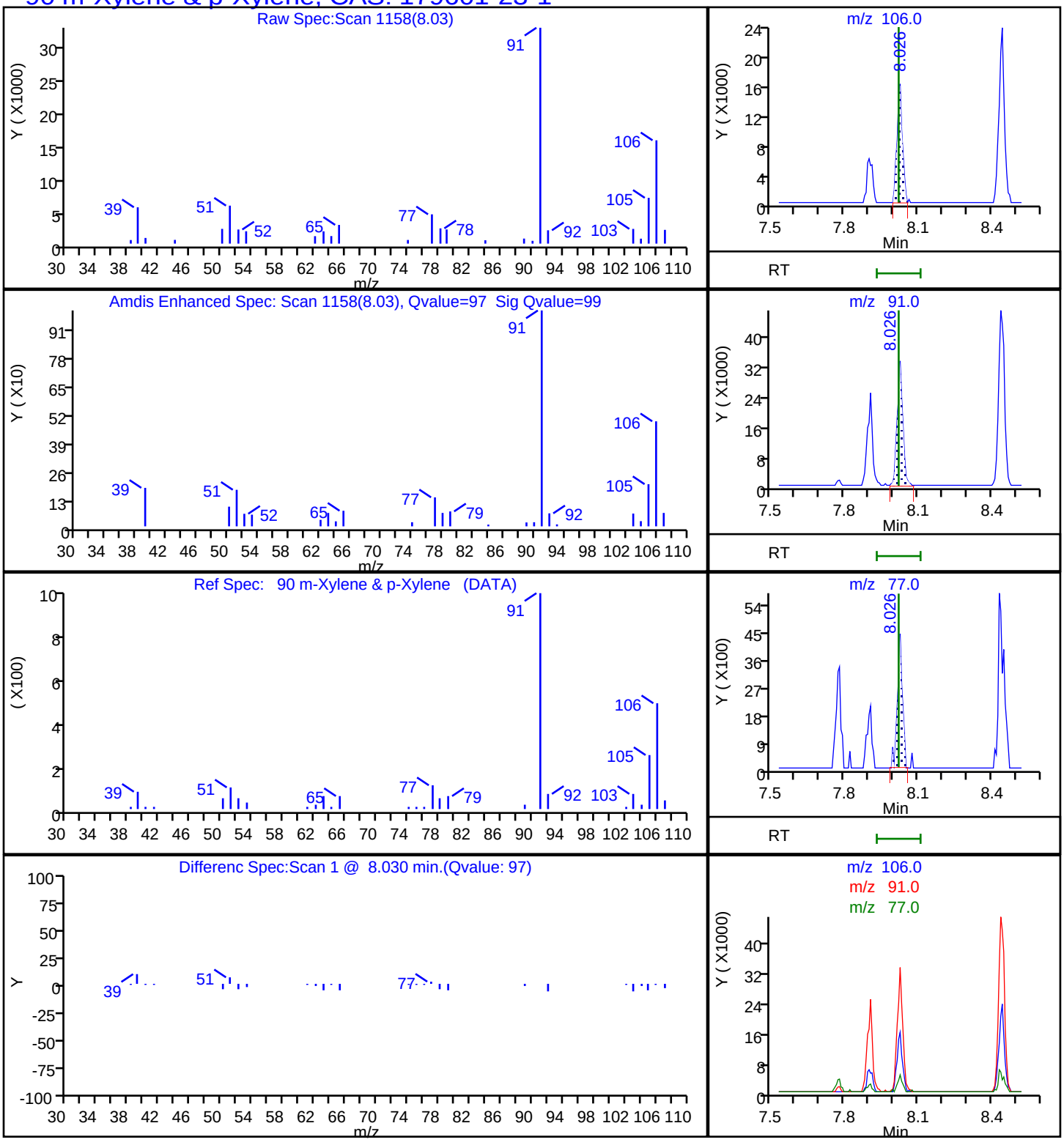
Report Date: 31-Oct-2024 15:58:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

90 m-Xylene & p-Xylene, CAS: 179601-23-1



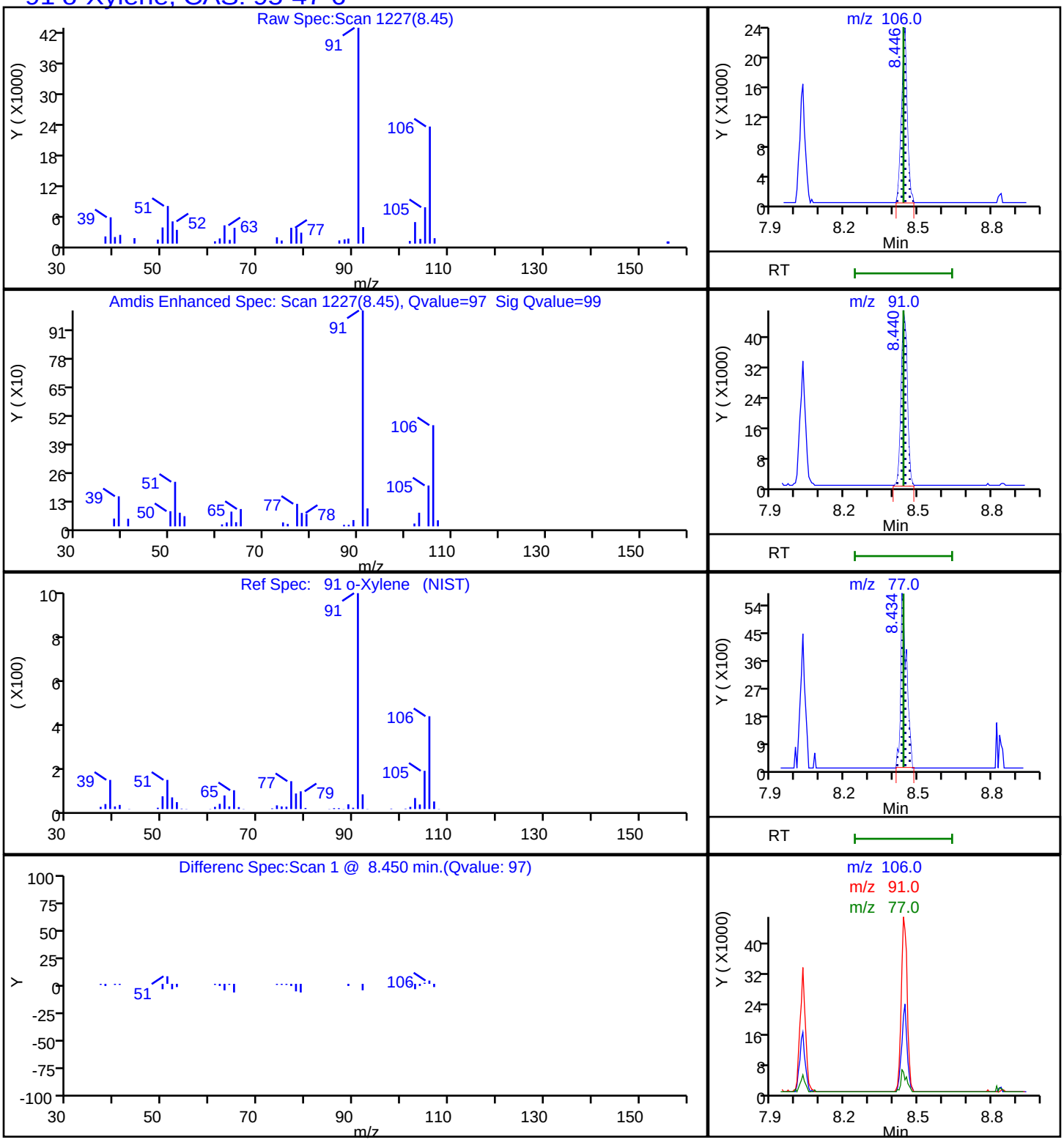
Report Date: 31-Oct-2024 15:58:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

91 o-Xylene, CAS: 95-47-6



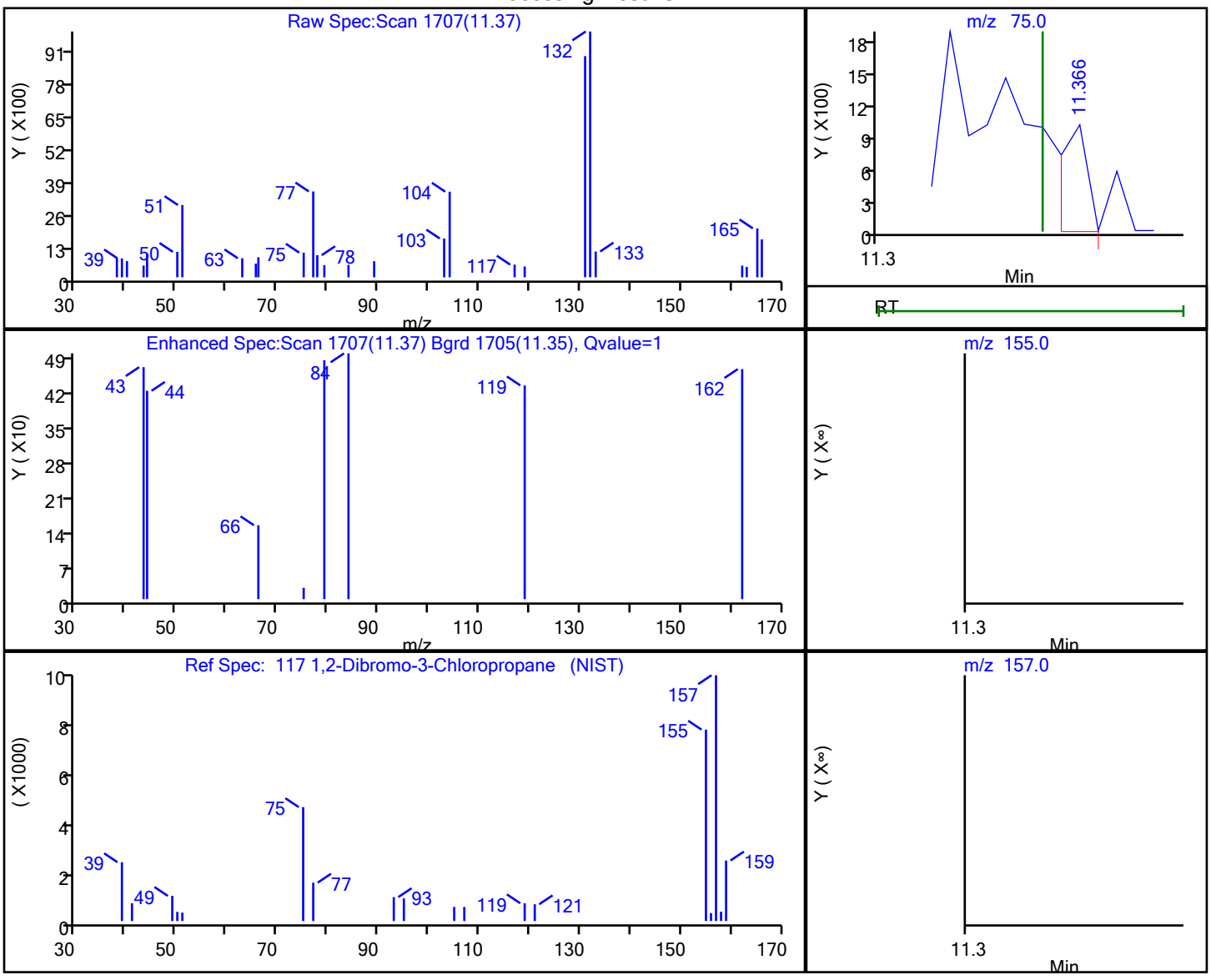
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d				
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-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
11.37	75.00	619	0.347477
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 15:58:32 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

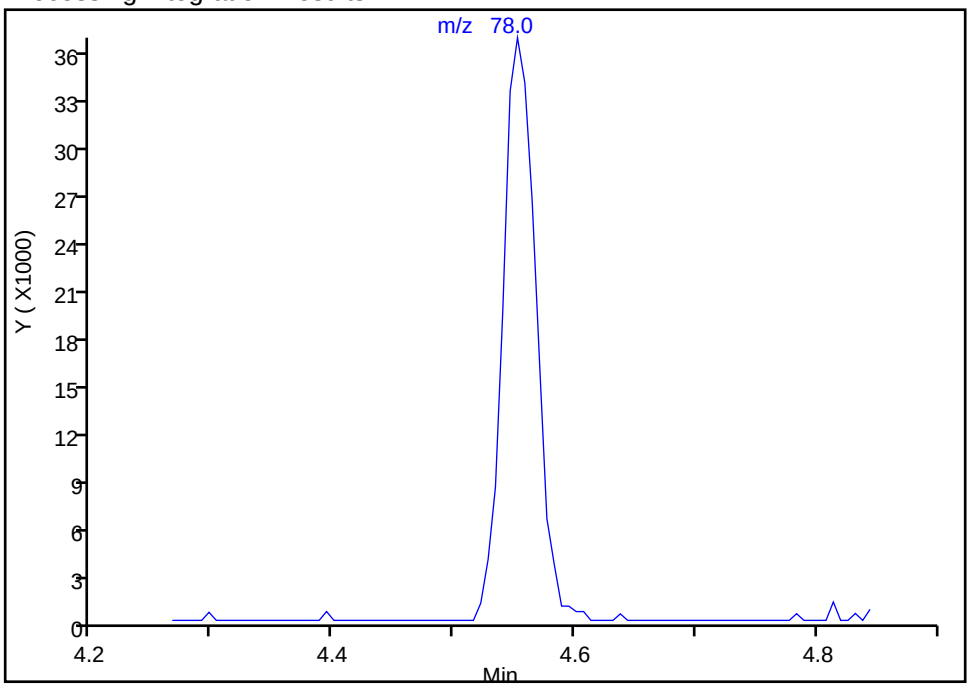
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d				
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2

Signal: 1

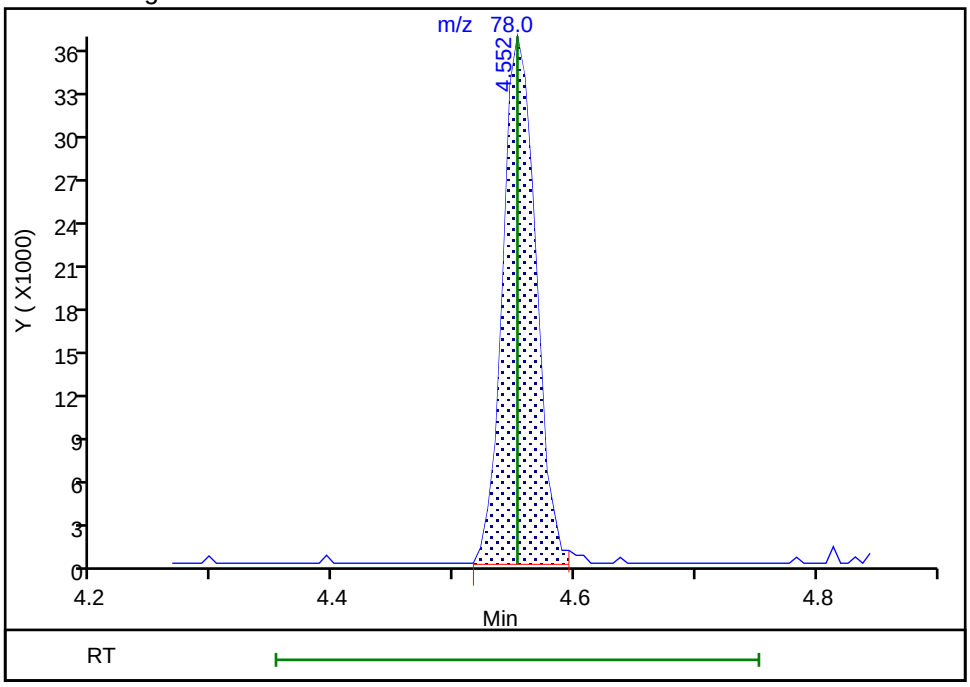
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 70337
Amount: 3.032488
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:57:39 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

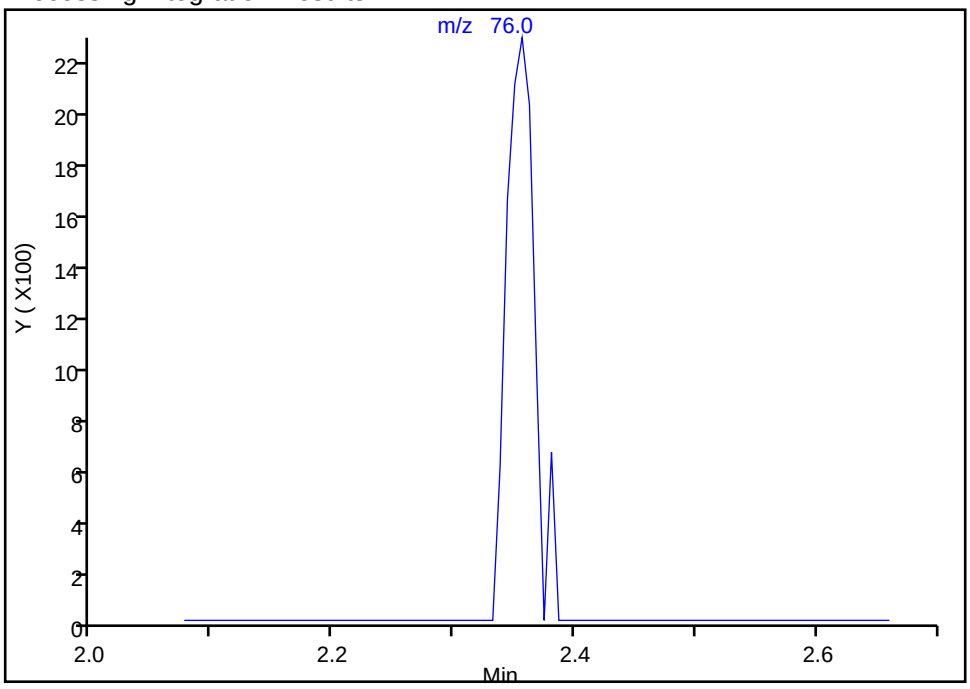
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d				
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

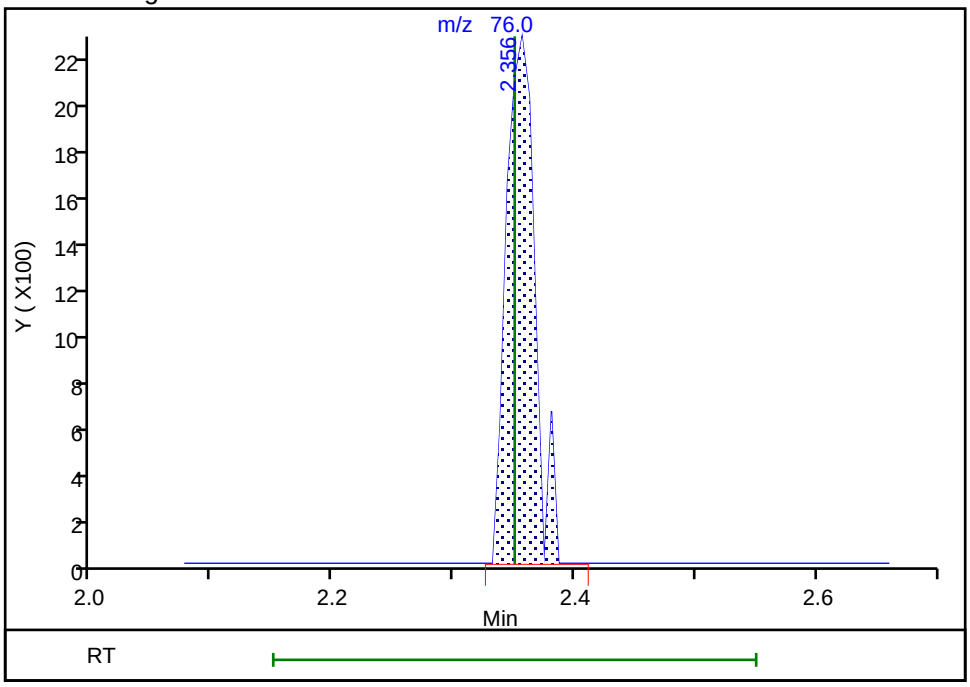
Not Detected
Expected RT: 2.35

Processing Integration Results



Manual Integration Results

RT: 2.36
Area: 3665
Amount: 0.206765
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:57:16 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

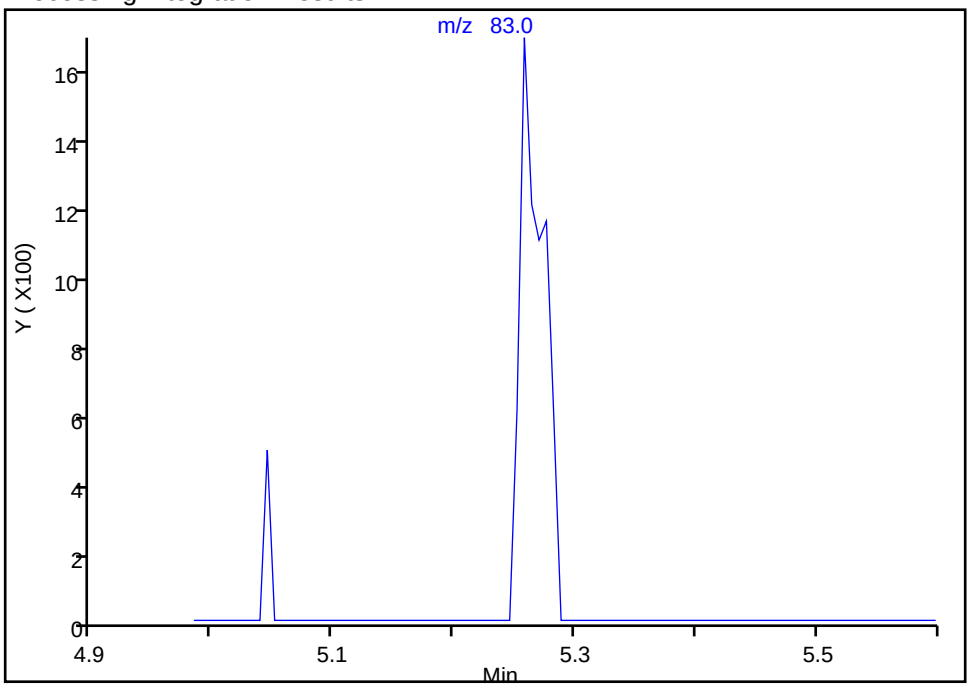
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d				
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Methylcyclohexane, CAS: 108-87-2

Signal: 1

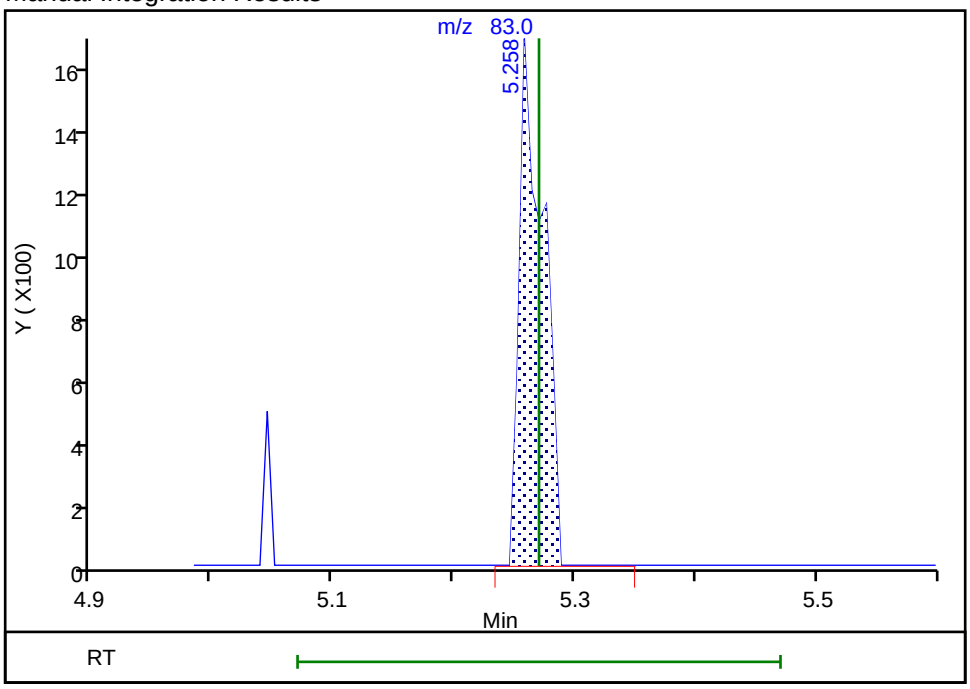
Not Detected
Expected RT: 5.27

Processing Integration Results



Manual Integration Results

RT: 5.26
Area: 2326
Amount: 0.238579
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:57:48 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

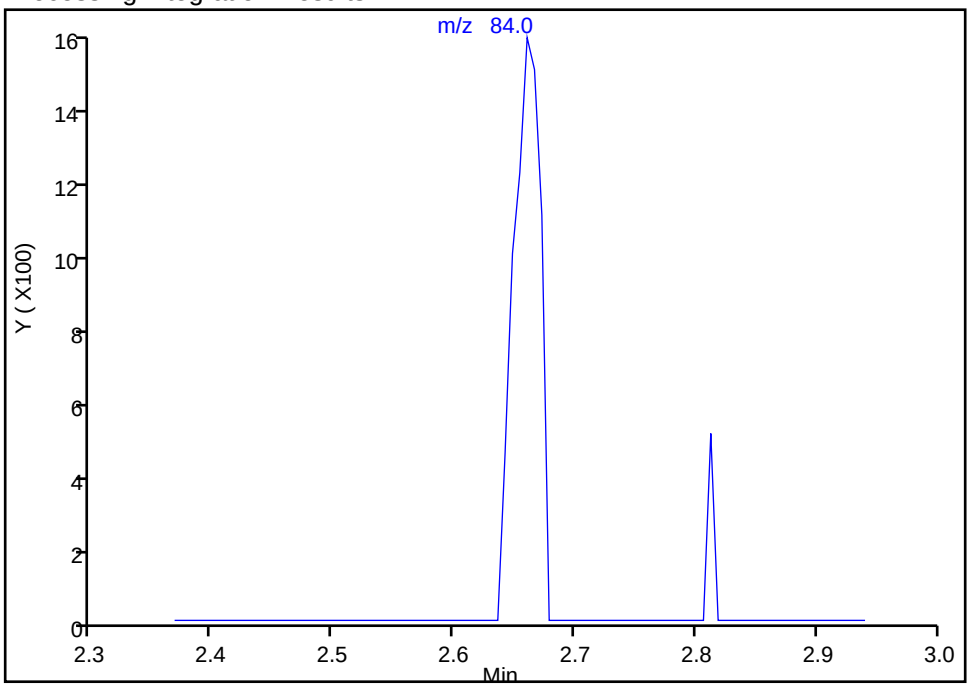
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d				
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

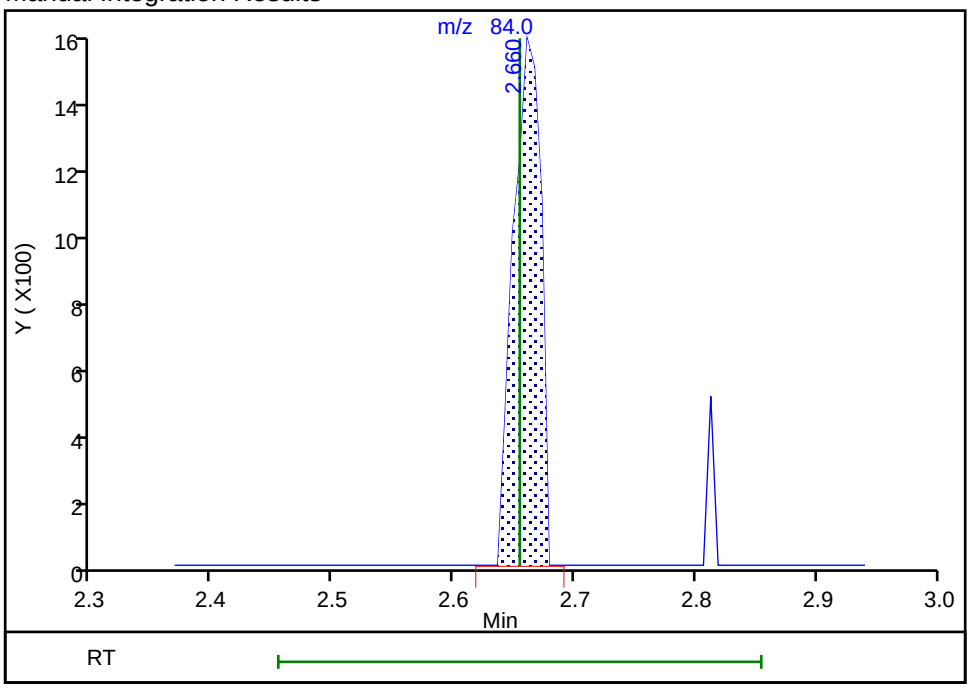
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.66
Area: 2516
Amount: 0.274365
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:57:23 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

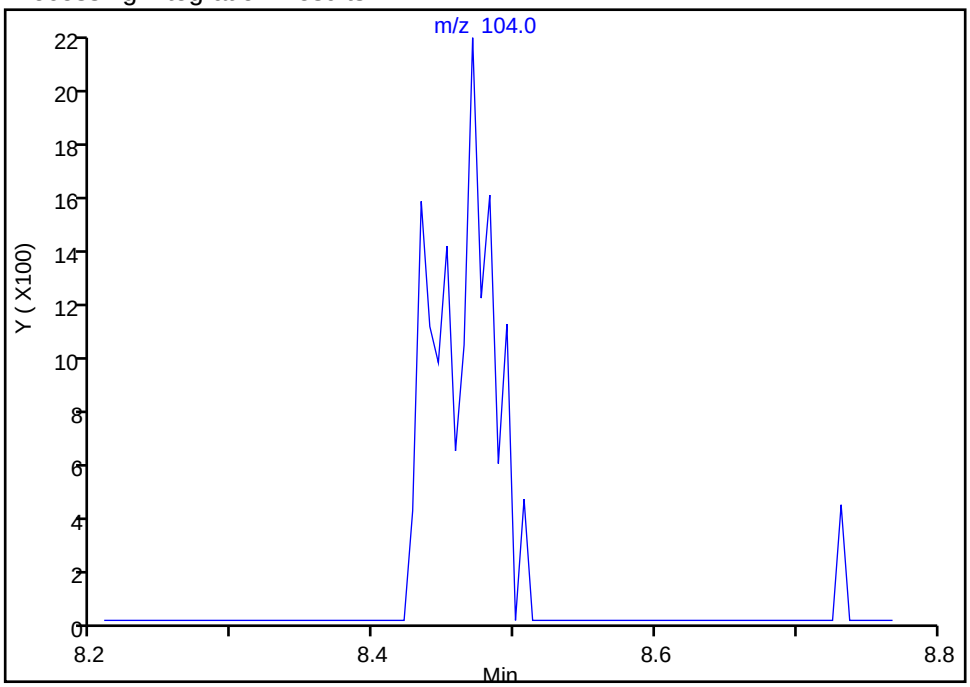
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d				
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

92 Styrene, CAS: 100-42-5

Signal: 1

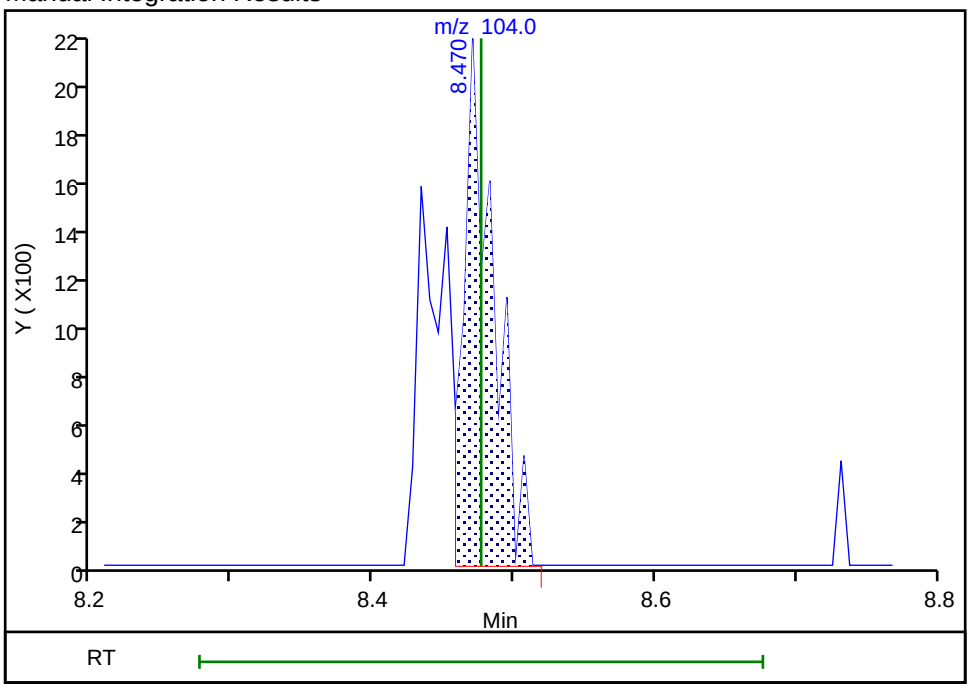
Not Detected
Expected RT: 8.48

Processing Integration Results



Manual Integration Results

RT: 8.47
Area: 3146
Amount: 0.195496
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:58:19 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-21A-10252024 | Lab Sample ID: 480-224869-18

Matrix: Water | Lab File ID: N1256.d

Analysis Method: 8260C | Date Collected: 10/25/2024 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 08:39

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.2	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-21A-10252024 | Lab Sample ID: 480-224869-18

Matrix: Water | Lab File ID: N1256.d

Analysis Method: 8260C | Date Collected: 10/25/2024 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 08:39

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	0.69	J	1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	92		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d
Lims ID: 480-224869-G-18
Client ID: MW-BCP-21A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 08:39:30 ALS Bottle#: 56 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-18
Misc. Info.: 480-0120932-023
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:59:34 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:59:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	141790	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	92	469049	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	255954	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	148047	23.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	95	227426	23.7	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	97	532077	24.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	175605	25.9	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.289	2.289	0.000	95	16545	3.22	a
25 Carbon disulfide	76	2.362	2.356	0.012	67	3126	0.1785	
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.648	2.648	-0.006	86	2778	0.3243	a
32 Methyl tert-butyl ether	73	2.855	2.849	0.006	94	14527	0.6919	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78		4.552				ND	
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	U
73 Toluene	92		6.371				ND	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91		7.898				ND	
90 m-Xylene & p-Xylene	106		8.020				ND	
91 o-Xylene	106		8.440				ND	
92 Styrene	104		8.476				ND	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	7
113 1,4-Dichlorobenzene	146		10.240				ND	7
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

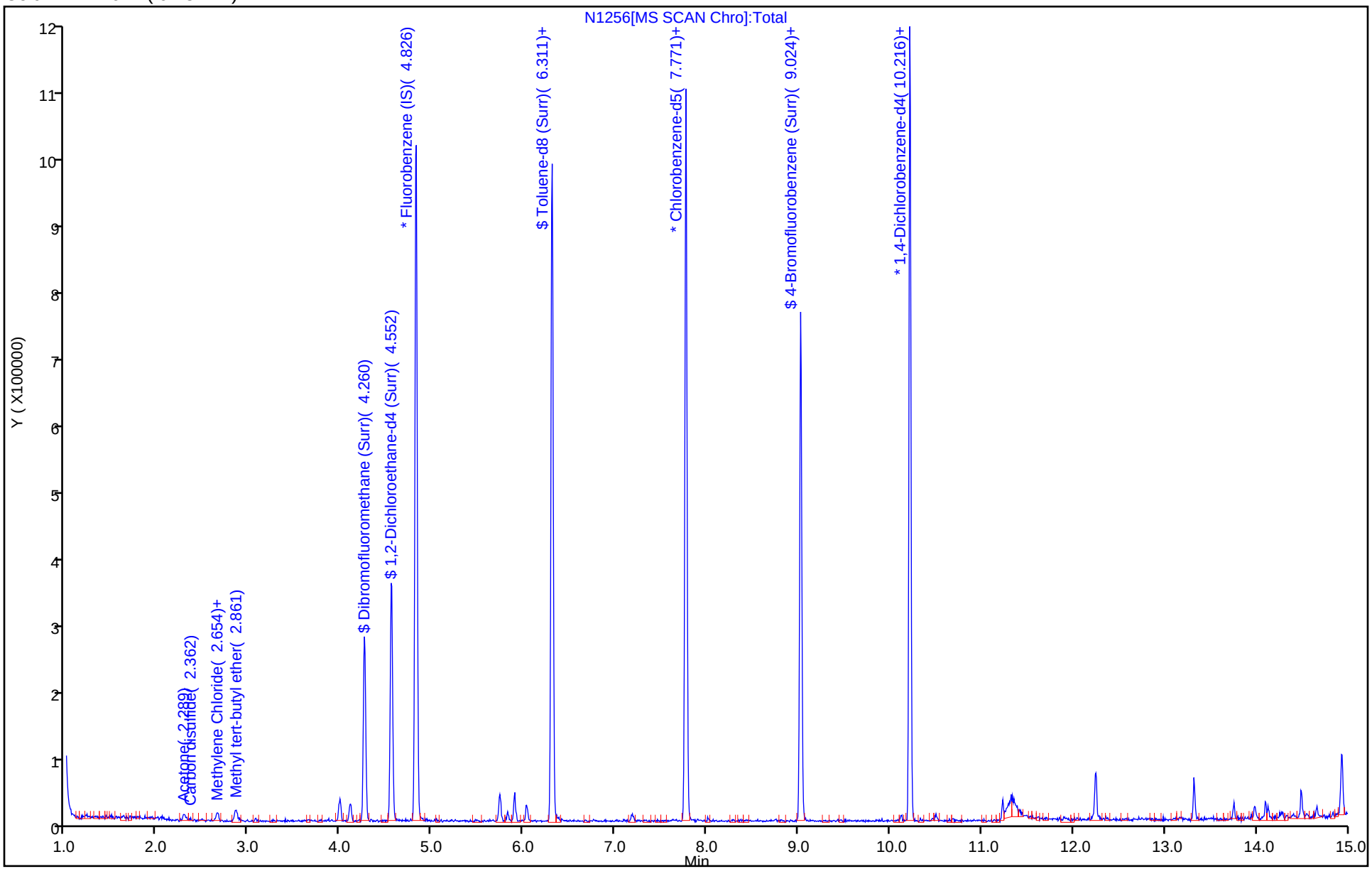
Report Date: 31-Oct-2024 15:59:35 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d

Injection Date:	31-Oct-2024 08:39:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-18	Lab Sample ID:	480-224869-18	Worklist Smp#:	23
Client ID:	MW-BCP-21A-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	56
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d
Lims ID: 480-224869-G-18
Client ID: MW-BCP-21A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 08:39:30 ALS Bottle#: 56 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-18
Misc. Info.: 480-0120932-023
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:59:34 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:59:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.0	91.91
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.7	94.91
$ 6 Toluene-d8 (Surr)	25.0	24.8	99.13
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.9	103.74

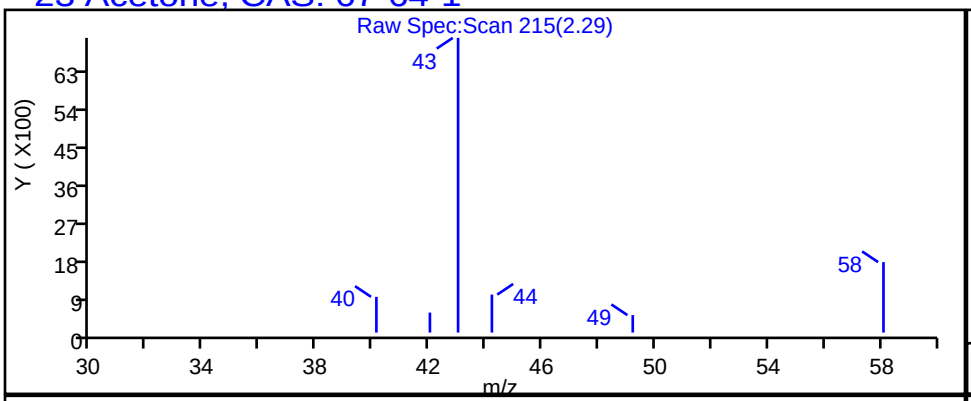
Report Date: 31-Oct-2024 15:59:35 Chrom Revision: 2.3 24-Sep-2024 15:19:46

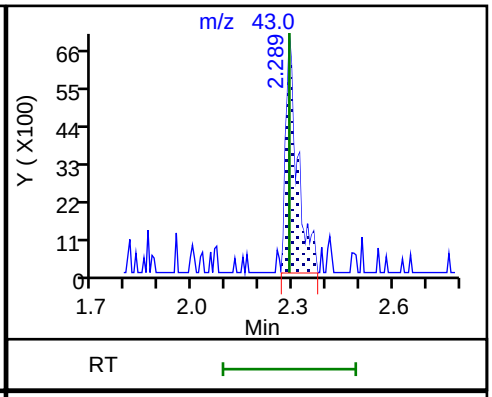
Eurofins Buffalo

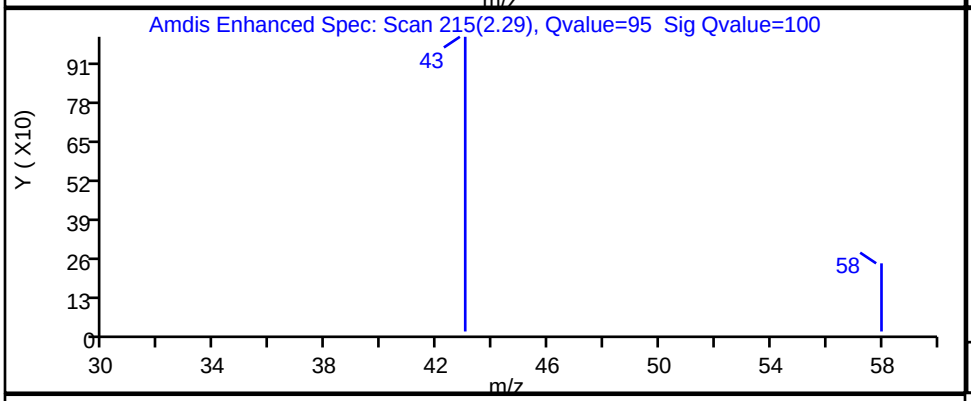
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d

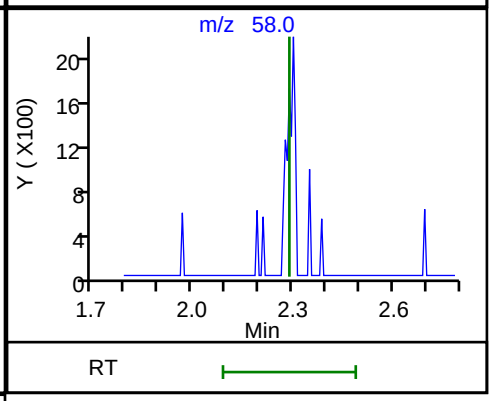
Injection Date:	31-Oct-2024 08:39:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-18	Lab Sample ID:	480-224869-18
Client ID:	MW-BCP-21A-10252024		
Operator ID:	AD	ALS Bottle#:	56 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

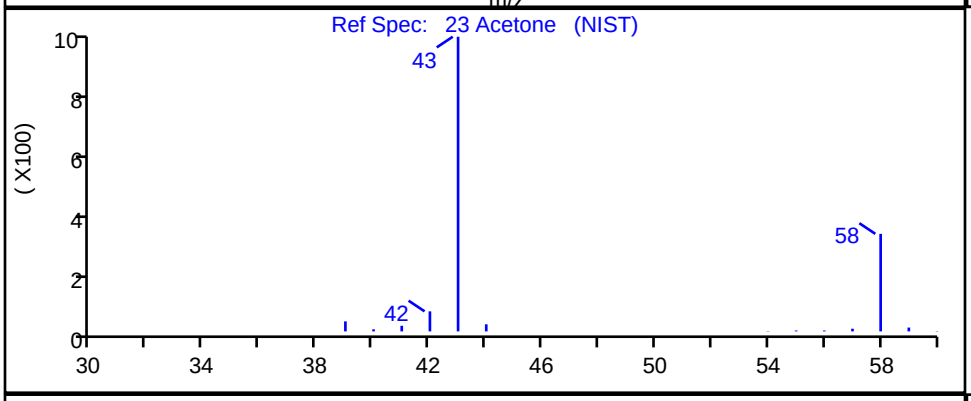
23 Acetone, CAS: 67-64-1

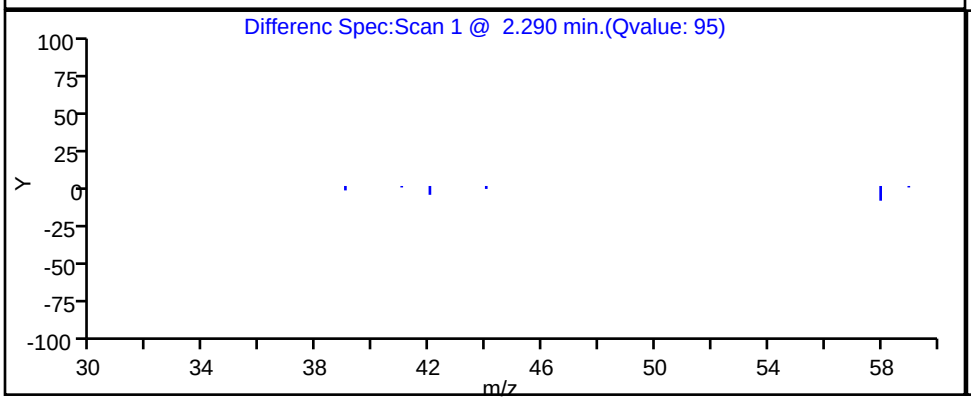


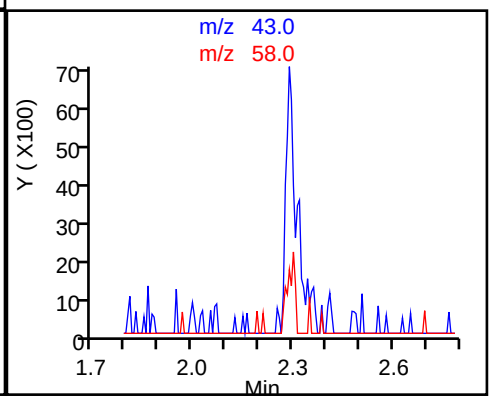












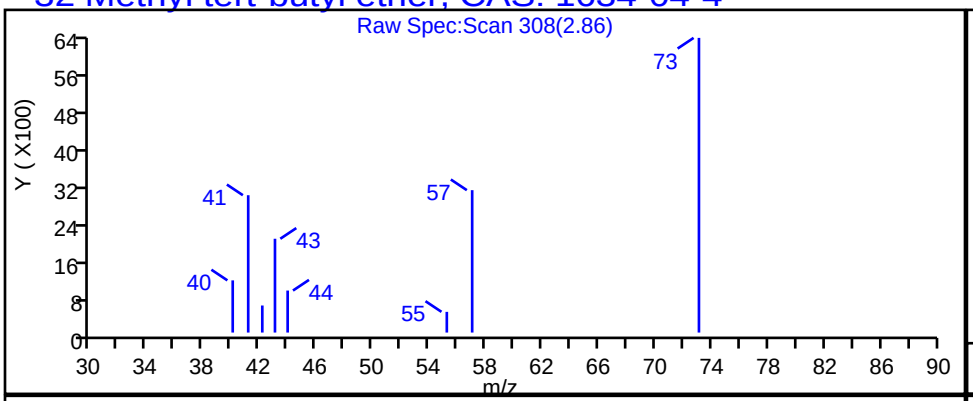
Report Date: 31-Oct-2024 15:59:35 Chrom Revision: 2.3 24-Sep-2024 15:19:46

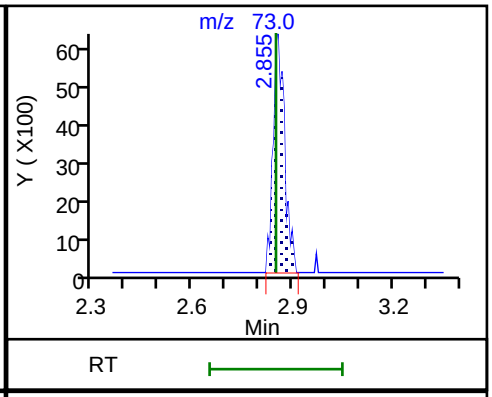
Eurofins Buffalo

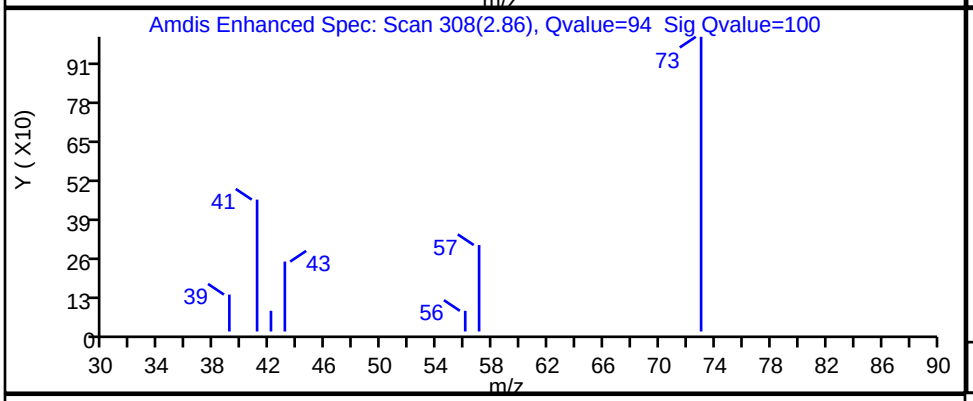
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d

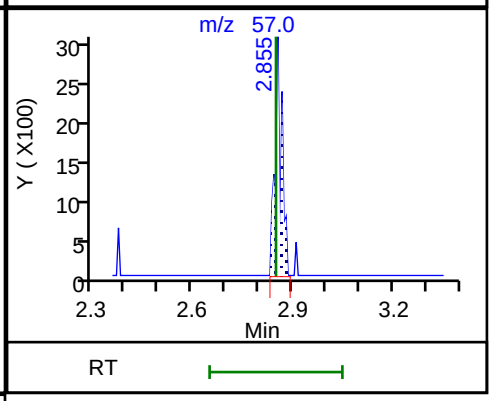
Injection Date:	31-Oct-2024 08:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-18	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	AD	ALS Bottle#:	56	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

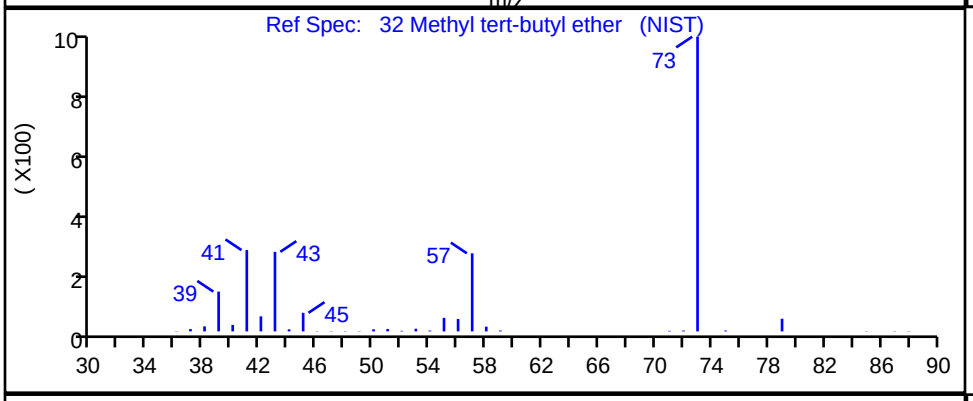
32 Methyl tert-butyl ether, CAS: 1634-04-4

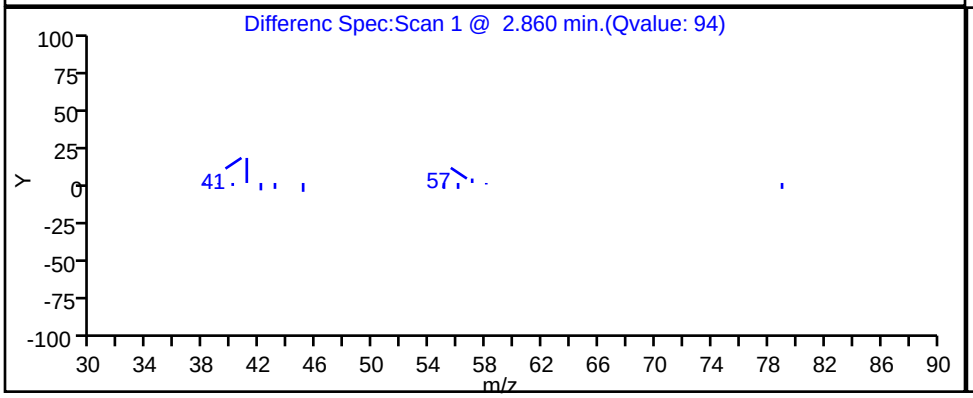


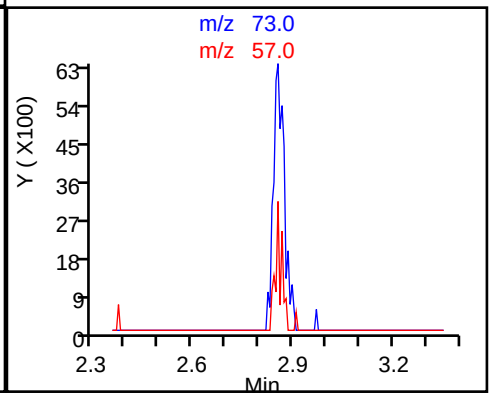












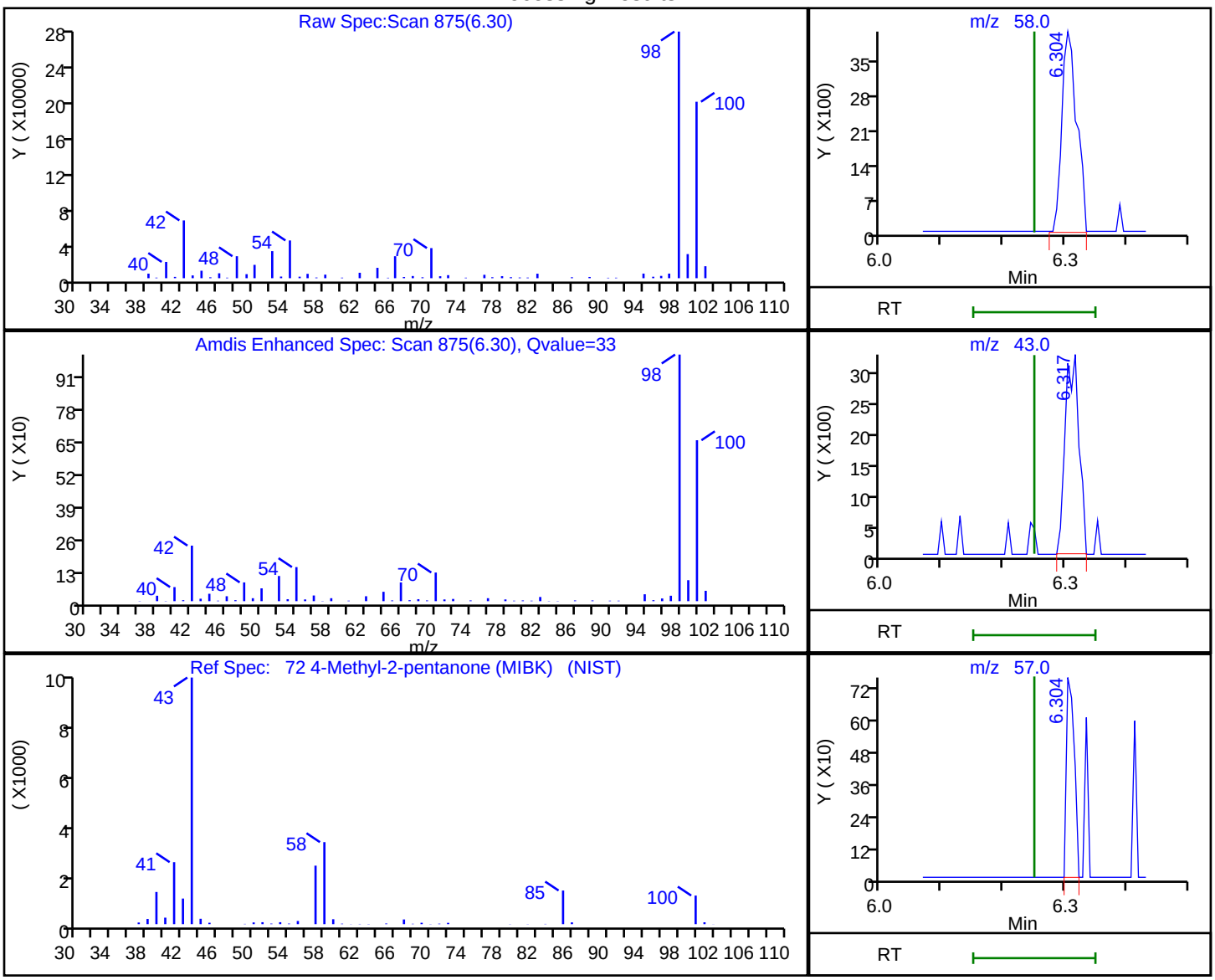
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d				
Injection Date:	31-Oct-2024 08:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-18	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	AD	ALS Bottle#:	56	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.30	58.00	6820	1.321462
6.32	43.00	5166	
6.30	57.00	677	

Reviewer: HF3K, 31-Oct-2024 15:59:25 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

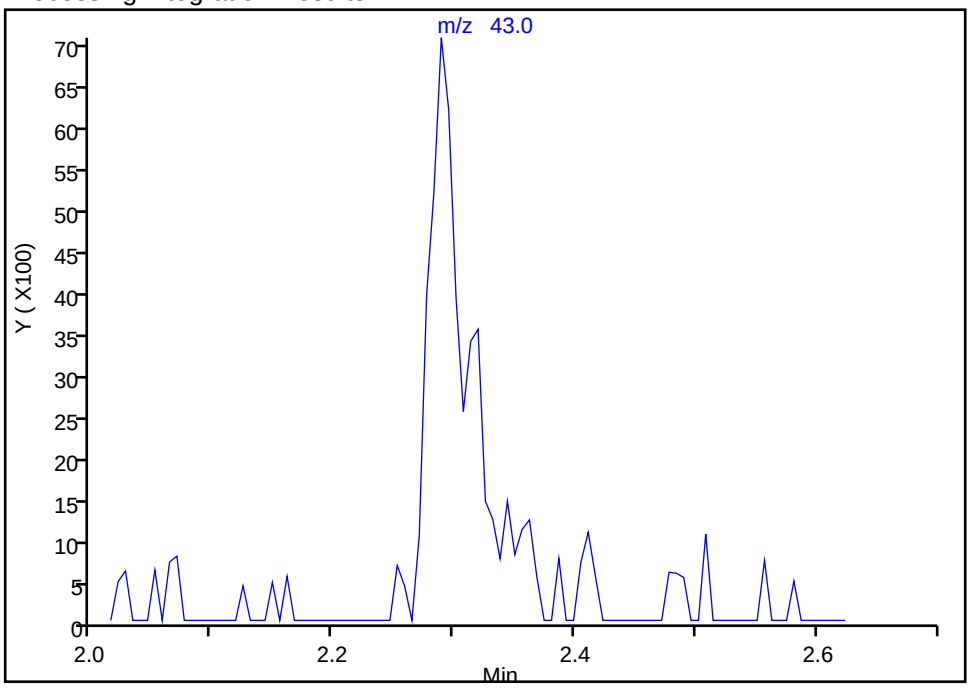
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d				
Injection Date:	31-Oct-2024 08:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-18	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	AD	ALS Bottle#:	56	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

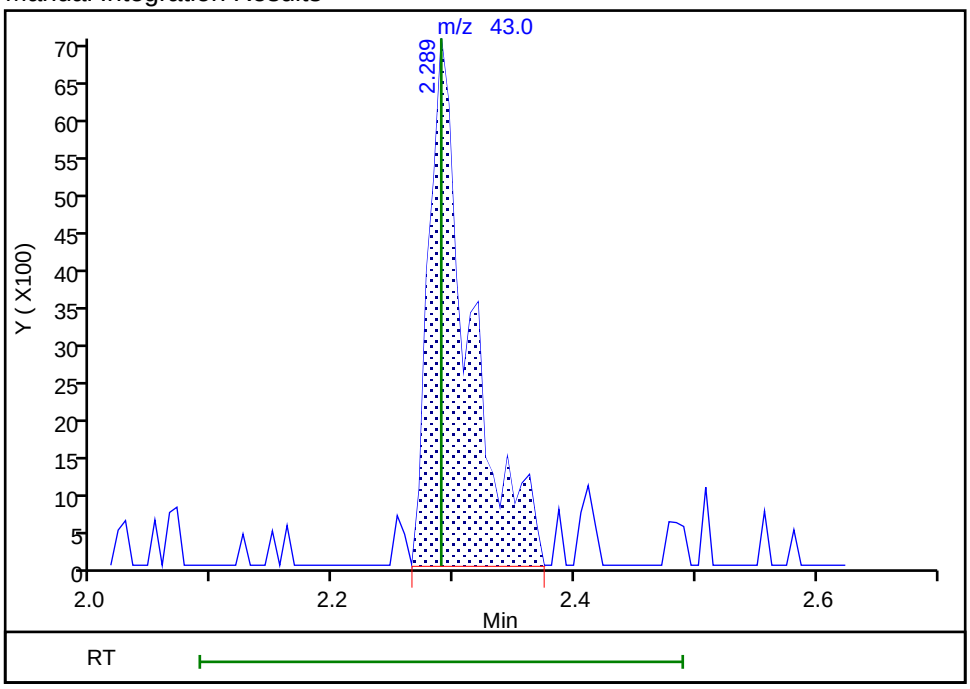
Not Detected
Expected RT: 2.29

Processing Integration Results



Manual Integration Results

RT: 2.29
Area: 16545
Amount: 3.216495
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:59:01 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

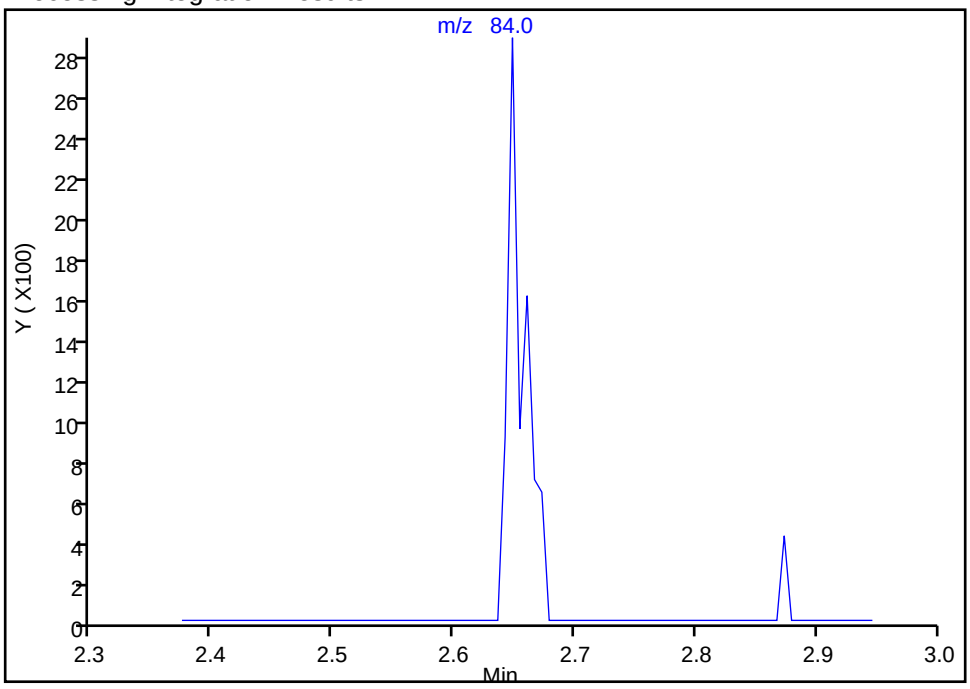
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d				
Injection Date:	31-Oct-2024 08:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-18	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	AD	ALS Bottle#:	56	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

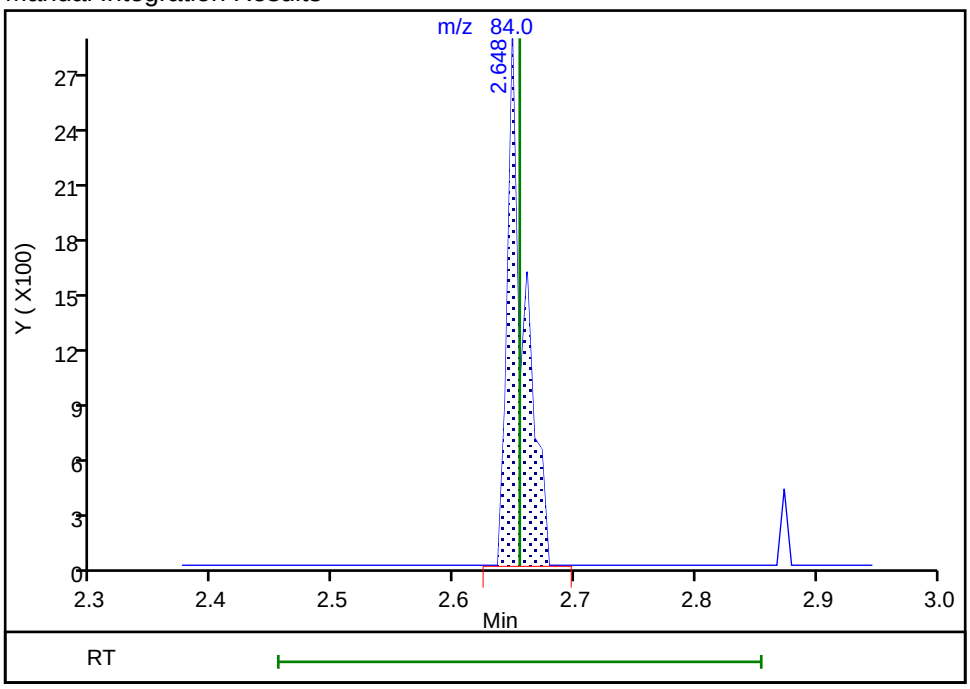
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.65
Area: 2778
Amount: 0.324342
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:59:16 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19A-10252024 | Lab Sample ID: 480-224869-19

Matrix: Water | Lab File ID: N1257.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 09:01

Soil Aliquot Vol: | Dilution Factor: 8

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		8.0	6.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		8.0	1.7
79-00-5	1,1,2-Trichloroethane	ND		8.0	1.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5
75-34-3	1,1-Dichloroethane	ND		8.0	3.0
75-35-4	1,1-Dichloroethene	ND		8.0	2.3
120-82-1	1,2,4-Trichlorobenzene	ND		8.0	3.3
96-12-8	1,2-Dibromo-3-Chloropropane	ND		8.0	3.1
106-93-4	1,2-Dibromoethane	ND		8.0	5.8
95-50-1	1,2-Dichlorobenzene	ND		8.0	6.3
107-06-2	1,2-Dichloroethane	ND		8.0	1.7
78-87-5	1,2-Dichloropropane	ND		8.0	5.8
541-73-1	1,3-Dichlorobenzene	ND		8.0	6.2
106-46-7	1,4-Dichlorobenzene	ND		8.0	6.7
591-78-6	2-Hexanone	ND		40	9.9
78-93-3	2-Butanone (MEK)	ND		80	11
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		40	17
67-64-1	Acetone	ND		80	24
71-43-2	Benzene	180		8.0	3.3
75-27-4	Bromodichloromethane	ND		8.0	3.1
75-25-2	Bromoform	ND		8.0	2.1
74-83-9	Bromomethane	ND		8.0	5.5
75-15-0	Carbon disulfide	ND		8.0	1.5
56-23-5	Carbon tetrachloride	ND		8.0	2.2
108-90-7	Chlorobenzene	ND		8.0	6.0
124-48-1	Dibromochloromethane	ND		8.0	2.6
75-00-3	Chloroethane	ND		8.0	2.6
67-66-3	Chloroform	ND		8.0	2.7
74-87-3	Chloromethane	ND		8.0	2.8
156-59-2	cis-1,2-Dichloroethene	ND		8.0	6.5
10061-01-5	cis-1,3-Dichloropropene	ND		8.0	2.9
110-82-7	Cyclohexane	ND		8.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19A-10252024 | Lab Sample ID: 480-224869-19

Matrix: Water | Lab File ID: N1257.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 09:01

Soil Aliquot Vol: | Dilution Factor: 8

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		8.0	5.4
100-41-4	Ethylbenzene	9.6		8.0	5.9
98-82-8	Isopropylbenzene	ND		8.0	6.3
79-20-9	Methyl acetate	ND		20	10
1634-04-4	Methyl tert-butyl ether	ND		8.0	1.3
108-87-2	Methylcyclohexane	ND		8.0	1.3
75-09-2	Methylene Chloride	12		8.0	3.5
100-42-5	Styrene	ND		8.0	5.8
127-18-4	Tetrachloroethene	ND		8.0	2.9
108-88-3	Toluene	56		8.0	4.1
156-60-5	trans-1,2-Dichloroethene	ND		8.0	7.2
10061-02-6	trans-1,3-Dichloropropene	ND		8.0	3.0
79-01-6	Trichloroethene	ND		8.0	3.7
75-69-4	Trichlorofluoromethane	ND		8.0	7.0
75-01-4	Vinyl chloride	ND		8.0	7.2
1330-20-7	Xylenes, Total	220		16	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	89		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d
Lims ID: 480-224869-E-19
Client ID: MW-BCP-19A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 09:01:30 ALS Bottle#: 57 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 8.0000
Sample Info: 480-224869-E-19
Misc. Info.: 480-0120932-024
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 16:01:07 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 16:01:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	146074	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	479555	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	276710	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	90	148202	22.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.558	4.552	0.006	68	227170	23.0	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.000	97	550862	25.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.030	9.024	0.006	88	191496	27.7	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.289	2.289	0.000	67	12118	2.29	
25 Carbon disulfide	76	2.356	2.356	0.006	65	2978	0.1651	
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.654	2.648	0.000	88	9604	1.44	
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83	4.108	4.108	0.000	1	1588	0.1406	a
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78	4.552	4.552	0.000	88	519888	22.0	a
57 1,2-Dichloroethane	62		4.619				ND	U
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.270	5.270	0.000	1	625	0.0630	a
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	U
73 Toluene	92	6.371	6.365	0.000	96	92114	7.04	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91	7.904	7.898	0.006	96	30071	1.21	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	97	92751	9.43	
91 o-Xylene	106	8.446	8.434	0.006	98	170737	17.4	
92 Styrene	104	8.446	8.470	-0.030	52	11244	0.7022	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1				0		26.8	

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

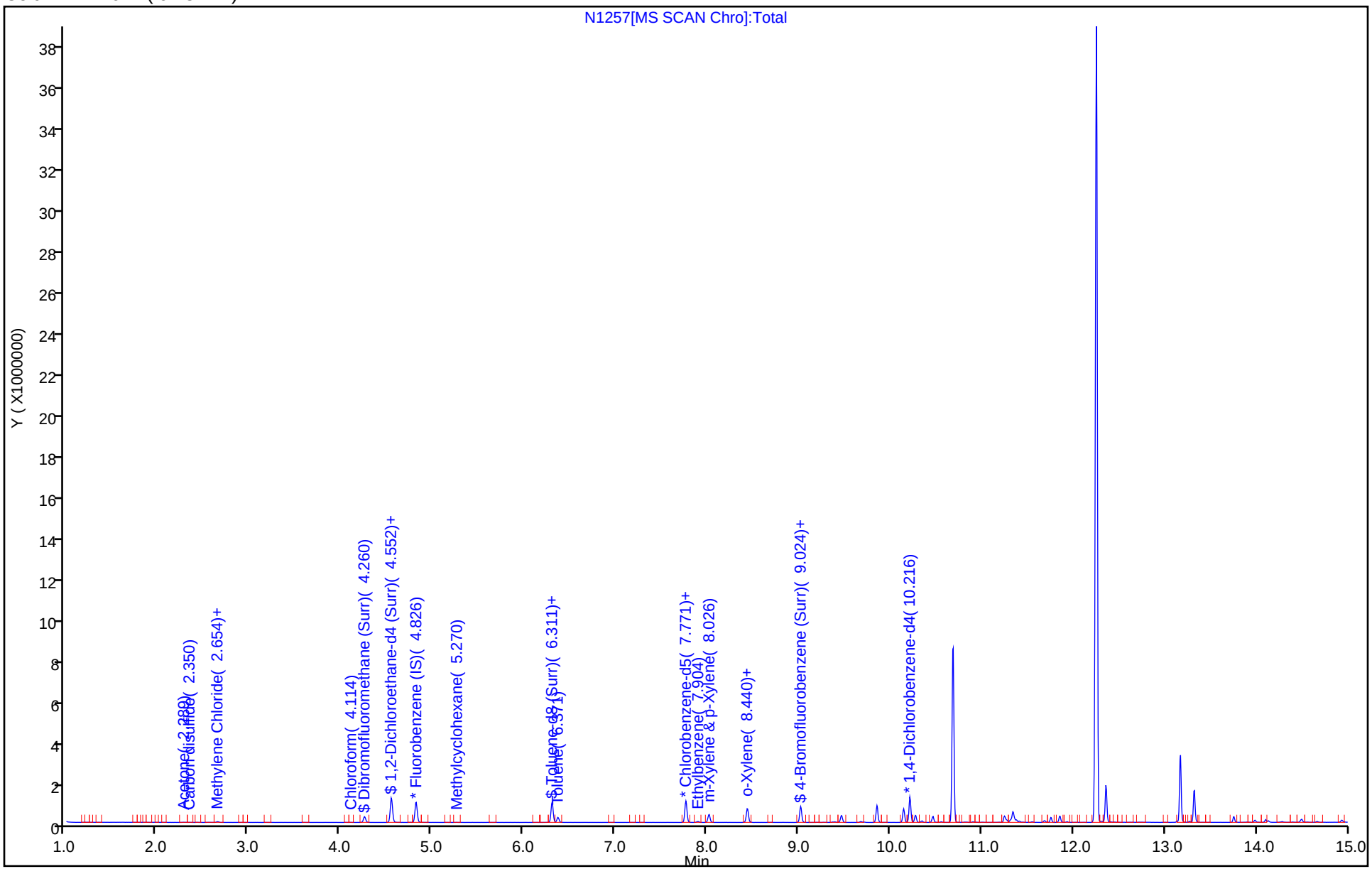
Report Date: 31-Oct-2024 16:01:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19	Worklist Smp#:	24
Client ID:	MW-BCP-19A-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	8.0000	ALS Bottle#:	57
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d
Lims ID: 480-224869-E-19
Client ID: MW-BCP-19A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 09:01:30 ALS Bottle#: 57 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 8.0000
Sample Info: 480-224869-E-19
Misc. Info.: 480-0120932-024
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 16:01:07 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 16:01:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	22.3	89.31
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.0	92.03
$ 6 Toluene-d8 (Surr)	25.0	25.1	100.39
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.7	110.65

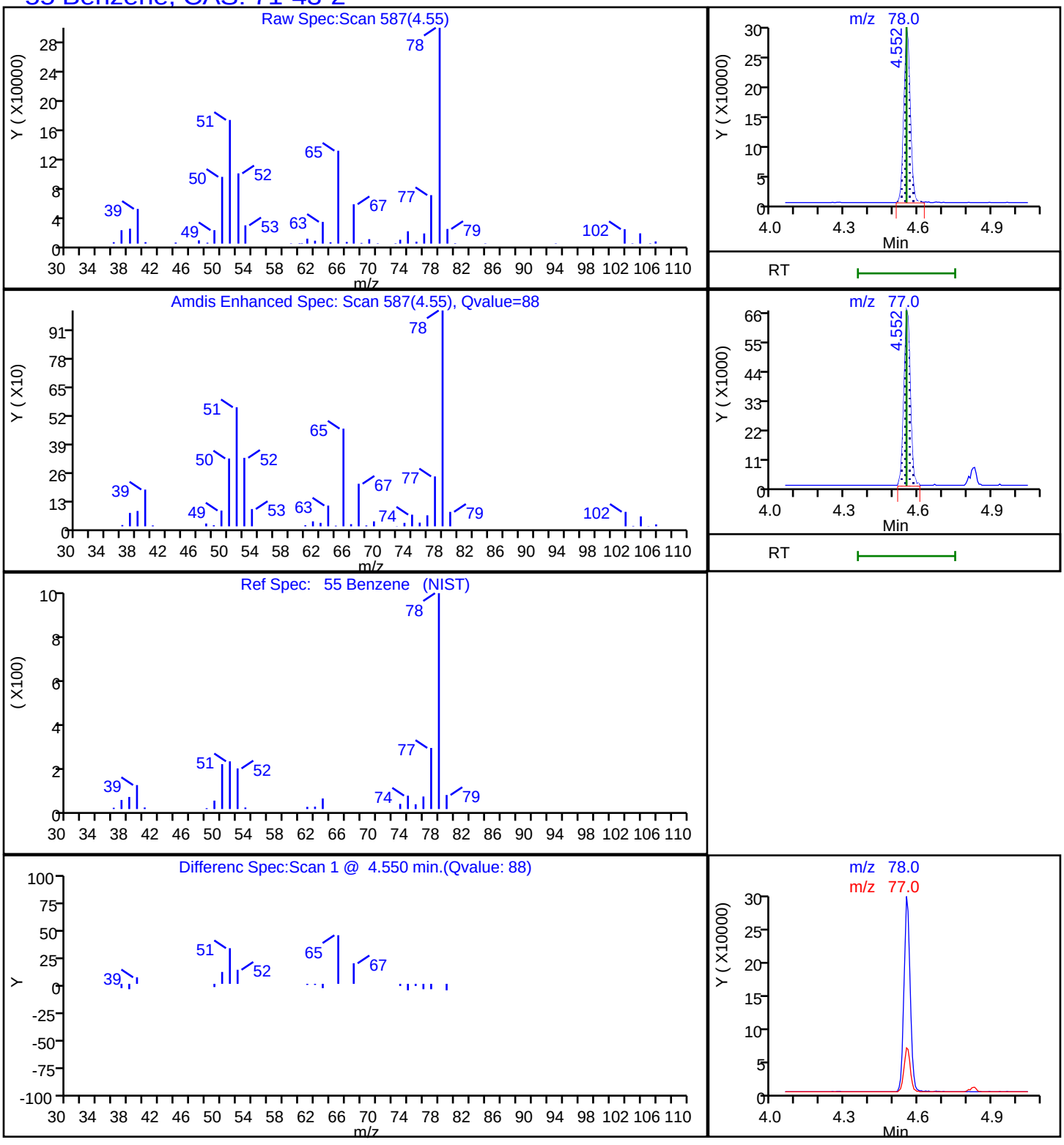
Report Date: 31-Oct-2024 16:01:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2



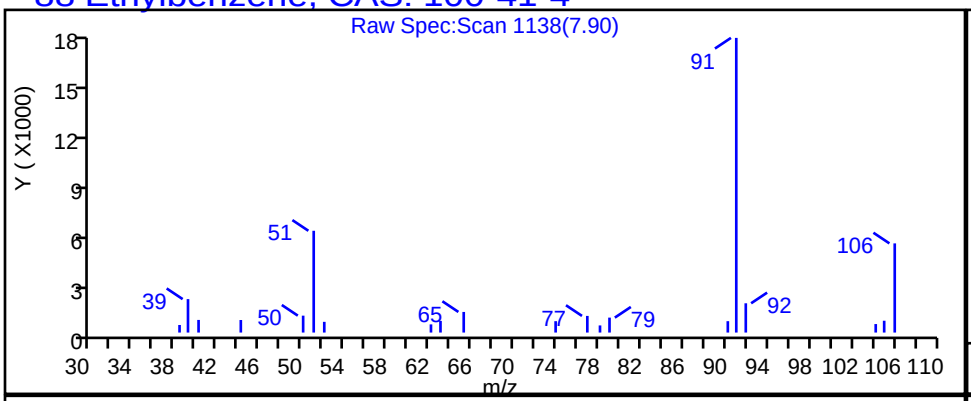
Report Date: 31-Oct-2024 16:01:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

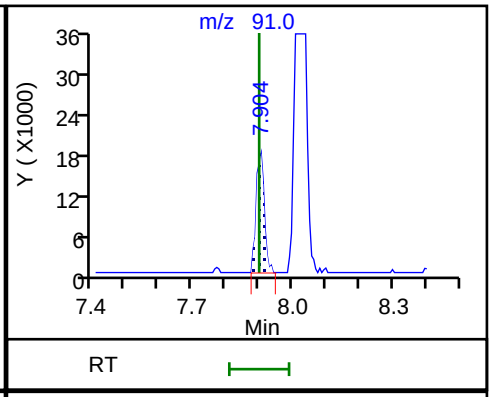
Eurofins Buffalo

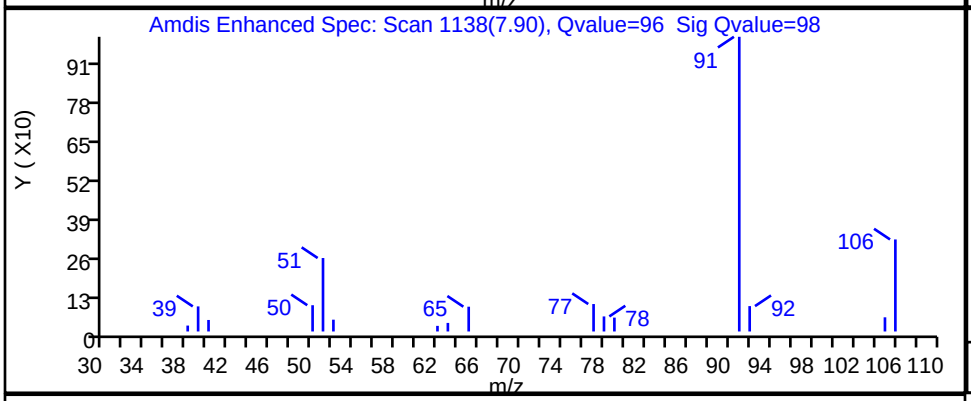
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

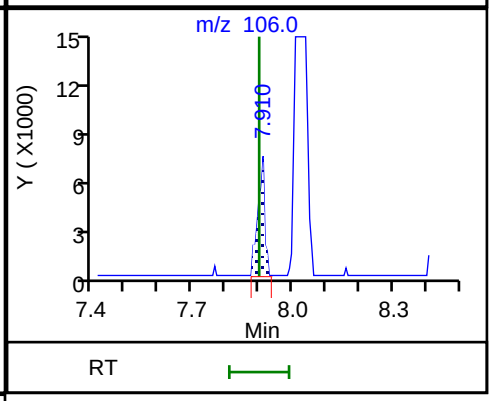
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19
Client ID:	MW-BCP-19A-10252024		
Operator ID:	AD	ALS Bottle#:	57 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

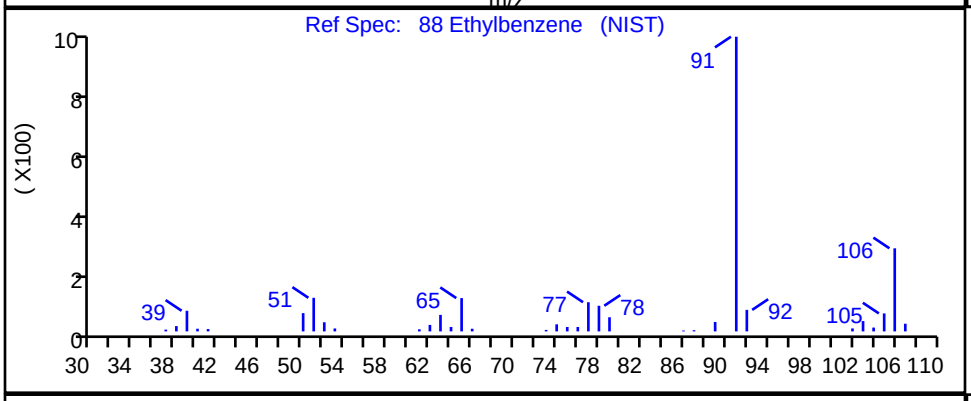
88 Ethylbenzene, CAS: 100-41-4

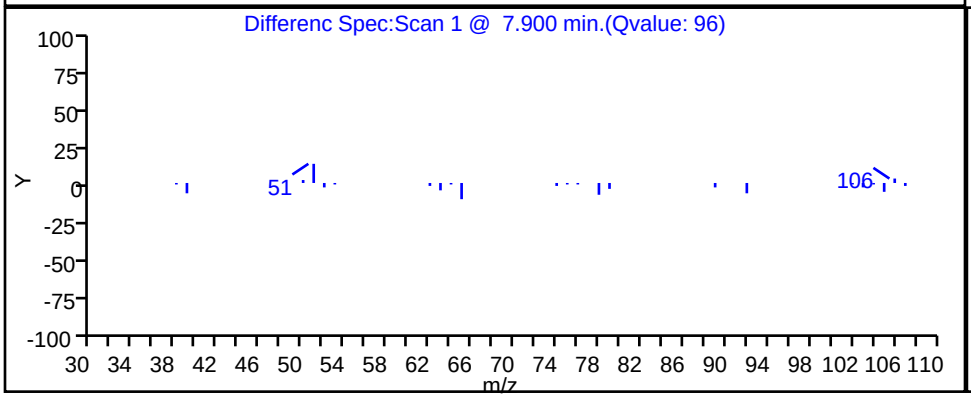


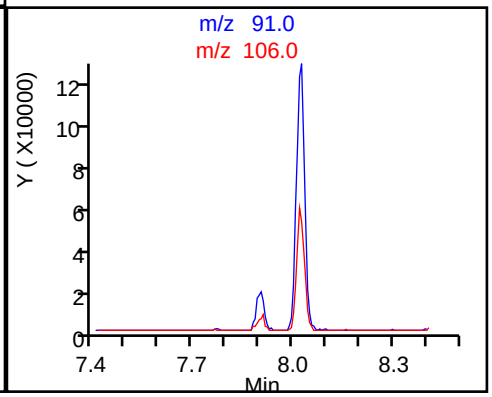












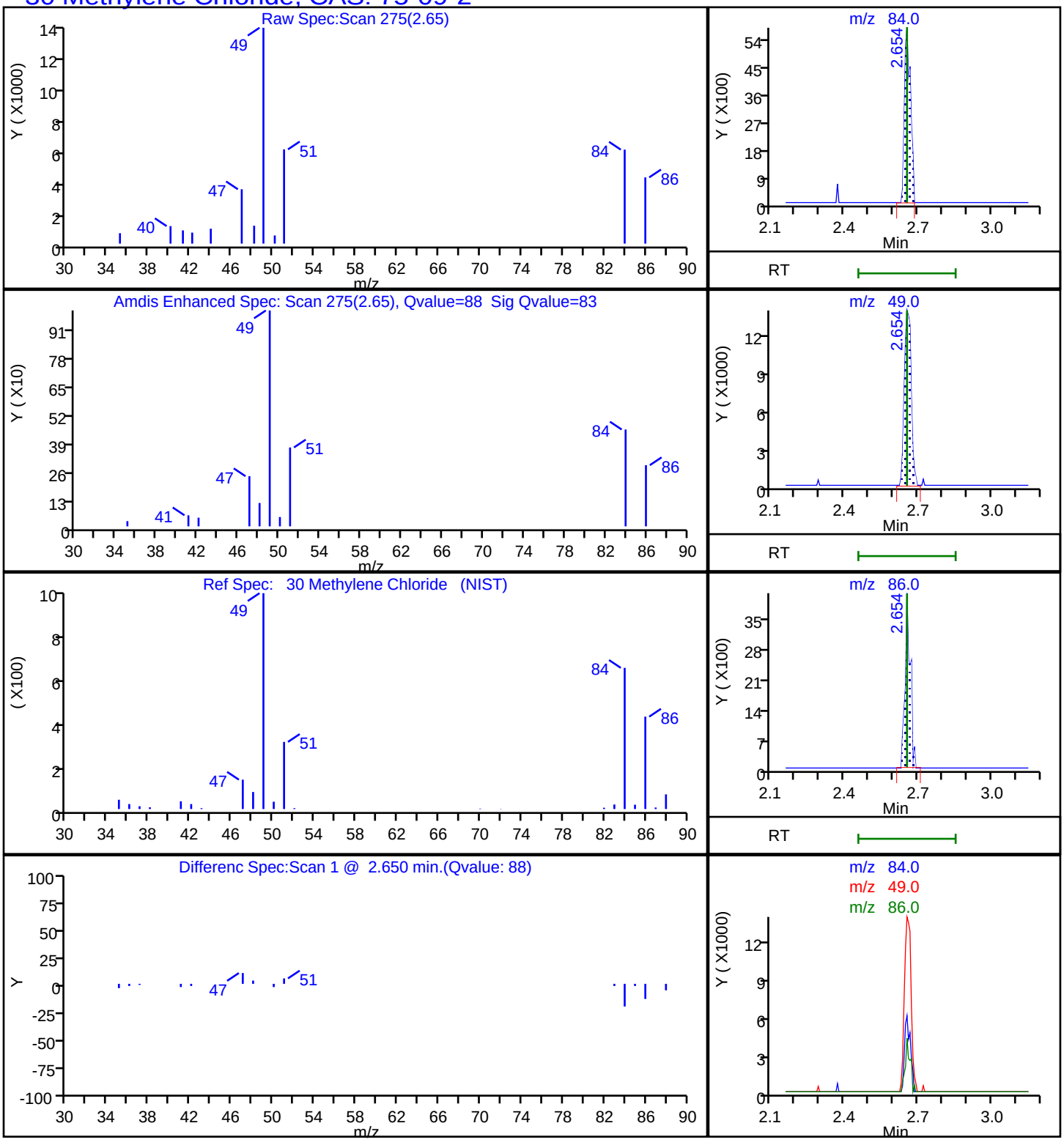
Report Date: 31-Oct-2024 16:01:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19
Client ID:	MW-BCP-19A-10252024		
Operator ID:	AD	ALS Bottle#:	57 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



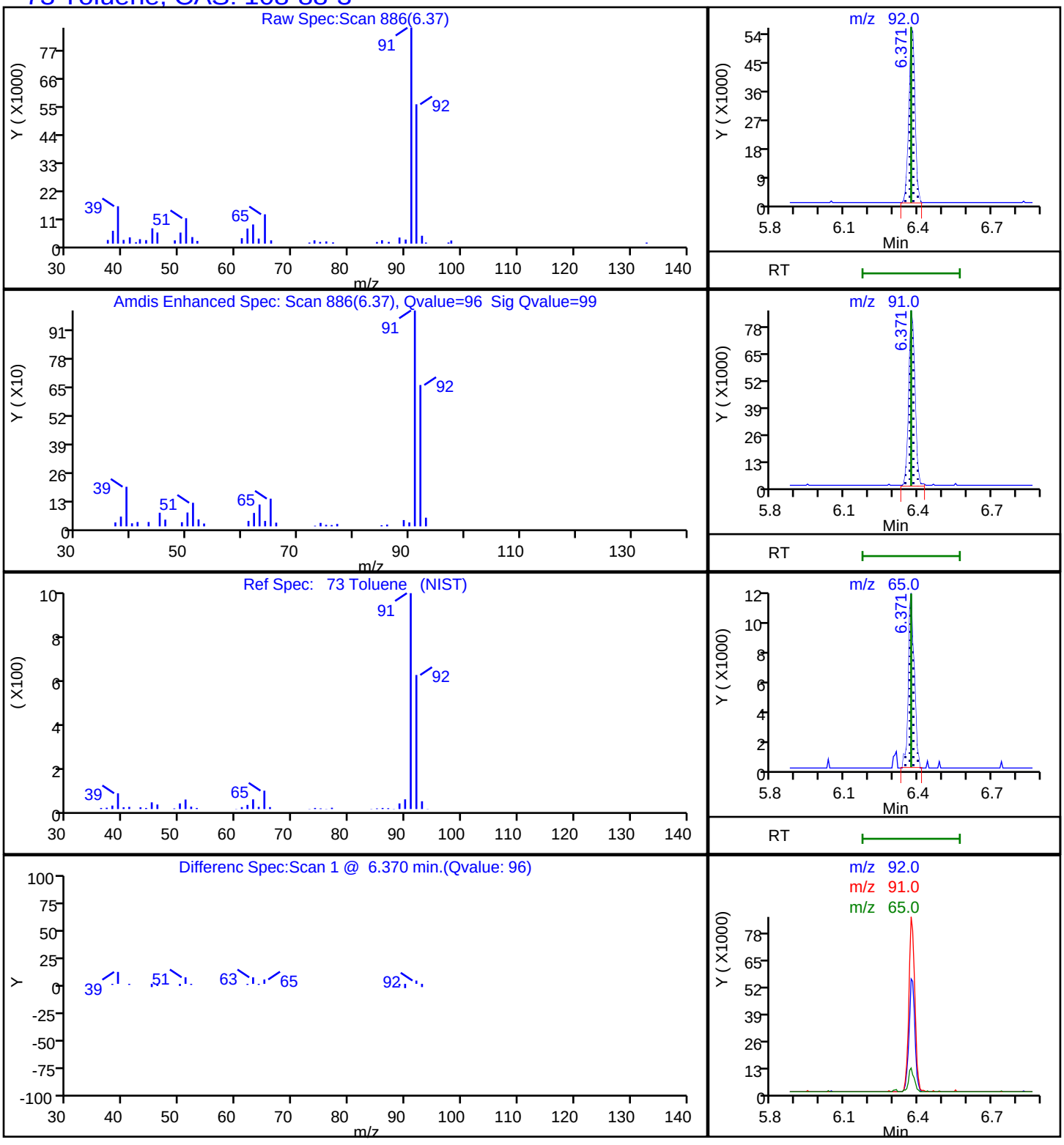
Report Date: 31-Oct-2024 16:01:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

73 Toluene, CAS: 108-88-3



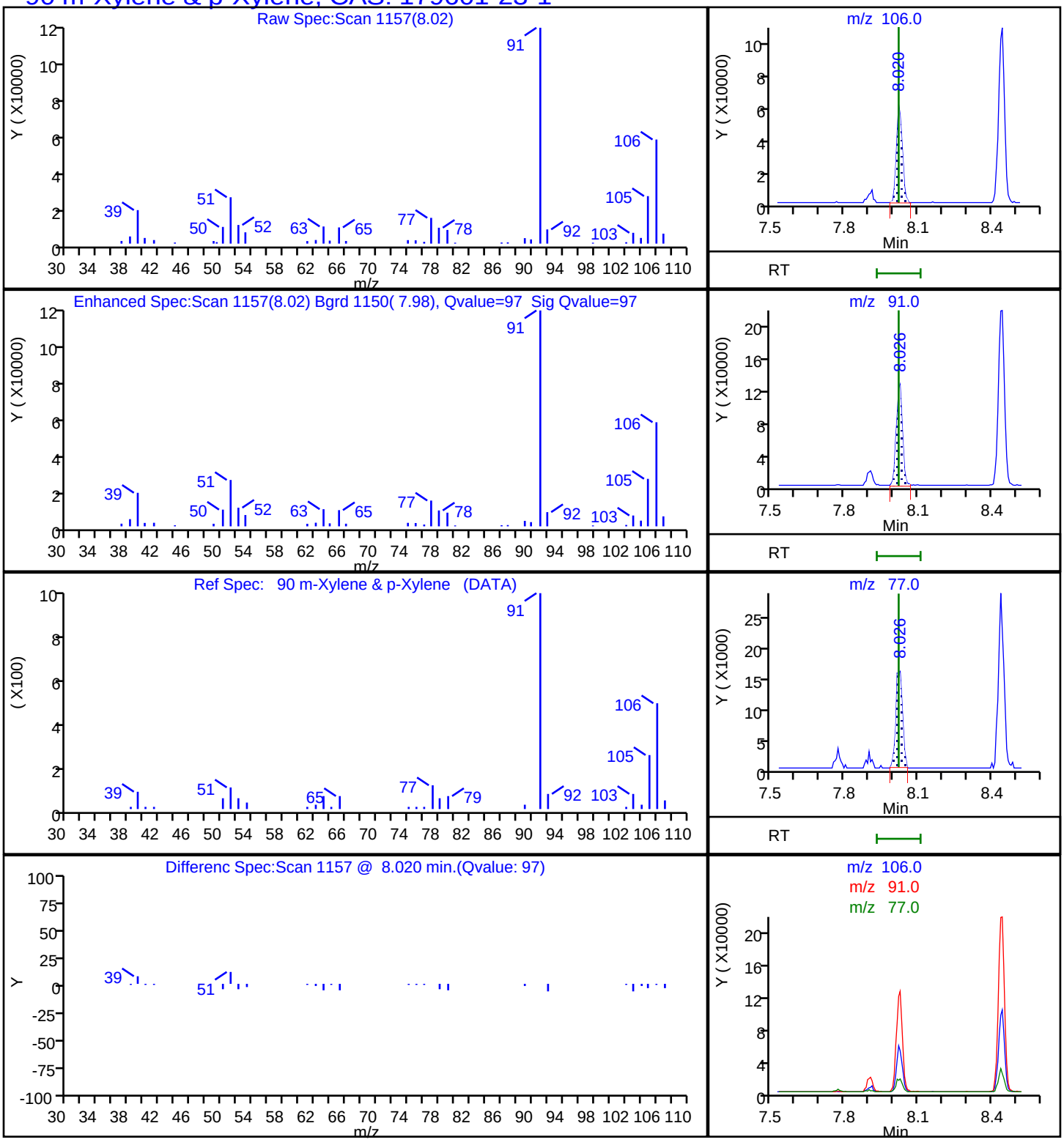
Report Date: 31-Oct-2024 16:01:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19
Client ID:	MW-BCP-19A-10252024		
Operator ID:	AD	ALS Bottle#:	57 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



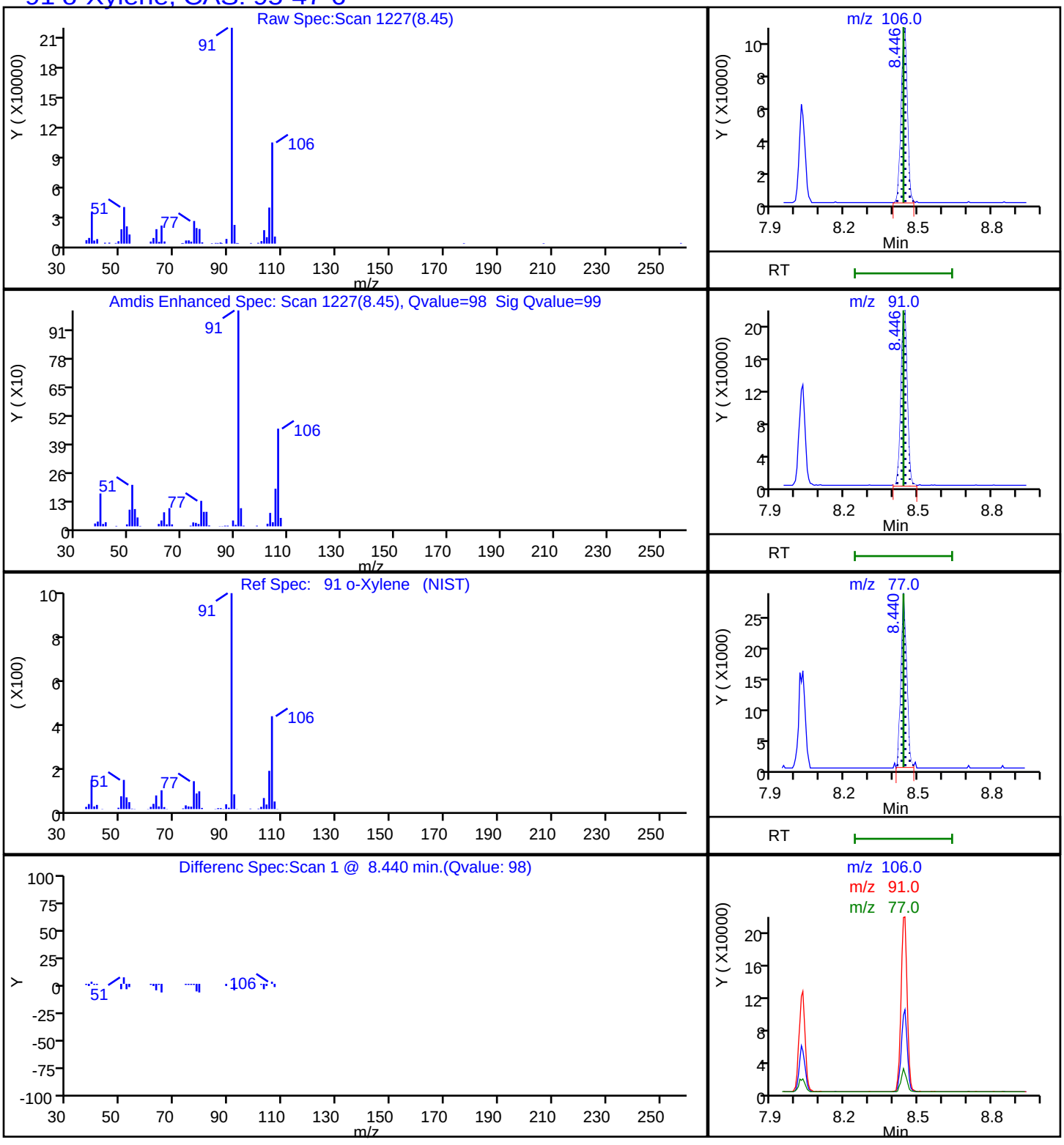
Report Date: 31-Oct-2024 16:01:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

91 o-Xylene, CAS: 95-47-6



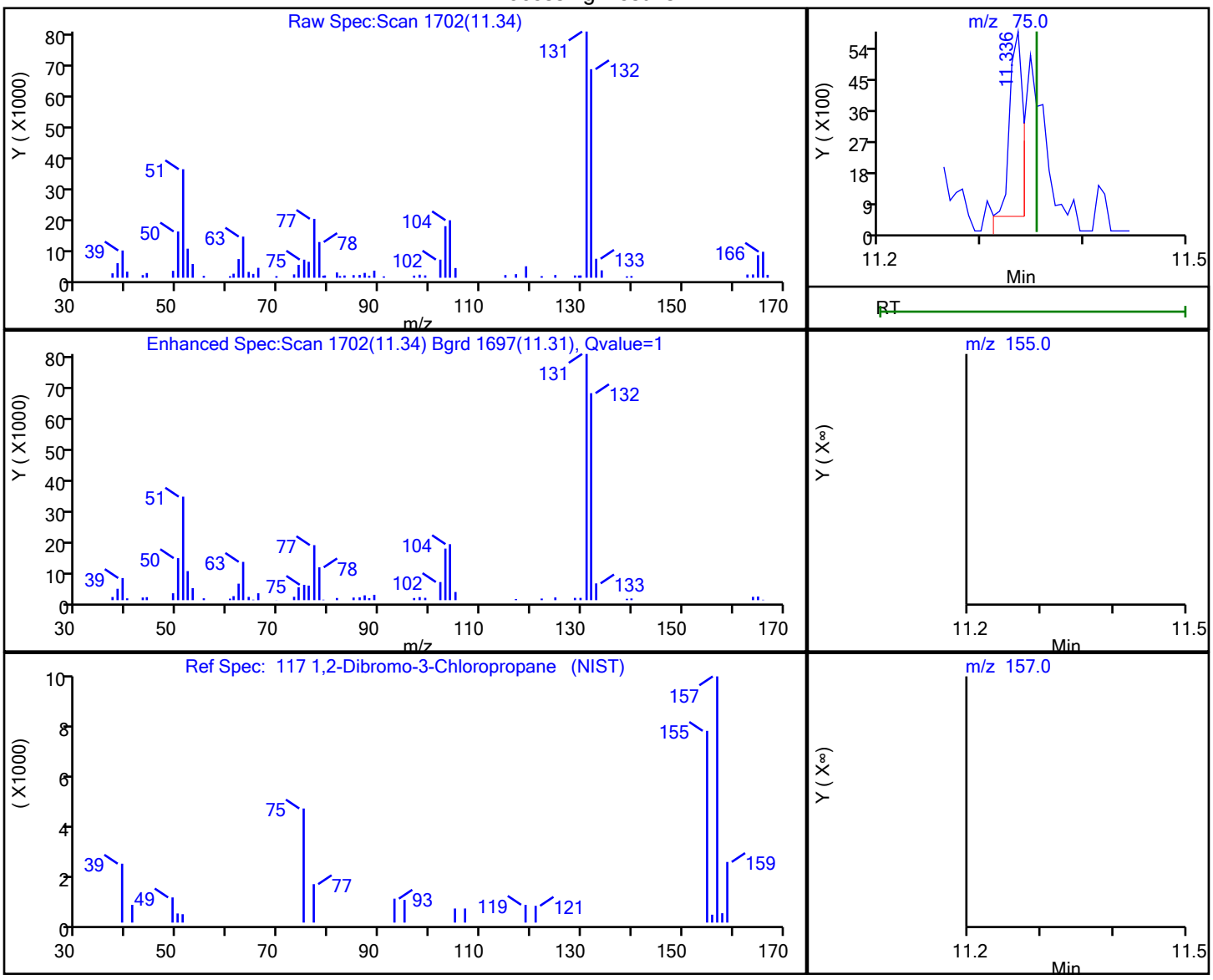
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d				
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-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
11.34	75.00	4905	2.534829
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 16:01:02 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

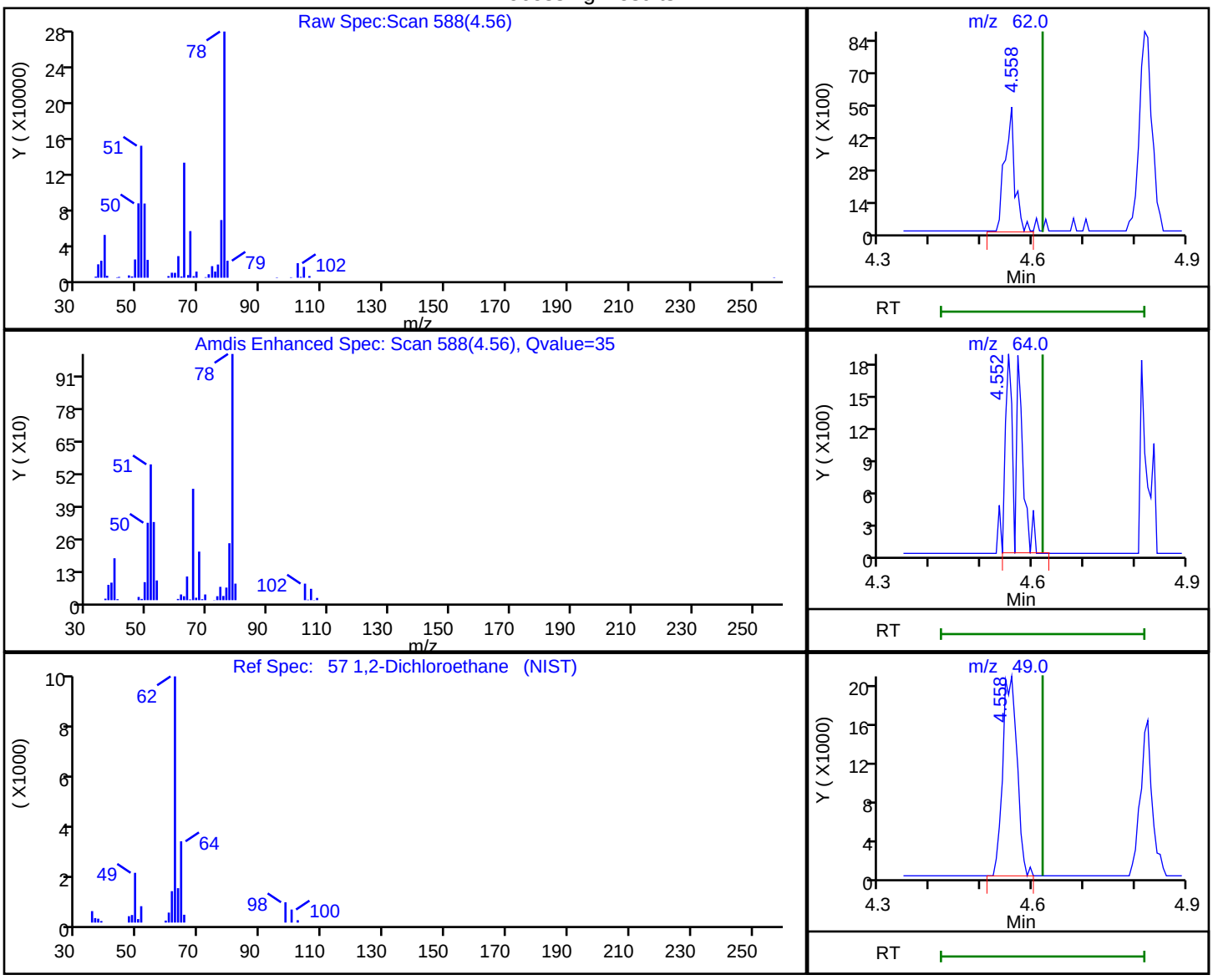
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d				
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.56	62.00	7340	0.604721
4.55	64.00	3285	
4.56	49.00	39577	

Reviewer: HF3K, 31-Oct-2024 16:00:20 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

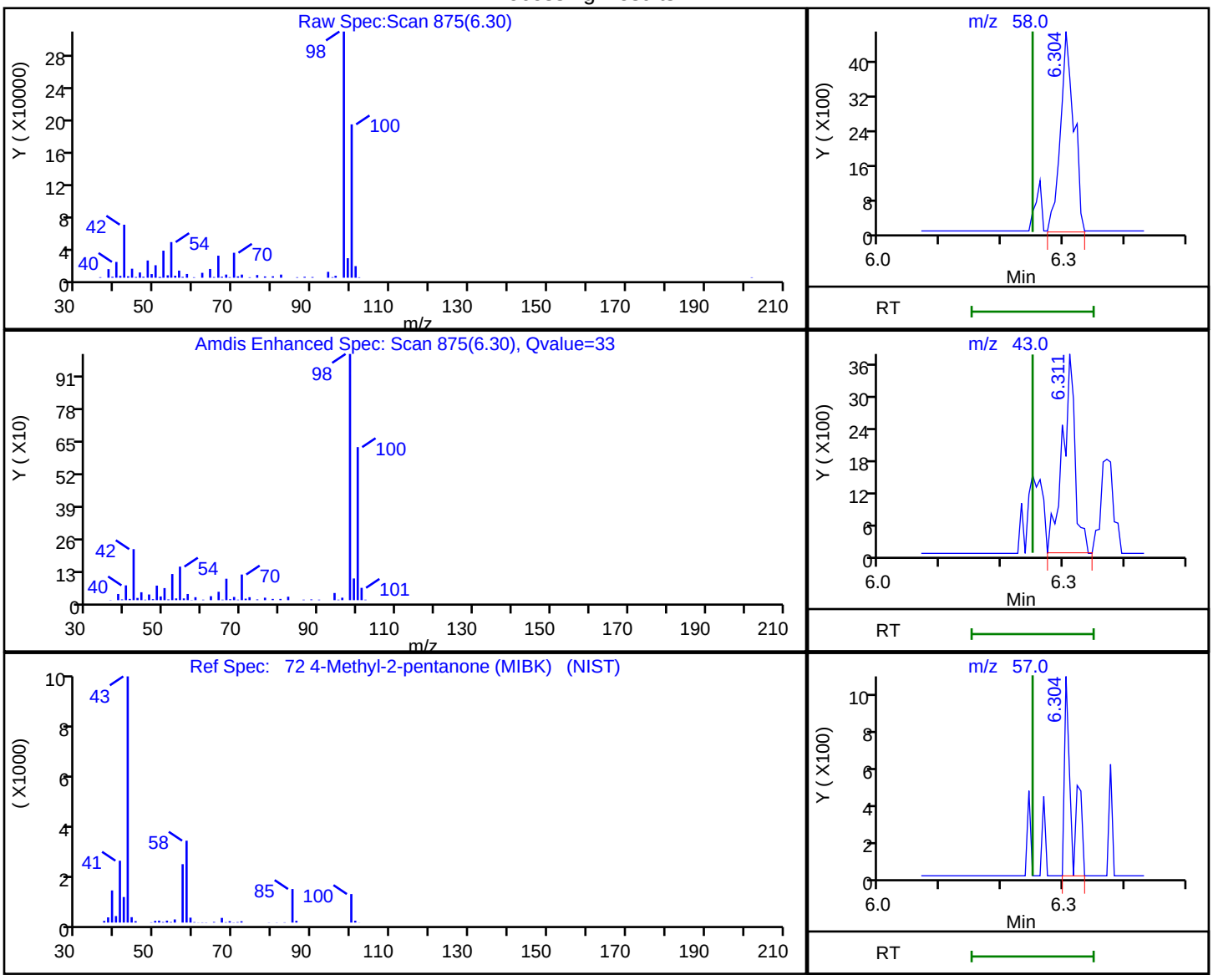
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d				
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.30	58.00	6994	1.325488
6.31	43.00	5307	
6.30	57.00	893	

Reviewer: HF3K, 31-Oct-2024 16:00:37 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

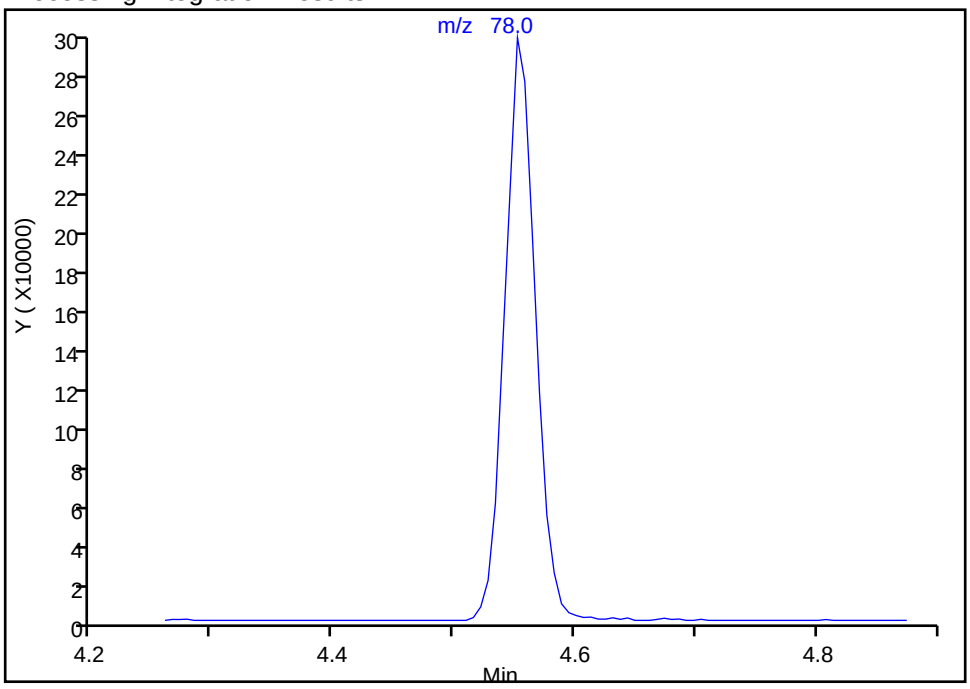
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d				
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2

Signal: 1

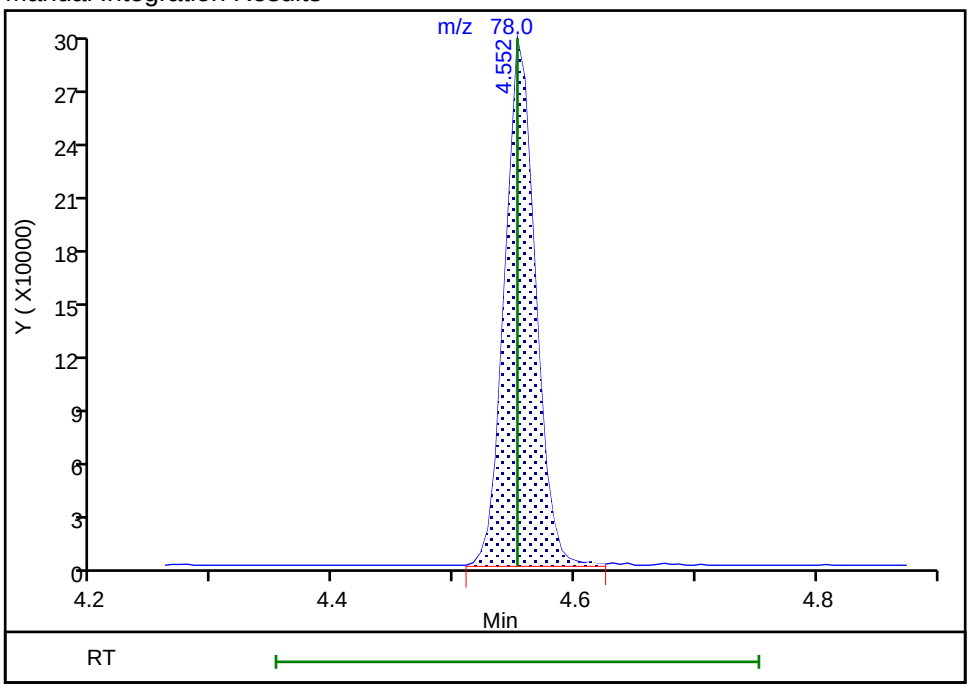
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 519888
Amount: 22.024391
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 16:00:12 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

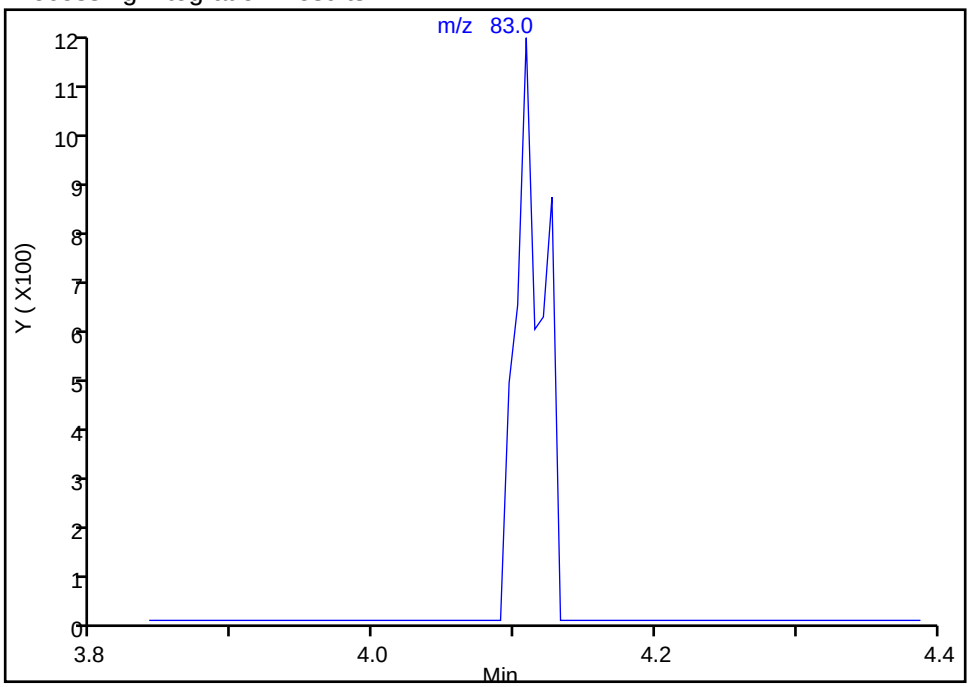
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d				
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3

Signal: 1

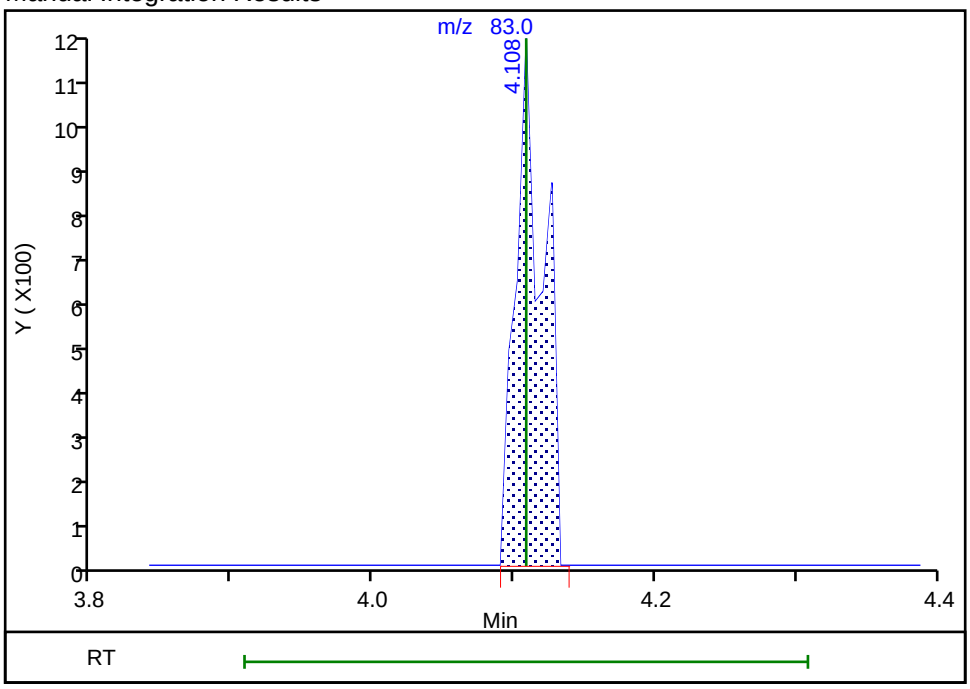
Not Detected
Expected RT: 4.11

Processing Integration Results



Manual Integration Results

RT: 4.11
Area: 1588
Amount: 0.140616
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 16:00:02 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

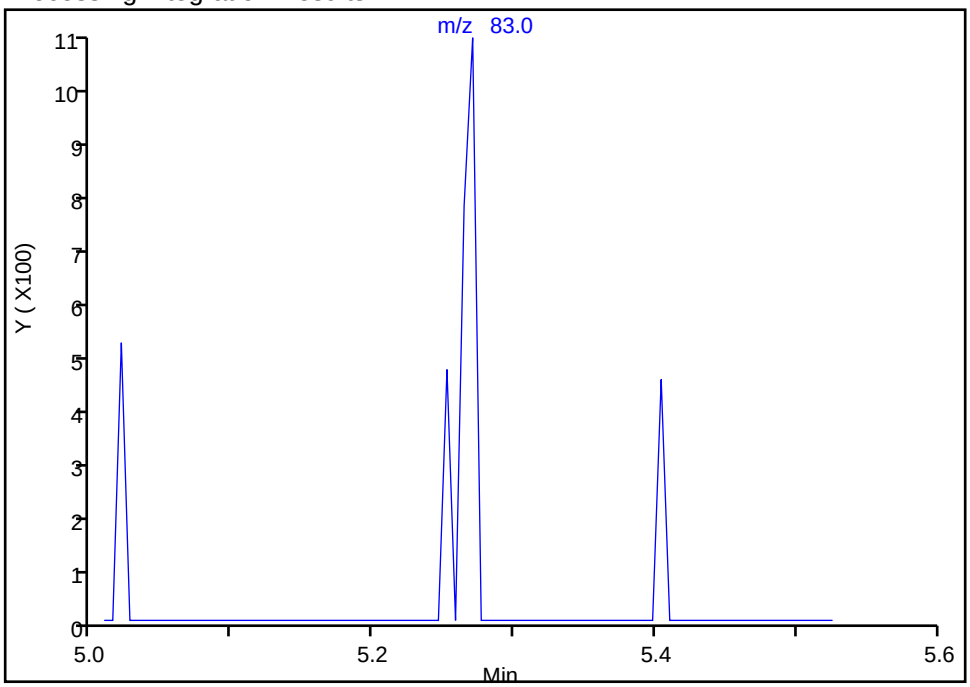
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d				
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Methylcyclohexane, CAS: 108-87-2

Signal: 1

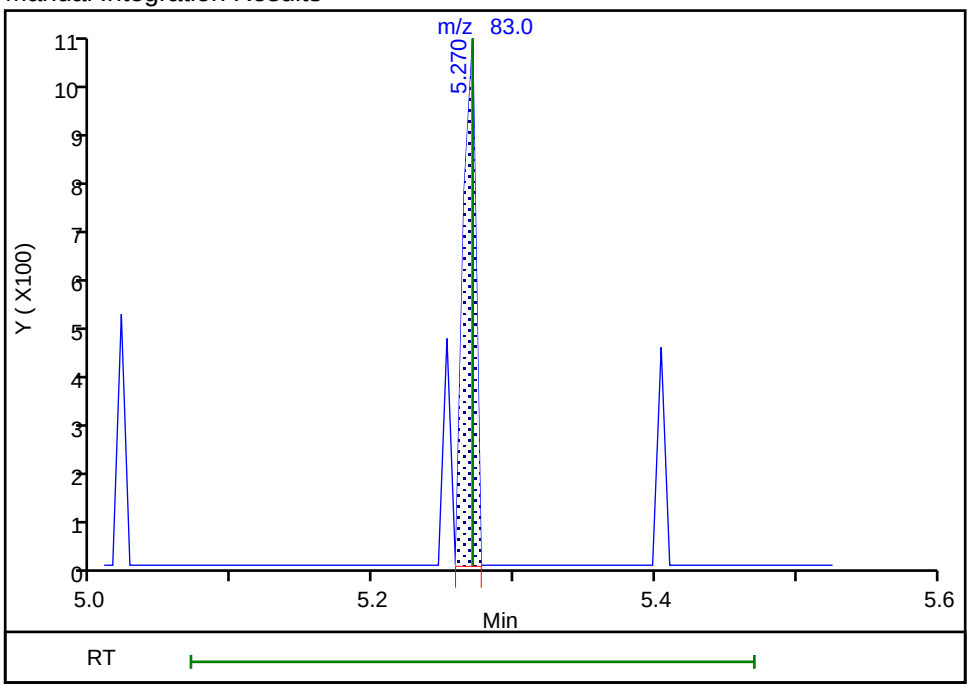
Not Detected
Expected RT: 5.27

Processing Integration Results



Manual Integration Results

RT: 5.27
Area: 625
Amount: 0.062991
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 16:00:28 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-729617/13	N0904.d
Level 2	IC 480-729617/14	N0905.d
Level 3	IC 480-729617/15	N0906.d
Level 4	IC 480-729617/16	N0907.d
Level 5	IC 480-729617/17	N0908.d
Level 6	ICIS 480-729617/18	N0909.d
Level 7	IC 480-729617/19	N0910.d
Level 8	IC 480-729617/20	N0911.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.0770 1.3488	1.2795 1.2594	1.0978 1.1711	1.2262	1.3939	Ave		1.2317			0.1000	9.1		20.0			
Chloromethane	2.5064 2.6708	2.3424 2.4810	2.5295 2.4792	2.5879	2.6572	Ave		2.5318			0.1000	4.2		20.0			
Vinyl chloride	1.3092 1.4435	1.3963 1.3568	1.1209 1.3247	1.3109	1.4268	Ave		1.3361			0.1000	7.6		20.0			
Butadiene	2.1303 2.2689	2.1906 2.1444	1.8644 2.0649	2.0859	2.3519	Ave		2.1376				6.8		20.0			
Bromomethane	+++++ 0.7457	0.7906 0.7037	0.7250 0.6895	0.7581	0.8998	Ave		0.7589			0.1000	9.3		20.0			
Chloroethane	+++++ 0.9094	1.0602 0.8434	1.0319 0.8313	0.9561	0.9247	Ave		0.9367			0.1000	9.3		20.0			
Trichlorofluoromethane	1.4572 1.7896	1.7603 1.6819	1.4701 1.6120	1.5673	1.9001	Ave		1.6548			0.1000	9.5		20.0			
Dichlorofluoromethane	2.2486 2.1476	2.3687 2.0222	1.9831 1.9674	2.0343	2.3307	Ave		2.1378				7.5		20.0			
Ethyl ether	+++++ 1.3272	1.2962 1.2888	1.4831 1.3348	1.3861	1.4179	Ave		1.3620				5.2		20.0			
Acrolein	+++++ 0.1983	0.2362 0.1846	0.2227 0.1928	0.2112	0.2155	Ave		0.2087				8.6		20.0			
1,1-Dichloroethene	+++++ 0.9193	0.8439 0.8594	0.8401 0.8147	0.7831	0.8977	Ave		0.8512			0.1000	5.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.7821 0.9417	0.8467 0.9249	0.9576 0.8425	0.8183	0.8872	Ave		0.8751			0.1000	7.2		20.0			
Acetone	1.0969 0.8428	0.9548 0.7944	0.9862 0.7988	0.9133	0.8683	Ave		0.9069			0.1000	11.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	1.4092 1.7080	1.4792 1.6240	1.6529 1.6173	1.6421	1.7657	Ave		1.6123				7.2		20.0			
Carbon disulfide	2.5652 3.2621	3.2839 3.1484	3.3918 2.9871	2.8316	3.2287	Ave		3.0873			0.1000	8.9		20.0			
Allyl chloride	3.6684 3.6133	3.2845 3.4581	4.0951 3.4068	3.5093	3.7119	Ave		3.5934				6.9		20.0			
Methyl acetate	2.8057 2.2527	2.7036 2.1923	2.5602 2.2361	2.3082	2.3581	Ave		2.4271			0.1000	9.6		20.0			
Methylene Chloride	1.2135 1.0707	1.1035 1.0211	1.2215 1.0194	1.0071	1.2002	Lin1	0.1551	1.0321			0.1000	10.0			0.9980		0.9900
2-Methyl-2-propanol	0.2282 0.2279	0.2381 0.2001	0.2409 0.2346	0.2331	0.2579	Ave		0.2326				7.0		20.0			
Methyl tert-butyl ether	4.0562 3.6325	3.4641 3.5503	3.8510 3.6175	3.4549	3.9888	Ave		3.7019			0.1000	6.3		20.0			
trans-1,2-Dichloroethene	1.0192 1.0951	0.9470 1.0198	1.0835 1.0158	0.9601	1.1079	Ave		1.0310			0.1000	5.8		20.0			
Acrylonitrile	1.1217 1.0874	1.1825 1.0543	1.1094 1.0716	1.1491	1.1302	Ave		1.1133				3.8		20.0			
Hexane	+++++ 2.4997	1.9908 2.4804	2.3616 2.2673	2.2168	2.3162	Ave		2.3047				7.5		20.0			
1,1-Dichloroethane	1.9605 2.4629	2.3158 2.3732	2.4907 2.4217	2.5458	2.5535	Ave		2.3905			0.2000	8.0		20.0			
Vinyl acetate	4.8423 4.7079	4.5728 4.8008	4.6752 4.9281	4.6783	4.5245	Ave		4.7162				2.9		20.0			
2,2-Dichloropropane	+++++ 1.5183	1.2649 1.4584	1.5751 1.3790	1.3058	1.5433	Ave		1.4350				8.4		20.0			
cis-1,2-Dichloroethene	1.0067 1.1223	1.1809 1.1356	1.1846 1.0943	1.1312	1.1865	Ave		1.1303			0.1000	5.3		20.0			
2-Butanone (MEK)	1.7246 1.3997	1.3771 1.3606	1.6885 1.3945	1.5429	1.3630	Ave		1.4814			0.1000	10.2		20.0			
Chlorobromomethane	+++++ 0.5978	0.4734 0.5693	0.5476 0.5778	0.5419	0.6118	Ave		0.5600				8.1		20.0			
Tetrahydrofuran	+++++ 1.0001	1.3171 0.9417	1.1990 0.9561	1.1302	1.0371	Ave		1.0830				12.8		20.0			
Chloroform	+++++ 1.8617	2.2469 1.7985	2.0703 1.8082	1.7656	1.9784	Ave		1.9328			0.2000	9.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	1.2168 1.6803	1.5787 1.6091	1.6954 1.6142	1.5821	1.7392	Ave		1.5895			0.1000	10.1		20.0			
Cyclohexane	+++++ 3.1409	2.6688 3.0725	2.9753 2.9274	2.6904	3.2164	Ave		2.9560			0.1000	7.2		20.0			
Carbon tetrachloride	+++++ 1.5642	1.2270 1.5769	1.5228 1.5293	1.3725	1.5975	Ave		1.4843			0.1000	9.1		20.0			
1,1-Dichloropropene	1.1083 1.4660	1.2514 1.4364	1.4481 1.3611	1.3453	1.3808	Ave		1.3497				8.8		20.0			
Benzene	3.4114 4.1717	4.1918 4.0071	4.3188 4.0134	3.9793	4.2259	Ave		4.0399			0.5000	7.0		20.0			
Isobutyl alcohol	+++++ 0.1251	0.1318 0.1243	0.1416 0.1300	0.1376	0.1319	Ave		0.1317				4.7		20.0			
1,2-Dichloroethane	2.2330 2.0682	1.9726 1.9870	2.2420 2.0316	2.0306	2.0536	Ave		2.0773			0.1000	5.0		20.0			
n-Heptane	+++++ 2.9535	3.1092 3.0684	3.0705 2.7780	2.8960	2.9410	Ave		2.9738				3.9		20.0			
Trichloroethene	+++++ 1.0610	1.0671 1.0312	1.0915 1.0397	1.0005	0.9997	Ave		1.0415			0.2000	3.3		20.0			
Methylcyclohexane	+++++ 1.8438	1.4953 1.8181	1.6559 1.7228	1.5103	1.8405	Ave		1.6981			0.1000	8.8		20.0			
1,2-Dichloropropane	1.1552 1.3113	1.2074 1.3088	1.3034 1.2840	1.3449	1.3341	Ave		1.2811			0.1000	5.1		20.0			
Dibromomethane	0.7214 0.6903	0.8971 0.6767	0.7990 0.6846	0.7380	0.6738	Ave		0.7351			0.1000	10.6		20.0			
1,4-Dioxane	+++++ 0.0034	0.0025 0.0029	0.0021 0.0030	0.0032	0.0030	Ave		0.0029				14.6		20.0			
Bromodichloromethane	1.0773 1.3501	1.1577 1.3204	1.2907 1.3456	1.1879	1.3071	Ave		1.2546			0.2000	8.0		20.0			
2-Chloroethyl vinyl ether	+++++ 0.9332	0.7539 0.9292	0.9245 0.9229	0.9076	0.8665	Ave		0.8911				7.3		20.0			
cis-1,3-Dichloropropene	1.6163 1.7076	1.4312 1.7222	1.7329 1.7285	1.7036	1.6614	Ave		1.6630			0.2000	6.1		20.0			
4-Methyl-2-pentanone (MIBK)	0.3006 0.2725	0.2763 0.2628	0.2922 0.2644	0.2643	0.2675	Ave		0.2751			0.1000	5.1		20.0			
Toluene	0.6439 0.7253	0.5962 0.7041	0.6998 0.7102	0.7011	0.6791	Ave		0.6825			0.4000	6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
trans-1,3-Dichloropropene	0.3799 0.4476	0.3779 0.4445	0.4264 0.4625	0.4627	0.3996	Ave		0.4252			0.1000	8.2		20.0			
Ethyl methacrylate	0.3809 0.4337	0.4377 0.4200	0.4302 0.4403	0.4233	0.4250	Ave		0.4239				4.4		20.0			
1,1,2-Trichloroethane	+++++ 0.2160	0.1815 0.2139	0.2353 0.2130	0.2273	0.2005	Ave		0.2125			0.1000	8.3		20.0			
Tetrachloroethene	0.2338 0.3029	0.2781 0.3025	0.3086 0.2869	0.2922	0.2825	Ave		0.2859			0.2000	8.3		20.0			
1,3-Dichloropropane	0.3970 0.4436	0.4781 0.4291	0.4952 0.4441	0.4018	0.4136	Ave		0.4378				8.0		20.0			
2-Hexanone	0.6700 0.6075	0.6502 0.5825	0.6028 0.5899	0.6269	0.5977	Ave		0.6159			0.1000	5.0		20.0			
Dibromochloromethane	0.2379 0.3000	0.2574 0.2932	0.3074 0.3140	0.2699	0.2600	Ave		0.2800			0.1000	9.8		20.0			
1,2-Dibromoethane	0.2664 0.2906	0.2931 0.2803	0.2685 0.2864	0.2852	0.2713	Ave		0.2802				3.7		20.0			
Chlorobenzene	0.6585 0.7729	0.7186 0.7732	0.7885 0.7791	0.7494	0.7275	Ave		0.7460			0.5000	5.8		20.0			
Ethylbenzene	1.2143 1.3723	1.2296 1.3486	1.3124 1.3389	1.2850	1.3022	Ave		1.3004			0.1000	4.3		20.0			
1,1,1,2-Tetrachloroethane	0.2314 0.3028	0.2359 0.3028	0.3291 0.3074	0.2792	0.2993	Ave		0.2860				12.3		20.0			
m,p-Xylene	0.4988 0.5461	0.4348 0.5329	0.5608 0.5184	0.4838	0.5245	Ave		0.5125			0.1000	7.8		20.0			
o-Xylene	0.4235 0.5524	0.4768 0.5404	0.5641 0.5265	0.5008	0.5165	Ave		0.5126			0.3000	8.9		20.0			
Styrene	0.8047 0.8858	0.7670 0.8589	0.8624 0.8699	0.8109	0.8184	Ave		0.8348			0.3000	4.9		20.0			
Bromoform	0.1801 0.1927	0.1559 0.2027	0.1670 0.2166	0.1631	0.1845	Ave		0.1828			0.1000	11.3		20.0			
Isopropylbenzene	+++++ 2.6009	2.3561 2.5525	2.5500 2.4274	2.3758	2.4737	Ave		2.4766			0.1000	3.8		20.0			
Bromobenzene	0.5379 0.6675	0.6411 0.6519	0.6366 0.6645	0.6711	0.6459	Ave		0.6396				6.7		20.0			
1,1,2,2-Tetrachloroethane	0.9651 0.7509	0.7628 0.7788	0.8419 0.7420	0.7512	0.7581	Ave		0.7939			0.3000	9.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	2.3840 3.1235	2.8480 3.1204	3.0767 3.0251	2.9054	3.0585	Ave		2.9427				8.4		20.0			
1,2,3-Trichloropropane	0.3226 0.2634	0.2613 0.2502	0.2557 0.2473	0.2877	0.2588	Ave		0.2684				9.4		20.0			
trans-1,4-Dichloro-2-butene	0.4336 0.4473	0.3629 0.4470	0.4343 0.4692	0.4028	0.4033	Ave		0.4251				7.9		20.0			
2-Chlorotoluene	0.5140 0.6347	0.5927 0.6285	0.6593 0.6108	0.6419	0.6437	Ave		0.6157				7.5		20.0			
1,3,5-Trimethylbenzene	1.8828 2.3575	1.8163 2.3771	2.3304 2.2424	2.1766	2.2425	Ave		2.1782				9.8		20.0			
4-Chlorotoluene	+++++ 2.1734	1.9370 2.1753	2.2085 2.1130	2.1332	2.0370	Ave		2.1110				4.5		20.0			
tert-Butylbenzene	0.4864 0.5159	0.3349 0.5099	0.4492 0.4765	0.4821	0.4601	Ave		0.4644				12.3		20.0			
1,2,4-Trimethylbenzene	2.2232 2.3896	2.3167 2.3879	2.3862 2.3136	2.1865	2.3142	Ave		2.3147				3.3		20.0			
sec-Butylbenzene	+++++ 2.9751	2.4685 2.9692	2.5950 2.7866	2.6763	2.8024	Ave		2.7533				6.8		20.0			
1,3-Dichlorobenzene	1.0963 1.2186	1.0234 1.2189	1.2340 1.2169	1.2104	1.2302	Ave		1.1811			0.6000	6.6		20.0			
4-Isopropyltoluene	+++++ 2.6211	2.1338 2.6507	2.4882 2.4884	2.3616	2.5048	Ave		2.4641				7.1		20.0			
1,4-Dichlorobenzene	1.0114 1.2562	1.2127 1.2345	1.3659 1.2169	1.1897	1.2399	Ave		1.2159			0.5000	8.1		20.0			
n-Butylbenzene	1.9395 2.2306	1.9504 2.2526	2.1937 2.1178	2.0912	2.1563	Ave		2.1165				5.6		20.0			
1,2-Dichlorobenzene	1.2003 1.2121	1.1218 1.2226	1.2488 1.1668	1.1574	1.2439	Ave		1.1967			0.4000	3.7		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1954	0.1538 0.1870	0.1745 0.1929	0.1574	0.1629	Ave		0.1748			0.0500	9.9		20.0			
1,2,4-Trichlorobenzene	0.7656 0.8908	0.7612 0.8908	0.9285 0.8431	0.8549	0.9454	Ave		0.8600			0.2000	8.0		20.0			
Hexachlorobutadiene	+++++ 0.4619	0.3756 0.4366	0.4566 0.3868	0.4481	0.4380	Ave		0.4291				7.9		20.0			
Naphthalene	2.8746 2.6824	2.4668 2.6395	2.6427 2.6970	2.5880	2.7293	Ave		2.6650				4.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	0.8896 0.8532	0.7790 0.8226	0.7875 0.8254	0.8356	0.8996	Ave		0.8366				5.2		20.0			
Dibromofluoromethane (Surr)	1.1051 1.1310	1.1264 1.1199	1.1229 1.1217	1.1519	1.2089	Ave		1.1360				2.8		20.0			
1,2-Dichloroethane-d4 (Surr)	1.6577 1.6244	1.6508 1.6493	1.8069 1.6979	1.6979	1.7346	Ave		1.6899				3.5		20.0			
Toluene-d8 (Surr)	1.1076 1.1530	1.1431 1.1507	1.1778 1.1624	1.1351	1.1245	Ave		1.1443				1.9		20.0			
4-Bromofluorobenzene (Surr)	0.3506 0.3696	0.3598 0.3572	0.3620 0.3714	0.3673	0.3491	Ave		0.3609				2.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-729617/13	N0904.d
Level 2	IC 480-729617/14	N0905.d
Level 3	IC 480-729617/15	N0906.d
Level 4	IC 480-729617/16	N0907.d
Level 5	IC 480-729617/17	N0908.d
Level 6	ICIS 480-729617/18	N0909.d
Level 7	IC 480-729617/19	N0910.d
Level 8	IC 480-729617/20	N0911.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	3952 251012	9727 488483	16011 903763	46077	96382	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	9197 497018	17807 962289	36891 1913196	97247	183733	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	4804 268638	10615 526230	16348 1022288	49260	98657	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	7817 422226	16653 831712	27191 1593481	78382	162626	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	+++++ 138778	6010 272920	10573 532093	28489	62218	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	+++++ 169238	8060 327123	15049 641496	35926	63936	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	5347 333030	13382 652357	21440 1243999	58896	131384	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	8251 399652	18007 784330	28922 1518252	76444	161159	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	+++++ 246991	9854 499893	21630 1030037	52085	98041	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	+++++ 184490	8978 357947	16238 743794	39686	74494	+++++ 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	+++++ 171087	6415 333346	12253 628725	29427	62074	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2870 175238	6437 358744	13966 650169	30749	61348	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	20126 784172	36293 1540528	71916 3081995	171606	300200	2.50 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	5171 317849	11245 629877	24106 1248048	61704	122090	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	9413	24964	49468	106403	223251	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.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			607056	1221153	2305151			25.0	50.0	100		
Allyl chloride	FB	Ave	13461 672422	24969 1341274	59724 2628995	131870	256664	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	20591 838419	41106 1700632	74679 3451168	173469	326100	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	4453 199246	8389 396030	17815 786705	37843	82986	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	8374 424094	18104 776030	35132 1810451	87581	178352	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	14884 675986	26334 1377010	56164 2791657	129825	275810	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	3740 203794	7199 395525	15802 783924	36077	76604	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	41159 2023564	89895 4089079	161797 8269562	431814	781512	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	+++++ 465177	15134 962042	34442 1749657	83303	160159	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	7194 458342	17605 920482	36326 1868833	95665	176561	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	35537 1752232	69525 3724054	136369 7606066	351595	625705	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 282542	9616 565646	22972 1064188	49068	106712	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	3694 208862	8977 440470	17277 844506	42507	82044	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	31642 1302348	52345 2638672	123126 5380853	289882	471218	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	+++++ 111241	3599 220813	7987 445906	20364	42303	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	+++++ 372213	20025 730520	34973 1475644	84941	143419	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	+++++ 346456	17081 697554	30194 1395356	66345	136800	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	4465 312704	12001 624110	24726 1245700	59452	120262	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	+++++ 584505	20288 1191716	43393 2259065	101099	222402	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 291098	9328 611598	22209 1180134	51576	110464	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	4067 272826	9513 557140	21119 1050394	50551	95480	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	12518 776339	31866 1554209	62987 3097127	149531	292204	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	+++++ 581981	25043 1205375	51621 2508225	129268	227933	+++++ 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	8194 384893	14996 770684	32698 1567767	76305	142001	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	+++++ 549643	23636 1190100	44782 2143788	108824	203360	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	+++++ 197452	8112 399961	15919 802329	37597	69122	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	+++++ 343124	11367 705179	24151 1329501	56753	127266	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	4239 244028	9179 507625	19010 990874	50536	92249	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2647 128459	6820 262484	11653 528308	27731	46588	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZd5	Ave	+++++ 43482	1306 80075	2223 165143	8574	15206	+++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	3953 251255	8801 512121	18824 1038383	44639	90382	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 173672	5731 360414	13483 712216	34106	59916	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	5931 317778	10880 667988	25274 1333909	64018	114880	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZd5	Ave	19269 878639	36258 1797400	75840 3613599	179831	335660	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZd5	Ave	8254 467790	15649 962946	36322 1941330	95403	170448	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZd5	Ave	4870 288704	9921 607974	22131 1264234	62967	100297	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZd5	Ave	4882 279688	11490 574397	22330 1203486	57600	106669	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZd5	Ave	+++++ 139338	4764 292554	12211 582206	30926	50328	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZd5	Ave	2997	7299	16016	39758	70889	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.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			195343	413702	784158			25.0	50.0	100		
1,3-Dichloropropane	CBNZd5	Ave	5089 286068	12549 586951	25705 1214069	54683	103810	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZd5	Ave	42944 1959122	85337 3983242	156444 8062514	426559	750027	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZd5	Ave	3049 193508	6758 401023	15953 858364	36723	65247	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZd5	Ave	3415 187423	7693 383415	13937 782843	38806	68089	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZd5	Ave	8441 498469	18862 1057529	40926 2129680	101981	182576	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZd5	Ave	15565 885059	32278 1844552	68119 3659980	174871	326816	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	2966 195298	6193 414133	17082 840227	37991	75124	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZd5	Ave	6394 352200	11413 728897	29108 1417186	65839	131636	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZd5	Ave	5428 356241	12517 739181	29281 1439285	68148	129636	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZd5	Ave	10315 571283	20133 1174737	44761 2378101	110352	205407	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZd5	Ave	2309 124305	4092 277249	8668 592065	22195	46309	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd4	Ave	+++++ 867730	31887 1761960	67834 3434984	163430	315908	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd4	Ave	3548 222712	8677 449970	16934 940341	46166	82490	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd4	Ave	6366 250522	10324 537624	22396 1049963	51676	96817	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd4	Ave	15725 1042109	38545 2153985	81845 4280804	199860	390582	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd4	Ave	2128	3536	6802	19791	33055	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.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			87879	172687	349977			25.0	50.0	100		
trans-1,4-Dichloro-2-butene	DCBd4	Ave	2860 149225	4911 308530	11553 663989	27711	51508	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd4	Ave	3390 211759	8021 433827	17537 864334	44158	82199	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd4	Ave	12419 786527	24582 1640902	61991 3173148	149724	286373	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd4	Ave	+++++ 725107	26215 1501538	58748 2990117	146740	260130	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd4	Ave	3208 172113	4532 352003	11950 674298	33164	58761	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd4	Ave	14664 797239	31354 1648316	63477 3273916	150405	295529	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd4	Ave	+++++ 992582	33408 2049587	69031 3943300	184099	357878	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd4	Ave	7231 406581	13850 841390	32826 1722029	83263	157097	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd4	Ave	+++++ 874490	28879 1829741	66189 3521306	162451	319869	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dichlorobenzene	DCBd4	Ave	6671 419121	16413 852155	36334 1721961	81835	158347	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd4	Ave	12793 744208	26396 1554916	58355 2996787	143850	275364	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd4	Ave	7917 404393	15182 843927	33220 1651055	79614	158853	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	+++++ 65193	2081 129051	4643 272899	10827	20800	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd4	Ave	5050 297211	10302 614881	24699 1192991	58807	120727	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd4	Ave	+++++ 154110	5083 301347	12146 547369	30824	55929	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd4	Ave	18961 894930	33386 1821995	70298 3816424	178024	348547	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd4	Ave	5868 284643	10543 567826	20948 1168002	57483	114880	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	202752 210471	214078 217189	204704 216413	216420	208978	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	304138 302301	313731 319857	329398 327568	319011	299845	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZd5	Ave	709871	750165	764142	772367	705530	25.0	25.0	25.0	25.0	25.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			743629	786930	794383			25.0	25.0	25.0		
4-Bromofluorobenzene (Surr)	CBNZd 5	Ave	224695	236117	234894	249929	219057	25.0	25.0	25.0	25.0	25.0
			238347	244279	253835			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.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-729617/13	N0904.d
Level 2	IC 480-729617/14	N0905.d
Level 3	IC 480-729617/15	N0906.d
Level 4	IC 480-729617/16	N0907.d
Level 5	IC 480-729617/17	N0908.d
Level 6	ICIS 480-729617/18	N0909.d
Level 7	IC 480-729617/19	N0910.d
Level 8	IC 480-729617/20	N0911.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-12.6						30					
Chloromethane	-1.0						30					
Vinyl chloride	-2.0						30					
Butadiene	-0.3						30					
Bromomethane	+++++	4.2						30				
Chloroethane	+++++	13.2						30				
Trichlorofluoromethane	-11.9						30					
Dichlorofluoromethane	5.2						30					
Ethyl ether	+++++	-4.8						30				
Acrolein	+++++	13.2						30				
1,1-Dichloroethene	+++++	-0.9						30				
1,1,2-Trichloro-1,2,2-trifluoroethane	-10.6						30					
Acetone	21.0						30					
Iodomethane	-12.6						30					
Carbon disulfide	-16.9						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Allyl chloride	2.1						30					
Methyl acetate	15.6						30					
Methylene Chloride	-12.5						30					
2-Methyl-2-propanol	-1.9						30					
Methyl tert-butyl ether	9.6						30					
trans-1,2-Dichloroethene	-1.1						30					
Acrylonitrile	0.8						30					
Hexane	+++++	-13.6						30				
1,1-Dichloroethane	-18.0						30					
Vinyl acetate	2.7						30					
2,2-Dichloropropane	+++++	-11.8						30				
cis-1,2-Dichloroethene	-10.9						30					
2-Butanone (MEK)	16.4						30					
Chlorobromomethane	+++++	-15.5						30				
Tetrahydrofuran	+++++	21.6						30				
Chloroform	+++++	16.3						30				
1,1,1-Trichloroethane	-23.4						30					
Cyclohexane	+++++	-9.7						30				
Carbon tetrachloride	+++++	-17.3						30				
1,1-Dichloropropene	-17.9						30					
Benzene	-15.6						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Isobutyl alcohol	+++++	0.0						30				
1,2-Dichloroethane	7.5						30					
n-Heptane	+++++	4.6						30				
Trichloroethene	+++++	2.5						30				
Methylcyclohexane	+++++	-11.9						30				
1,2-Dichloropropane	-9.8						30					
Dibromomethane	-1.9						30					
1,4-Dioxane	+++++	-13.5						30				
Bromodichloromethane	-14.1						30					
2-Chloroethyl vinyl ether	+++++	-15.4						30				
cis-1,3-Dichloropropene	-2.8						30					
4-Methyl-2-pentanone (MIBK)	9.3						30					
Toluene	-5.6						30					
trans-1,3-Dichloropropene	-10.6						30					
Ethyl methacrylate	-10.1						30					
1,1,2-Trichloroethane	+++++	-14.6						30				
Tetrachloroethene	-18.2						30					
1,3-Dichloropropane	-9.3						30					
2-Hexanone	8.8						30					
Dibromochloromethane	-15.0						30					
1,2-Dibromoethane	-4.9						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	-11.7						30					
Ethylbenzene	-6.6						30					
1,1,1,2-Tetrachloroethane	-19.1						30					
m,p-Xylene	-2.7						30					
o-Xylene	-17.4						30					
Styrene	-3.6						30					
Bromoform	-1.5						30					
Isopropylbenzene	+++++	-4.9						30				
Bromobenzene	-15.9						30					
1,1,2,2-Tetrachloroethane	21.6						30					
N-Propylbenzene	-19.0						30					
1,2,3-Trichloropropane	20.2						30					
trans-1,4-Dichloro-2-butene	2.0						30					
2-Chlorotoluene	-16.5						30					
1,3,5-Trimethylbenzene	-13.6						30					
4-Chlorotoluene	+++++	-8.2						30				
tert-Butylbenzene	4.7						30					
1,2,4-Trimethylbenzene	-4.0						30					
sec-Butylbenzene	+++++	-10.3						30				
1,3-Dichlorobenzene	-7.2						30					
4-Isopropyltoluene	+++++	-13.4						30				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	-16.8						30					
n-Butylbenzene	-8.4						30					
1,2-Dichlorobenzene	0.3						30					
1,2-Dibromo-3-Chloropropane	+++++	-12.0						30				
1,2,4-Trichlorobenzene	-11.0						30					
Hexachlorobutadiene	+++++	-12.5						30				
Naphthalene	7.9						30					
1,2,3-Trichlorobenzene	6.3						30					
Dibromofluoromethane (Surr)	-2.7						30					
1,2-Dichloroethane-d4 (Surr)	-1.9						30					
Toluene-d8 (Surr)	-3.2						30					
4-Bromofluorobenzene (Surr)	-2.9						30					

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Lims ID: IC 0.5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 24-Oct-2024 15:19:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.5
Misc. Info.: 480-0120783-013
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:09 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:21:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	183473	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.001	91	640920	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	329798	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	202752	25.0	24.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	304138	25.0	24.5	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	94	709871	25.0	24.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	86	224695	25.0	24.3	
11 Dichlorodifluoromethane	85	1.048	1.042	0.006	1	3952	0.5000	0.4372	
13 Chloromethane	50	1.188	1.182	0.006	96	9197	0.5000	0.4950	
14 Vinyl chloride	62	1.255	1.255	0.000	44	4804	0.5000	0.4899	
144 Butadiene	54	1.267	1.267	0.000	91	7817	0.5000	0.4983	
15 Bromomethane	94	1.505	1.504	0.001	21	3769	0.5000	0.6767	
16 Chloroethane	64	1.572	1.565	0.007	34	4262	0.5000	0.6200	M
18 Trichlorofluoromethane	101	1.736	1.742	-0.006	11	5347	0.5000	0.4403	
17 Dichlorofluoromethane	67	1.748	1.742	0.006	37	8251	0.5000	0.5259	a
19 Ethyl ether	59	1.985	1.985	0.000	44	6395	0.5000	0.6398	
20 Acrolein	56	2.149	2.143	0.006	19	6307	2.50	4.12	
22 1,1-Dichloroethene	96	2.186	2.174	0.012	43	2166	0.5000	0.3467	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	0	2870	0.5000	0.4469	M
23 Acetone	43	2.289	2.283	0.006	95	20126	2.50	3.02	a
24 Iodomethane	142	2.320	2.314	0.006	22	5171	0.5000	0.4370	
25 Carbon disulfide	76	2.356	2.350	0.006	95	9413	0.5000	0.4154	
27 3-Chloro-1-propene	41	2.521	2.514	0.007	69	13461	0.5000	0.5104	
28 Methyl acetate	43	2.563	2.563	0.000	98	20591	1.00	1.16	a
30 Methylene Chloride	84	2.654	2.654	0.000	84	4453	0.5000	0.4377	
31 2-Methyl-2-propanol	59	2.837	2.825	0.012	75	8374	5.00	4.91	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	94	14884	0.5000	0.5479	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	43	3740	0.5000	0.4943	a
34 Acrylonitrile	53	2.922	2.922	0.000	89	41159	5.00	5.04	
35 Hexane	57	3.056	3.056	0.000	87	5824	0.5000	0.3443	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.257	3.263	-0.006	1	7194	0.5000	0.4101	
39 Vinyl acetate	43	3.324	3.323	0.001	96	35537	1.00	1.03	
42 2,2-Dichloropropane	77	3.768	3.761	0.007	16	4157	0.5000	0.3947	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	87	3694	0.5000	0.4453	
44 2-Butanone (MEK)	43	3.841	3.834	0.007	95	31642	2.50	2.91	
47 Chlorobromomethane	128	4.023	4.029	-0.006	50	2720	0.5000	0.6619	
49 Tetrahydrofuran	42	4.041	4.041	0.000	84	10512	1.00	1.32	
50 Chloroform	83	4.114	4.108	0.006	86	9471	0.5000	0.6677	
51 1,1,1-Trichloroethane	97	4.212	4.206	0.006	33	4465	0.5000	0.3828	
52 Cyclohexane	56	4.218	4.212	0.006	65	8714	0.5000	0.4017	
53 Carbon tetrachloride	117	4.346	4.339	0.007	34	3729	0.5000	0.3423	
54 1,1-Dichloropropene	75	4.352	4.358	-0.006	71	4067	0.5000	0.4106	
55 Benzene	78	4.552	4.552	0.000	39	12518	0.5000	0.4222	
56 Isobutyl alcohol	43	4.619	4.607	0.012	91	16779	12.5	17.4	
57 1,2-Dichloroethane	62	4.632	4.619	0.013	91	8194	0.5000	0.5375	
59 n-Heptane	43	4.753	4.747	0.006	86	6588	0.5000	0.3019	M
60 Trichloroethene	95	5.167	5.155	0.012	79	2348	0.5000	0.3072	Ma
62 Methylcyclohexane	83	5.264	5.264	0.000	90	4223	0.5000	0.3389	M
63 1,2-Dichloropropane	63	5.392	5.392	0.000	86	4239	0.5000	0.4509	
64 Dibromomethane	93	5.526	5.526	0.000	52	2647	0.5000	0.4906	M
66 1,4-Dioxane	88		5.538				ND	ND	MU
67 Dichlorobromomethane	83	5.684	5.684	0.000	33	3953	0.5000	0.4293	
69 2-Chloroethyl vinyl ether	63	5.976	5.970	0.006	22	2367	0.5000	0.3619	
71 cis-1,3-Dichloropropene	75	6.104	6.098	0.006	82	5931	0.5000	0.4860	M
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	95	19269	2.50	2.73	
73 Toluene	92	6.371	6.371	0.000	95	8254	0.5000	0.4718	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	88	4870	0.5000	0.4468	
77 Ethyl methacrylate	69	6.730	6.724	0.006	76	4882	0.5000	0.4493	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	0	1839	0.5000	0.3376	M
79 Tetrachloroethene	166	6.895	6.894	0.001	43	2997	0.5000	0.4089	
80 1,3-Dichloropropane	76	7.004	6.998	0.006	0	5089	0.5000	0.4534	M
82 2-Hexanone	43	7.089	7.083	0.006	97	42944	2.50	2.72	
83 Chlorodibromomethane	129	7.235	7.229	0.006	23	3049	0.5000	0.4248	
84 Ethylene Dibromide	107	7.321	7.320	0.000	37	3415	0.5000	0.4754	
85 Chlorobenzene	112	7.795	7.801	-0.006	0	8441	0.5000	0.4414	M
88 Ethylbenzene	91	7.898	7.898	0.000	97	15565	0.5000	0.4669	
89 1,1,1,2-Tetrachloroethane	131	7.905	7.904	0.001	46	2966	0.5000	0.4045	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	94	6394	0.5000	0.4866	
91 o-Xylene	106	8.440	8.440	0.000	91	5428	0.5000	0.4130	
92 Styrene	104	8.476	8.476	0.000	92	10315	0.5000	0.4820	
93 Bromoform	173	8.708	8.707	0.001	3	2309	0.5000	0.4926	
95 Isopropylbenzene	105	8.829	8.829	0.000	92	12202	0.5000	0.3735	
97 Bromobenzene	156	9.170	9.170	0.000	81	3548	0.5000	0.4205	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.261	-0.006	50	6366	0.5000	0.6079	
100 N-Propylbenzene	91	9.279	9.273	0.006	97	15725	0.5000	0.4051	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	0	2128	0.5000	0.6011	M
101 trans-1,4-Dichloro-2-butene	53	9.316	9.304	0.012	1	2860	0.5000	0.5101	
102 2-Chlorotoluene	126	9.377	9.377	0.000	92	3390	0.5000	0.4174	
104 1,3,5-Trimethylbenzene	105	9.474	9.468	0.006	95	12419	0.5000	0.4322	
105 4-Chlorotoluene	91	9.492	9.492	0.000	49	8770	0.5000	0.3149	M
106 tert-Butylbenzene	134	9.790	9.796	-0.006	93	3208	0.5000	0.5237	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	94	14664	0.5000	0.4802	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.022	10.021	0.001	91	14113	0.5000	0.3886	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	88	7231	0.5000	0.4641	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	94	11016	0.5000	0.3389	
113 1,4-Dichlorobenzene	146	10.247	10.240	0.007	71	6671	0.5000	0.4159	
115 n-Butylbenzene	91	10.575	10.569	0.006	95	12793	0.5000	0.4582	
116 1,2-Dichlorobenzene	146	10.606	10.599	0.007	94	7917	0.5000	0.5015	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	1	1479	0.5000	0.6413	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	87	5050	0.5000	0.4451	
120 Hexachlorobutadiene	225	12.163	12.157	0.006	73	2021	0.5000	0.3570	
121 Naphthalene	128	12.248	12.248	0.000	96	18961	0.5000	0.5393	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	88	5868	0.5000	0.5317	
S 123 1,3-Dichloropropene, Total	1				0			0.9328	
S 124 1,2-Dichloroethene, Total	1				0			0.9396	
S 125 Total BTEX	1				0			2.26	
S 126 Xylenes, Total	1				0			0.8996	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

8260 CORP mix_00260	Amount Added:	0.50	Units: uL	
GAS CORP mix_00646	Amount Added:	0.50	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

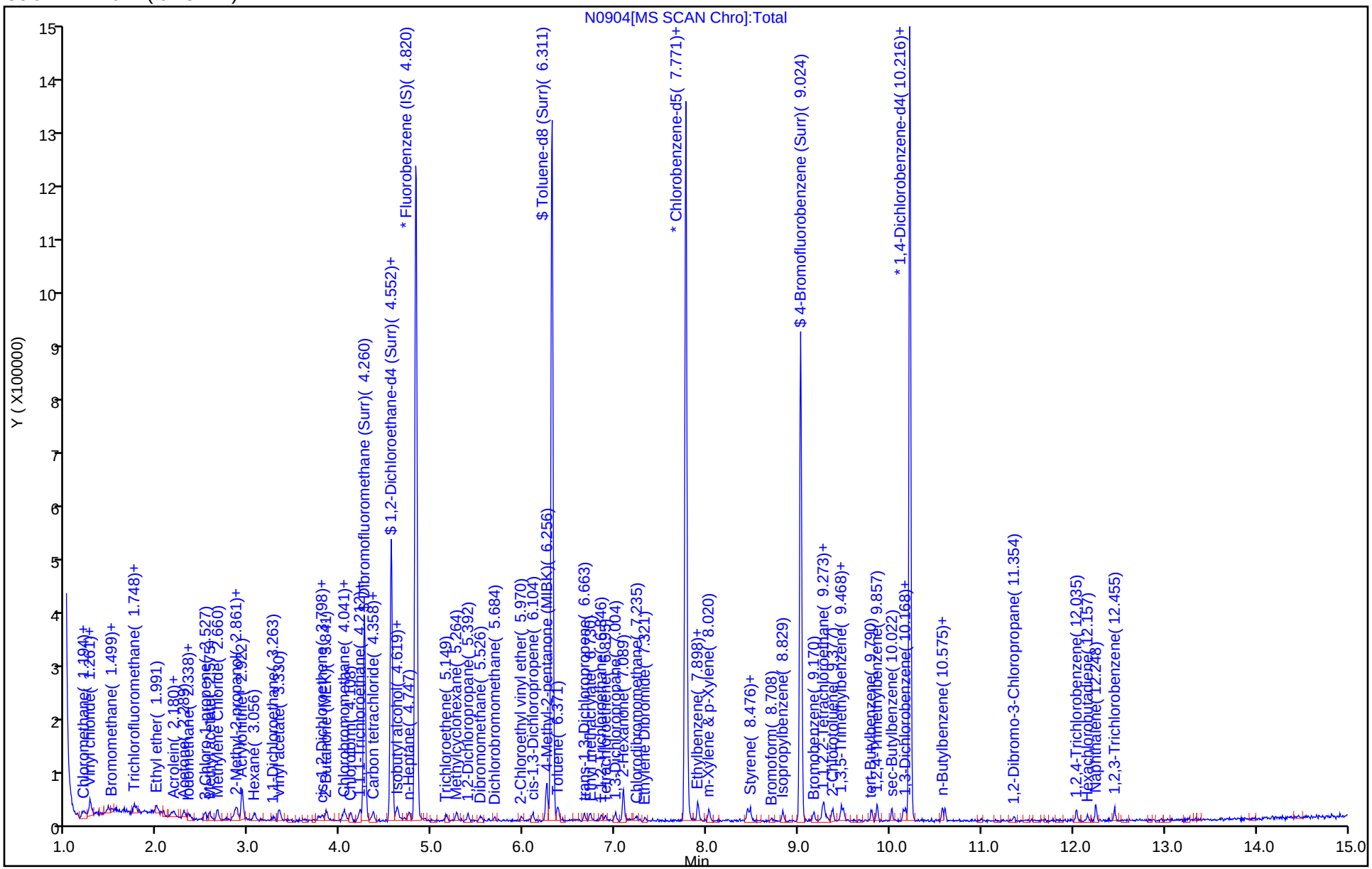
Report Date: 25-Oct-2024 11:16:11 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d

Injection Date:	24-Oct-2024 15:19:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC 0.5			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

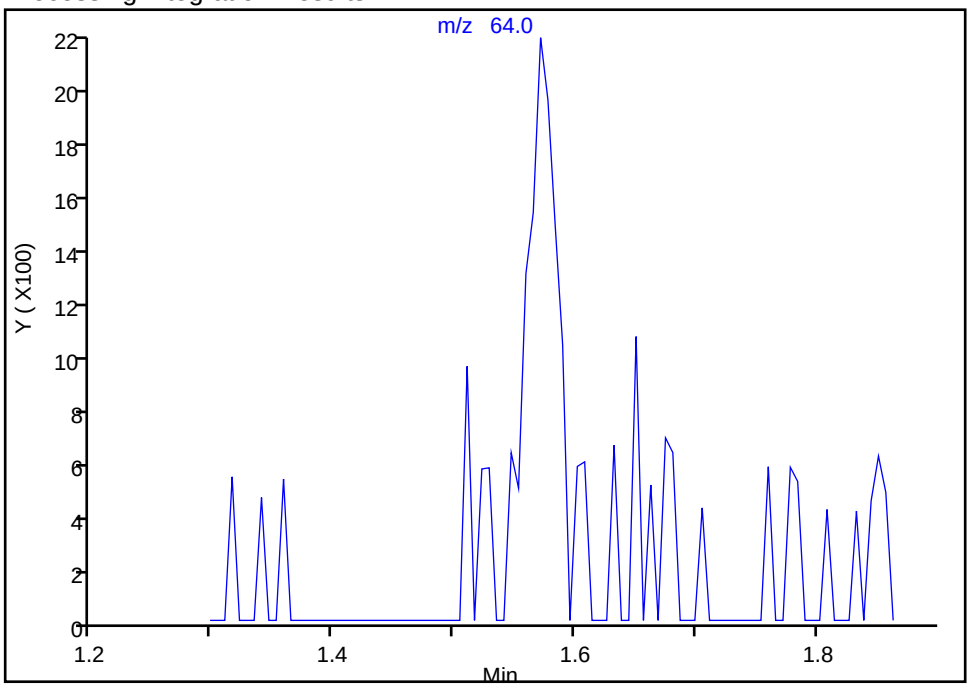
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

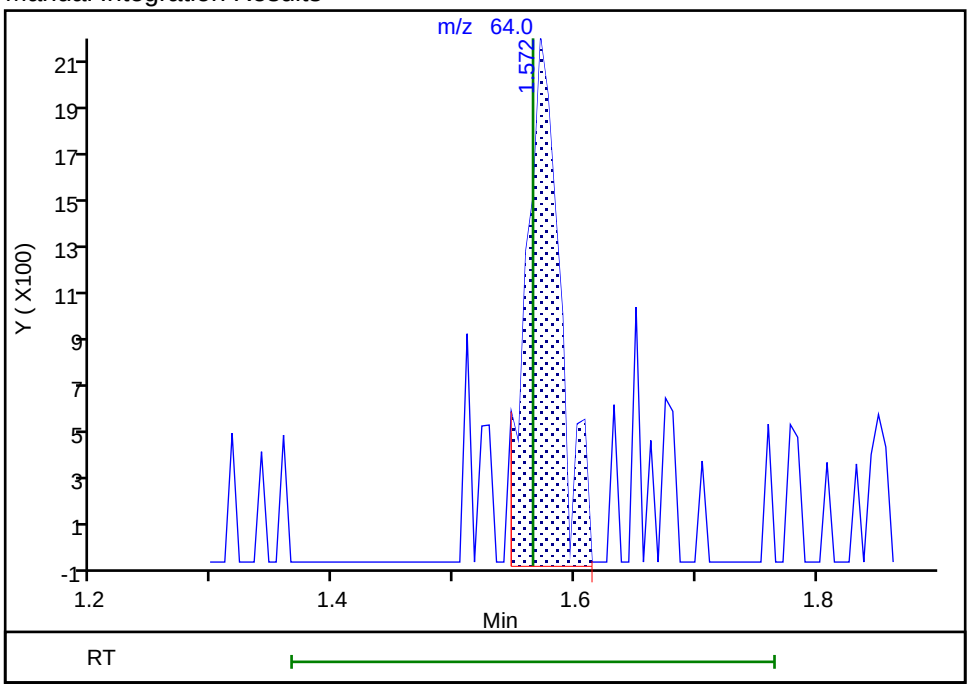
Not Detected
Expected RT: 1.57

Processing Integration Results



Manual Integration Results

RT: 1.57
Area: 4262
Amount: 0.619985
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:17:36 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

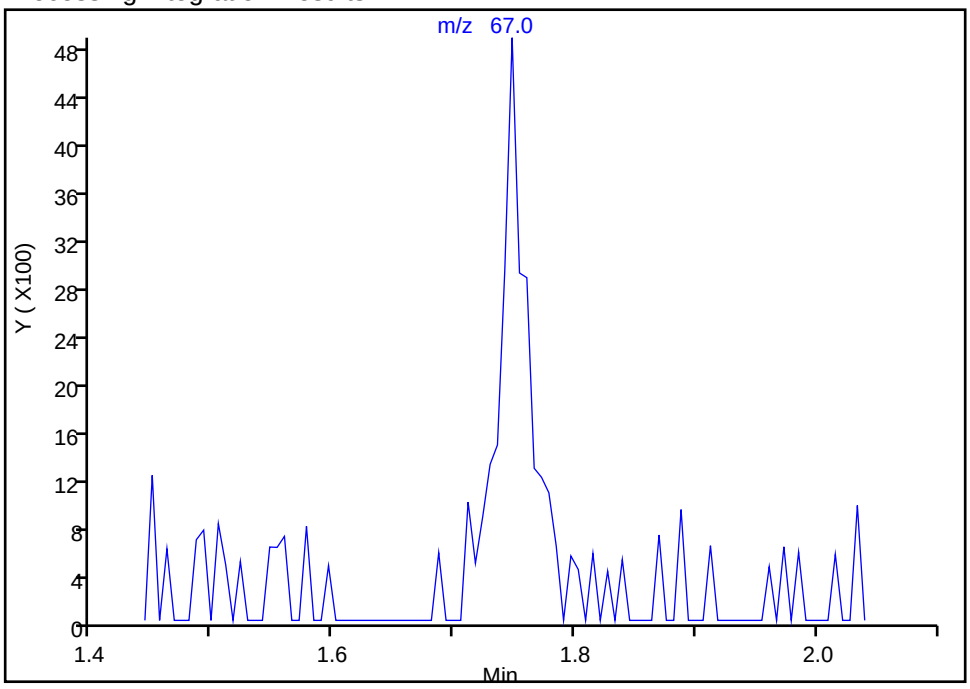
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

17 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

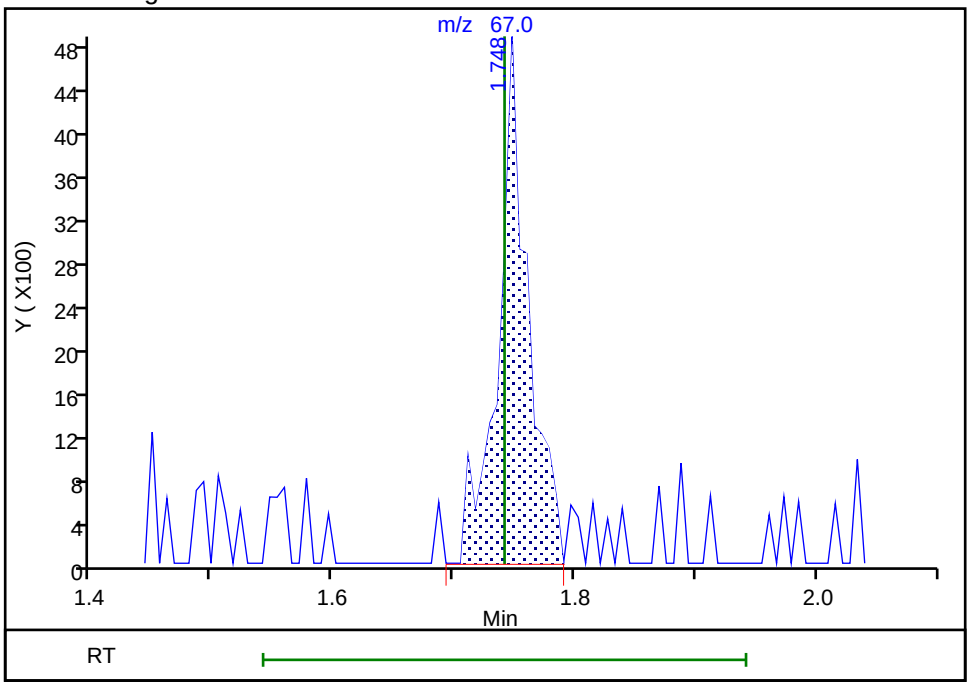
Not Detected
Expected RT: 1.74

Processing Integration Results



Manual Integration Results

RT: 1.75
Area: 8251
Amount: 0.525901
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:17:46 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

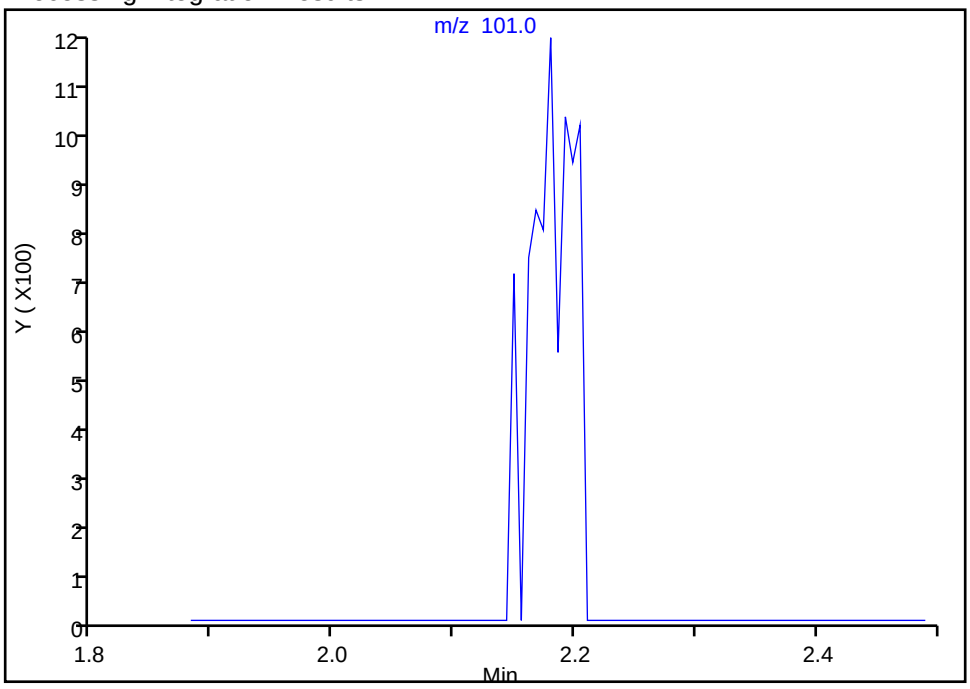
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroe, CAS: 76-13-1

Signal: 1

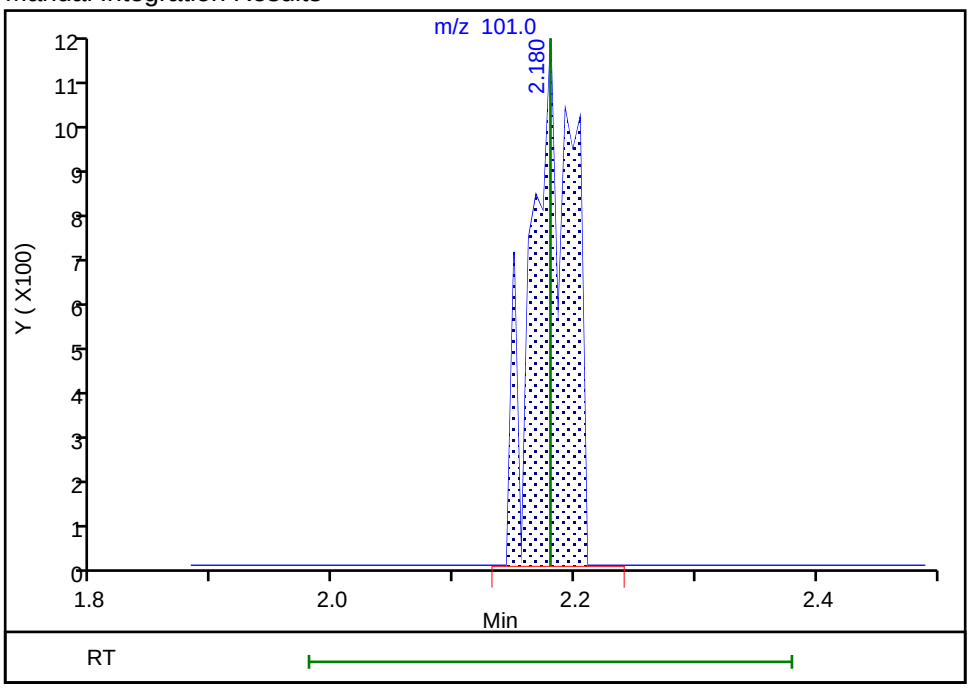
Not Detected
Expected RT: 2.18

Processing Integration Results



Manual Integration Results

RT: 2.18
Area: 2870
Amount: 0.446863
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:18:02 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

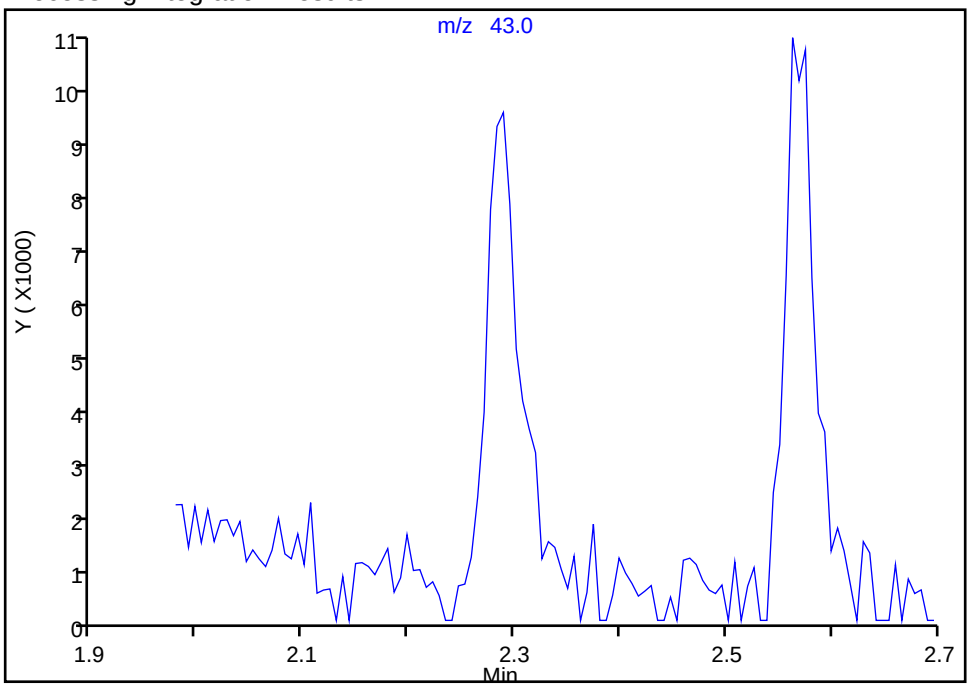
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

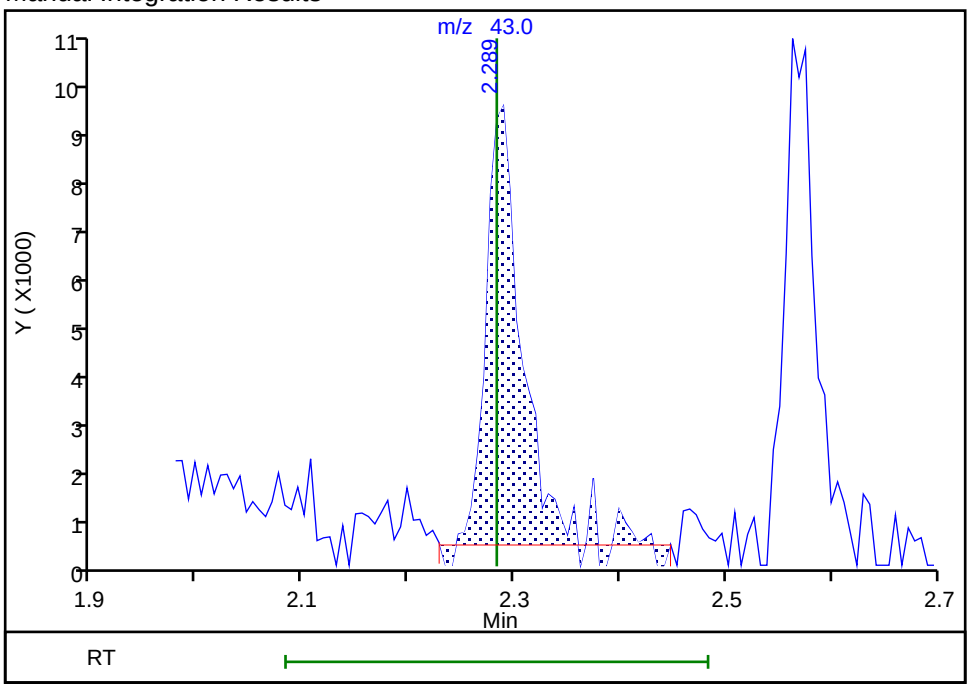
Not Detected
Expected RT: 2.28

Processing Integration Results



Manual Integration Results

RT: 2.29
Area: 20126
Amount: 3.023758
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:18:08 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

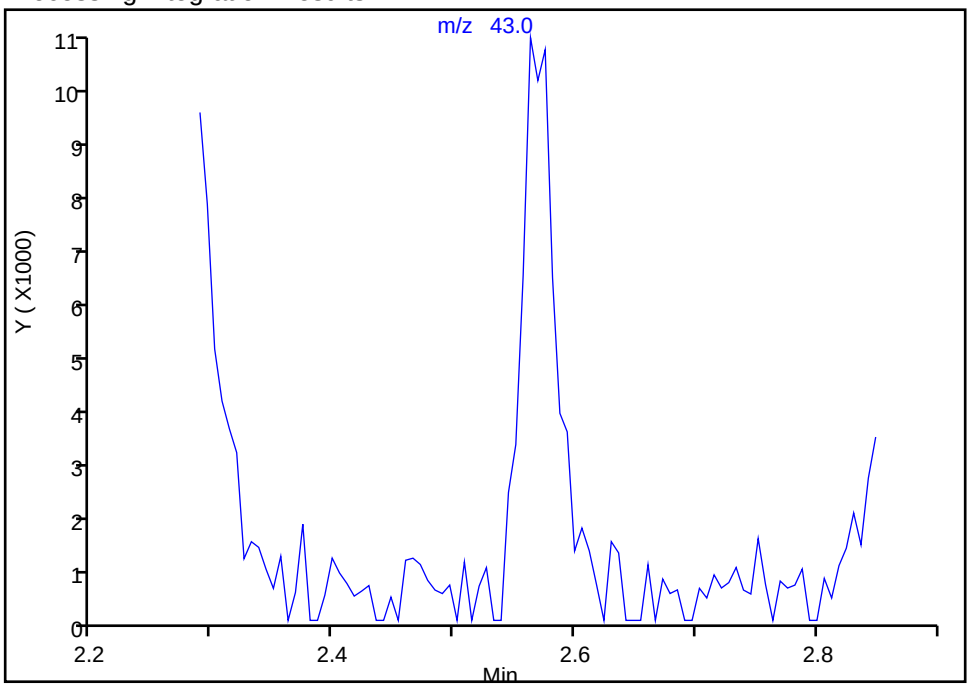
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

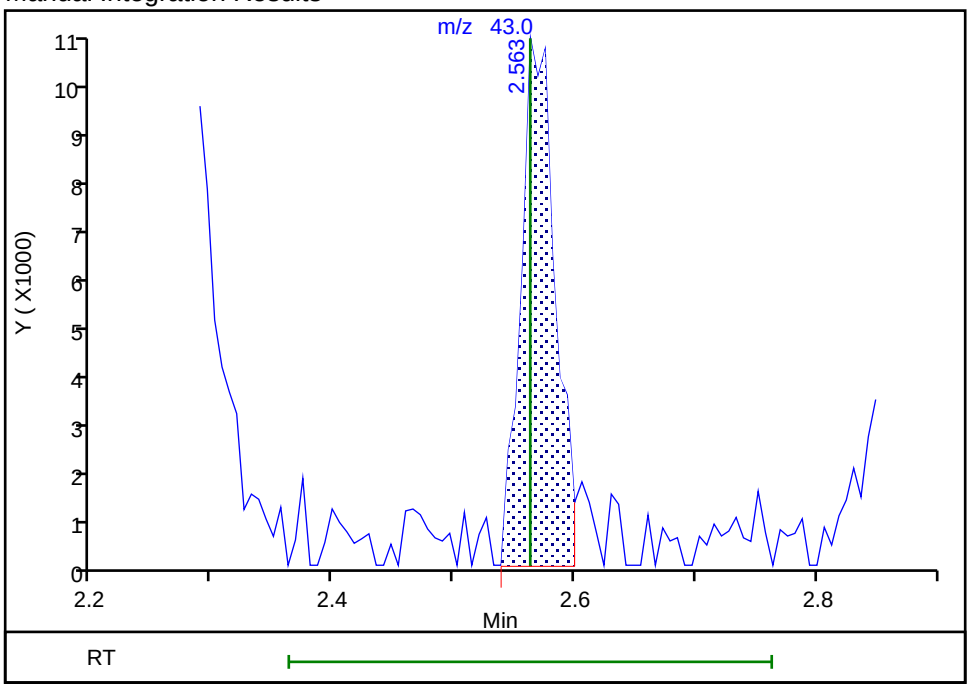
Not Detected
Expected RT: 2.56

Processing Integration Results



Manual Integration Results

RT: 2.56
Area: 20591
Amount: 1.155997
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:18:17 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

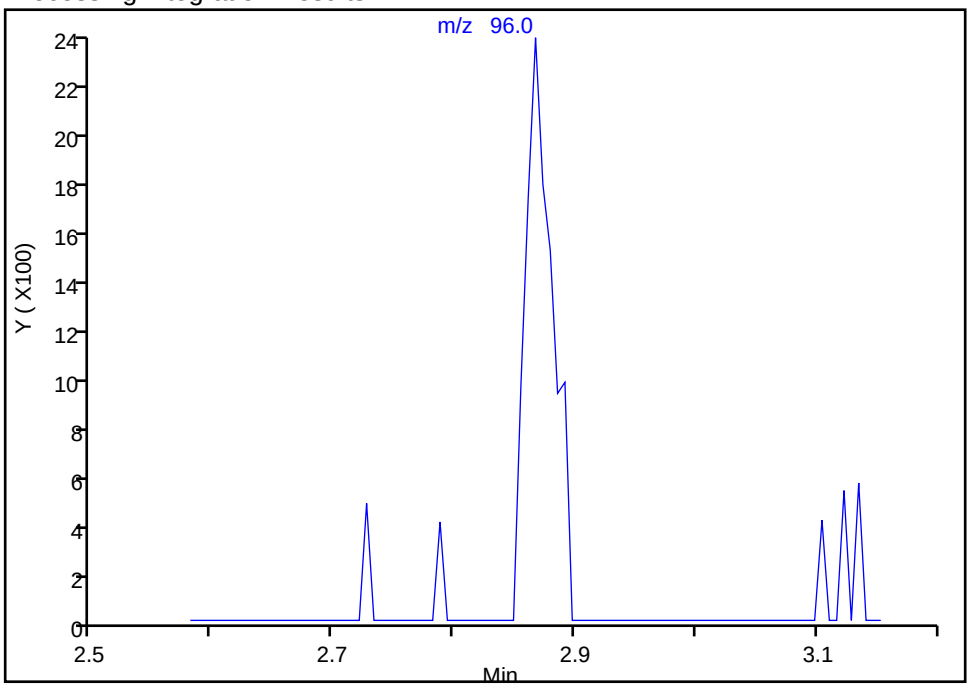
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

33 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

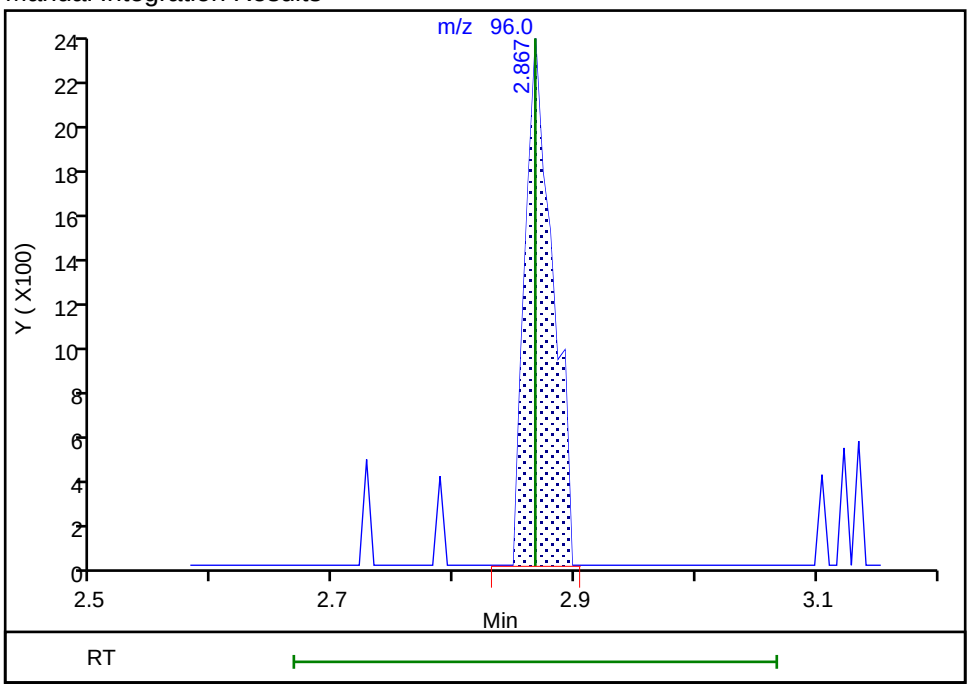
Not Detected
Expected RT: 2.87

Processing Integration Results



Manual Integration Results

RT: 2.87
Area: 3740
Amount: 0.494269
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:18:28 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

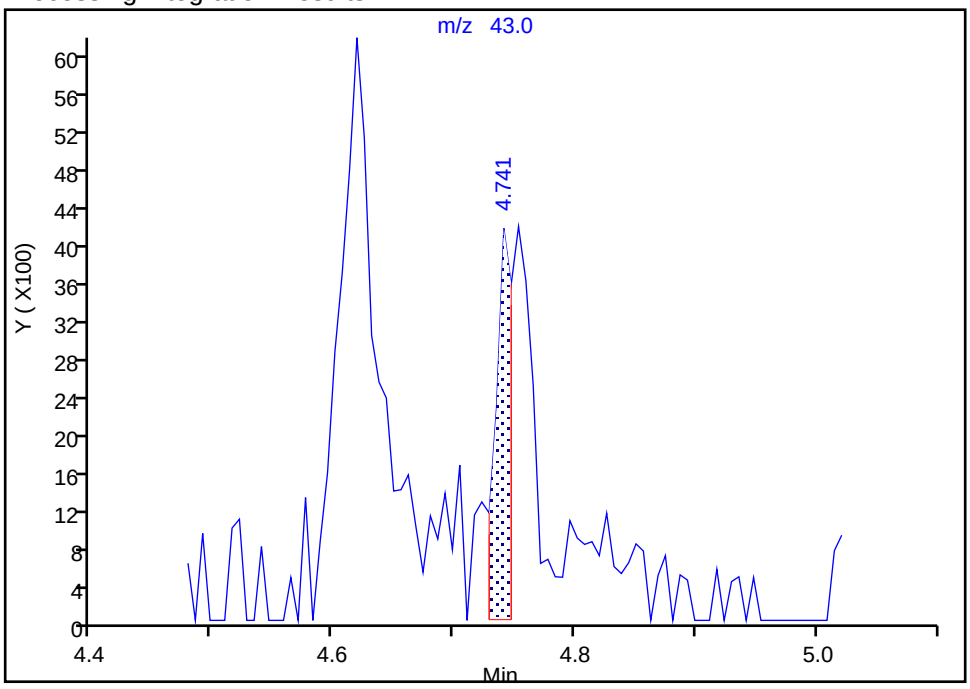
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

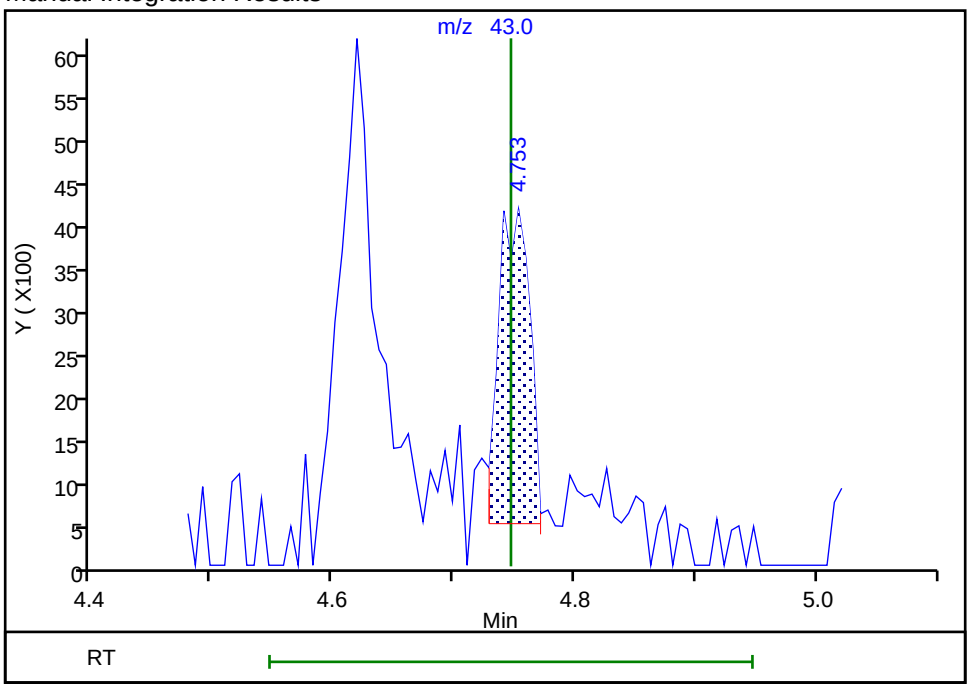
Processing Integration Results

RT: 4.74
Area: 4033
Amount: 0.368054
Amount Units: ug/L



Manual Integration Results

RT: 4.75
Area: 6588
Amount: 0.301862
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:19:07 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

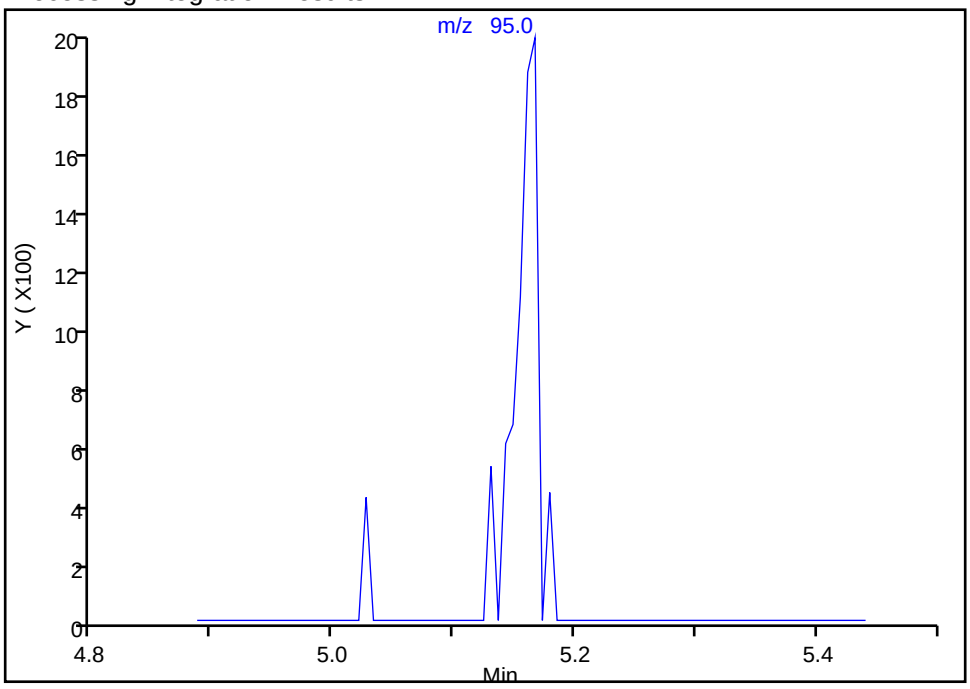
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

60 Trichloroethene, CAS: 79-01-6

Signal: 1

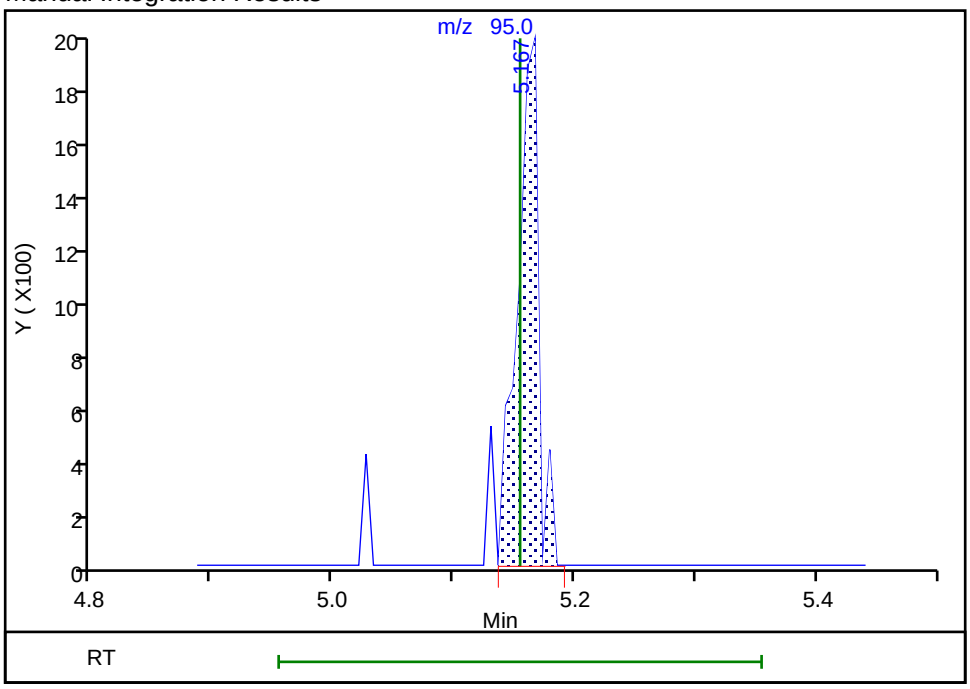
Not Detected
Expected RT: 5.15

Processing Integration Results



Manual Integration Results

RT: 5.17
Area: 2348
Amount: 0.307182
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:19:25 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

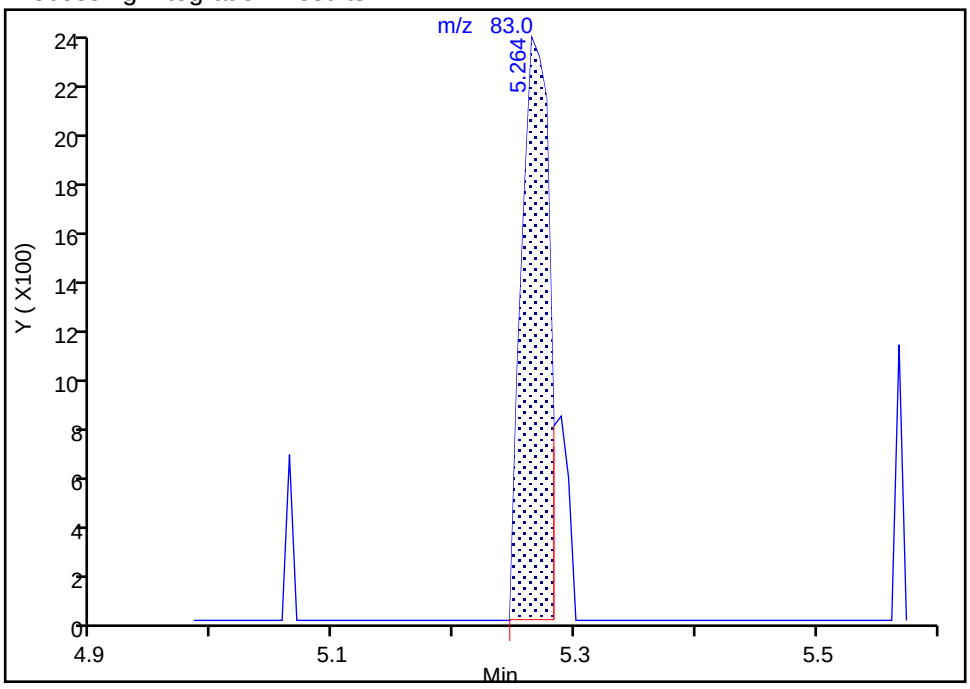
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

62 Methylcyclohexane, CAS: 108-87-2

Signal: 1

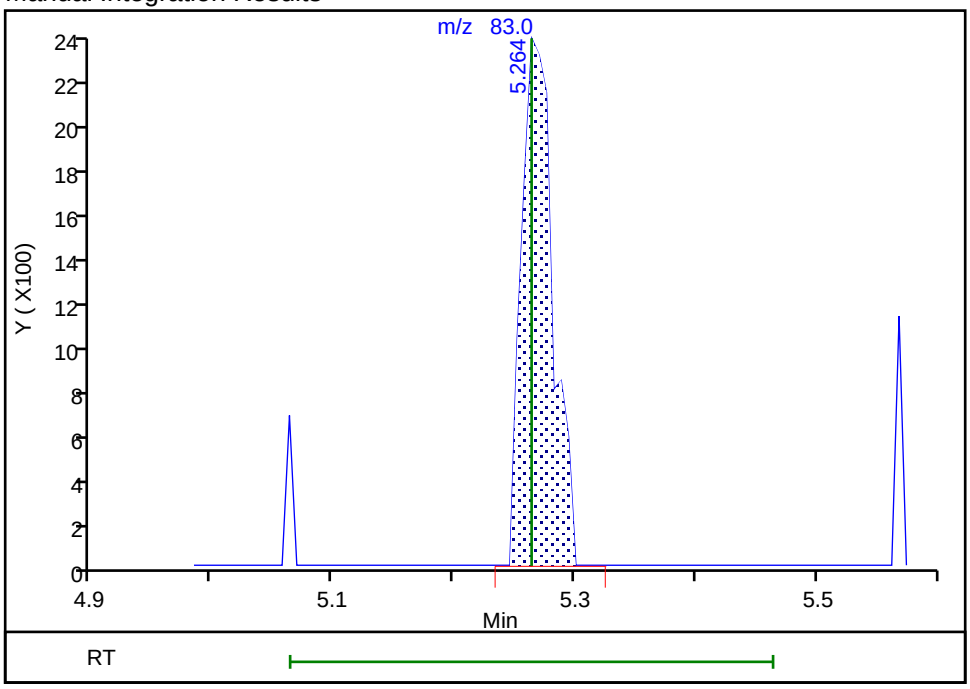
Processing Integration Results

RT: 5.26
Area: 3715
Amount: 0.510034
Amount Units: ug/L



Manual Integration Results

RT: 5.26
Area: 4223
Amount: 0.338862
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:19:36 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

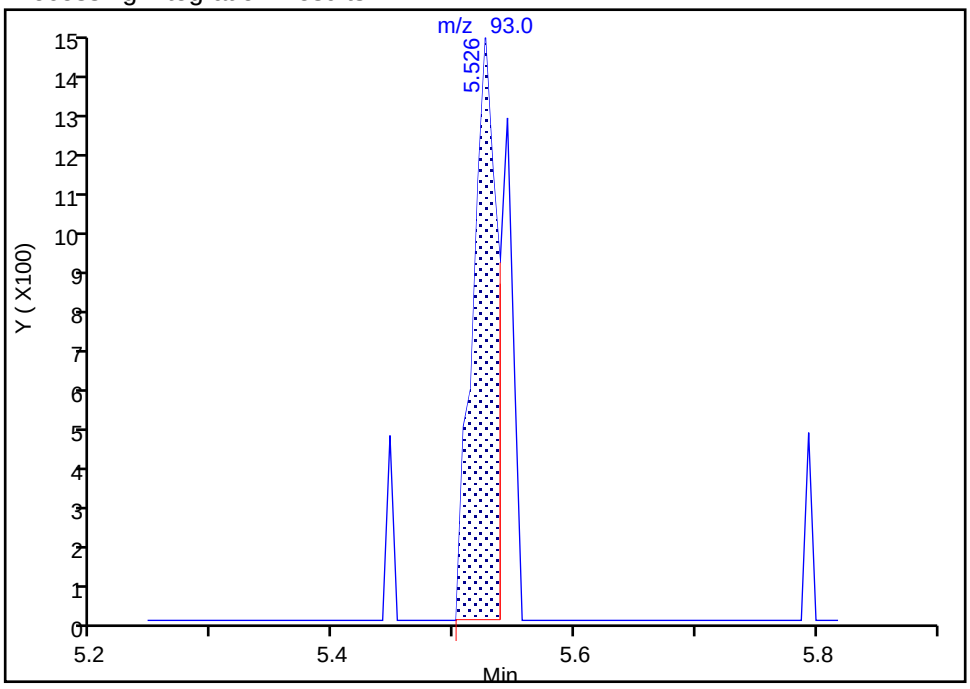
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

64 Dibromomethane, CAS: 74-95-3

Signal: 1

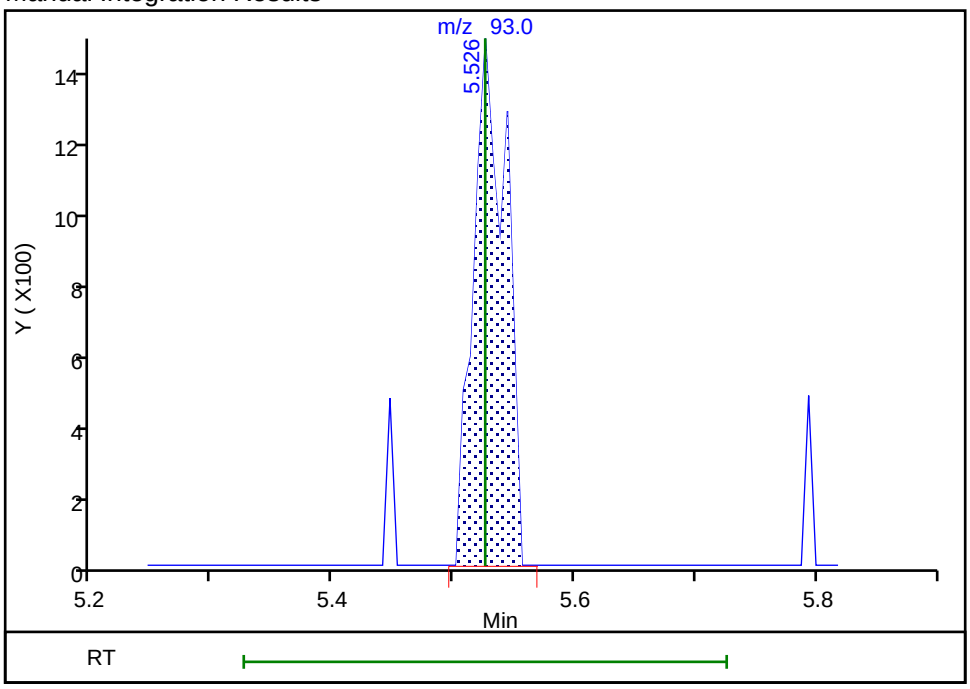
Processing Integration Results

RT: 5.53
Area: 1994
Amount: 0.309293
Amount Units: ug/L



Manual Integration Results

RT: 5.53
Area: 2647
Amount: 0.490649
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:19:45 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

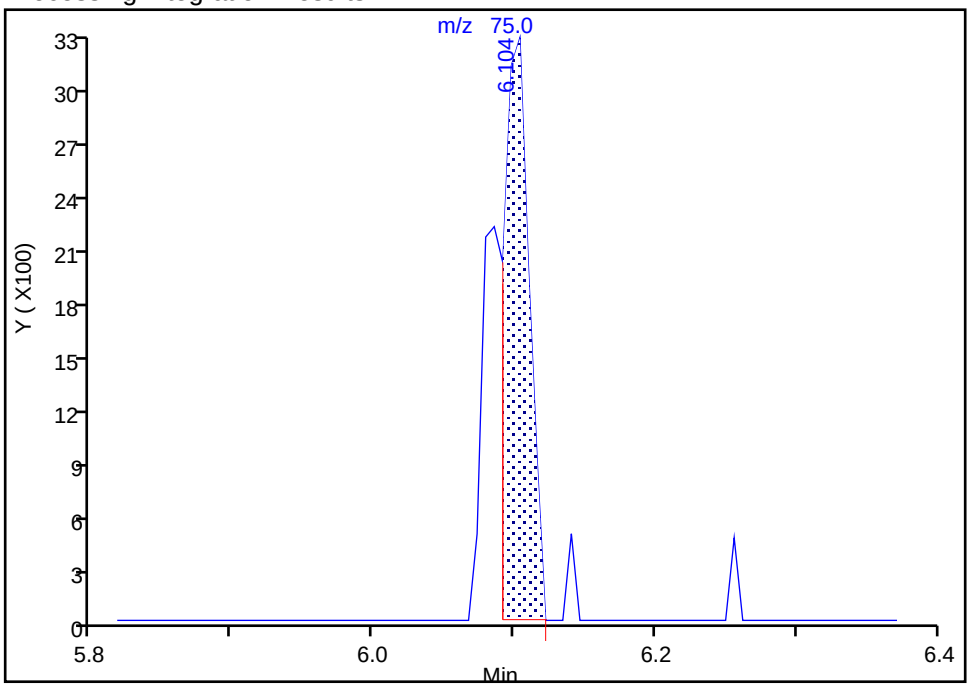
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

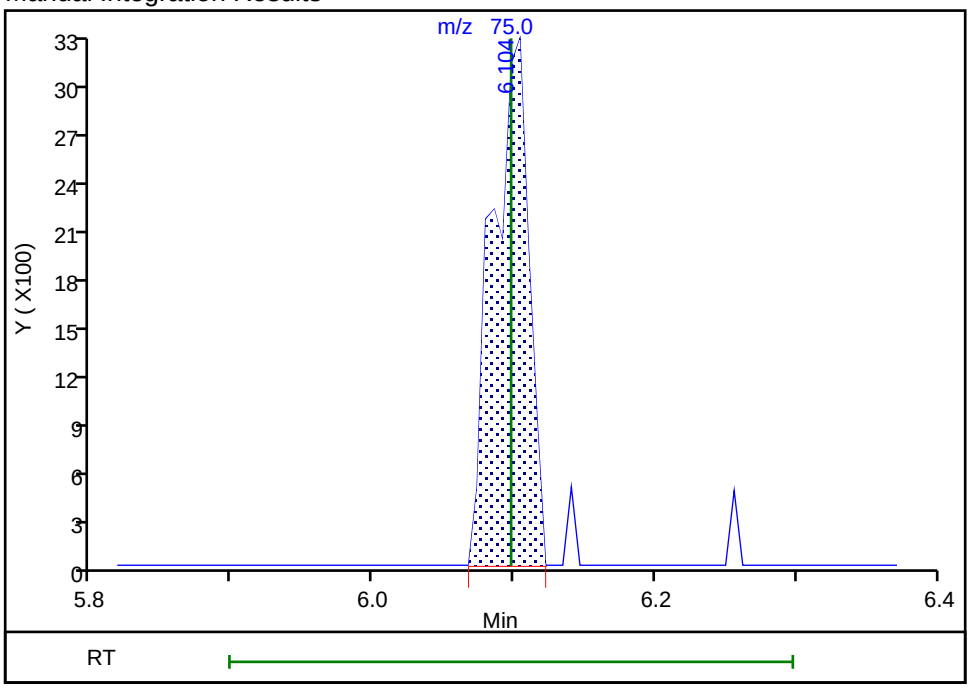
Processing Integration Results

RT: 6.10
Area: 4147
Amount: 0.356918
Amount Units: ug/L



Manual Integration Results

RT: 6.10
Area: 5931
Amount: 0.485968
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:20:05 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

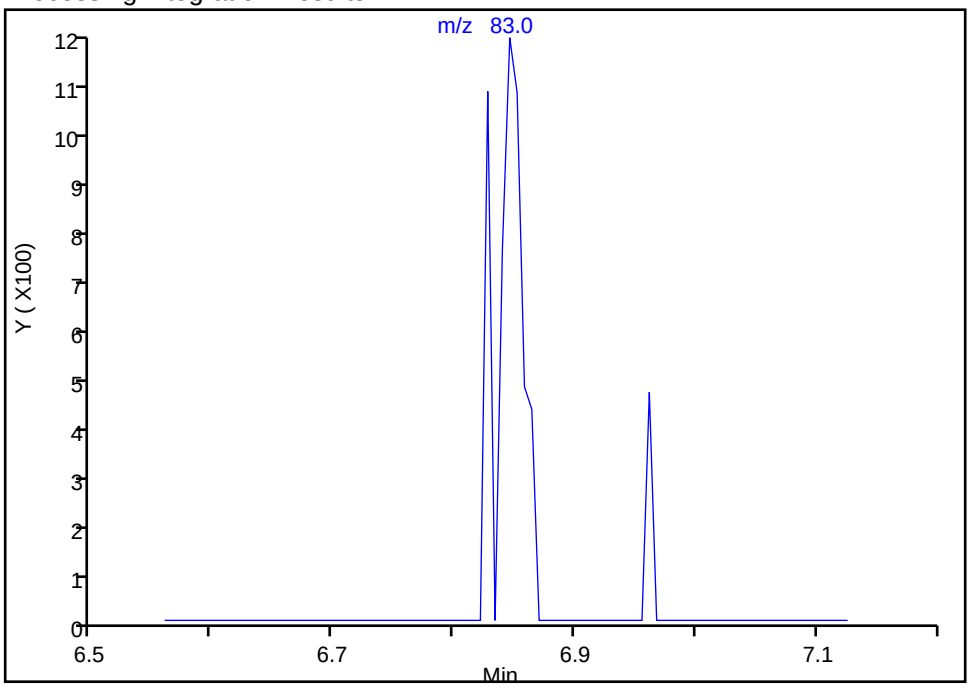
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

78 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

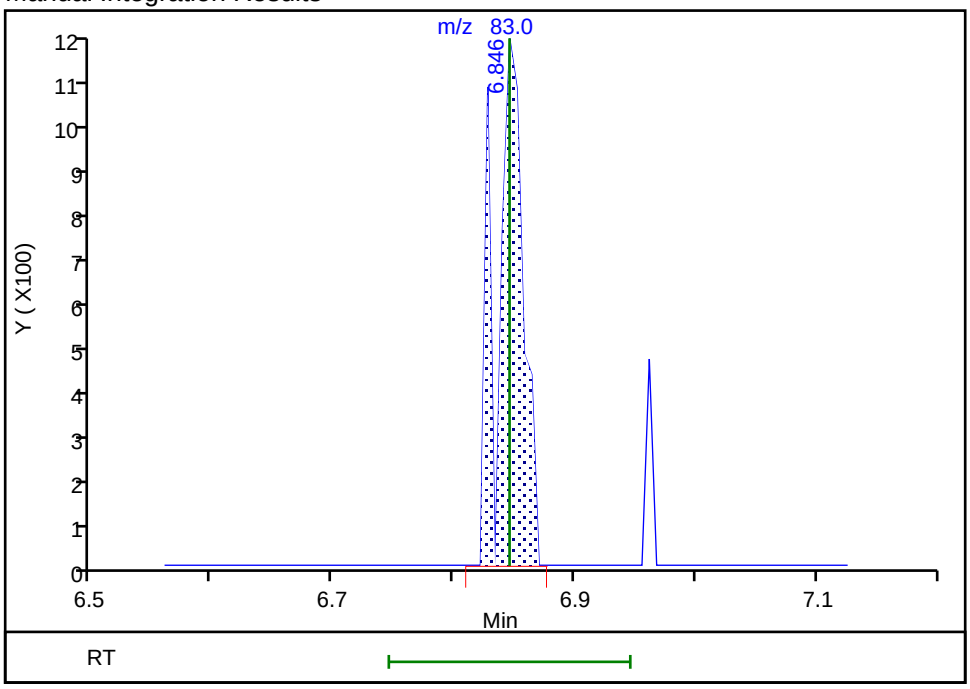
Not Detected
Expected RT: 6.85

Processing Integration Results



Manual Integration Results

RT: 6.85
Area: 1839
Amount: 0.337574
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:20:15 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

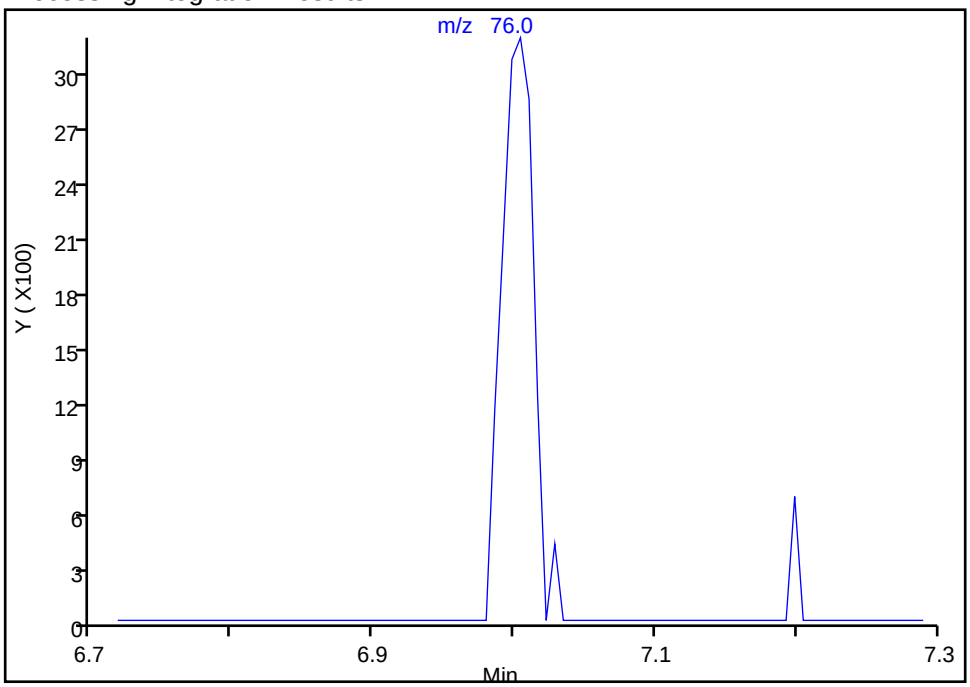
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

80 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

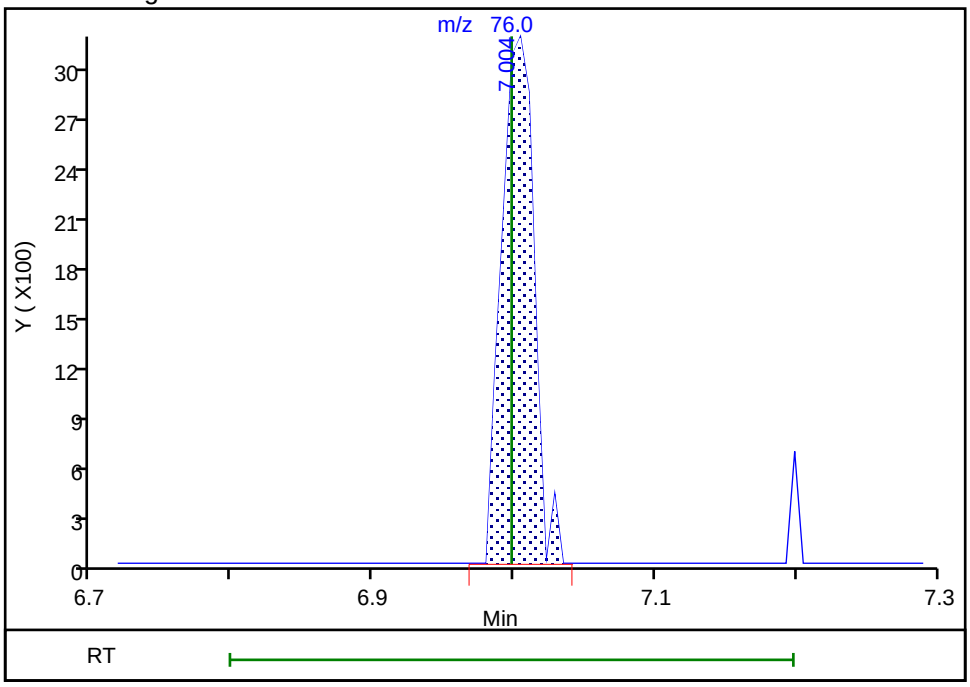
Not Detected
Expected RT: 7.00

Processing Integration Results



Manual Integration Results

RT: 7.00
Area: 5089
Amount: 0.453385
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:20:23 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

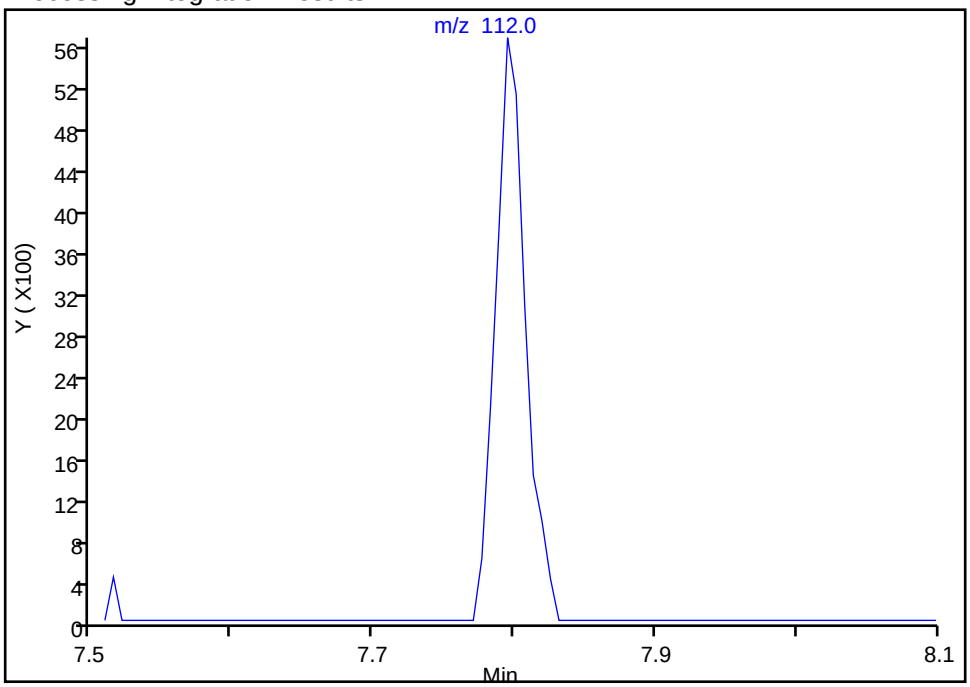
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

85 Chlorobenzene, CAS: 108-90-7

Signal: 1

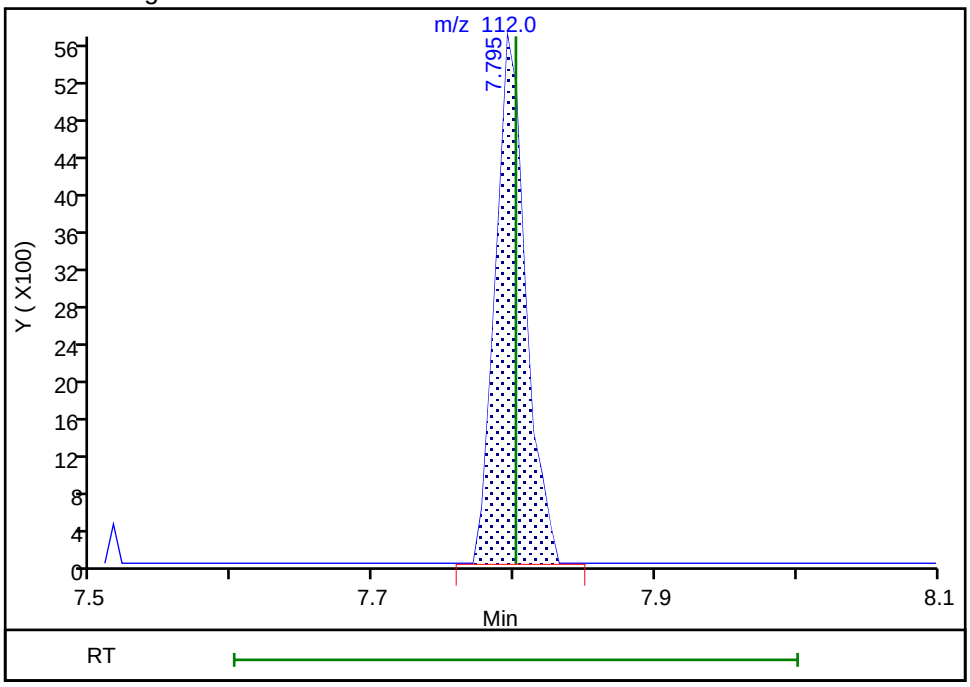
Not Detected
Expected RT: 7.80

Processing Integration Results



Manual Integration Results

RT: 7.80
Area: 8441
Amount: 0.441387
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:20:37 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

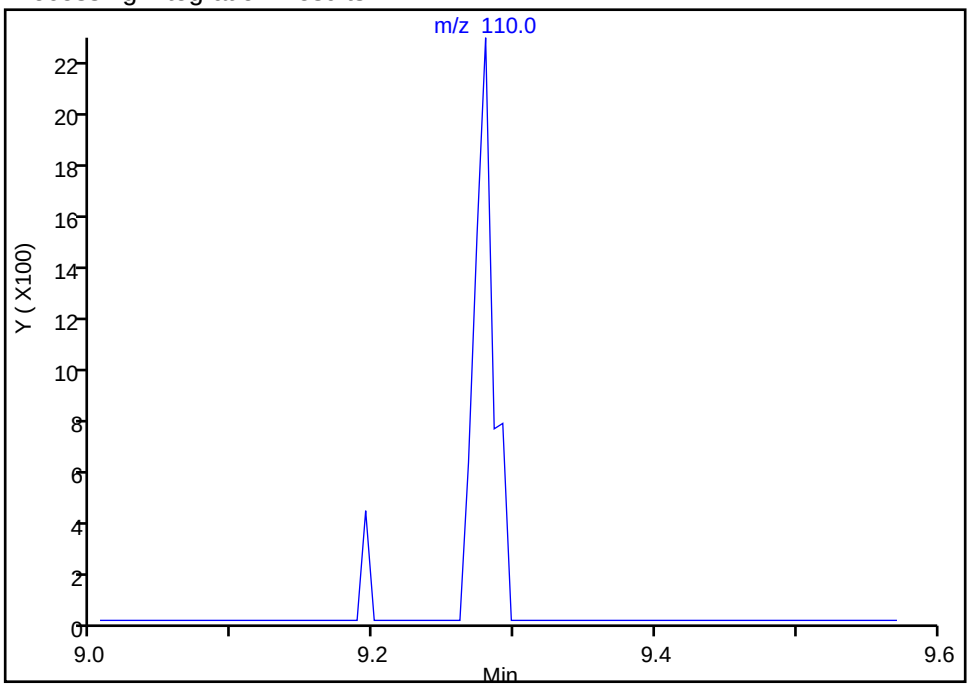
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

99 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

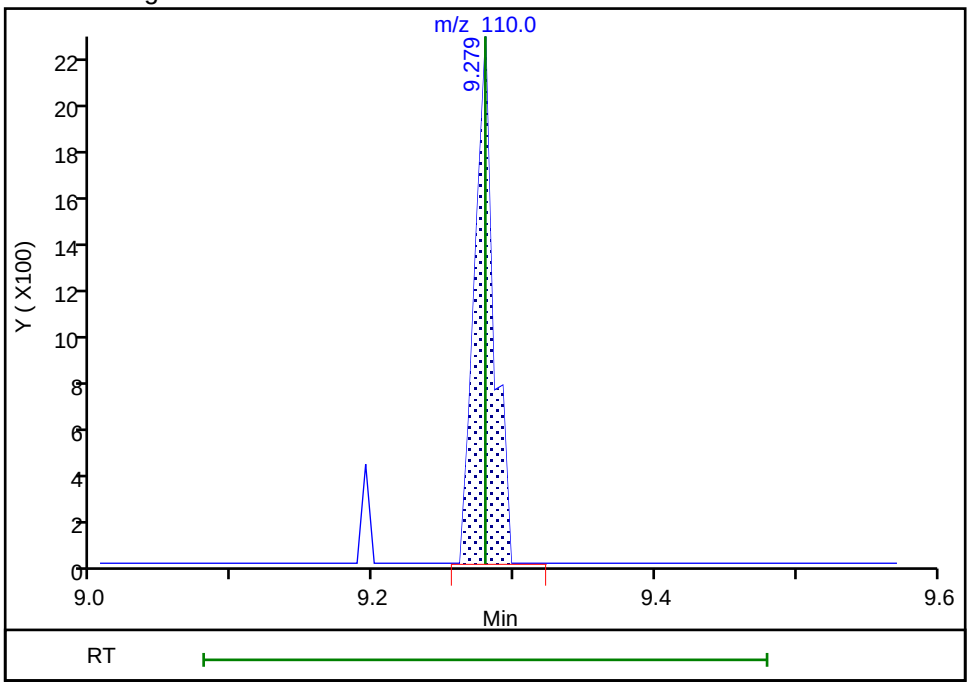
Not Detected
Expected RT: 9.28

Processing Integration Results



Manual Integration Results

RT: 9.28
Area: 2128
Amount: 0.601057
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:20:53 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

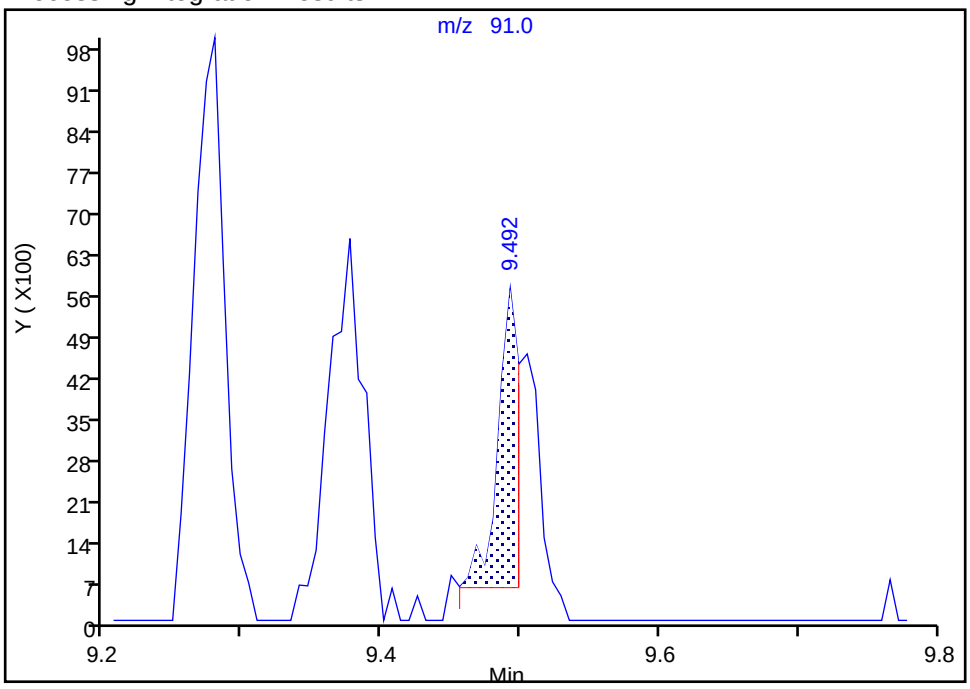
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

105 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

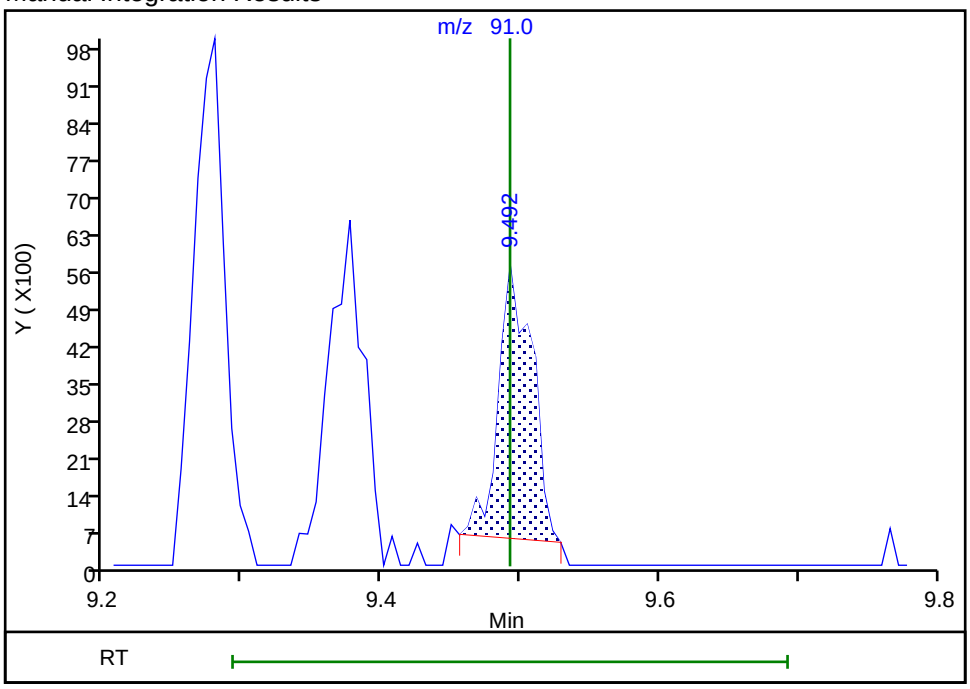
Processing Integration Results

RT: 9.49
Area: 5435
Amount: 0.401799
Amount Units: ug/L



Manual Integration Results

RT: 9.49
Area: 8770
Amount: 0.314917
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:21:07 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

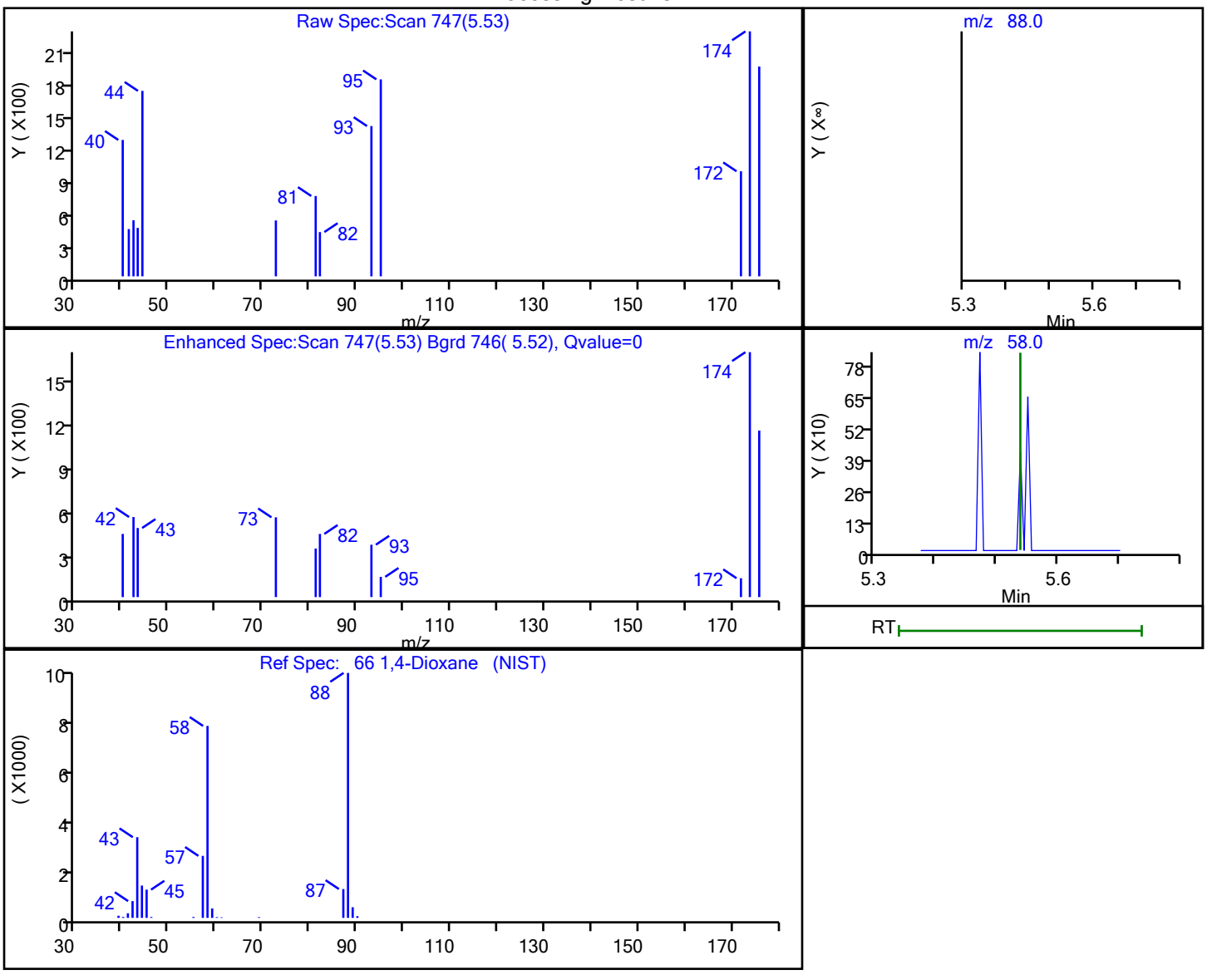
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
5.53	88.00	0	
5.54	58.00	0	

Reviewer: WLL8, 24-Oct-2024 18:19:54 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 24-Oct-2024 15:41:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0120783-014
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:18 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:26:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	190051	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.001	91	656244	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	338348	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	214078	25.0	24.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	95	313731	25.0	24.4	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	94	750165	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	87	236117	25.0	24.9	
11 Dichlorodifluoromethane	85	1.042	1.042	0.000	99	9727	1.00	1.04	
13 Chloromethane	50	1.176	1.182	-0.006	97	17807	1.00	0.9252	
14 Vinyl chloride	62	1.249	1.255	-0.006	55	10615	1.00	1.05	
144 Butadiene	54	1.267	1.267	0.000	95	16653	1.00	1.02	
15 Bromomethane	94	1.511	1.504	0.007	41	6010	1.00	1.04	
16 Chloroethane	64	1.559	1.565	-0.006	44	8060	1.00	1.13	
18 Trichlorofluoromethane	101	1.724	1.742	-0.018	69	13382	1.00	1.06	
17 Dichlorofluoromethane	67	1.736	1.742	-0.006	91	18007	1.00	1.11	
19 Ethyl ether	59	1.985	1.985	0.000	88	9854	1.00	0.9517	
20 Acrolein	56	2.137	2.143	-0.006	59	8978	5.00	5.66	M
22 1,1-Dichloroethene	96	2.174	2.174	0.000	91	6415	1.00	0.99	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	59	6437	1.00	0.9676	
23 Acetone	43	2.283	2.283	0.000	99	36293	5.00	5.26	
24 Iodomethane	142	2.314	2.314	0.000	99	11245	1.00	0.9175	
25 Carbon disulfide	76	2.350	2.350	0.000	99	24964	1.00	1.06	
27 3-Chloro-1-propene	41	2.521	2.514	0.007	87	24969	1.00	0.9140	
28 Methyl acetate	43	2.569	2.563	0.006	99	41106	2.00	2.23	a
30 Methylene Chloride	84	2.648	2.654	-0.006	84	8389	1.00	0.9190	
31 2-Methyl-2-propanol	59	2.837	2.825	0.012	90	18104	10.0	10.2	M
32 Methyl tert-butyl ether	73	2.849	2.855	-0.006	83	26334	1.00	0.9358	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	88	7199	1.00	0.9185	
34 Acrylonitrile	53	2.922	2.922	0.000	97	89895	10.0	10.6	
35 Hexane	57	3.056	3.056	0.000	89	15134	1.00	0.8638	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.269	3.263	0.006	95	17605	1.00	0.9688	
39 Vinyl acetate	43	3.324	3.323	0.001	96	69525	2.00	1.94	
42 2,2-Dichloropropane	77	3.768	3.761	0.007	81	9616	1.00	0.8815	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	82	8977	1.00	1.04	
44 2-Butanone (MEK)	43	3.841	3.834	0.007	95	52345	5.00	4.65	
47 Chlorobromomethane	128	4.029	4.029	0.000	85	3599	1.00	0.8455	
49 Tetrahydrofuran	42	4.041	4.041	0.000	89	20025	2.00	2.43	
50 Chloroform	83	4.108	4.108	0.000	95	17081	1.00	1.16	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	86	12001	1.00	0.99	
52 Cyclohexane	56	4.206	4.212	-0.006	92	20288	1.00	0.9028	
53 Carbon tetrachloride	117	4.333	4.339	-0.006	93	9328	1.00	0.8267	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	75	9513	1.00	0.9272	
55 Benzene	78	4.552	4.552	0.000	42	31866	1.00	1.04	
56 Isobutyl alcohol	43	4.607	4.607	0.000	92	25043	25.0	25.0	
57 1,2-Dichloroethane	62	4.625	4.619	0.006	92	14996	1.00	0.9496	
59 n-Heptane	43	4.747	4.747	0.000	89	23636	1.00	1.05	
60 Trichloroethene	95	5.161	5.155	0.006	91	8112	1.00	1.02	
62 Methylcyclohexane	83	5.270	5.264	0.006	90	11367	1.00	0.8805	
63 1,2-Dichloropropane	63	5.386	5.392	-0.006	83	9179	1.00	0.9425	
64 Dibromomethane	93	5.532	5.526	0.006	91	6820	1.00	1.22	
66 1,4-Dioxane	88	5.550	5.538	0.012	27	1306	20.0	17.3	M
67 Dichlorobromomethane	83	5.678	5.684	-0.006	89	8801	1.00	0.9228	
69 2-Chloroethyl vinyl ether	63	5.982	5.970	0.012	76	5731	1.00	0.8460	
71 cis-1,3-Dichloropropene	75	6.092	6.098	-0.006	79	10880	1.00	0.8606	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	96	36258	5.00	5.02	
73 Toluene	92	6.371	6.371	0.000	94	15649	1.00	0.8736	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	89	9921	1.00	0.8890	
77 Ethyl methacrylate	69	6.724	6.724	0.000	86	11490	1.00	1.03	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	0	4764	1.00	0.8541	M
79 Tetrachloroethene	166	6.895	6.894	0.001	89	7299	1.00	0.9725	
80 1,3-Dichloropropane	76	7.004	6.998	0.006	92	12549	1.00	1.09	
82 2-Hexanone	43	7.083	7.083	0.000	97	85337	5.00	5.28	
83 Chlorodibromomethane	129	7.235	7.229	0.006	89	6758	1.00	0.9196	
84 Ethylene Dibromide	107	7.321	7.320	0.000	93	7693	1.00	1.05	
85 Chlorobenzene	112	7.801	7.801	0.000	90	18862	1.00	0.9633	
88 Ethylbenzene	91	7.898	7.898	0.000	97	32278	1.00	0.9456	
89 1,1,1,2-Tetrachloroethane	131	7.905	7.904	0.001	46	6193	1.00	0.8250	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	92	11413	1.00	0.8483	
91 o-Xylene	106	8.440	8.440	0.000	95	12517	1.00	0.9302	
92 Styrene	104	8.476	8.476	0.000	90	20133	1.00	0.9188	
93 Bromoform	173	8.708	8.707	0.001	90	4092	1.00	0.8526	
95 Isopropylbenzene	105	8.829	8.829	0.000	95	31887	1.00	0.9513	
97 Bromobenzene	156	9.170	9.170	0.000	87	8677	1.00	1.00	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	48	10324	1.00	0.9609	
100 N-Propylbenzene	91	9.273	9.273	0.000	98	38545	1.00	0.9678	
99 1,2,3-Trichloropropane	110	9.292	9.279	0.013	56	3536	1.00	0.9735	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	40	4911	1.00	0.8537	M
102 2-Chlorotoluene	126	9.371	9.377	-0.006	93	8021	1.00	0.9626	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	94	24582	1.00	0.8339	
105 4-Chlorotoluene	91	9.498	9.492	0.006	96	26215	1.00	0.9176	
106 tert-Butylbenzene	134	9.803	9.796	0.007	94	4532	1.00	0.7211	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	97	31354	1.00	1.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.016	10.021	-0.005	95	33408	1.00	0.8965	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	91	13850	1.00	0.8665	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	98	28879	1.00	0.8660	
113 1,4-Dichlorobenzene	146	10.241	10.240	0.001	86	16413	1.00	1.00	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	26396	1.00	0.9215	
116 1,2-Dichlorobenzene	146	10.606	10.599	0.007	93	15182	1.00	0.9374	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	80	2081	1.00	0.8795	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	86	10302	1.00	0.8851	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	88	5083	1.00	0.8753	
121 Naphthalene	128	12.242	12.248	-0.006	97	33386	1.00	0.9256	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	89	10543	1.00	0.9312	
S 123 1,3-Dichloropropene, Total	1				0			1.75	
S 124 1,2-Dichloroethene, Total	1				0			1.96	
S 125 Total BTEX	1				0			4.64	
S 126 Xylenes, Total	1				0			1.78	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00260	Amount Added:	1.00	Units: uL	
GAS CORP mix_00646	Amount Added:	1.00	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

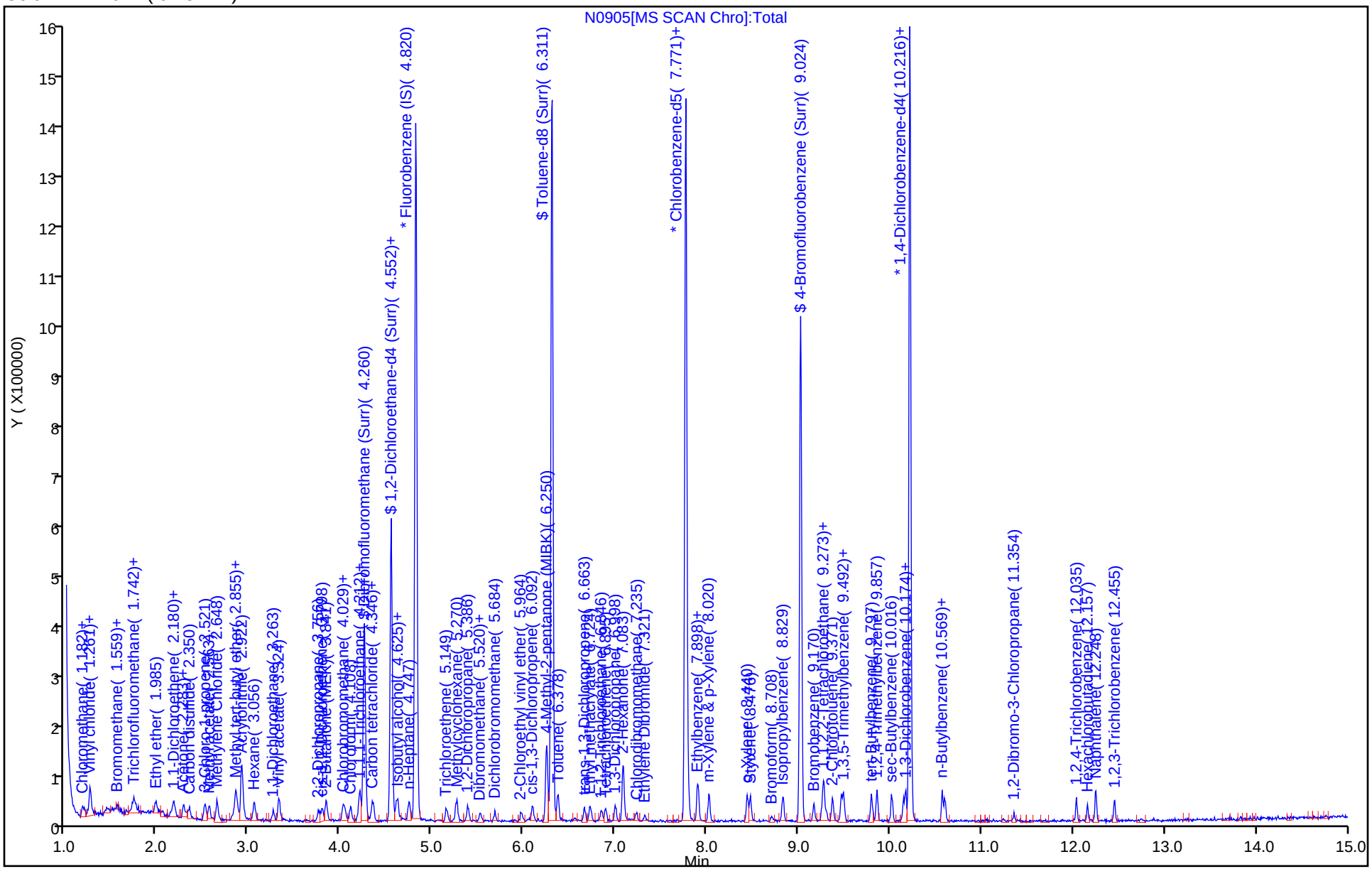
Report Date: 25-Oct-2024 11:16:19 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d

Injection Date:	24-Oct-2024 15:41:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

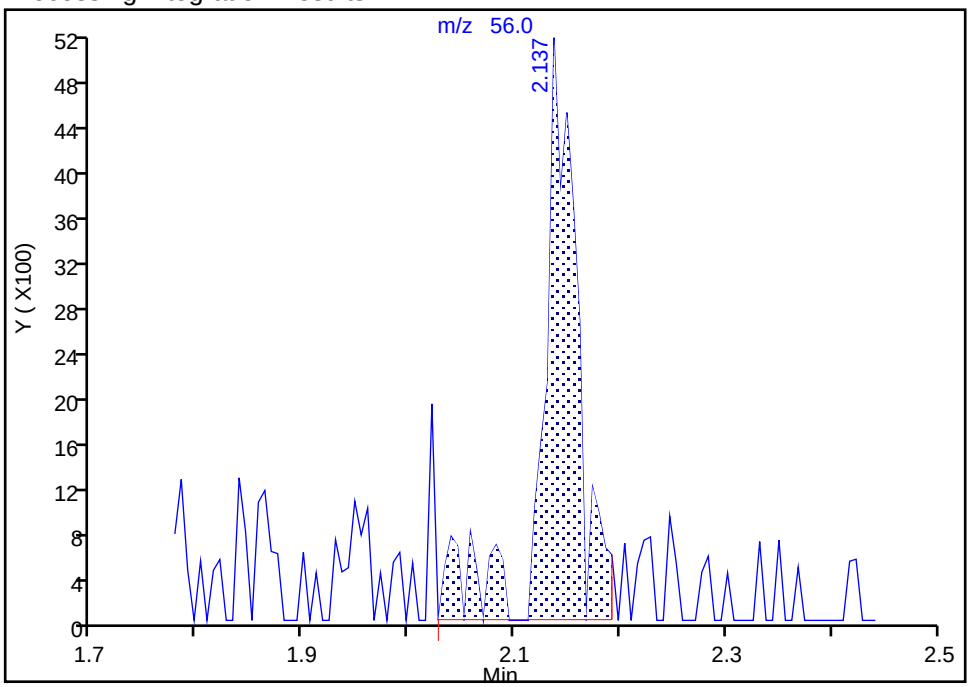
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Injection Date: 24-Oct-2024 15:41:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH/AD ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

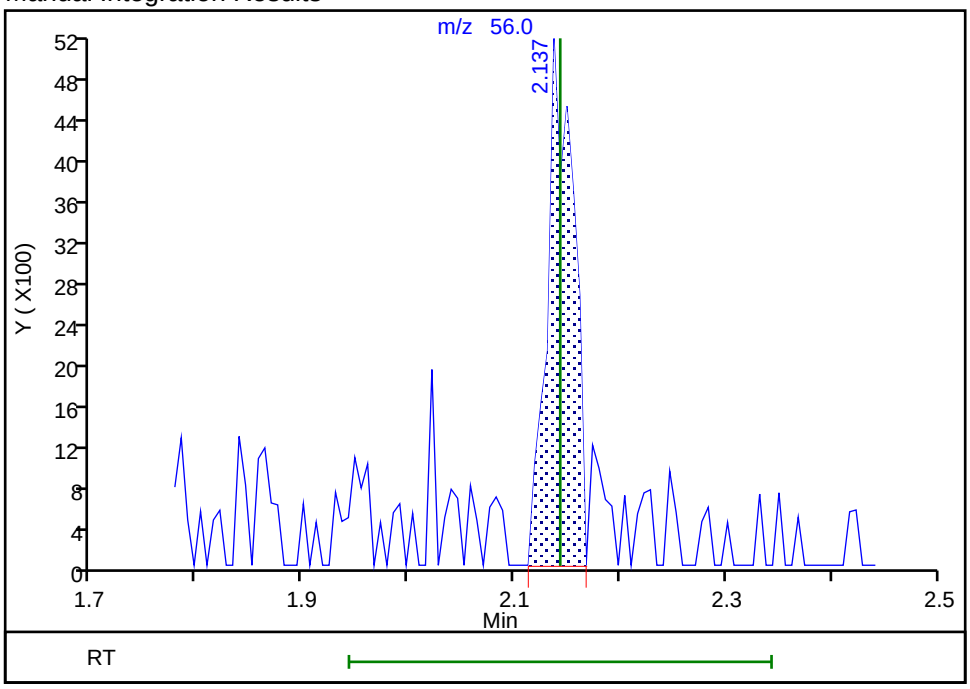
Processing Integration Results

RT: 2.14
Area: 11996
Amount: 12.562299
Amount Units: ug/L



Manual Integration Results

RT: 2.14
Area: 8978
Amount: 5.657733
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:34:20 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

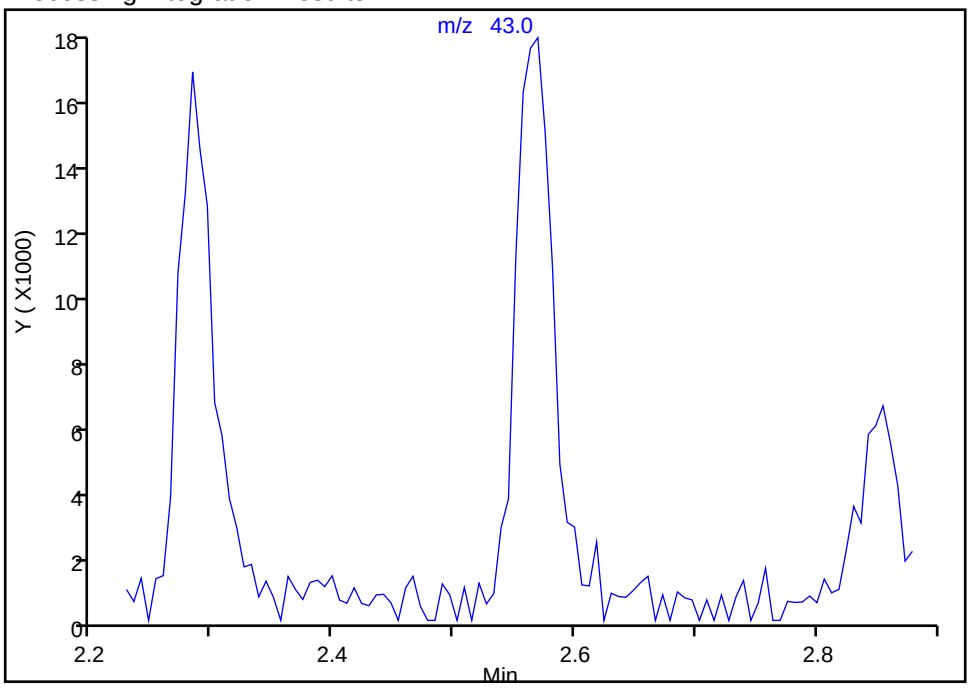
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Injection Date: 24-Oct-2024 15:41:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH/AD ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

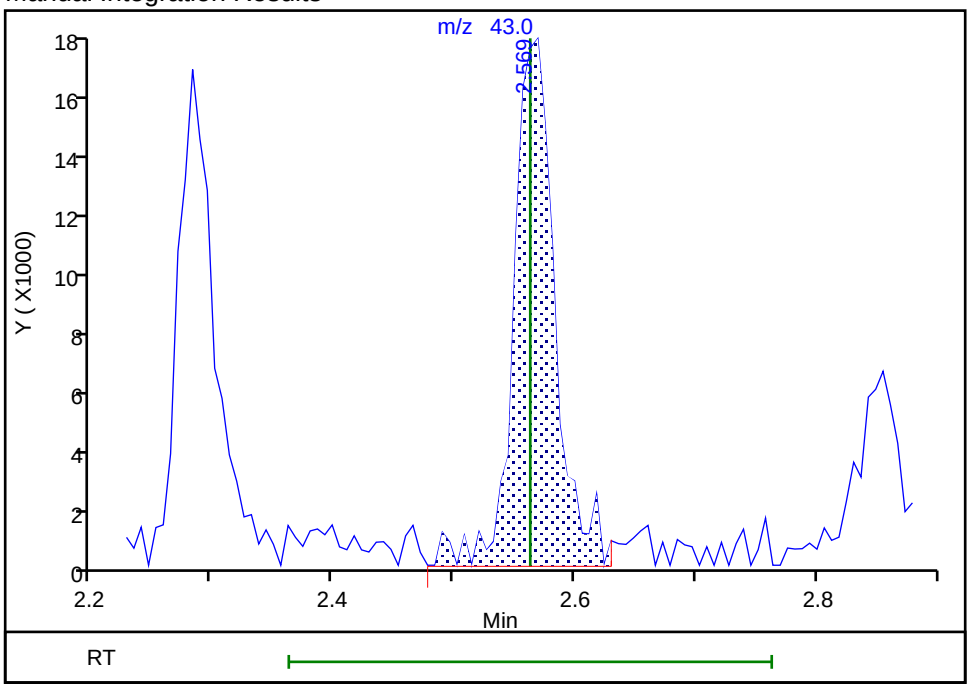
Not Detected
Expected RT: 2.56

Processing Integration Results



Manual Integration Results

RT: 2.57
Area: 41106
Amount: 2.227852
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:22:23 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Buffalo

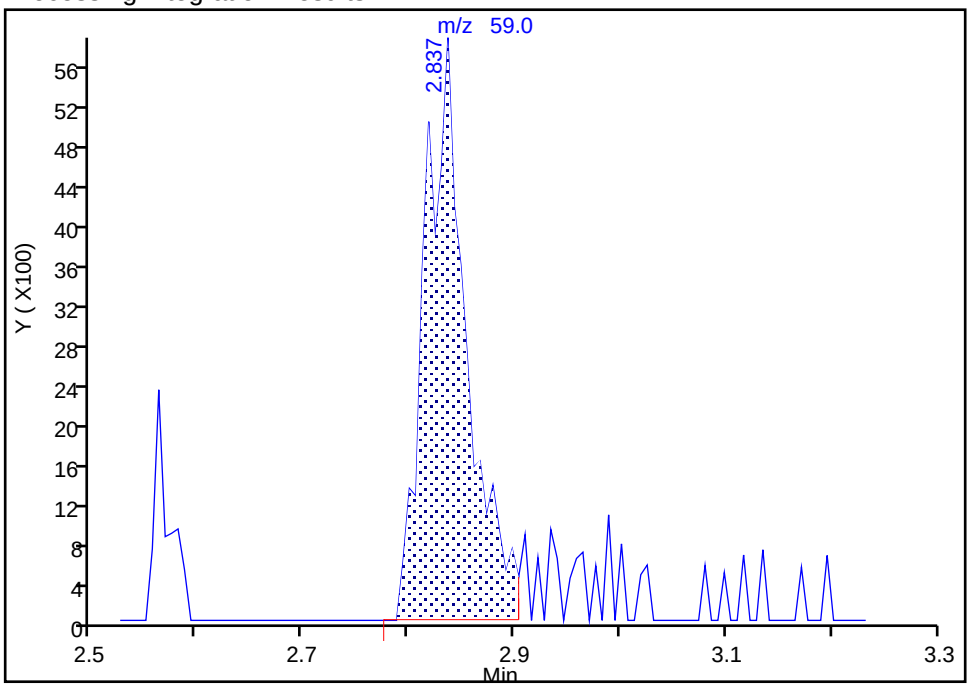
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Injection Date: 24-Oct-2024 15:41:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH/AD ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

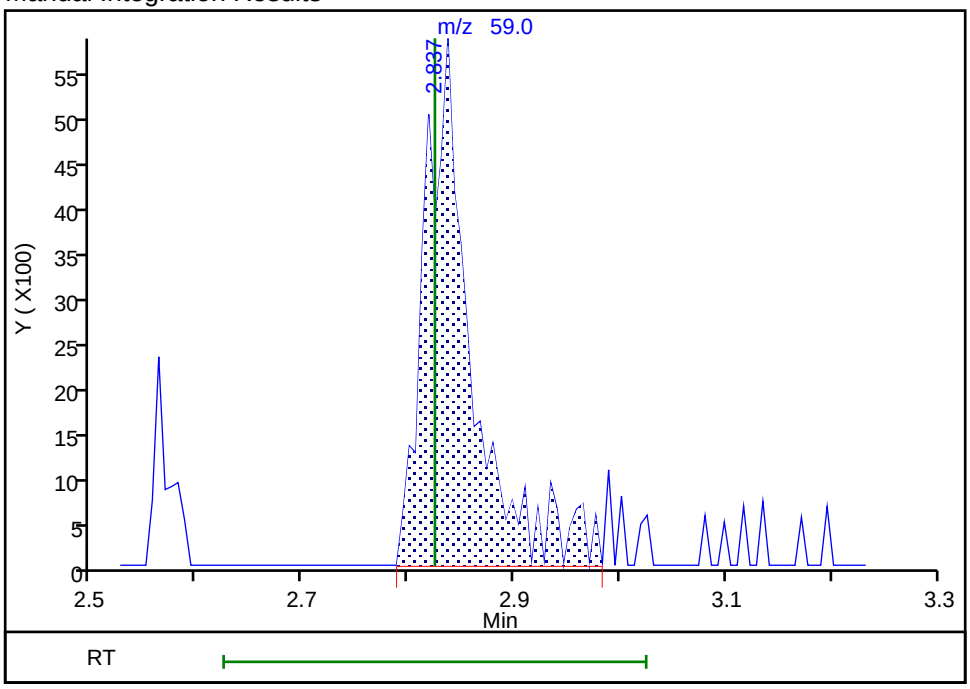
Processing Integration Results

RT: 2.84
Area: 16170
Amount: 9.271366
Amount Units: ug/L



Manual Integration Results

RT: 2.84
Area: 18104
Amount: 10.238345
Amount Units: ug/L



Reviewer: WLL8, 25-Oct-2024 10:25:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

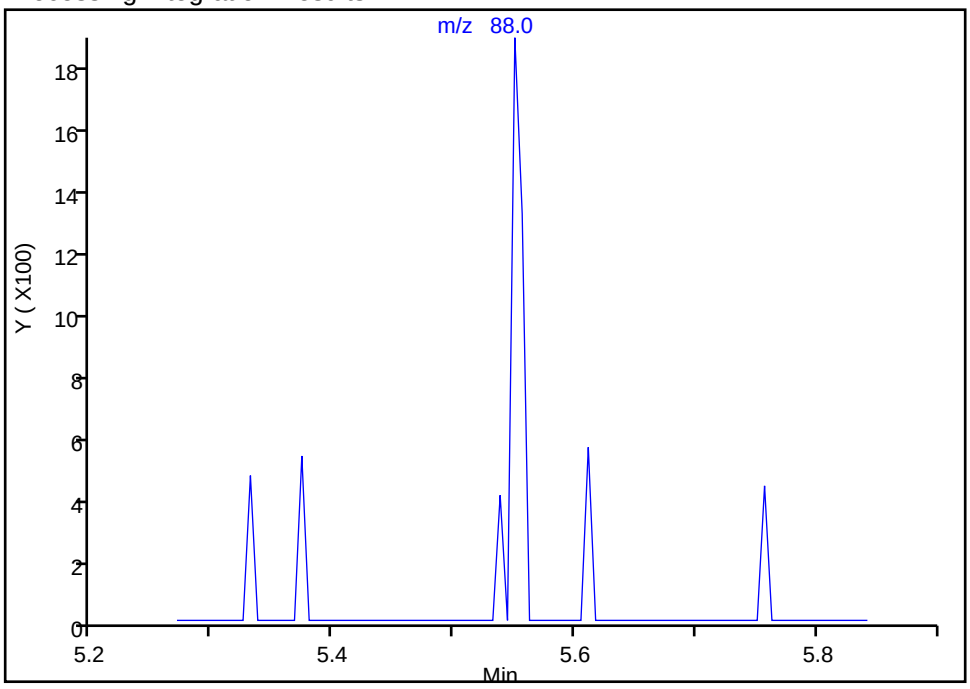
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Injection Date: 24-Oct-2024 15:41:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH/AD ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

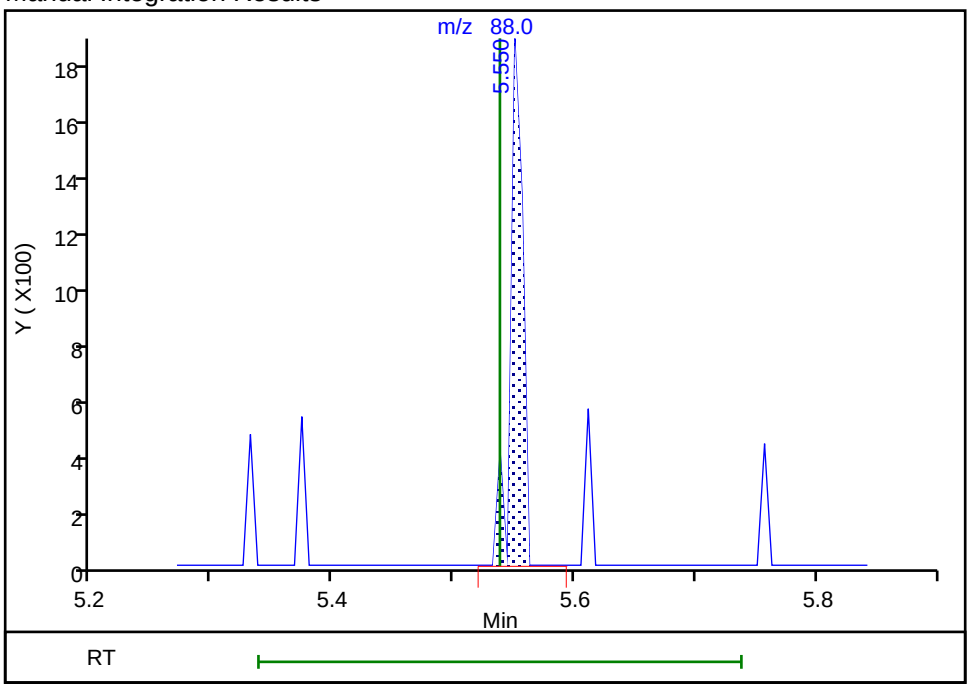
Not Detected
Expected RT: 5.54

Processing Integration Results



Manual Integration Results

RT: 5.55
Area: 1306
Amount: 17.302999
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:23:33 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

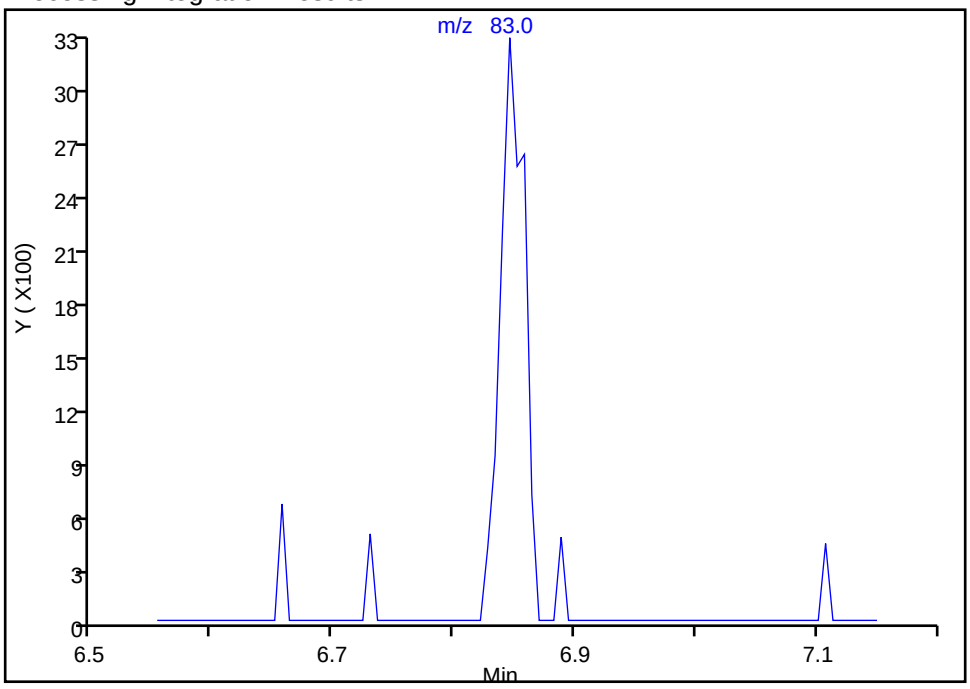
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Injection Date: 24-Oct-2024 15:41:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH/AD ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

78 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

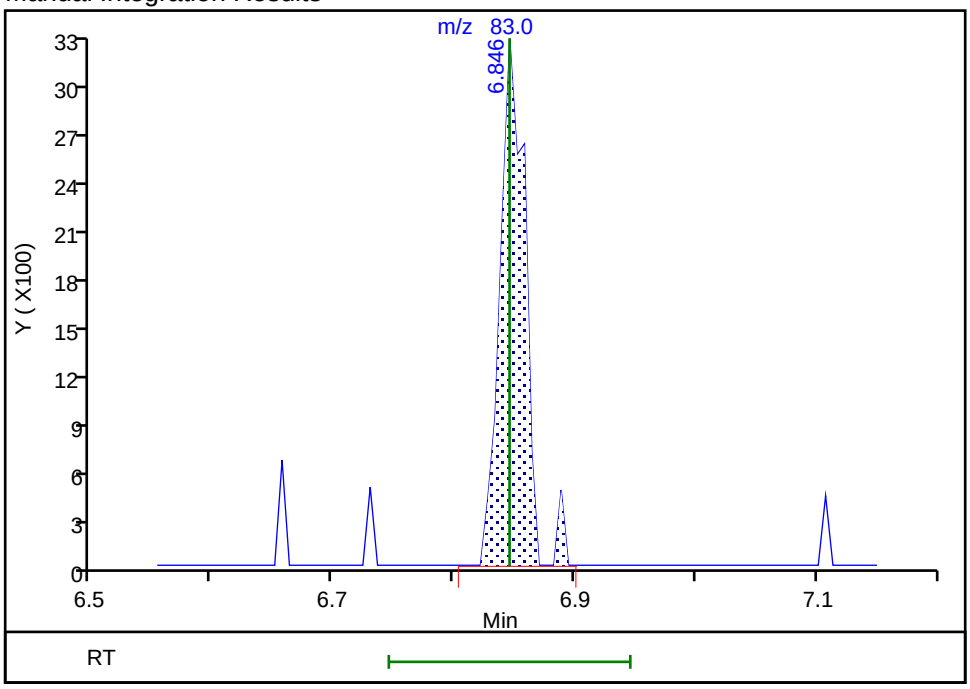
Not Detected
Expected RT: 6.85

Processing Integration Results



Manual Integration Results

RT: 6.85
Area: 4764
Amount: 0.854077
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:23:48 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

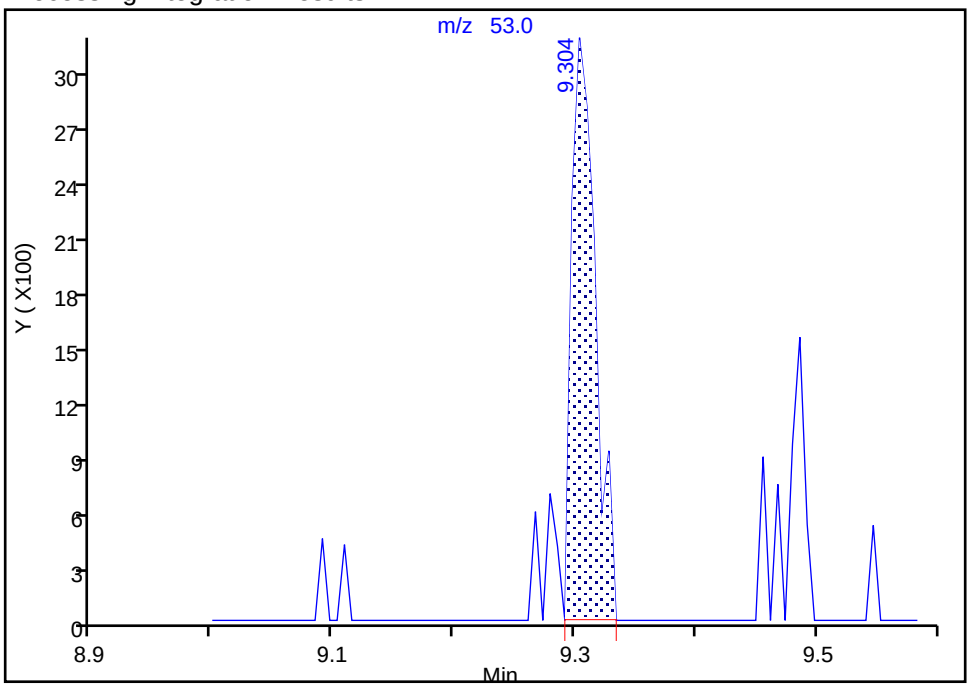
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Injection Date: 24-Oct-2024 15:41:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH/AD ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

101 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

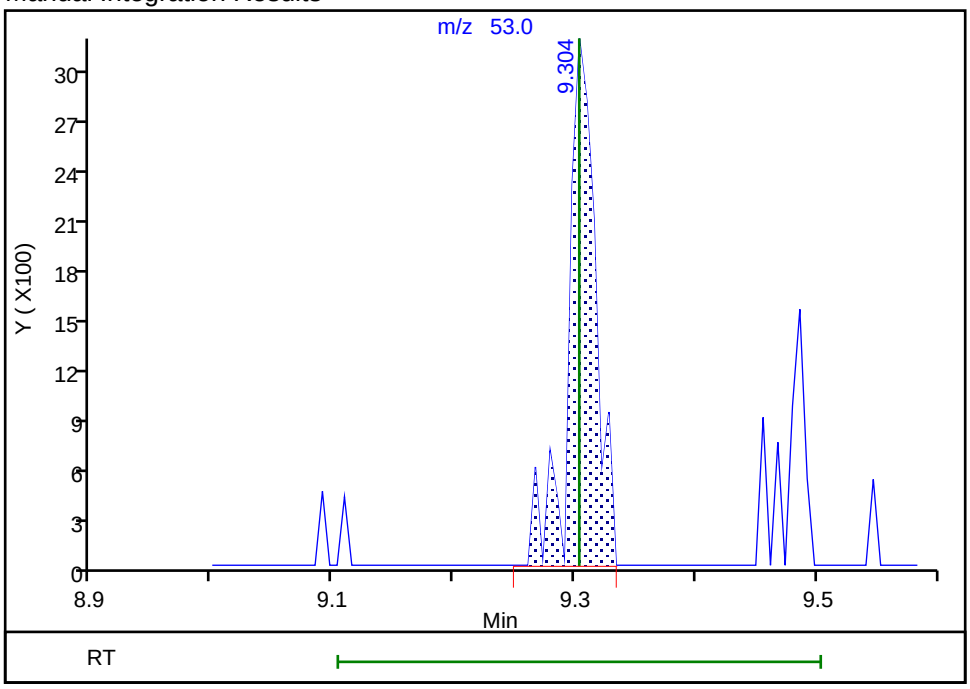
Processing Integration Results

RT: 9.30
Area: 4297
Amount: 0.788856
Amount Units: ug/L



Manual Integration Results

RT: 9.30
Area: 4911
Amount: 0.853701
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:24:40 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0906.d
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 24-Oct-2024 16:04:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0120783-015
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:25 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:27:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	182305	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.001	92	648789	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	332516	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	204704	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	95	329398	25.0	26.7	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	94	764142	25.0	25.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	89	234894	25.0	25.1	
11 Dichlorodifluoromethane	85	1.048	1.042	0.006	98	16011	2.00	1.78	
13 Chloromethane	50	1.188	1.182	0.006	98	36891	2.00	2.00	
14 Vinyl chloride	62	1.255	1.255	0.000	71	16348	2.00	1.68	
144 Butadiene	54	1.267	1.267	0.000	96	27191	2.00	1.74	
15 Bromomethane	94	1.511	1.504	0.007	74	10573	2.00	1.91	
16 Chloroethane	64	1.565	1.565	0.000	93	15049	2.00	2.20	
18 Trichlorofluoromethane	101	1.754	1.742	0.012	70	21440	2.00	1.78	
17 Dichlorofluoromethane	67	1.754	1.742	0.012	92	28922	2.00	1.86	
19 Ethyl ether	59	1.985	1.985	0.000	89	21630	2.00	2.18	
20 Acrolein	56	2.143	2.143	0.000	91	16238	10.0	10.7	M
22 1,1-Dichloroethene	96	2.180	2.174	0.006	91	12253	2.00	1.97	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.174	2.180	-0.006	62	13966	2.00	2.19	
23 Acetone	43	2.283	2.283	0.000	96	71916	10.0	10.9	
24 Iodomethane	142	2.320	2.314	0.006	98	24106	2.00	2.05	
25 Carbon disulfide	76	2.350	2.350	0.000	99	49468	2.00	2.20	
27 3-Chloro-1-propene	41	2.514	2.514	0.000	88	59724	2.00	2.28	
28 Methyl acetate	43	2.563	2.563	0.000	99	74679	4.00	4.22	
30 Methylene Chloride	84	2.648	2.654	-0.006	88	17815	2.00	2.22	
31 2-Methyl-2-propanol	59	2.825	2.825	0.000	91	35132	20.0	20.7	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	92	56164	2.00	2.08	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	86	15802	2.00	2.10	
34 Acrylonitrile	53	2.916	2.922	-0.006	97	161797	20.0	19.9	
35 Hexane	57	3.056	3.056	0.000	90	34442	2.00	2.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	36326	2.00	2.08	
39 Vinyl acetate	43	3.330	3.323	0.007	96	136369	4.00	3.97	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	85	22972	2.00	2.20	
43 cis-1,2-Dichloroethene	96	3.804	3.798	0.006	86	17277	2.00	2.10	
44 2-Butanone (MEK)	43	3.841	3.834	0.007	95	123126	10.0	11.4	
47 Chlorobromomethane	128	4.017	4.029	-0.012	82	7987	2.00	1.96	
49 Tetrahydrofuran	42	4.041	4.041	0.000	92	34973	4.00	4.43	
50 Chloroform	83	4.108	4.108	0.000	90	30194	2.00	2.14	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	77	24726	2.00	2.13	
52 Cyclohexane	56	4.206	4.212	-0.006	90	43393	2.00	2.01	
53 Carbon tetrachloride	117	4.339	4.339	0.000	74	22209	2.00	2.05	
54 1,1-Dichloropropene	75	4.352	4.358	-0.006	85	21119	2.00	2.15	
55 Benzene	78	4.552	4.552	0.000	48	62987	2.00	2.14	
56 Isobutyl alcohol	43	4.613	4.607	0.006	96	51621	50.0	53.7	
57 1,2-Dichloroethane	62	4.625	4.619	0.006	93	32698	2.00	2.16	
59 n-Heptane	43	4.747	4.747	0.000	95	44782	2.00	2.07	
60 Trichloroethene	95	5.161	5.155	0.006	92	15919	2.00	2.10	
62 Methylcyclohexane	83	5.270	5.264	0.006	90	24151	2.00	1.95	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	86	19010	2.00	2.03	
64 Dibromomethane	93	5.520	5.526	-0.006	89	11653	2.00	2.17	
66 1,4-Dioxane	88	5.538	5.538	0.000	0	2223	40.0	29.8	M
67 Dichlorobromomethane	83	5.684	5.684	0.000	89	18824	2.00	2.06	
69 2-Chloroethyl vinyl ether	63	5.976	5.970	0.006	85	13483	2.00	2.07	
71 cis-1,3-Dichloropropene	75	6.091	6.098	-0.007	75	25274	2.00	2.08	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	75840	10.0	10.6	
73 Toluene	92	6.371	6.371	0.000	97	36322	2.00	2.05	
75 trans-1,3-Dichloropropene	75	6.669	6.663	0.006	90	22131	2.00	2.01	
77 Ethyl methacrylate	69	6.724	6.724	0.000	85	22330	2.00	2.03	
78 1,1,2-Trichloroethane	83	6.852	6.846	0.006	0	12211	2.00	2.21	M
79 Tetrachloroethene	166	6.895	6.894	0.000	86	16016	2.00	2.16	
80 1,3-Dichloropropane	76	7.004	6.998	0.006	87	25705	2.00	2.26	
82 2-Hexanone	43	7.083	7.083	0.000	97	156444	10.0	9.79	
83 Chlorodibromomethane	129	7.229	7.229	0.000	87	15953	2.00	2.20	
84 Ethylene Dibromide	107	7.320	7.320	0.000	93	13937	2.00	1.92	
85 Chlorobenzene	112	7.795	7.801	-0.006	90	40926	2.00	2.11	
88 Ethylbenzene	91	7.898	7.898	0.000	96	68119	2.00	2.02	
89 1,1,1,2-Tetrachloroethane	131	7.892	7.904	-0.012	47	17082	2.00	2.30	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	97	29108	2.00	2.19	
91 o-Xylene	106	8.446	8.440	0.006	97	29281	2.00	2.20	
92 Styrene	104	8.476	8.476	0.000	90	44761	2.00	2.07	
93 Bromoform	173	8.713	8.707	0.006	91	8668	2.00	1.83	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	67834	2.00	2.06	
97 Bromobenzene	156	9.164	9.170	-0.006	93	16934	2.00	1.99	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	92	22396	2.00	2.12	
100 N-Propylbenzene	91	9.273	9.273	0.000	97	81845	2.00	2.09	
99 1,2,3-Trichloropropane	110	9.285	9.279	0.006	56	6802	2.00	1.91	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	58	11553	2.00	2.04	M
102 2-Chlorotoluene	126	9.371	9.377	-0.006	95	17537	2.00	2.14	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	94	61991	2.00	2.14	
105 4-Chlorotoluene	91	9.498	9.492	0.006	97	58748	2.00	2.09	
106 tert-Butylbenzene	134	9.802	9.796	0.006	96	11950	2.00	1.93	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	97	63477	2.00	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.021	10.021	0.000	96	69031	2.00	1.89	
110 1,3-Dichlorobenzene	146	10.155	10.149	0.006	93	32826	2.00	2.09	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	97	66189	2.00	2.02	
113 1,4-Dichlorobenzene	146	10.247	10.240	0.007	91	36334	2.00	2.25	
115 n-Butylbenzene	91	10.575	10.569	0.006	96	58355	2.00	2.07	
116 1,2-Dichlorobenzene	146	10.593	10.599	-0.006	86	33220	2.00	2.09	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	73	4643	2.00	2.00	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	24699	2.00	2.16	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	87	12146	2.00	2.13	
121 Naphthalene	128	12.248	12.248	0.000	97	70298	2.00	1.98	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	88	20948	2.00	1.88	
S 123 1,3-Dichloropropene, Total	1				0			4.09	
S 124 1,2-Dichloroethene, Total	1				0			4.20	
S 125 Total BTEX	1				0			10.6	
S 126 Xylenes, Total	1				0			4.39	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00260	Amount Added:	2.00	Units: uL	
GAS CORP mix_00646	Amount Added:	2.00	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

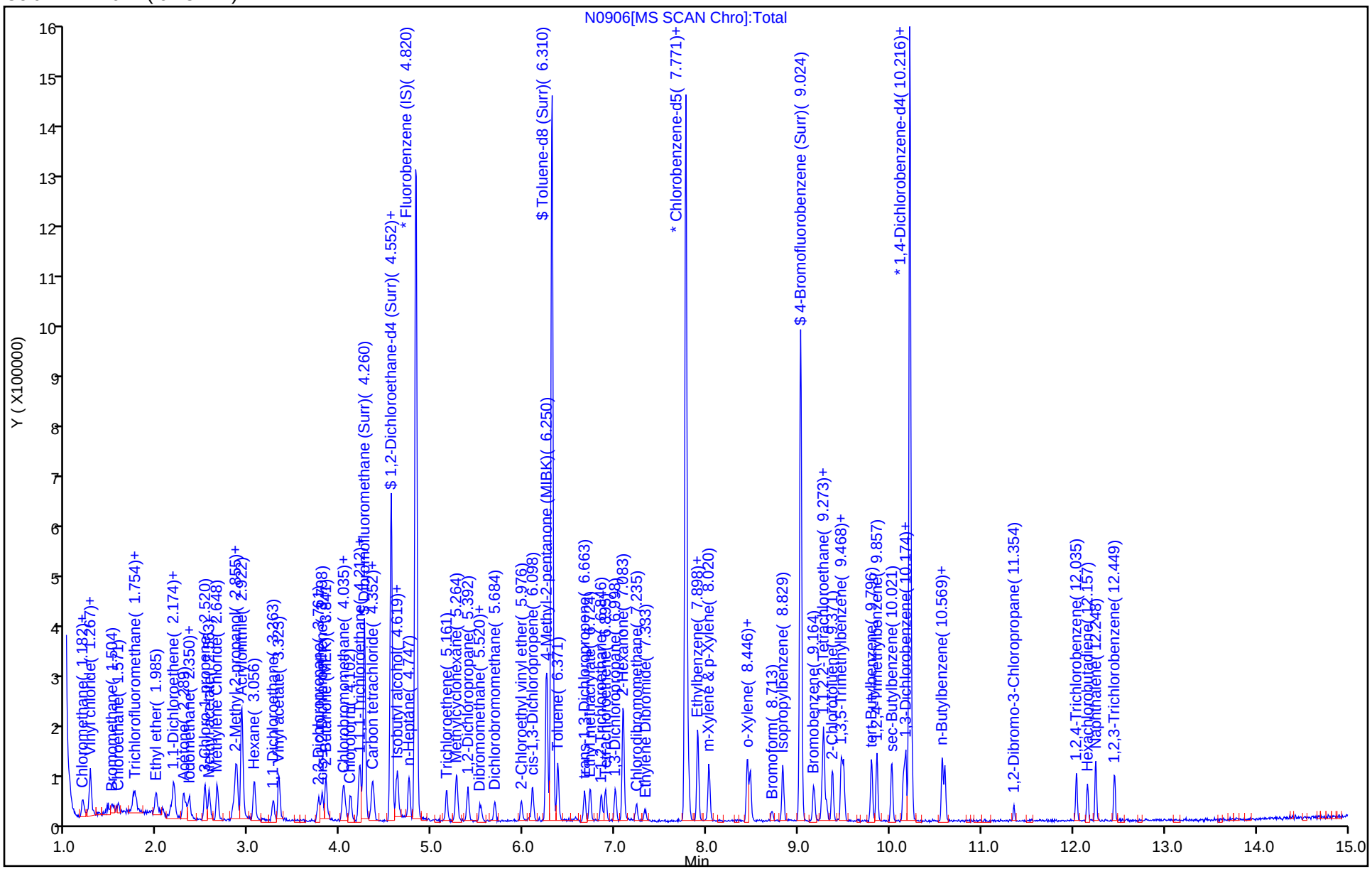
Report Date: 25-Oct-2024 11:16:28 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0906.d

Injection Date:	24-Oct-2024 16:04:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC 2			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

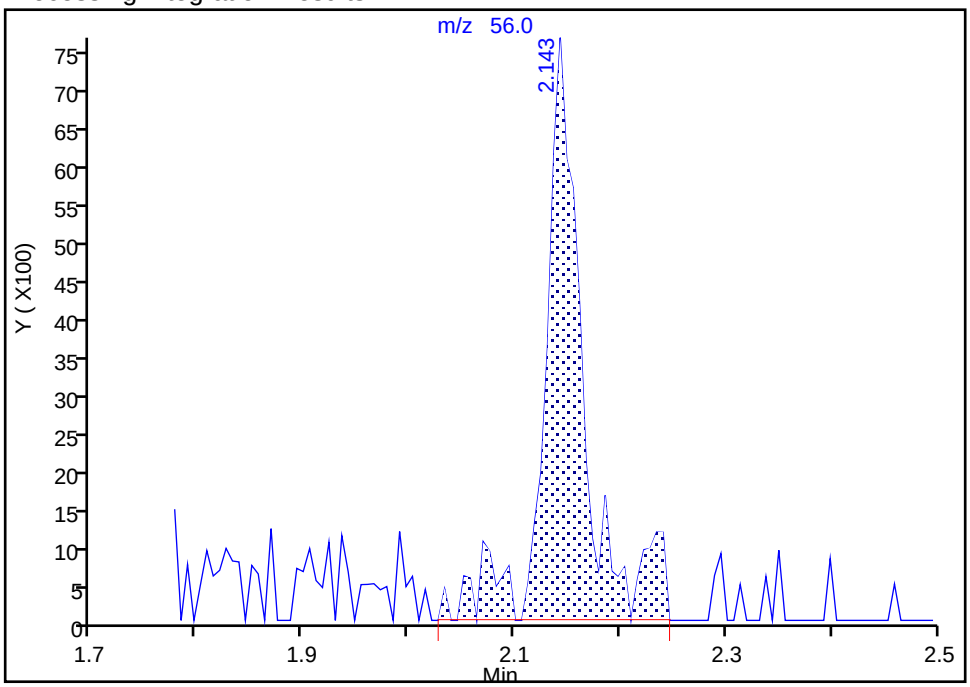
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0906.d
Injection Date: 24-Oct-2024 16:04:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH/AD ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

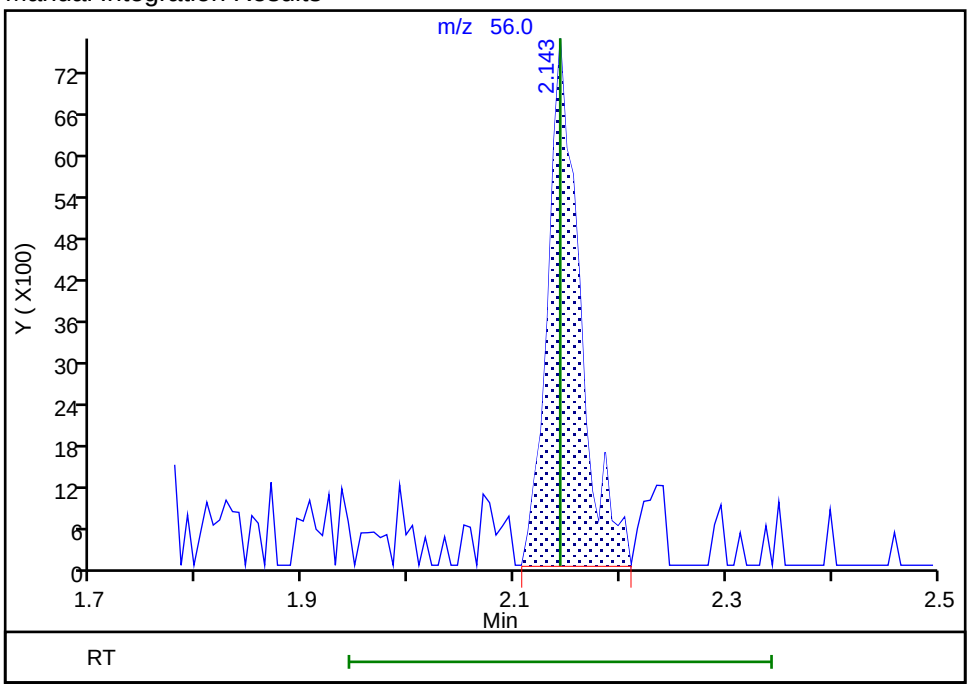
Processing Integration Results

RT: 2.14
Area: 19876
Amount: 12.643553
Amount Units: ug/L



Manual Integration Results

RT: 2.14
Area: 16238
Amount: 10.667606
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:34:42 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

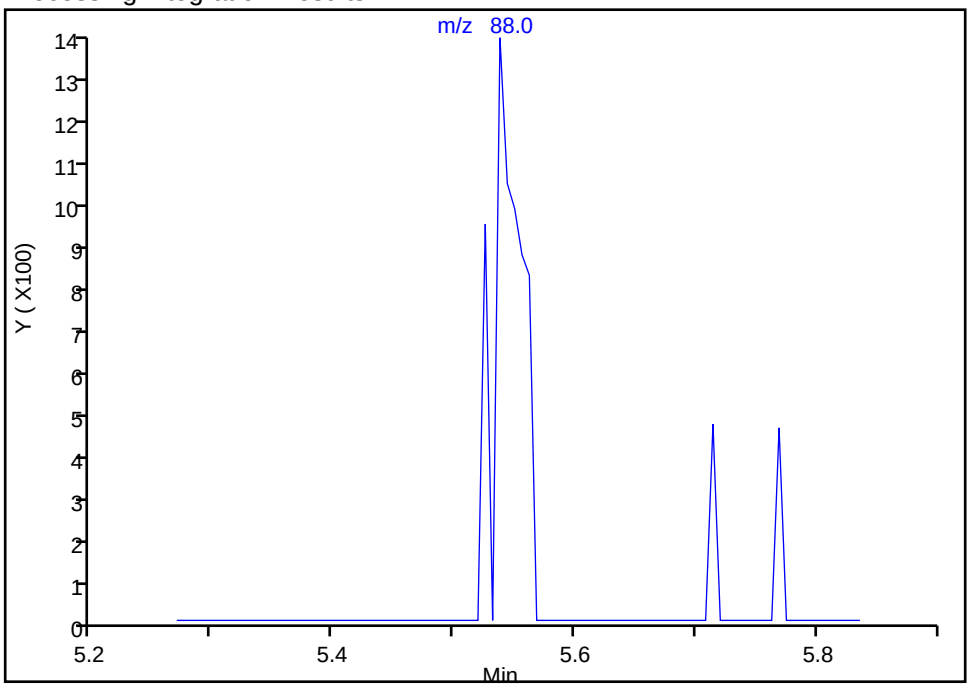
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0906.d
Injection Date: 24-Oct-2024 16:04:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH/AD ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

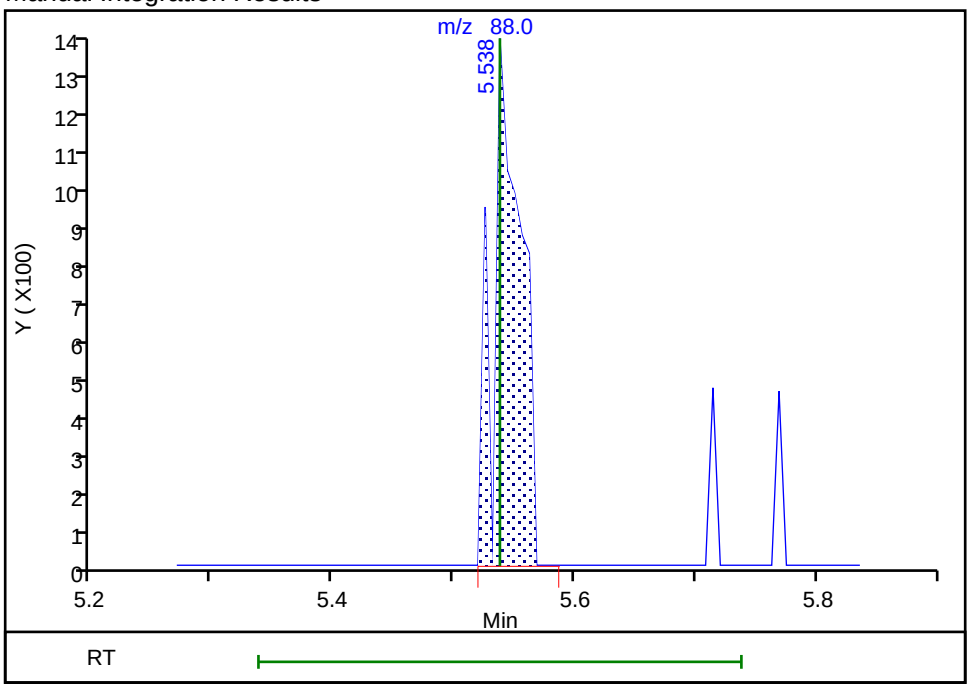
Not Detected
Expected RT: 5.54

Processing Integration Results



Manual Integration Results

RT: 5.54
Area: 2223
Amount: 29.790620
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:26:59 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

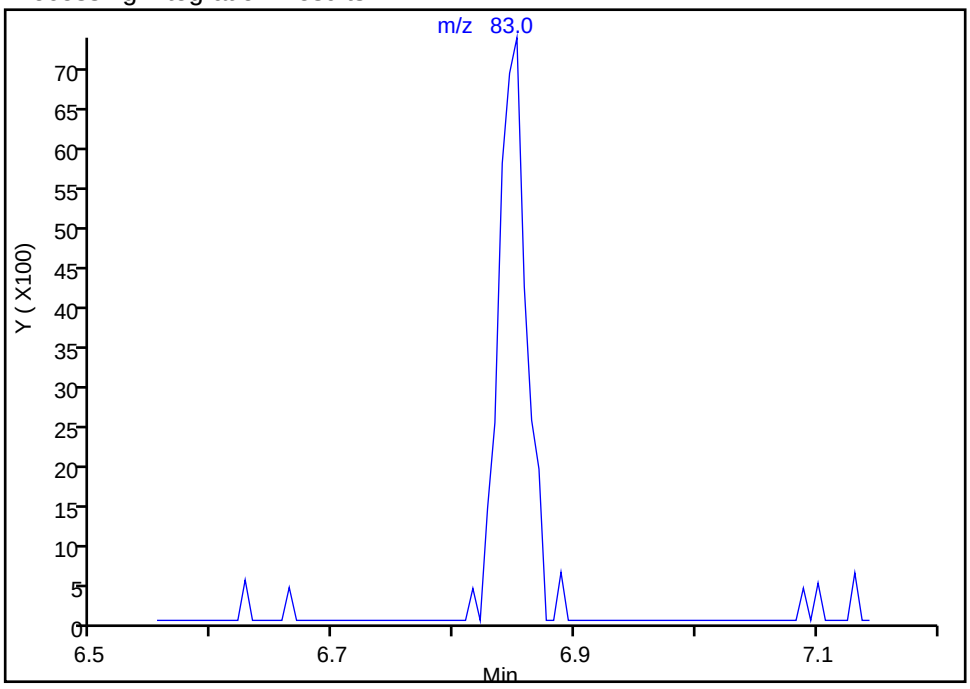
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0906.d
Injection Date: 24-Oct-2024 16:04:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH/AD ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

78 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

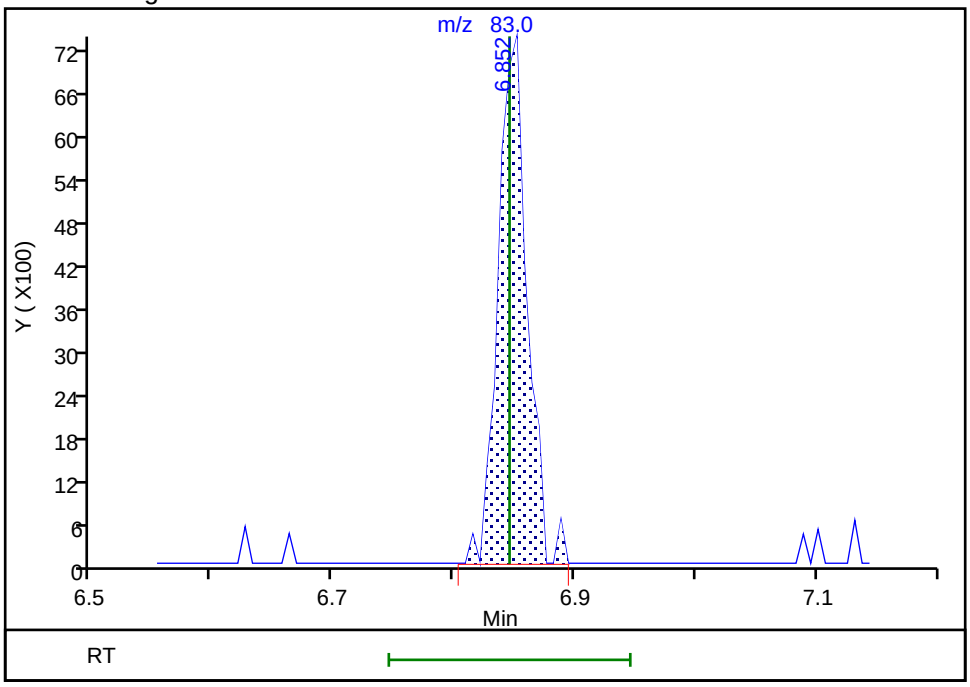
Not Detected
Expected RT: 6.85

Processing Integration Results



Manual Integration Results

RT: 6.85
Area: 12211
Amount: 2.214310
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:27:15 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

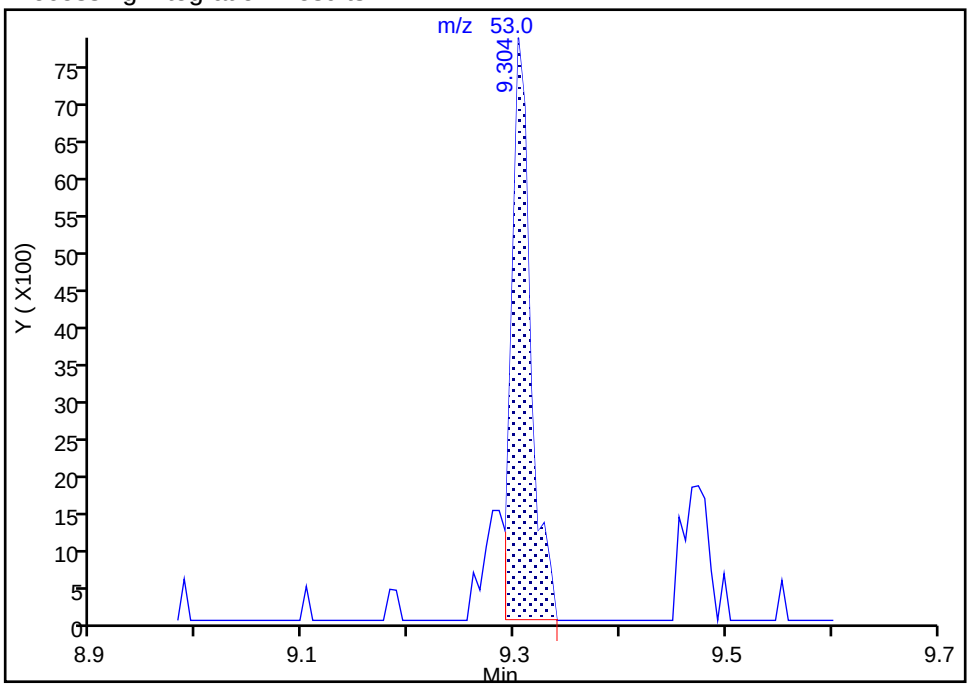
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0906.d
Injection Date: 24-Oct-2024 16:04:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH/AD ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

101 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

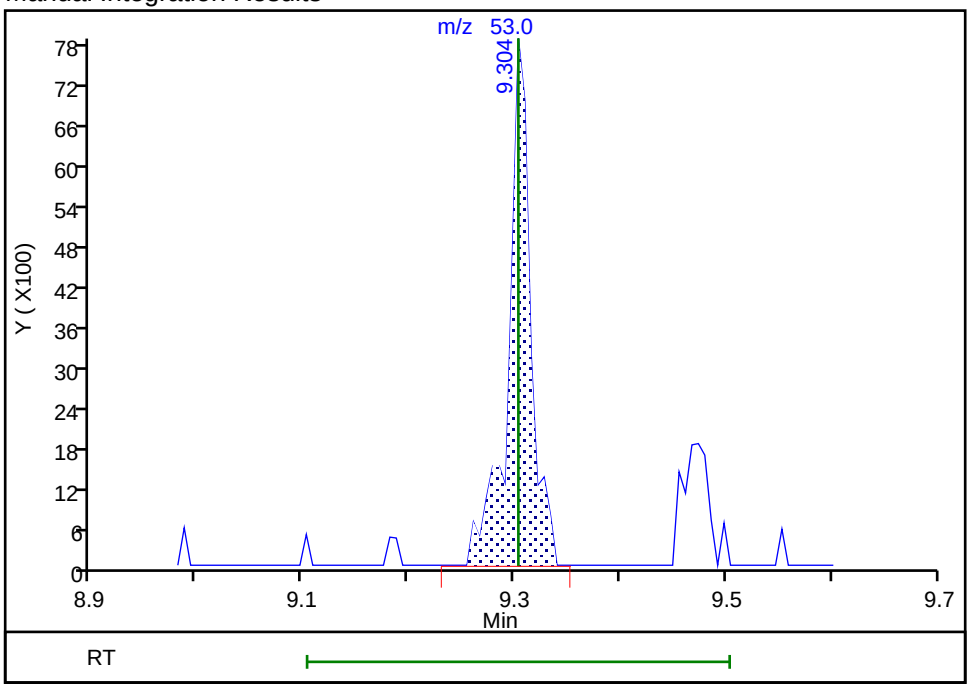
Processing Integration Results

RT: 9.30
Area: 9732
Amount: 1.789155
Amount Units: ug/L



Manual Integration Results

RT: 9.30
Area: 11553
Amount: 2.043533
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:27:40 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0907.d
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 24-Oct-2024 16:27:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0120783-016
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:35 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:29:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	187887	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	90	680417	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	343944	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	93	216420	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	91	319011	25.0	25.1	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	95	772367	25.0	24.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	87	249929	25.0	25.4	
11 Dichlorodifluoromethane	85	1.048	1.048	0.000	98	46077	5.00	4.98	
13 Chloromethane	50	1.182	1.182	0.000	99	97247	5.00	5.11	
14 Vinyl chloride	62	1.261	1.261	0.000	81	49260	5.00	4.91	
144 Butadiene	54	1.273	1.273	0.000	98	78382	5.00	4.88	
15 Bromomethane	94	1.511	1.511	0.000	96	28489	5.00	4.99	
16 Chloroethane	64	1.565	1.565	0.000	96	35926	5.00	5.10	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	67	58896	5.00	4.74	
17 Dichlorofluoromethane	67	1.754	1.754	0.000	93	76444	5.00	4.76	
19 Ethyl ether	59	1.985	1.985	0.000	92	52085	5.00	5.09	
20 Acrolein	56	2.149	2.149	0.000	96	39686	25.0	25.3	
22 1,1-Dichloroethene	96	2.174	2.174	0.000	89	29427	5.00	4.60	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	57	30749	5.00	4.68	
23 Acetone	43	2.283	2.283	0.000	97	171606	25.0	25.2	
24 Iodomethane	142	2.320	2.320	0.000	99	61704	5.00	5.09	
25 Carbon disulfide	76	2.350	2.350	0.000	99	106403	5.00	4.59	
27 3-Chloro-1-propene	41	2.520	2.520	0.000	88	131870	5.00	4.88	
28 Methyl acetate	43	2.569	2.569	0.000	99	173469	10.0	9.51	a
30 Methylene Chloride	84	2.654	2.654	0.000	87	37843	5.00	4.73	
31 2-Methyl-2-propanol	59	2.837	2.837	0.000	95	87581	50.0	50.1	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	87	129825	5.00	4.67	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	90	36077	5.00	4.66	
34 Acrylonitrile	53	2.922	2.922	0.000	95	431814	50.0	51.6	
35 Hexane	57	3.056	3.056	0.000	96	83303	5.00	4.81	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.263	3.263	0.000	95	95665	5.00	5.32	
39 Vinyl acetate	43	3.323	3.323	0.000	96	351595	10.0	9.92	
42 2,2-Dichloropropane	77	3.768	3.768	0.000	80	49068	5.00	4.55	
43 cis-1,2-Dichloroethene	96	3.804	3.804	0.000	85	42507	5.00	5.00	
44 2-Butanone (MEK)	43	3.841	3.841	0.000	96	289882	25.0	26.0	
47 Chlorobromomethane	128	4.029	4.029	0.000	82	20364	5.00	4.84	
49 Tetrahydrofuran	42	4.041	4.041	0.000	93	84941	10.0	10.4	
50 Chloroform	83	4.108	4.108	0.000	91	66345	5.00	4.57	
51 1,1,1-Trichloroethane	97	4.212	4.212	0.000	78	59452	5.00	4.98	
52 Cyclohexane	56	4.218	4.218	0.000	93	101099	5.00	4.55	
53 Carbon tetrachloride	117	4.339	4.339	0.000	95	51576	5.00	4.62	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	83	50551	5.00	4.98	
55 Benzene	78	4.552	4.552	0.000	62	149531	5.00	4.92	
56 Isobutyl alcohol	43	4.607	4.607	0.000	96	129268	125.0	130.6	
57 1,2-Dichloroethane	62	4.619	4.619	0.000	94	76305	5.00	4.89	
59 n-Heptane	43	4.747	4.747	0.000	94	108824	5.00	4.87	
60 Trichloroethene	95	5.155	5.155	0.000	91	37597	5.00	4.80	
62 Methylcyclohexane	83	5.270	5.270	0.000	90	56753	5.00	4.45	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	88	50536	5.00	5.25	
64 Dibromomethane	93	5.532	5.532	0.000	91	27731	5.00	5.02	
66 1,4-Dioxane	88	5.538	5.538	0.000	0	8574	100.0	109.6	M
67 Dichlorobromomethane	83	5.684	5.684	0.000	88	44639	5.00	4.73	
69 2-Chloroethyl vinyl ether	63	5.976	5.976	0.000	86	34106	5.00	5.09	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	82	64018	5.00	5.12	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	179831	25.0	24.0	
73 Toluene	92	6.371	6.371	0.000	97	95403	5.00	5.14	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	91	62967	5.00	5.44	
77 Ethyl methacrylate	69	6.724	6.724	0.000	84	57600	5.00	4.99	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	93	30926	5.00	5.35	
79 Tetrachloroethene	166	6.888	6.888	0.000	95	39758	5.00	5.11	
80 1,3-Dichloropropane	76	7.004	7.004	0.000	87	54683	5.00	4.59	
82 2-Hexanone	43	7.083	7.083	0.000	97	426559	25.0	25.4	
83 Chlorodibromomethane	129	7.235	7.235	0.000	89	36723	5.00	4.82	
84 Ethylene Dibromide	107	7.326	7.326	0.000	96	38806	5.00	5.09	
85 Chlorobenzene	112	7.795	7.795	0.000	92	101981	5.00	5.02	
88 Ethylbenzene	91	7.898	7.898	0.000	97	174871	5.00	4.94	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	45	37991	5.00	4.88	
90 m-Xylene & p-Xylene	106	8.026	8.026	0.000	96	65839	5.00	4.72	
91 o-Xylene	106	8.440	8.440	0.000	96	68148	5.00	4.88	
92 Styrene	104	8.476	8.476	0.000	94	110352	5.00	4.86	
93 Bromoform	173	8.707	8.707	0.000	92	22195	5.00	4.46	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	163430	5.00	4.80	
97 Bromobenzene	156	9.170	9.170	0.000	88	46166	5.00	5.25	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.255	0.000	94	51676	5.00	4.73	
100 N-Propylbenzene	91	9.273	9.273	0.000	98	199860	5.00	4.94	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	57	19791	5.00	5.36	
101 trans-1,4-Dichloro-2-butene	53	9.310	9.310	0.000	59	27711	5.00	4.74	
102 2-Chlorotoluene	126	9.371	9.371	0.000	94	44158	5.00	5.21	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	93	149724	5.00	5.00	
105 4-Chlorotoluene	91	9.492	9.492	0.000	98	146740	5.00	5.05	
106 tert-Butylbenzene	134	9.802	9.802	0.000	96	33164	5.00	5.19	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	150405	5.00	4.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.015	10.015	0.000	95	184099	5.00	4.86	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	96	83263	5.00	5.12	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	98	162451	5.00	4.79	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	92	81835	5.00	4.89	
115 n-Butylbenzene	91	10.569	10.569	0.000	97	143850	5.00	4.94	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	95	79614	5.00	4.84	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	80	10827	5.00	4.50	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	95	58807	5.00	4.97	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	91	30824	5.00	5.22	
121 Naphthalene	128	12.248	12.248	0.000	97	178024	5.00	4.86	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	95	57483	5.00	4.99	
S 123 1,3-Dichloropropene, Total	1				0			10.6	
S 124 1,2-Dichloroethene, Total	1				0			9.66	
S 125 Total BTEX	1				0			24.6	
S 126 Xylenes, Total	1				0			9.60	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8260 CORP mix_00260	Amount Added:	5.00	Units: uL	
GAS CORP mix_00646	Amount Added:	5.00	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

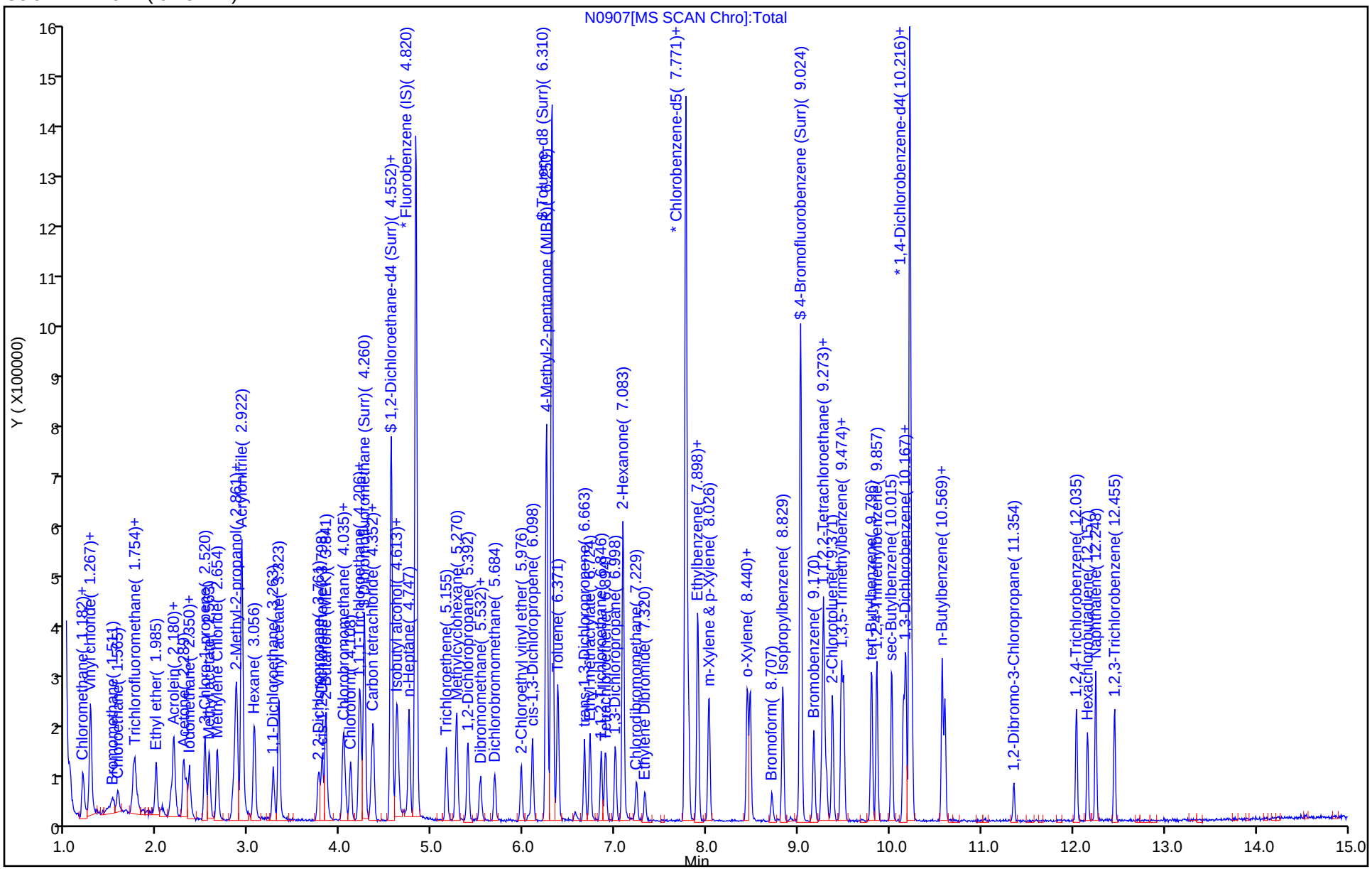
Report Date: 25-Oct-2024 11:16:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0907.d

Injection Date:	24-Oct-2024 16:27:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC 3			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

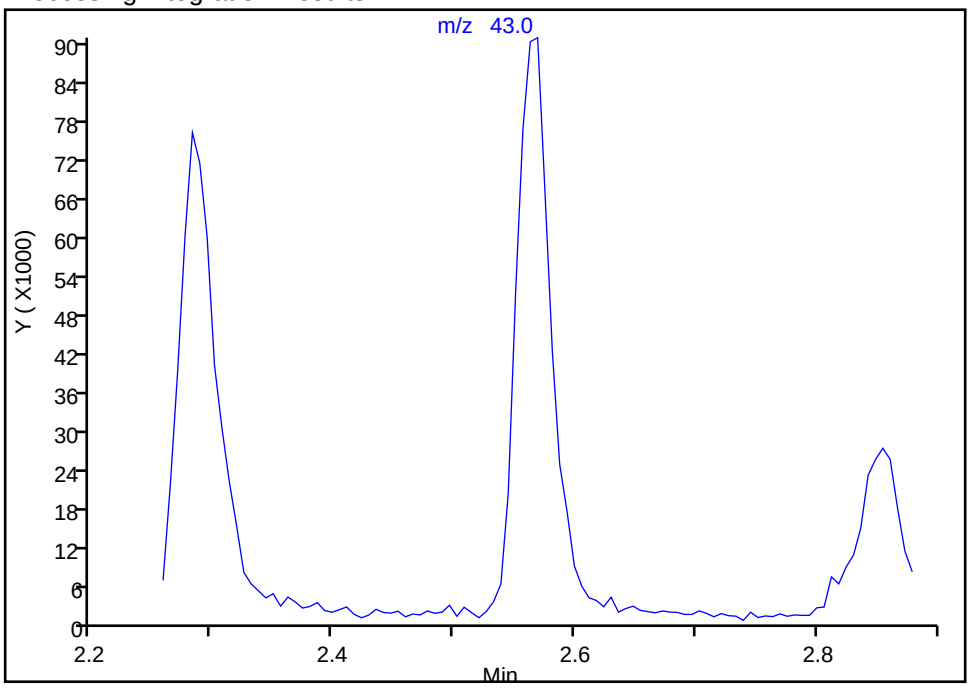
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0907.d
Injection Date: 24-Oct-2024 16:27:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH/AD ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

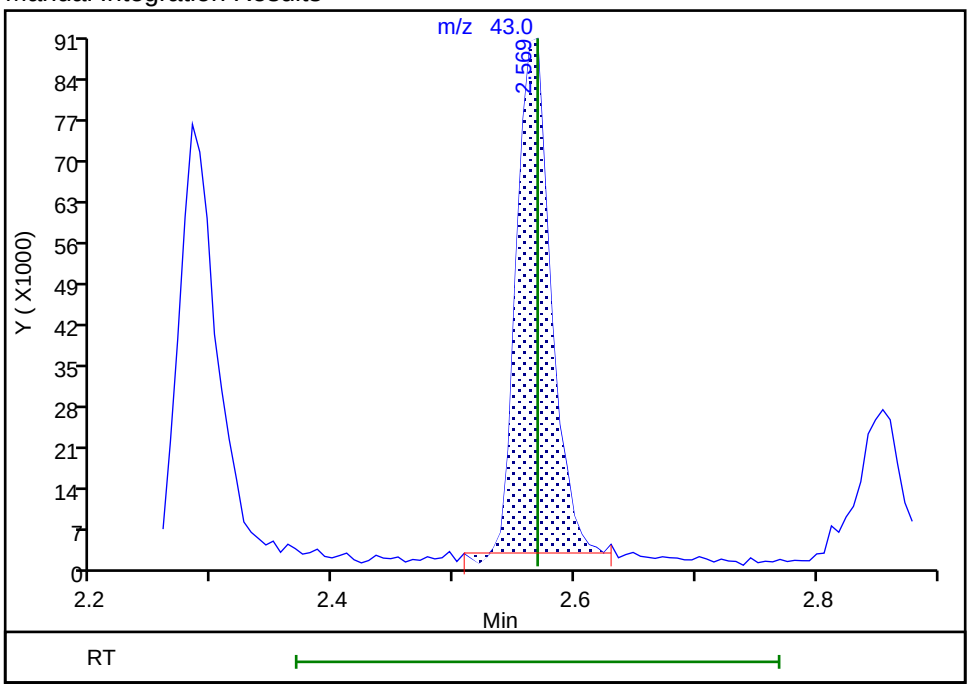
Not Detected
Expected RT: 2.57

Processing Integration Results



Manual Integration Results

RT: 2.57
Area: 173469
Amount: 9.509910
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:28:21 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

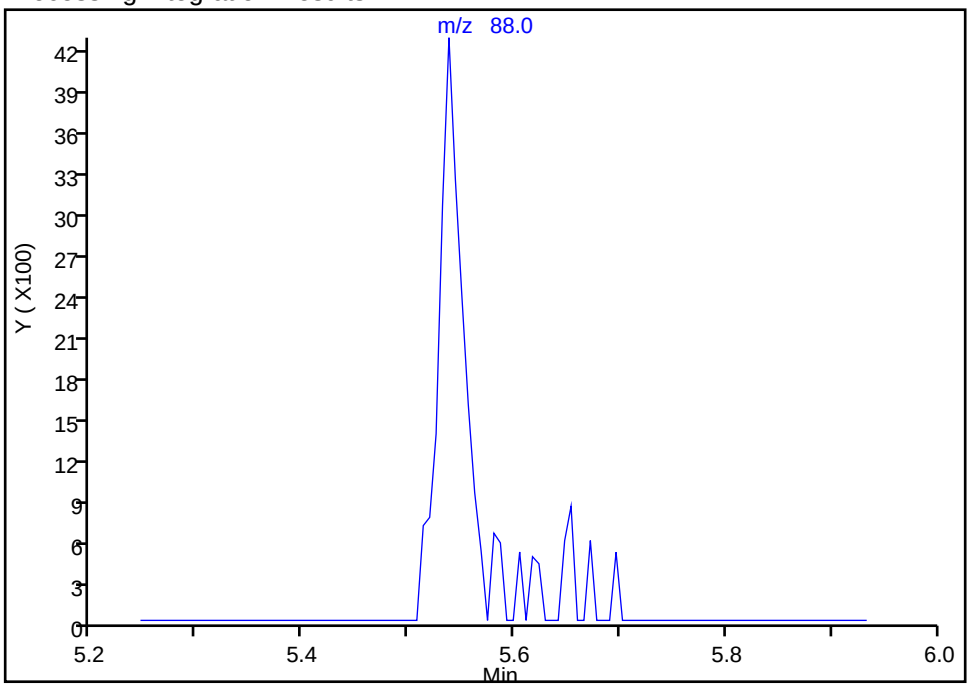
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0907.d
Injection Date: 24-Oct-2024 16:27:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH/AD ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

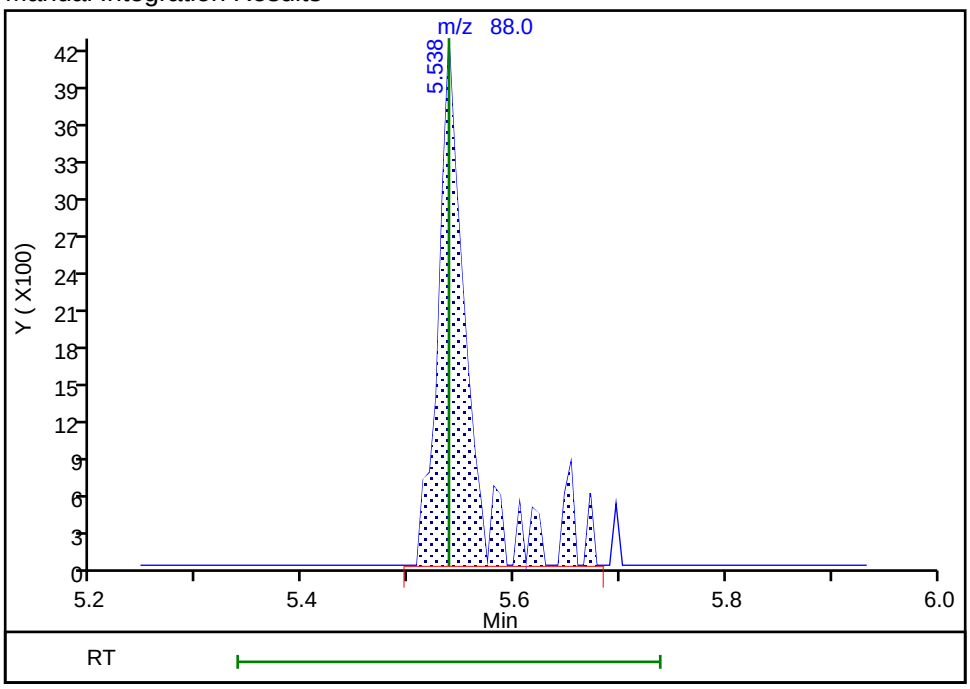
Not Detected
Expected RT: 5.54

Processing Integration Results



Manual Integration Results

RT: 5.54
Area: 8574
Amount: 109.5600
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:28:47 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0908.d
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 24-Oct-2024 16:49:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0120783-017
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:41 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:29:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	172865	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	91	627437	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	319262	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.260	-0.006	92	208978	25.0	26.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.553	4.552	0.001	89	299845	25.0	25.7	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	94	705530	25.0	24.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	89	219057	25.0	24.2	
11 Dichlorodifluoromethane	85	1.042	1.048	-0.006	98	96382	10.0	11.3	
13 Chloromethane	50	1.182	1.182	0.000	99	183733	10.0	10.5	
14 Vinyl chloride	62	1.255	1.261	-0.006	96	98657	10.0	10.7	
144 Butadiene	54	1.267	1.273	-0.006	92	162626	10.0	11.0	
15 Bromomethane	94	1.505	1.511	-0.006	92	62218	10.0	11.9	
16 Chloroethane	64	1.559	1.565	-0.006	94	63936	10.0	9.87	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	67	131384	10.0	11.5	
17 Dichlorofluoromethane	67	1.736	1.754	-0.018	94	161159	10.0	10.9	
19 Ethyl ether	59	1.985	1.985	0.000	91	98041	10.0	10.4	
20 Acrolein	56	2.137	2.149	-0.012	95	74494	50.0	51.6	
22 1,1-Dichloroethene	96	2.174	2.174	0.000	89	62074	10.0	10.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.174	2.180	-0.006	58	61348	10.0	10.1	
23 Acetone	43	2.283	2.283	0.000	97	300200	50.0	47.9	
24 Iodomethane	142	2.314	2.320	-0.006	99	122090	10.0	11.0	
25 Carbon disulfide	76	2.344	2.350	-0.006	98	223251	10.0	10.5	
27 3-Chloro-1-propene	41	2.521	2.520	0.001	87	256664	10.0	10.3	
28 Methyl acetate	43	2.563	2.569	-0.006	99	326100	20.0	19.4	
30 Methylene Chloride	84	2.654	2.654	0.000	87	82986	10.0	11.5	
31 2-Methyl-2-propanol	59	2.831	2.837	-0.006	98	178352	100.0	110.9	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	90	275810	10.0	10.8	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	88	76604	10.0	10.7	
34 Acrylonitrile	53	2.916	2.922	-0.006	98	781512	100.0	101.5	
35 Hexane	57	3.056	3.056	0.000	95	160159	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	176561	10.0	10.7	
39 Vinyl acetate	43	3.324	3.323	0.001	96	625705	20.0	19.2	
42 2,2-Dichloropropane	77	3.756	3.768	-0.012	81	106712	10.0	10.8	
43 cis-1,2-Dichloroethene	96	3.798	3.804	-0.006	87	82044	10.0	10.5	
44 2-Butanone (MEK)	43	3.835	3.841	-0.006	95	471218	50.0	46.0	
47 Chlorobromomethane	128	4.023	4.029	-0.006	83	42303	10.0	10.9	
49 Tetrahydrofuran	42	4.042	4.041	0.001	91	143419	20.0	19.2	
50 Chloroform	83	4.108	4.108	0.000	93	136800	10.0	10.2	
51 1,1,1-Trichloroethane	97	4.206	4.212	-0.006	95	120262	10.0	10.9	
52 Cyclohexane	56	4.212	4.218	-0.006	94	222402	10.0	10.9	
53 Carbon tetrachloride	117	4.340	4.339	0.001	94	110464	10.0	10.8	
54 1,1-Dichloropropene	75	4.352	4.358	-0.006	81	95480	10.0	10.2	
55 Benzene	78	4.553	4.552	0.001	80	292204	10.0	10.5	
56 Isobutyl alcohol	43	4.607	4.607	0.000	94	227933	250.0	250.2	
57 1,2-Dichloroethane	62	4.626	4.619	0.007	95	142001	10.0	9.89	
59 n-Heptane	43	4.741	4.747	-0.006	94	203360	10.0	9.89	
60 Trichloroethene	95	5.155	5.155	0.000	90	69122	10.0	9.60	
62 Methylcyclohexane	83	5.270	5.270	0.000	91	127266	10.0	10.8	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	89	92249	10.0	10.4	
64 Dibromomethane	93	5.526	5.532	-0.006	95	46588	10.0	9.17	
66 1,4-Dioxane	88	5.538	5.538	0.000	67	15206	200.0	210.7	
67 Dichlorobromomethane	83	5.684	5.684	0.000	94	90382	10.0	10.4	
69 2-Chloroethyl vinyl ether	63	5.976	5.976	0.000	86	59916	10.0	9.72	
71 cis-1,3-Dichloropropene	75	6.092	6.098	-0.006	82	114880	10.0	10.0	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	335660	50.0	48.6	
73 Toluene	92	6.372	6.371	0.001	97	170448	10.0	9.95	
75 trans-1,3-Dichloropropene	75	6.664	6.663	0.001	91	100297	10.0	9.40	
77 Ethyl methacrylate	69	6.724	6.724	0.000	87	106669	10.0	10.0	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	94	50328	10.0	9.44	
79 Tetrachloroethene	166	6.895	6.888	0.007	94	70889	10.0	9.88	
80 1,3-Dichloropropane	76	6.998	7.004	-0.006	89	103810	10.0	9.45	
82 2-Hexanone	43	7.083	7.083	0.000	97	750027	50.0	48.5	
83 Chlorodibromomethane	129	7.229	7.235	-0.006	90	65247	10.0	9.29	
84 Ethylene Dibromide	107	7.327	7.326	0.001	98	68089	10.0	9.68	
85 Chlorobenzene	112	7.801	7.795	0.006	91	182576	10.0	9.75	
88 Ethylbenzene	91	7.905	7.898	0.007	98	326816	10.0	10.0	
89 1,1,1,2-Tetrachloroethane	131	7.898	7.904	-0.006	56	75124	10.0	10.5	
90 m-Xylene & p-Xylene	106	8.020	8.026	-0.006	95	131636	10.0	10.2	
91 o-Xylene	106	8.440	8.440	0.000	98	129636	10.0	10.1	
92 Styrene	104	8.476	8.476	0.000	94	205407	10.0	9.80	
93 Bromoform	173	8.708	8.707	0.001	94	46309	10.0	10.1	
95 Isopropylbenzene	105	8.829	8.829	0.000	97	315908	10.0	9.99	
97 Bromobenzene	156	9.170	9.170	0.000	94	82490	10.0	10.1	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.255	0.000	95	96817	10.0	9.55	
100 N-Propylbenzene	91	9.273	9.273	0.000	98	390582	10.0	10.4	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	90	33055	10.0	9.64	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.310	-0.006	72	51508	10.0	9.49	
102 2-Chlorotoluene	126	9.371	9.371	0.001	95	82199	10.0	10.5	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	95	286373	10.0	10.3	
105 4-Chlorotoluene	91	9.492	9.492	0.000	98	260130	10.0	9.65	
106 tert-Butylbenzene	134	9.803	9.802	0.001	96	58761	10.0	9.91	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	99	295529	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.022	10.015	0.007	95	357878	10.0	10.2	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	96	157097	10.0	10.4	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	97	319869	10.0	10.2	
113 1,4-Dichlorobenzene	146	10.241	10.240	0.001	94	158347	10.0	10.2	
115 n-Butylbenzene	91	10.569	10.569	0.000	99	275364	10.0	10.2	
116 1,2-Dichlorobenzene	146	10.600	10.599	0.001	97	158853	10.0	10.4	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	76	20800	10.0	9.32	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	93	120727	10.0	11.0	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	97	55929	10.0	10.2	
121 Naphthalene	128	12.248	12.248	0.000	97	348547	10.0	10.2	
122 1,2,3-Trichlorobenzene	180	12.449	12.455	-0.006	96	114880	10.0	10.8	
S 123 1,3-Dichloropropene, Total	1				0			19.4	
S 124 1,2-Dichloroethene, Total	1				0			21.2	
S 125 Total BTEX	1				0			50.7	
S 126 Xylenes, Total	1				0			20.3	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00260	Amount Added:	5.00	Units: uL	
GAS CORP mix_00646	Amount Added:	5.00	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

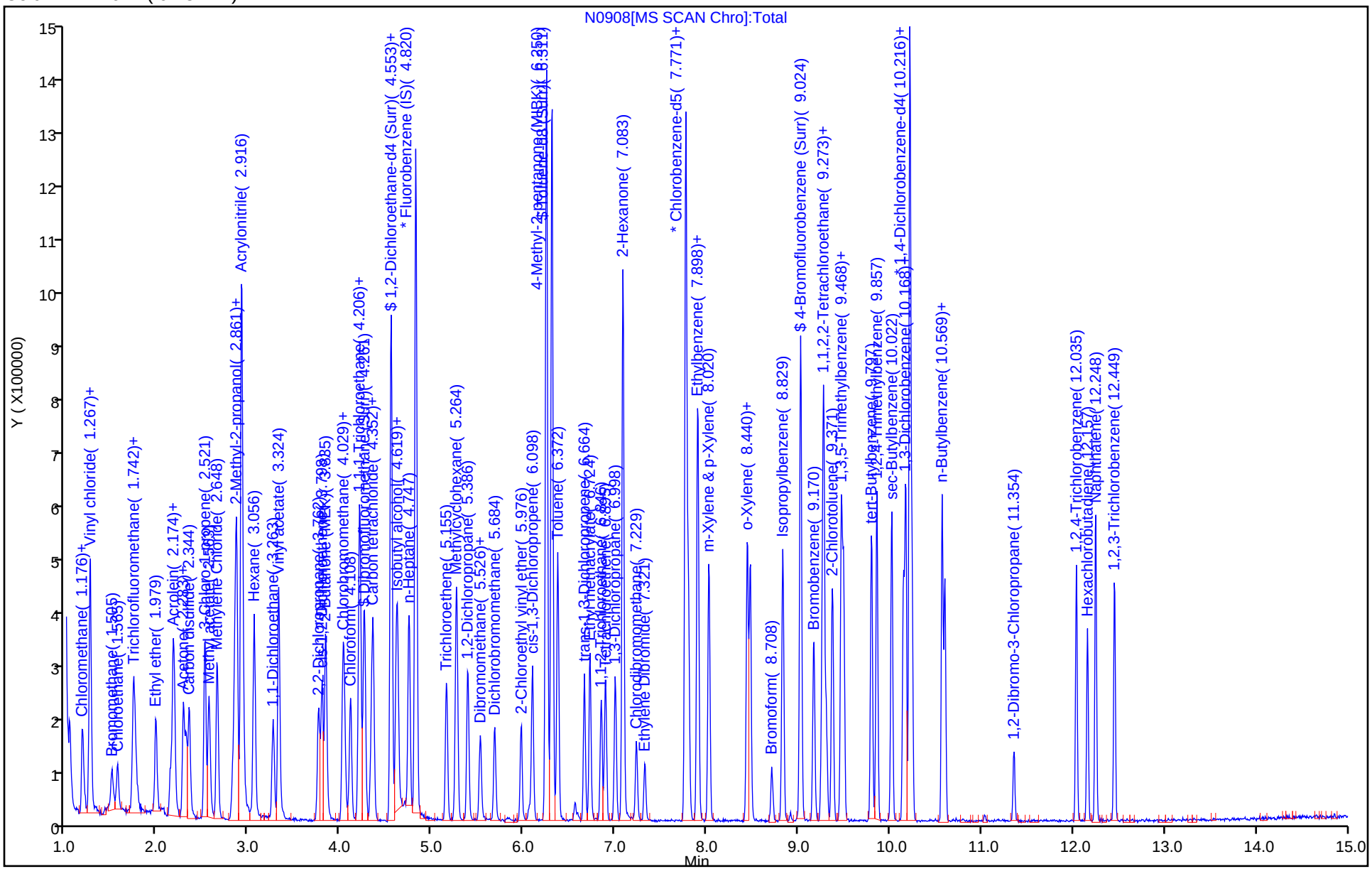
Report Date: 25-Oct-2024 11:16:44 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0908.d

Injection Date:	24-Oct-2024 16:49:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC 4			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0909.d
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 24-Oct-2024 17:11:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0120783-018
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:48 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:15:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	186096	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	90	644937	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	94	333633	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	95	210471	25.0	24.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	66	302301	25.0	24.0	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	94	743629	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.030	9.030	0.000	93	238347	25.0	25.6	
11 Dichlorodifluoromethane	85	1.042	1.042	0.000	98	251012	25.0	27.4	
13 Chloromethane	50	1.182	1.182	0.000	99	497018	25.0	26.4	
14 Vinyl chloride	62	1.255	1.255	0.000	97	268638	25.0	27.0	
144 Butadiene	54	1.267	1.267	0.000	95	422226	25.0	26.5	
15 Bromomethane	94	1.504	1.504	0.000	92	138778	25.0	24.6	
16 Chloroethane	64	1.565	1.565	0.000	95	169238	25.0	24.3	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	67	333030	25.0	27.0	
17 Dichlorofluoromethane	67	1.742	1.742	0.000	95	399652	25.0	25.1	
19 Ethyl ether	59	1.985	1.985	0.000	90	246991	25.0	24.4	
20 Acrolein	56	2.143	2.143	0.000	99	184490	125.0	118.7	a
22 1,1-Dichloroethene	96	2.174	2.174	0.000	89	171087	25.0	27.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	59	175238	25.0	26.9	
23 Acetone	43	2.283	2.283	0.000	97	784172	125.0	116.2	
24 Iodomethane	142	2.314	2.314	0.000	100	317849	25.0	26.5	
25 Carbon disulfide	76	2.350	2.350	0.000	98	607056	25.0	26.4	
27 3-Chloro-1-propene	41	2.514	2.514	0.000	87	672422	25.0	25.1	
28 Methyl acetate	43	2.563	2.563	0.000	99	838419	50.0	46.4	
30 Methylene Chloride	84	2.654	2.654	0.000	87	199246	25.0	25.8	
31 2-Methyl-2-propanol	59	2.825	2.825	0.000	97	424094	250.0	244.9	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	91	675986	25.0	24.5	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	89	203794	25.0	26.6	
34 Acrylonitrile	53	2.922	2.922	0.000	98	2023564	250.0	244.2	
35 Hexane	57	3.056	3.056	0.000	97	465177	25.0	27.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	458342	25.0	25.8	
39 Vinyl acetate	43	3.323	3.323	0.000	96	1752232	50.0	49.9	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	84	282542	25.0	26.5	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	86	208862	25.0	24.8	
44 2-Butanone (MEK)	43	3.834	3.834	0.000	96	1302348	125.0	118.1	
47 Chlorobromomethane	128	4.029	4.029	0.000	84	111241	25.0	26.7	
49 Tetrahydrofuran	42	4.041	4.041	0.000	92	372213	50.0	46.2	
50 Chloroform	83	4.108	4.108	0.000	93	346456	25.0	24.1	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	95	312704	25.0	26.4	
52 Cyclohexane	56	4.212	4.212	0.000	93	584505	25.0	26.6	
53 Carbon tetrachloride	117	4.339	4.339	0.000	96	291098	25.0	26.3	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	84	272826	25.0	27.2	
55 Benzene	78	4.552	4.552	0.000	88	776339	25.0	25.8	a
56 Isobutyl alcohol	43	4.607	4.607	0.000	94	581981	625.0	593.4	
57 1,2-Dichloroethane	62	4.619	4.619	0.000	94	384893	25.0	24.9	
59 n-Heptane	43	4.747	4.747	0.000	94	549643	25.0	24.8	
60 Trichloroethene	95	5.155	5.155	0.000	92	197452	25.0	25.5	
62 Methylcyclohexane	83	5.264	5.264	0.000	91	343124	25.0	27.1	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	86	244028	25.0	25.6	
64 Dibromomethane	93	5.526	5.526	0.000	97	128459	25.0	23.5	
66 1,4-Dioxane	88	5.538	5.538	0.000	28	43482	500.0	586.2	M
67 Dichlorobromomethane	83	5.684	5.684	0.000	95	251255	25.0	26.9	
69 2-Chloroethyl vinyl ether	63	5.970	5.970	0.000	84	173672	25.0	26.2	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	82	317778	25.0	25.7	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	878639	125.0	123.8	
73 Toluene	92	6.371	6.371	0.000	97	467790	25.0	26.6	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	89	288704	25.0	26.3	
77 Ethyl methacrylate	69	6.724	6.724	0.000	86	279688	25.0	25.6	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	93	139338	25.0	25.4	
79 Tetrachloroethene	166	6.894	6.894	0.000	93	195343	25.0	26.5	
80 1,3-Dichloropropane	76	6.998	6.998	0.000	86	286068	25.0	25.3	
82 2-Hexanone	43	7.083	7.083	0.000	97	1959122	125.0	123.3	
83 Chlorodibromomethane	129	7.229	7.229	0.000	89	193508	25.0	26.8	
84 Ethylene Dibromide	107	7.320	7.320	0.000	97	187423	25.0	25.9	
85 Chlorobenzene	112	7.801	7.801	0.000	90	498469	25.0	25.9	
88 Ethylbenzene	91	7.898	7.898	0.000	98	885059	25.0	26.4	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	91	195298	25.0	26.5	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	97	352200	25.0	26.6	
91 o-Xylene	106	8.440	8.440	0.000	97	356241	25.0	26.9	
92 Styrene	104	8.476	8.476	0.000	93	571283	25.0	26.5	
93 Bromoform	173	8.707	8.707	0.000	96	124305	25.0	26.4	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	867730	25.0	26.3	
97 Bromobenzene	156	9.170	9.170	0.000	89	222712	25.0	26.1	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	95	250522	25.0	23.6	
100 N-Propylbenzene	91	9.273	9.273	0.000	98	1042109	25.0	26.5	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	85	87879	25.0	24.5	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	74	149225	25.0	26.3	
102 2-Chlorotoluene	126	9.377	9.377	0.000	96	211759	25.0	25.8	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	94	786527	25.0	27.1	
105 4-Chlorotoluene	91	9.492	9.492	0.000	98	725107	25.0	25.7	
106 tert-Butylbenzene	134	9.796	9.796	0.000	96	172113	25.0	27.8	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	797239	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.021	10.021	0.000	95	992582	25.0	27.0	a
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	98	406581	25.0	25.8	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	98	874490	25.0	26.6	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	93	419121	25.0	25.8	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	744208	25.0	26.3	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	96	404393	25.0	25.3	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	74	65193	25.0	27.9	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	297211	25.0	25.9	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	94	154110	25.0	26.9	
121 Naphthalene	128	12.248	12.248	0.000	97	894930	25.0	25.2	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	95	284643	25.0	25.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00260	Amount Added:	12.50	Units: uL	
GAS CORP mix_00646	Amount Added:	12.50	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

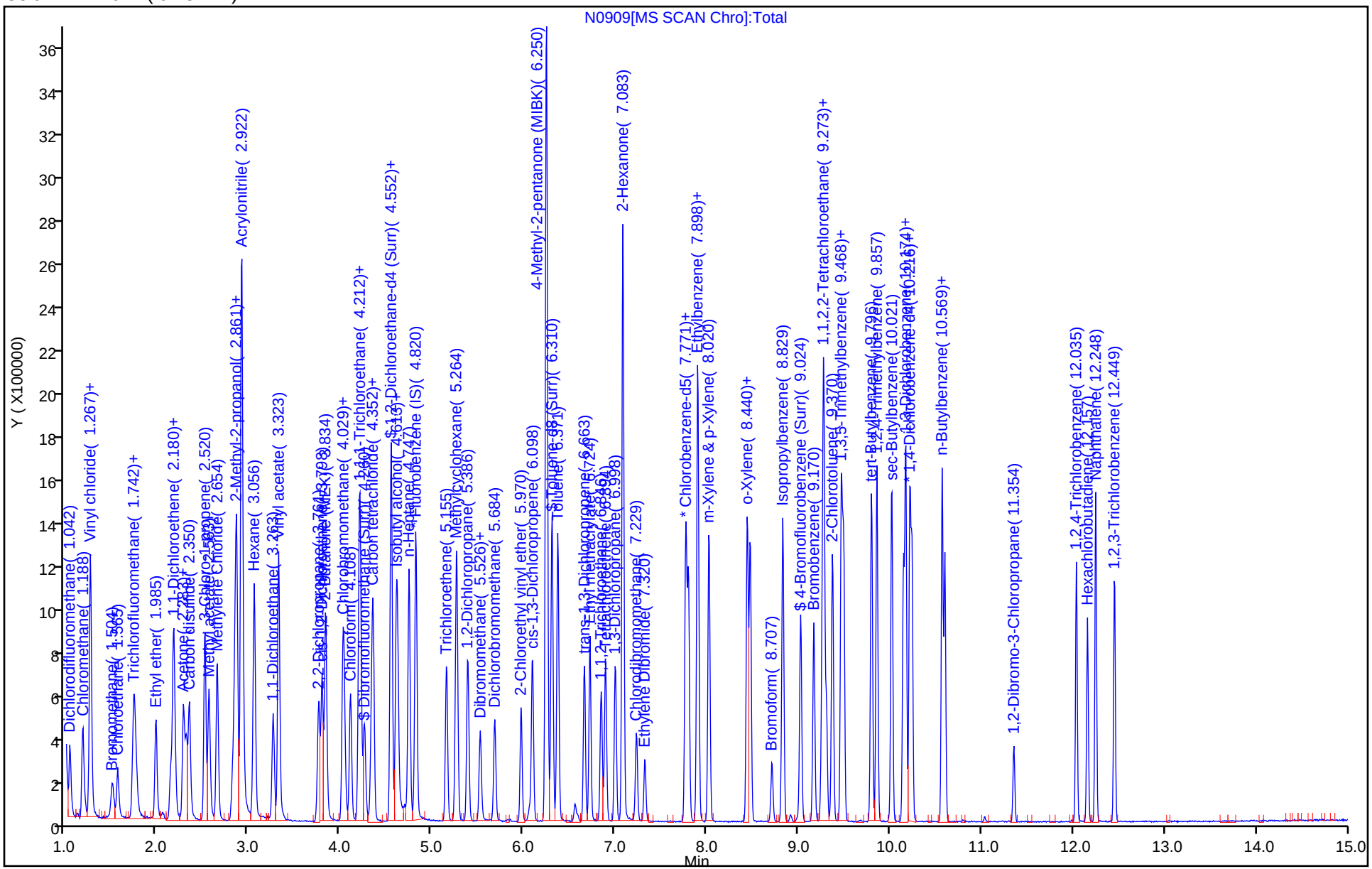
Report Date: 25-Oct-2024 11:16:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0909.d

Injection Date:	24-Oct-2024 17:11:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	ICIS 5			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

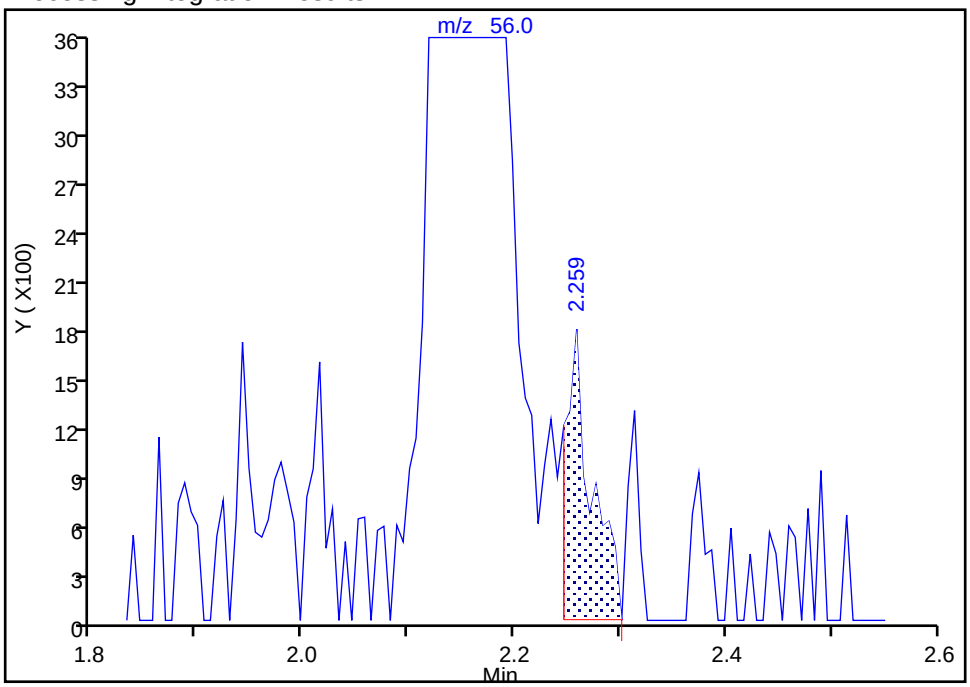
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0909.d
Injection Date: 24-Oct-2024 17:11:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH/AD ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

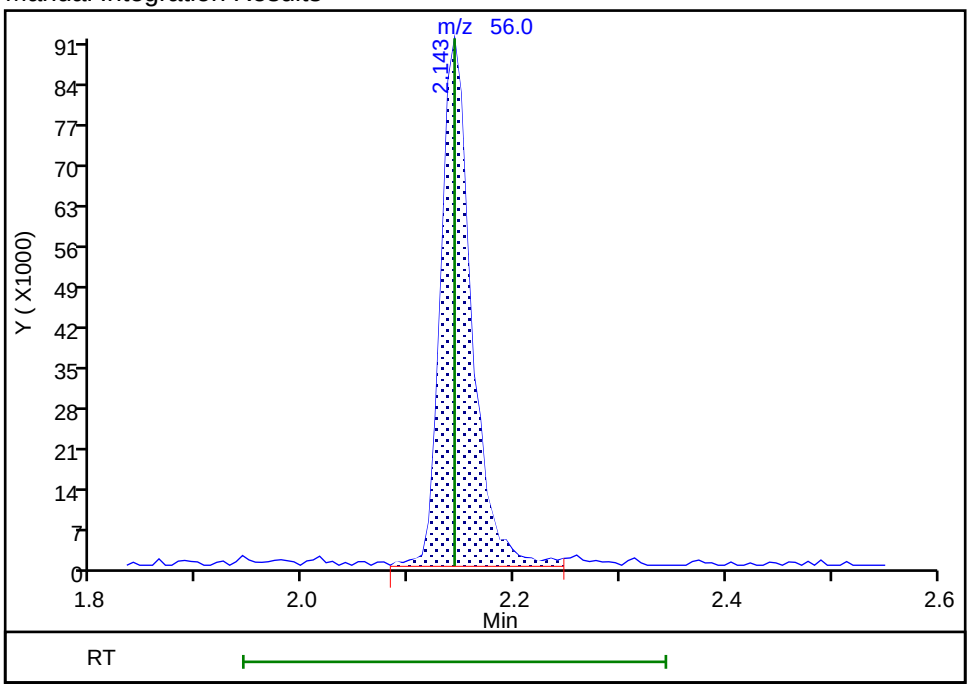
Processing Integration Results

RT: 2.26
Area: 2982
Amount: 10.097173
Amount Units: ug/L



Manual Integration Results

RT: 2.14
Area: 184490
Amount: 118.7323
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:11:17 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Buffalo

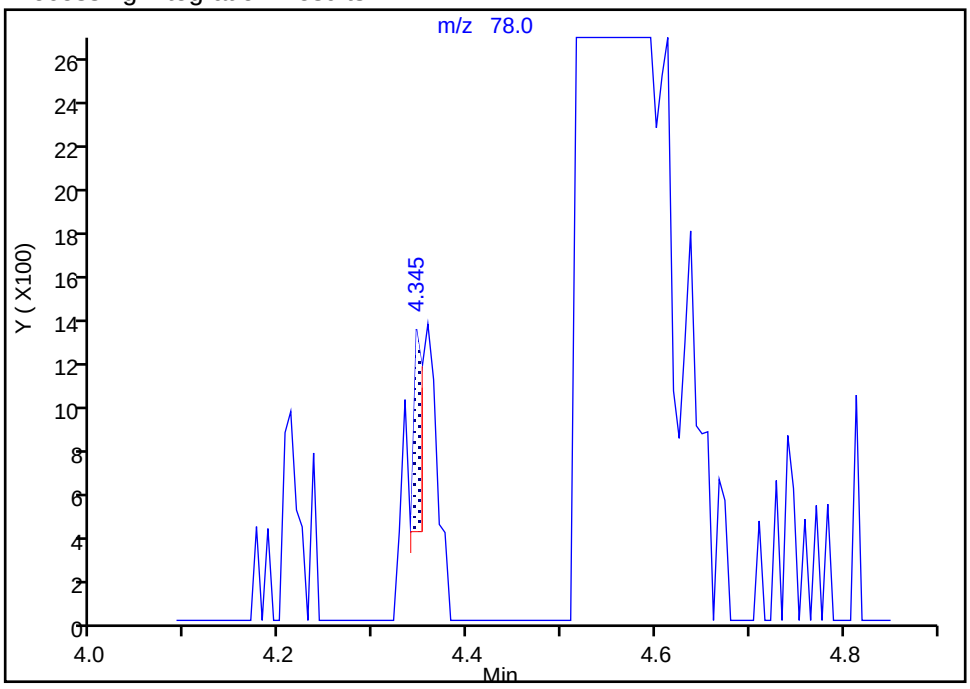
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0909.d
Injection Date: 24-Oct-2024 17:11:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH/AD ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

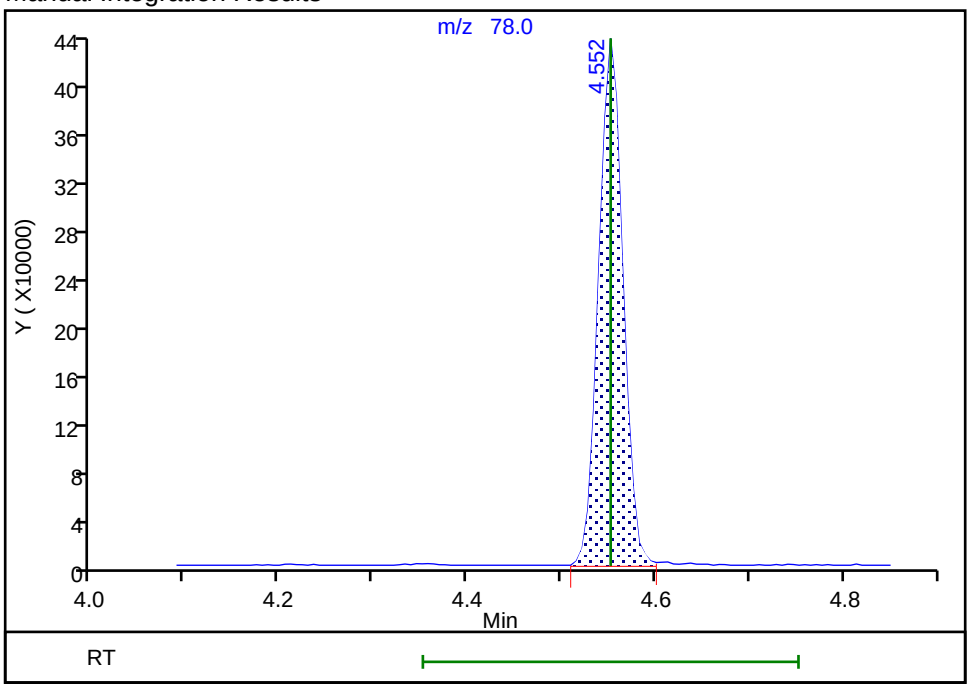
Processing Integration Results

RT: 4.35
Area: 615
Amount: 8.376731
Amount Units: ug/L



Manual Integration Results

RT: 4.55
Area: 776339
Amount: 25.815551
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:11:40 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Buffalo

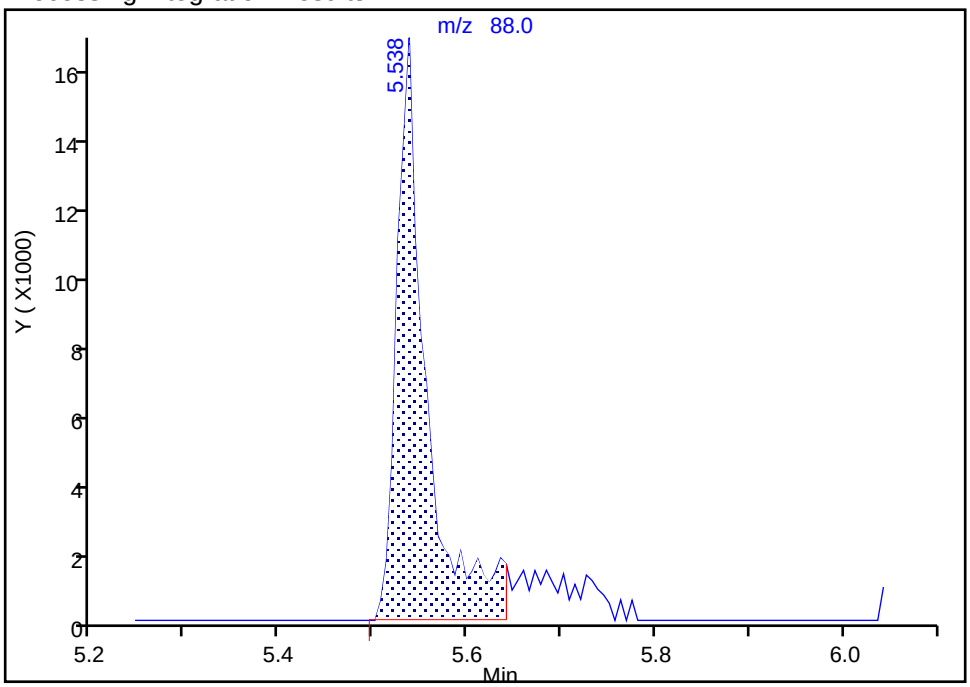
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0909.d
Injection Date: 24-Oct-2024 17:11:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH/AD ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

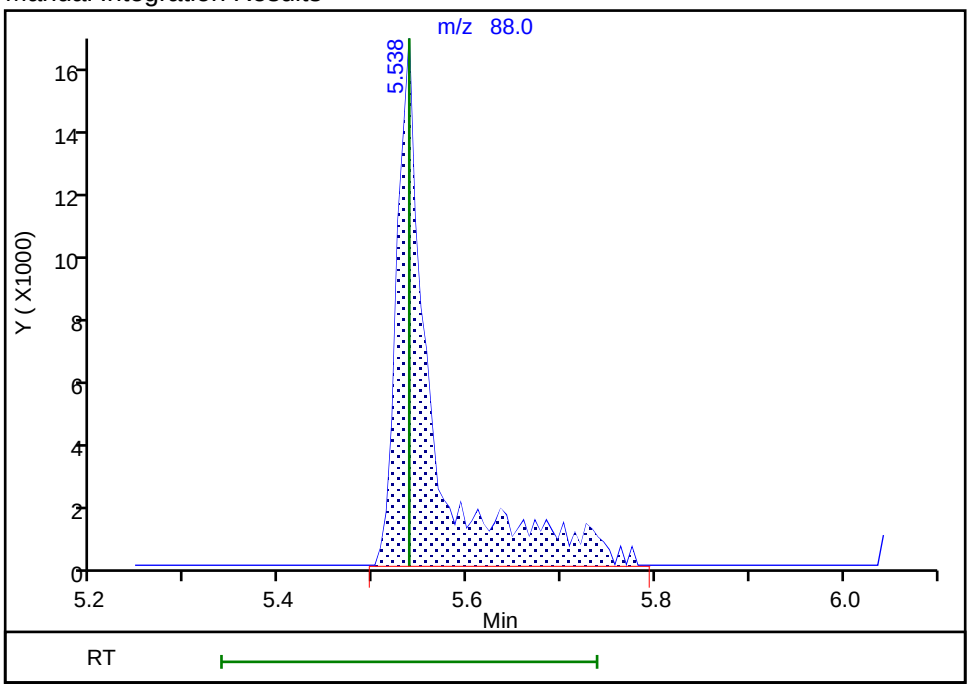
Processing Integration Results

RT: 5.54
Area: 36407
Amount: 522.6028
Amount Units: ug/L



Manual Integration Results

RT: 5.54
Area: 43482
Amount: 586.1864
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:12:27 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

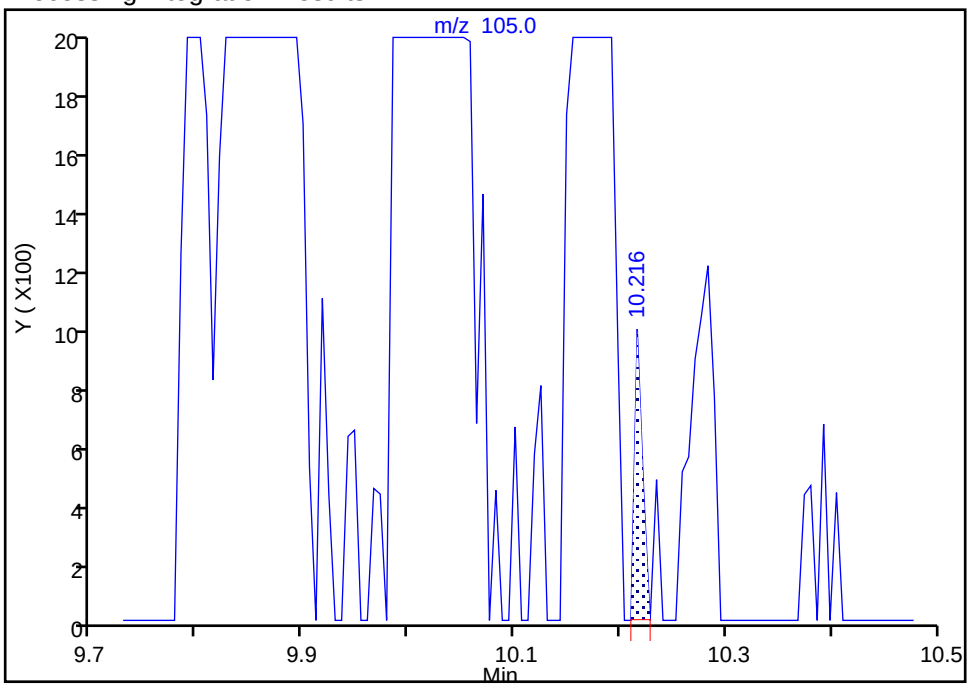
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0909.d
Injection Date: 24-Oct-2024 17:11:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH/AD ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

109 sec-Butylbenzene, CAS: 135-98-8

Signal: 1

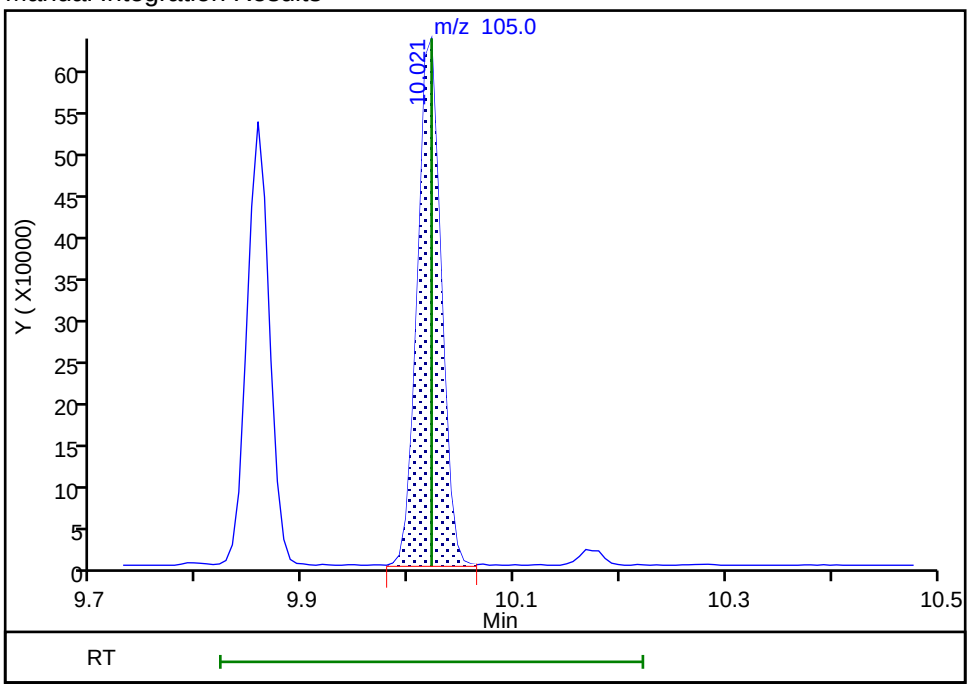
Processing Integration Results

RT: 10.22
Area: 523
Amount: 0.534926
Amount Units: ug/L



Manual Integration Results

RT: 10.02
Area: 992582
Amount: 27.013731
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:13:24 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0910.d
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 24-Oct-2024 17:34:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0120783-019
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:53 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:30:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	96	193930	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.770	7.771	0.000	91	683861	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	345141	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	217189	25.0	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	55	319857	25.0	24.4	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	95	786930	25.0	25.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	86	244279	25.0	24.7	
11 Dichlorodifluoromethane	85	1.042	1.042	0.000	98	488483	50.0	51.1	
13 Chloromethane	50	1.182	1.182	0.000	100	962289	50.0	49.0	
14 Vinyl chloride	62	1.261	1.255	0.006	97	526230	50.0	50.8	
144 Butadiene	54	1.267	1.267	0.000	95	831712	50.0	50.2	
15 Bromomethane	94	1.510	1.504	0.006	92	272920	50.0	46.4	
16 Chloroethane	64	1.565	1.565	0.000	94	327123	50.0	45.0	
17 Dichlorofluoromethane	67	1.748	1.742	0.006	96	784330	50.0	47.3	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	68	652357	50.0	50.8	
19 Ethyl ether	59	1.985	1.985	0.000	89	499893	50.0	47.3	
20 Acrolein	56	2.143	2.143	0.000	99	357947	250.0	221.1	M
22 1,1-Dichloroethene	96	2.180	2.174	0.006	91	333346	50.0	50.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	55	358744	50.0	52.8	
23 Acetone	43	2.283	2.283	0.000	97	1540528	250.0	219.0	
24 Iodomethane	142	2.320	2.314	0.006	100	629877	50.0	50.4	
25 Carbon disulfide	76	2.350	2.350	0.000	98	1221153	50.0	51.0	
27 3-Chloro-1-propene	41	2.520	2.514	0.006	88	1341274	50.0	48.1	
28 Methyl acetate	43	2.563	2.563	0.000	99	1700632	100.0	90.3	
30 Methylene Chloride	84	2.654	2.654	0.000	87	396030	50.0	49.3	
31 2-Methyl-2-propanol	59	2.825	2.825	0.000	99	776030	500.0	430.1	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	92	1377010	50.0	48.0	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	88	395525	50.0	49.5	
34 Acrylonitrile	53	2.922	2.922	0.000	98	4089079	500.0	473.5	
35 Hexane	57	3.056	3.056	0.000	95	962042	50.0	53.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	920482	50.0	49.6	
39 Vinyl acetate	43	3.323	3.323	0.000	96	3724054	100.0	101.8	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	85	565646	50.0	50.8	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	86	440470	50.0	50.2	
44 2-Butanone (MEK)	43	3.834	3.834	0.000	96	2638672	250.0	229.6	
47 Chlorobromomethane	128	4.029	4.029	0.000	83	220813	50.0	50.8	
49 Tetrahydrofuran	42	4.035	4.041	-0.006	92	730520	100.0	87.0	
50 Chloroform	83	4.108	4.108	0.000	93	697554	50.0	46.5	
51 1,1,1-Trichloroethane	97	4.205	4.206	-0.001	95	624110	50.0	50.6	
52 Cyclohexane	56	4.212	4.212	0.000	92	1191716	50.0	52.0	
53 Carbon tetrachloride	117	4.339	4.339	0.000	94	611598	50.0	53.1	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	84	557140	50.0	53.2	
55 Benzene	78	4.552	4.552	0.000	90	1554209	50.0	49.6	
56 Isobutyl alcohol	43	4.607	4.607	0.000	95	1205375	1250.0	1179.5	
57 1,2-Dichloroethane	62	4.619	4.619	0.000	94	770684	50.0	47.8	
59 n-Heptane	43	4.747	4.747	0.000	95	1190100	50.0	51.6	
60 Trichloroethene	95	5.155	5.155	0.000	93	399961	50.0	49.5	
62 Methylcyclohexane	83	5.264	5.264	0.000	92	705179	50.0	53.5	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	88	507625	50.0	51.1	
64 Dibromomethane	93	5.526	5.526	0.000	94	262484	50.0	46.0	
66 1,4-Dioxane	88	5.532	5.538	-0.006	90	80075	1000.0	1018.1	M
67 Dichlorobromomethane	83	5.684	5.684	0.000	95	512121	50.0	52.6	
69 2-Chloroethyl vinyl ether	63	5.970	5.970	0.000	83	360414	50.0	52.1	
71 cis-1,3-Dichloropropene	75	6.097	6.098	-0.001	82	667988	50.0	51.8	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	96	1797400	250.0	238.9	
73 Toluene	92	6.371	6.371	0.000	97	962946	50.0	51.6	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	90	607974	50.0	52.3	
77 Ethyl methacrylate	69	6.724	6.724	0.000	85	574397	50.0	49.5	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	93	292554	50.0	50.3	
79 Tetrachloroethene	166	6.894	6.894	0.000	93	413702	50.0	52.9	
80 1,3-Dichloropropane	76	6.998	6.998	0.000	86	586951	50.0	49.0	
82 2-Hexanone	43	7.083	7.083	0.000	97	3983242	250.0	236.4	
83 Chlorodibromomethane	129	7.235	7.229	0.006	89	401023	50.0	52.4	
84 Ethylene Dibromide	107	7.320	7.320	0.000	99	383415	50.0	50.0	
85 Chlorobenzene	112	7.801	7.801	0.000	90	1057529	50.0	51.8	
88 Ethylbenzene	91	7.898	7.898	0.000	98	1844552	50.0	51.9	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	94	414133	50.0	52.9	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	97	728897	50.0	52.0	
91 o-Xylene	106	8.440	8.440	0.000	98	739181	50.0	52.7	
92 Styrene	104	8.476	8.476	0.000	92	1174737	50.0	51.4	
93 Bromoform	173	8.707	8.707	0.000	96	277249	50.0	55.4	
95 Isopropylbenzene	105	8.829	8.829	0.000	97	1761960	50.0	51.5	
97 Bromobenzene	156	9.170	9.170	0.000	89	449970	50.0	51.0	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.261	-0.006	94	537624	50.0	49.1	
100 N-Propylbenzene	91	9.273	9.273	0.000	99	2153985	50.0	53.0	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	89	172687	50.0	46.6	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	81	308530	50.0	52.6	
102 2-Chlorotoluene	126	9.377	9.377	0.000	96	433827	50.0	51.0	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	94	1640902	50.0	54.6	
105 4-Chlorotoluene	91	9.492	9.492	0.000	98	1501538	50.0	51.5	
106 tert-Butylbenzene	134	9.796	9.796	0.000	96	352003	50.0	54.9	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	1648316	50.0	51.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.021	10.021	0.000	95	2049587	50.0	53.9	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	97	841390	50.0	51.6	
111 4-Isopropyltoluene	119	10.173	10.174	-0.001	98	1829741	50.0	53.8	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	91	852155	50.0	50.8	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	1554916	50.0	53.2	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	96	843927	50.0	51.1	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	78	129051	50.0	53.5	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	614881	50.0	51.8	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	95	301347	50.0	50.9	
121 Naphthalene	128	12.248	12.248	0.000	97	1821995	50.0	49.5	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	95	567826	50.0	49.2	
S 123 1,3-Dichloropropene, Total	1				0			104.1	
S 124 1,2-Dichloroethene, Total	1				0			99.7	
S 125 Total BTEX	1				0			257.7	
S 126 Xylenes, Total	1				0			104.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00260	Amount Added:	25.00	Units: uL	
GAS CORP mix_00646	Amount Added:	25.00	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

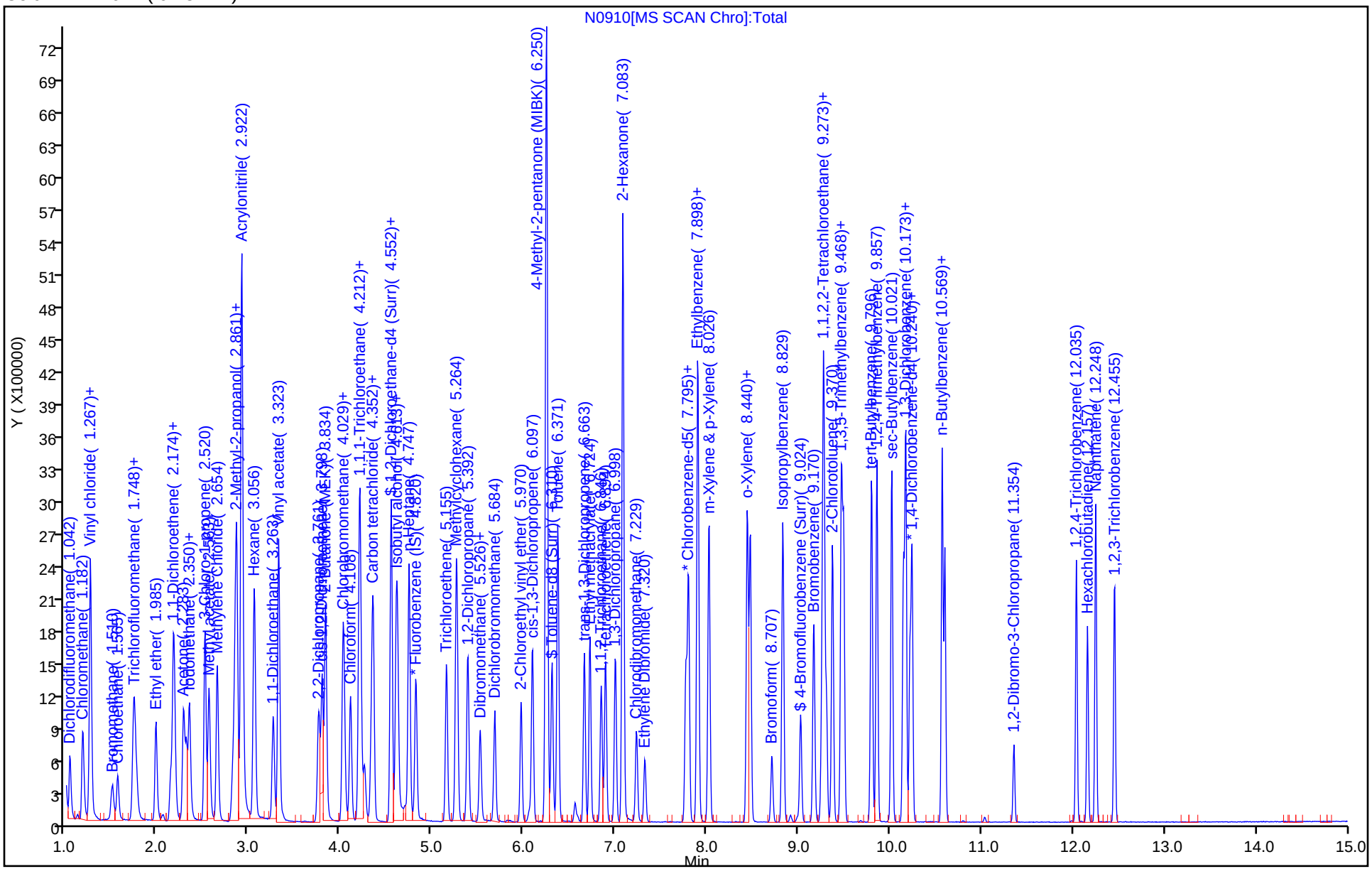
Report Date: 25-Oct-2024 11:16:55 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0910.d

Injection Date:	24-Oct-2024 17:34:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC 6			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

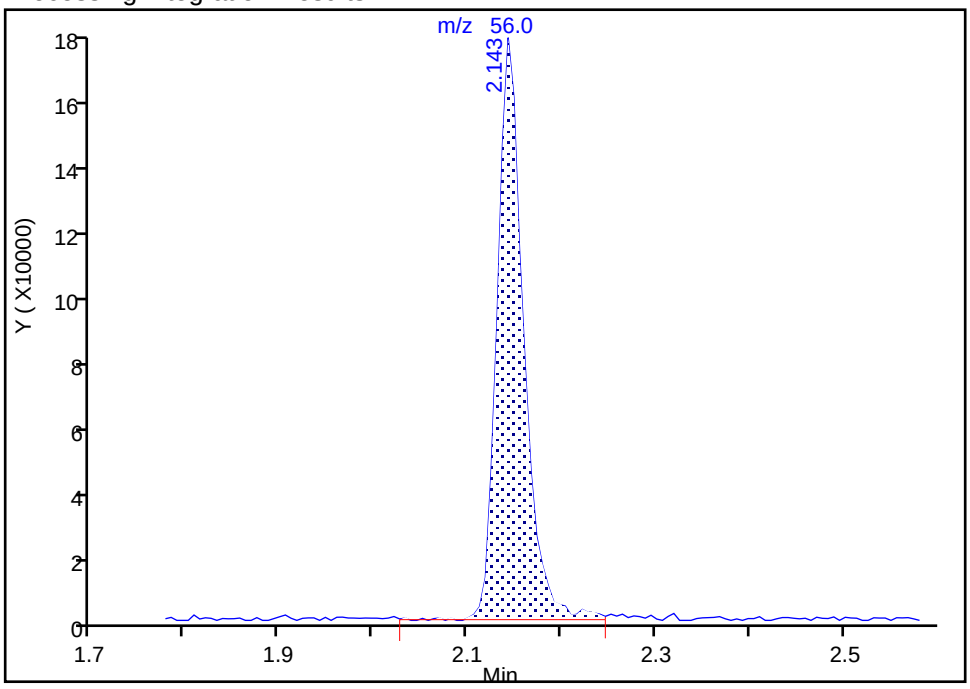
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0910.d
Injection Date: 24-Oct-2024 17:34:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH/AD ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

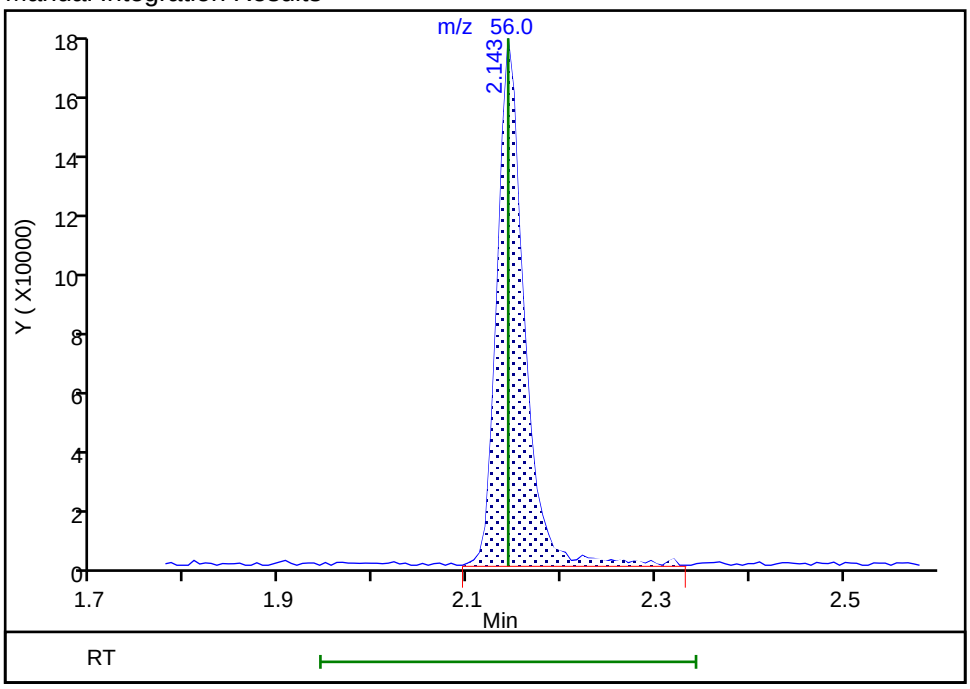
Processing Integration Results

RT: 2.14
Area: 353994
Amount: 218.9224
Amount Units: ug/L



Manual Integration Results

RT: 2.14
Area: 357947
Amount: 221.0582
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:35:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

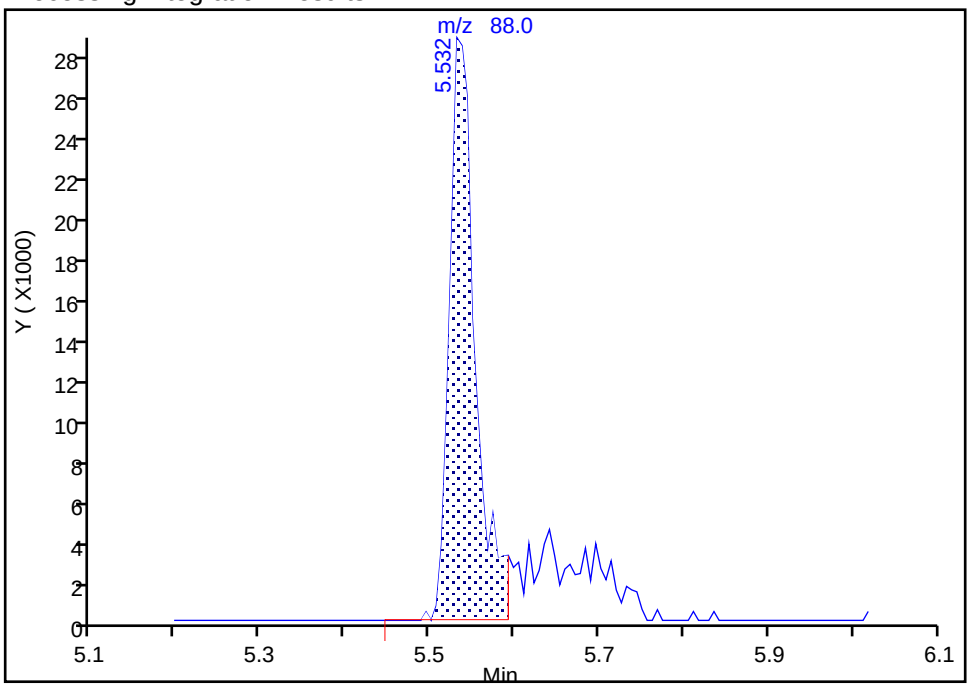
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0910.d
Injection Date: 24-Oct-2024 17:34:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH/AD ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

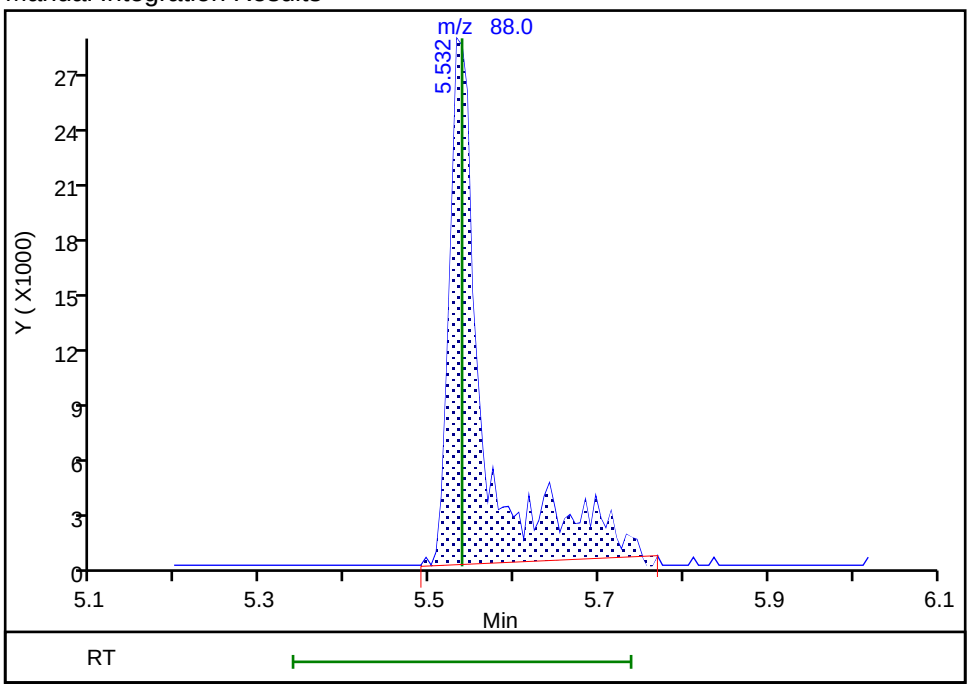
Processing Integration Results

RT: 5.53
Area: 61532
Amount: 958.7400
Amount Units: ug/L



Manual Integration Results

RT: 5.53
Area: 80075
Amount: 1018.0583
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:30:16 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0911.d
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 24-Oct-2024 17:56:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0120783-020
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:59 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:32:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	192925	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.001	89	683407	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	94	353770	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	216413	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	48	327568	25.0	25.1	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	95	794383	25.0	25.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.030	9.030	0.000	91	253835	25.0	25.7	
11 Dichlorodifluoromethane	85	1.048	1.042	0.006	98	903763	100.0	95.1	
13 Chloromethane	50	1.182	1.182	0.000	99	1913196	100.0	97.9	
14 Vinyl chloride	62	1.255	1.255	0.000	98	1022288	100.0	99.1	
144 Butadiene	54	1.267	1.267	0.000	94	1593481	100.0	96.6	
15 Bromomethane	94	1.511	1.504	0.007	92	532093	100.0	90.9	
16 Chloroethane	64	1.565	1.565	0.000	94	641496	100.0	88.7	
17 Dichlorofluoromethane	67	1.748	1.742	0.006	95	1518252	100.0	92.0	
18 Trichlorofluoromethane	101	1.748	1.742	0.006	66	1243999	100.0	97.4	
19 Ethyl ether	59	1.985	1.985	0.000	91	1030037	100.0	98.0	
20 Acrolein	56	2.143	2.143	0.000	98	743794	500.0	461.7	
22 1,1-Dichloroethene	96	2.174	2.174	0.000	89	628725	100.0	95.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	95	650169	100.0	96.3	
23 Acetone	43	2.283	2.283	0.000	97	3081995	500.0	440.4	
24 Iodomethane	142	2.320	2.314	0.006	99	1248048	100.0	100.3	
25 Carbon disulfide	76	2.350	2.350	0.000	98	2305151	100.0	96.8	
27 3-Chloro-1-propene	41	2.520	2.514	0.006	87	2628995	100.0	94.8	
28 Methyl acetate	43	2.563	2.563	0.000	99	3451168	200.0	184.3	
30 Methylene Chloride	84	2.654	2.654	0.000	87	786705	100.0	98.6	
31 2-Methyl-2-propanol	59	2.825	2.825	0.000	98	1810451	1000.0	1008.6	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	93	2791657	100.0	97.7	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	89	783924	100.0	98.5	
34 Acrylonitrile	53	2.922	2.922	0.000	98	8269562	1000.0	962.6	
35 Hexane	57	3.056	3.056	0.000	95	1749657	100.0	98.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	1868833	100.0	101.3	
39 Vinyl acetate	43	3.323	3.323	0.000	96	7606066	200.0	209.0	
42 2,2-Dichloropropane	77	3.762	3.761	0.001	85	1064188	100.0	96.1	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	86	844506	100.0	96.8	
44 2-Butanone (MEK)	43	3.835	3.834	0.000	95	5380853	500.0	470.7	
47 Chlorobromomethane	128	4.023	4.029	-0.006	82	445906	100.0	103.2	
49 Tetrahydrofuran	42	4.035	4.041	-0.006	92	1475644	200.0	176.6	
50 Chloroform	83	4.108	4.108	0.000	93	1395356	100.0	93.6	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	95	1245700	100.0	101.6	
52 Cyclohexane	56	4.212	4.212	0.000	93	2259065	100.0	99.0	
53 Carbon tetrachloride	117	4.339	4.339	0.000	95	1180134	100.0	103.0	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	83	1050394	100.0	100.8	
55 Benzene	78	4.552	4.552	0.000	92	3097127	100.0	99.3	
56 Isobutyl alcohol	43	4.607	4.607	0.000	95	2508225	2500.0	2467.1	
57 1,2-Dichloroethane	62	4.625	4.619	0.006	94	1567767	100.0	97.8	
59 n-Heptane	43	4.747	4.747	0.000	94	2143788	100.0	93.4	
60 Trichloroethene	95	5.155	5.155	0.000	93	802329	100.0	99.8	
62 Methylcyclohexane	83	5.264	5.264	0.000	91	1329501	100.0	101.5	
63 1,2-Dichloropropane	63	5.386	5.392	-0.006	87	990874	100.0	100.2	
64 Dibromomethane	93	5.526	5.526	0.000	96	528308	100.0	93.1	
66 1,4-Dioxane	88	5.532	5.538	-0.006	28	165143	2000.0	2101.0	M
67 Dichlorobromomethane	83	5.684	5.684	0.000	93	1038383	100.0	107.3	
69 2-Chloroethyl vinyl ether	63	5.970	5.970	0.000	83	712216	100.0	103.6	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	82	1333909	100.0	103.9	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	96	3613599	500.0	480.6	
73 Toluene	92	6.371	6.371	0.000	96	1941330	100.0	104.1	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	91	1264234	100.0	108.8	
77 Ethyl methacrylate	69	6.724	6.724	0.000	86	1203486	100.0	103.9	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	94	582206	100.0	100.2	
79 Tetrachloroethene	166	6.895	6.894	0.001	94	784158	100.0	100.3	
80 1,3-Dichloropropane	76	7.004	6.998	0.006	88	1214069	100.0	101.4	
82 2-Hexanone	43	7.083	7.083	0.000	97	8062514	500.0	478.8	
83 Chlorodibromomethane	129	7.235	7.229	0.006	89	858364	100.0	112.2	
84 Ethylene Dibromide	107	7.326	7.320	0.006	99	782843	100.0	102.2	
85 Chlorobenzene	112	7.801	7.801	0.000	91	2129680	100.0	104.4	
88 Ethylbenzene	91	7.898	7.898	0.000	98	3659980	100.0	103.0	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	94	840227	100.0	107.5	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	98	1417186	100.0	101.2	
91 o-Xylene	106	8.440	8.440	0.000	98	1439285	100.0	102.7	
92 Styrene	104	8.476	8.476	0.000	93	2378101	100.0	104.2	
93 Bromoform	173	8.714	8.707	0.007	96	592065	100.0	118.5	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	3434984	100.0	98.0	
97 Bromobenzene	156	9.170	9.170	0.000	91	940341	100.0	103.9	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.261	-0.006	94	1049963	100.0	93.5	
100 N-Propylbenzene	91	9.273	9.273	0.000	99	4280804	100.0	102.8	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	88	349977	100.0	92.2	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	82	663989	100.0	110.4	
102 2-Chlorotoluene	126	9.371	9.377	-0.006	95	864334	100.0	99.2	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	94	3173148	100.0	102.9	
105 4-Chlorotoluene	91	9.492	9.492	0.000	98	2990117	100.0	100.1	
106 tert-Butylbenzene	134	9.802	9.796	0.006	96	674298	100.0	102.6	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	3273916	100.0	100.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.022	10.021	0.001	95	3943300	100.0	101.2	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	97	1722029	100.0	103.0	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	98	3521306	100.0	101.0	
113 1,4-Dichlorobenzene	146	10.241	10.240	0.000	93	1721961	100.0	100.1	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	2996787	100.0	100.1	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	97	1651055	100.0	97.5	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	79	272899	100.0	110.3	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	1192991	100.0	98.0	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	96	547369	100.0	90.2	
121 Naphthalene	128	12.248	12.248	0.000	97	3816424	100.0	101.2	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	95	1168002	100.0	98.7	
S 123 1,3-Dichloropropene, Total	1				0			212.7	
S 124 1,2-Dichloroethene, Total	1				0			195.3	
S 125 Total BTEX	1				0			510.2	
S 126 Xylenes, Total	1				0			203.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00260	Amount Added:	50.00	Units: uL	
GAS CORP mix_00646	Amount Added:	50.00	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

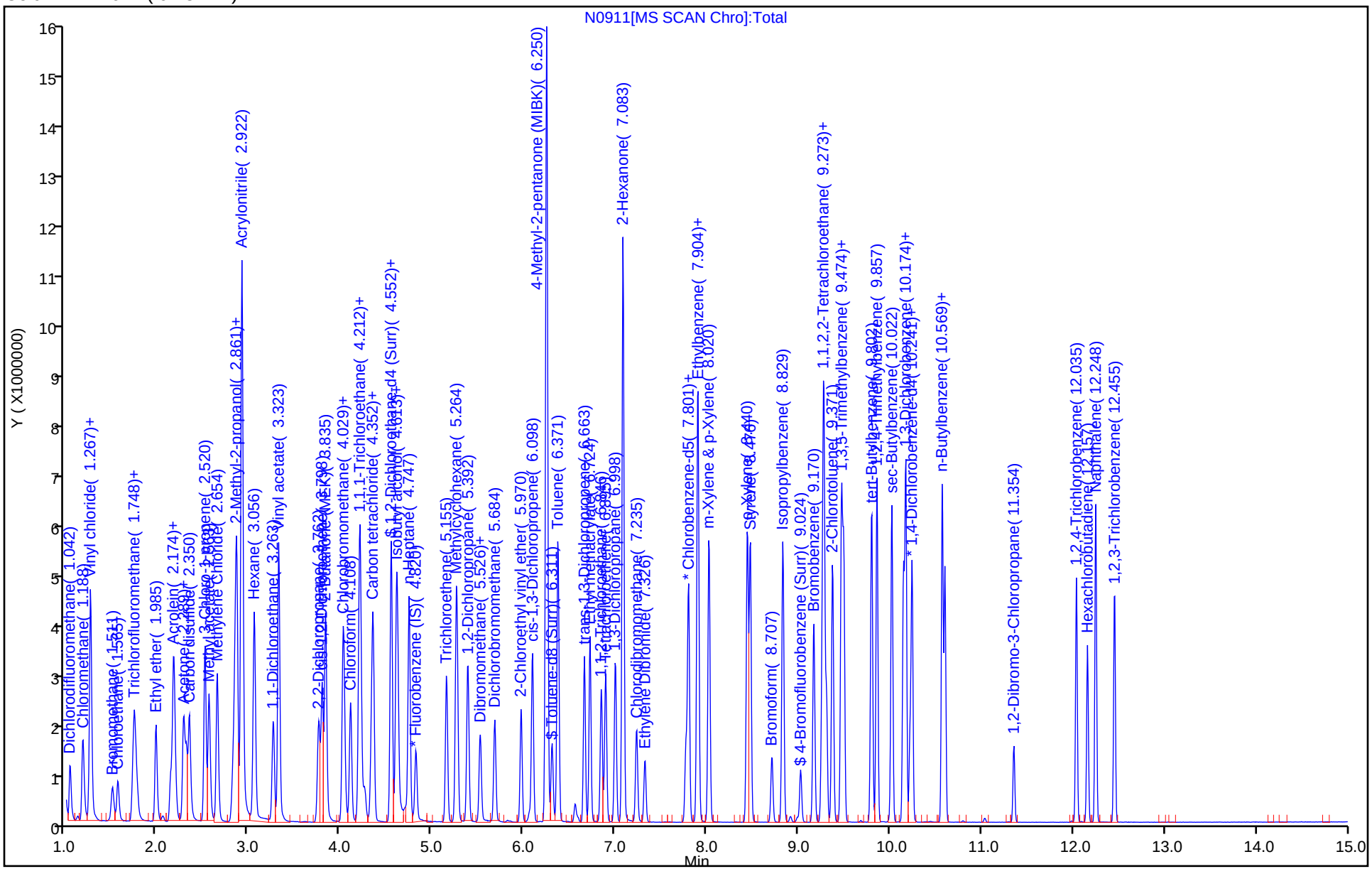
Report Date: 25-Oct-2024 11:17:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0911.d

Injection Date:	24-Oct-2024 17:56:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC 7			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

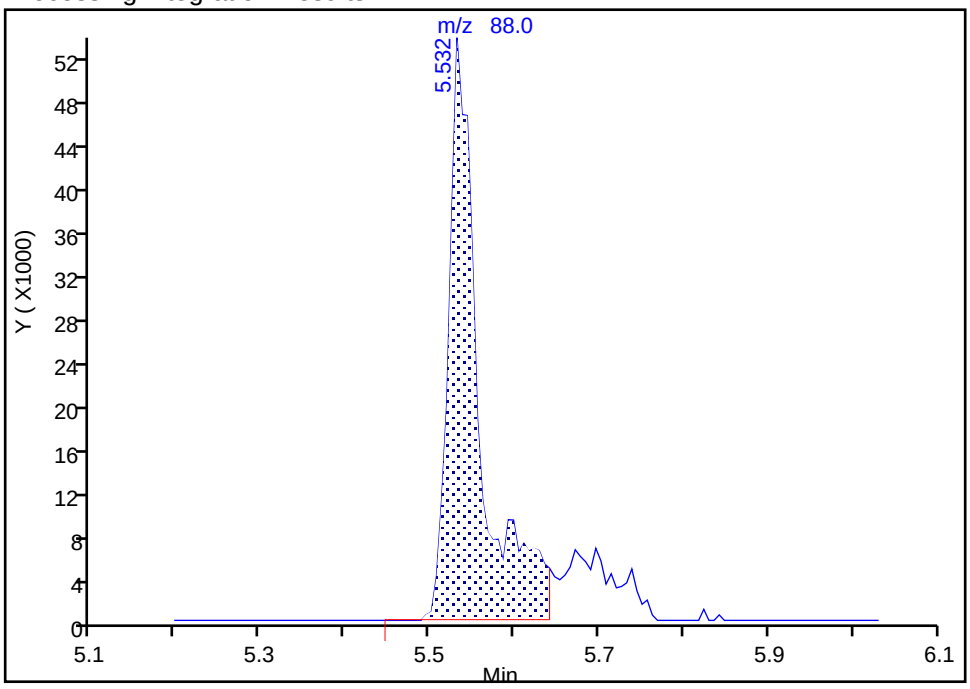
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0911.d
Injection Date: 24-Oct-2024 17:56:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: LH/AD ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

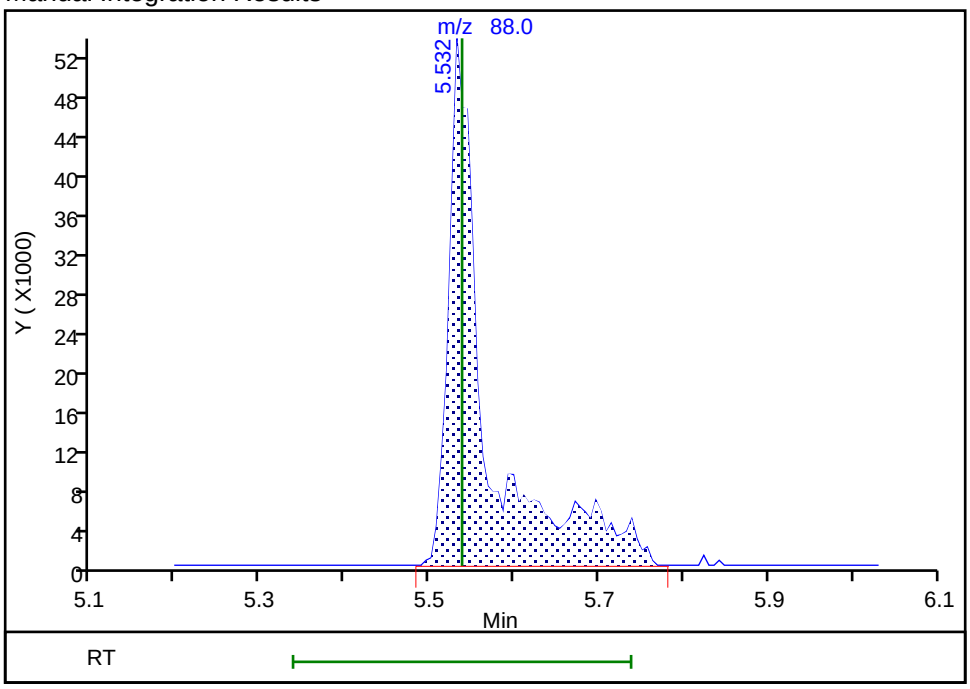
Processing Integration Results

RT: 5.53
Area: 136040
Amount: 2004.9681
Amount Units: ug/L



Manual Integration Results

RT: 5.53
Area: 165143
Amount: 2100.9915
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:31:20 -04:00:00 (UTC)
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

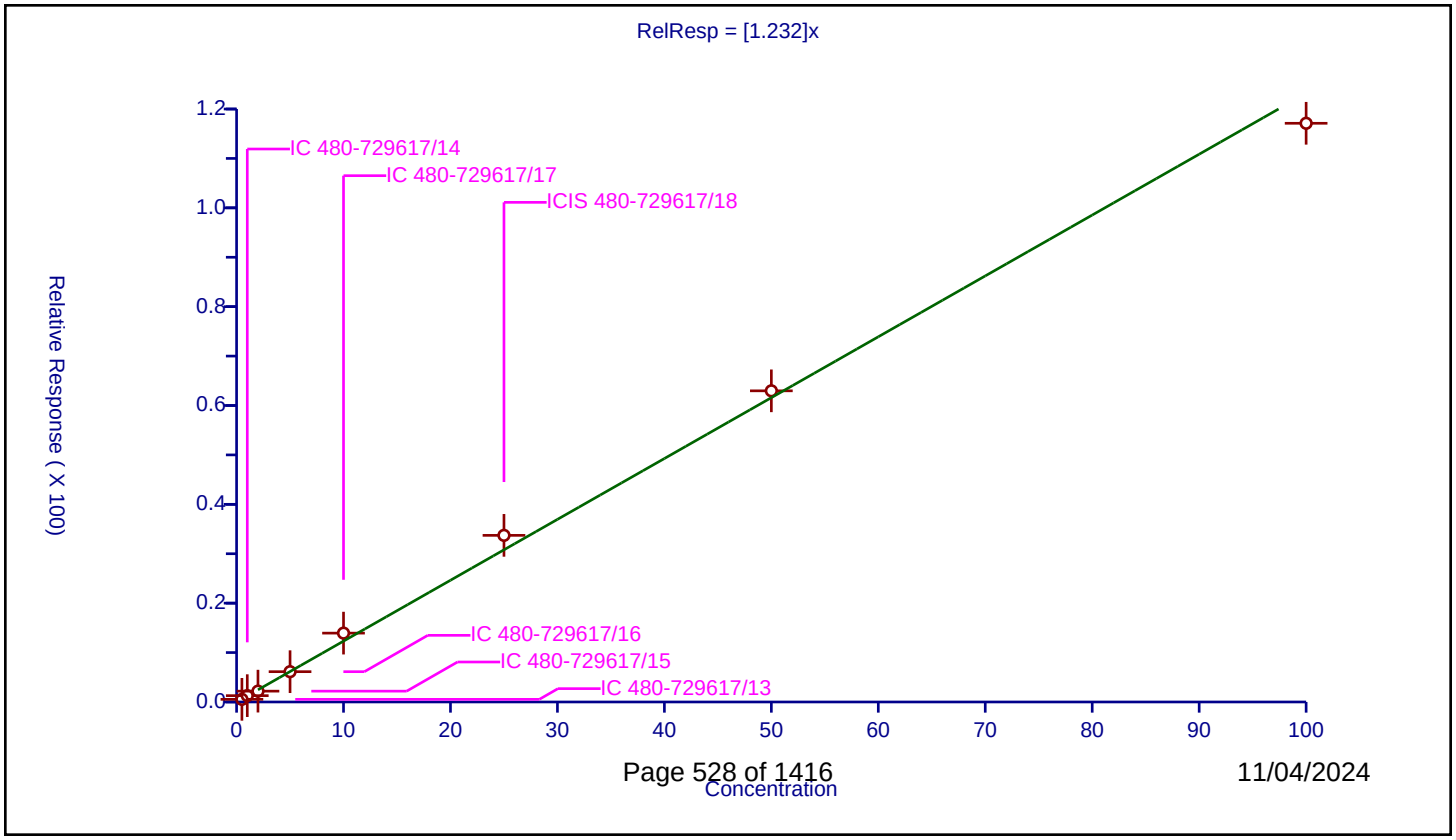
Curve Coefficients

Intercept:	0
Slope:	1.232

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.538499	25.0	183473.0	1.076998	Y
2	IC 480-729617/14	1.0	1.279525	25.0	190051.0	1.279525	Y
3	IC 480-729617/15	2.0	2.195634	25.0	182305.0	1.097817	Y
4	IC 480-729617/16	5.0	6.130946	25.0	187887.0	1.226189	Y
5	IC 480-729617/17	10.0	13.938912	25.0	172865.0	1.393891	Y
6	ICIS 480-729617/18	25.0	33.720768	25.0	186096.0	1.348831	Y
7	IC 480-729617/19	50.0	62.971562	25.0	193930.0	1.259431	Y
8	IC 480-729617/20	100.0	117.113256	25.0	192925.0	1.171133	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

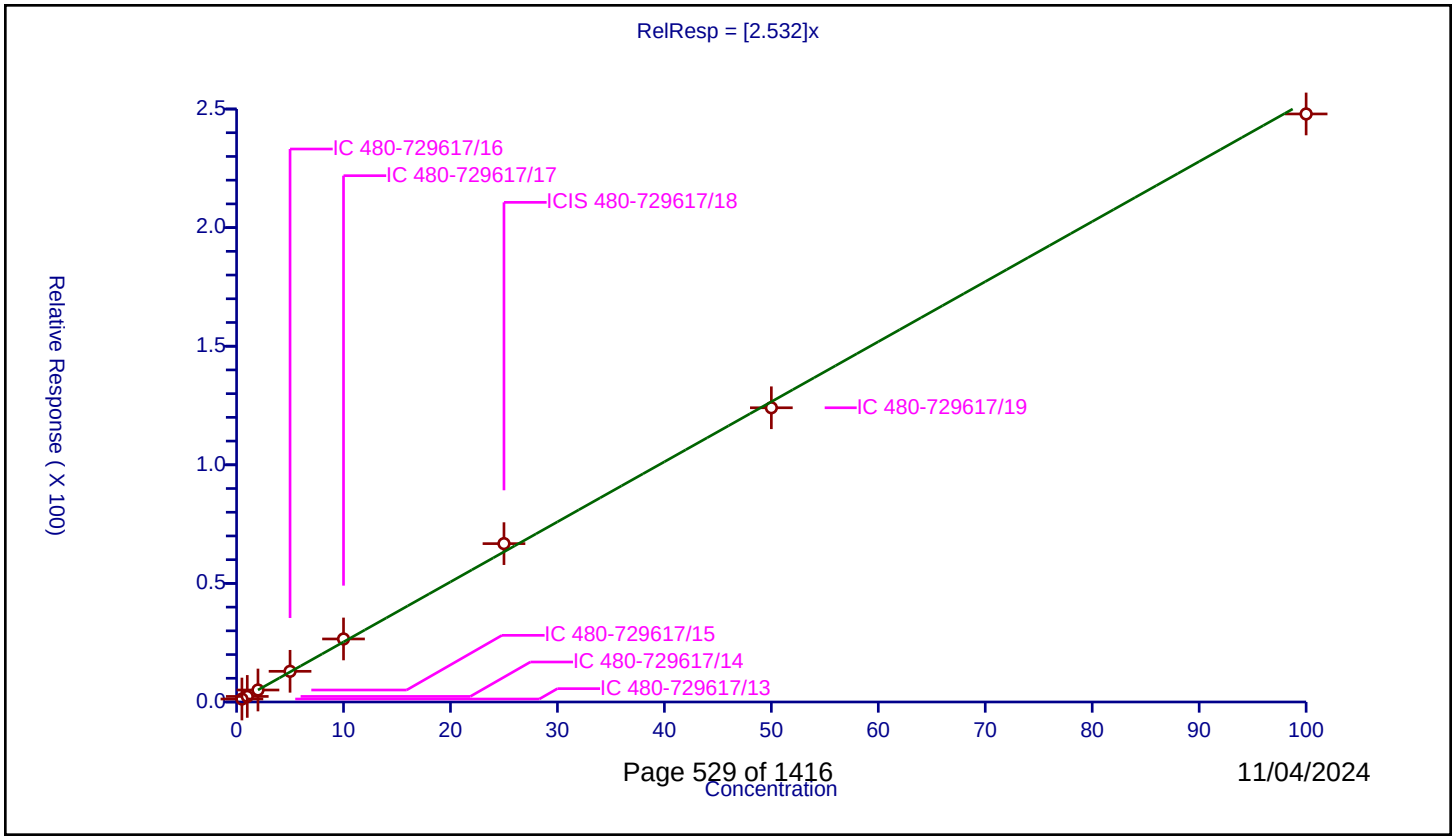
Curve Coefficients

Intercept:	0
Slope:	2.532

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.253182	25.0	183473.0	2.506363	Y
2	IC 480-729617/14	1.0	2.342398	25.0	190051.0	2.342398	Y
3	IC 480-729617/15	2.0	5.058967	25.0	182305.0	2.529484	Y
4	IC 480-729617/16	5.0	12.939559	25.0	187887.0	2.587912	Y
5	IC 480-729617/17	10.0	26.571747	25.0	172865.0	2.657175	Y
6	ICIS 480-729617/18	25.0	66.769033	25.0	186096.0	2.670761	Y
7	IC 480-729617/19	50.0	124.051075	25.0	193930.0	2.481022	Y
8	IC 480-729617/20	100.0	247.919658	25.0	192925.0	2.479197	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

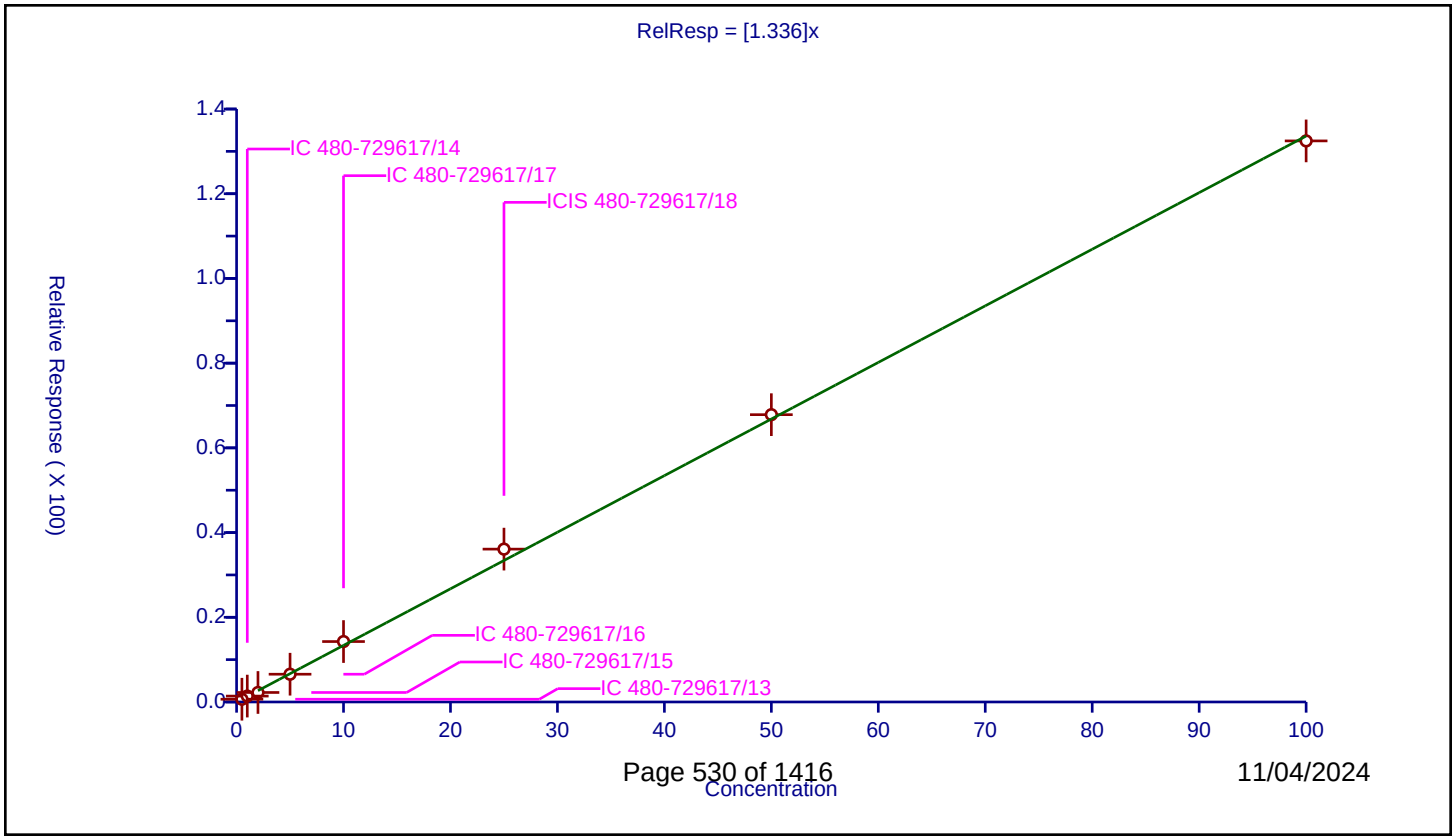
Curve Coefficients

Intercept:	0
Slope:	1.336

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.654592	25.0	183473.0	1.309184	Y
2	IC 480-729617/14	1.0	1.396336	25.0	190051.0	1.396336	Y
3	IC 480-729617/15	2.0	2.241847	25.0	182305.0	1.120924	Y
4	IC 480-729617/16	5.0	6.554472	25.0	187887.0	1.310894	Y
5	IC 480-729617/17	10.0	14.267926	25.0	172865.0	1.426793	Y
6	ICIS 480-729617/18	25.0	36.088632	25.0	186096.0	1.443545	Y
7	IC 480-729617/19	50.0	67.837622	25.0	193930.0	1.356752	Y
8	IC 480-729617/20	100.0	132.472204	25.0	192925.0	1.324722	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

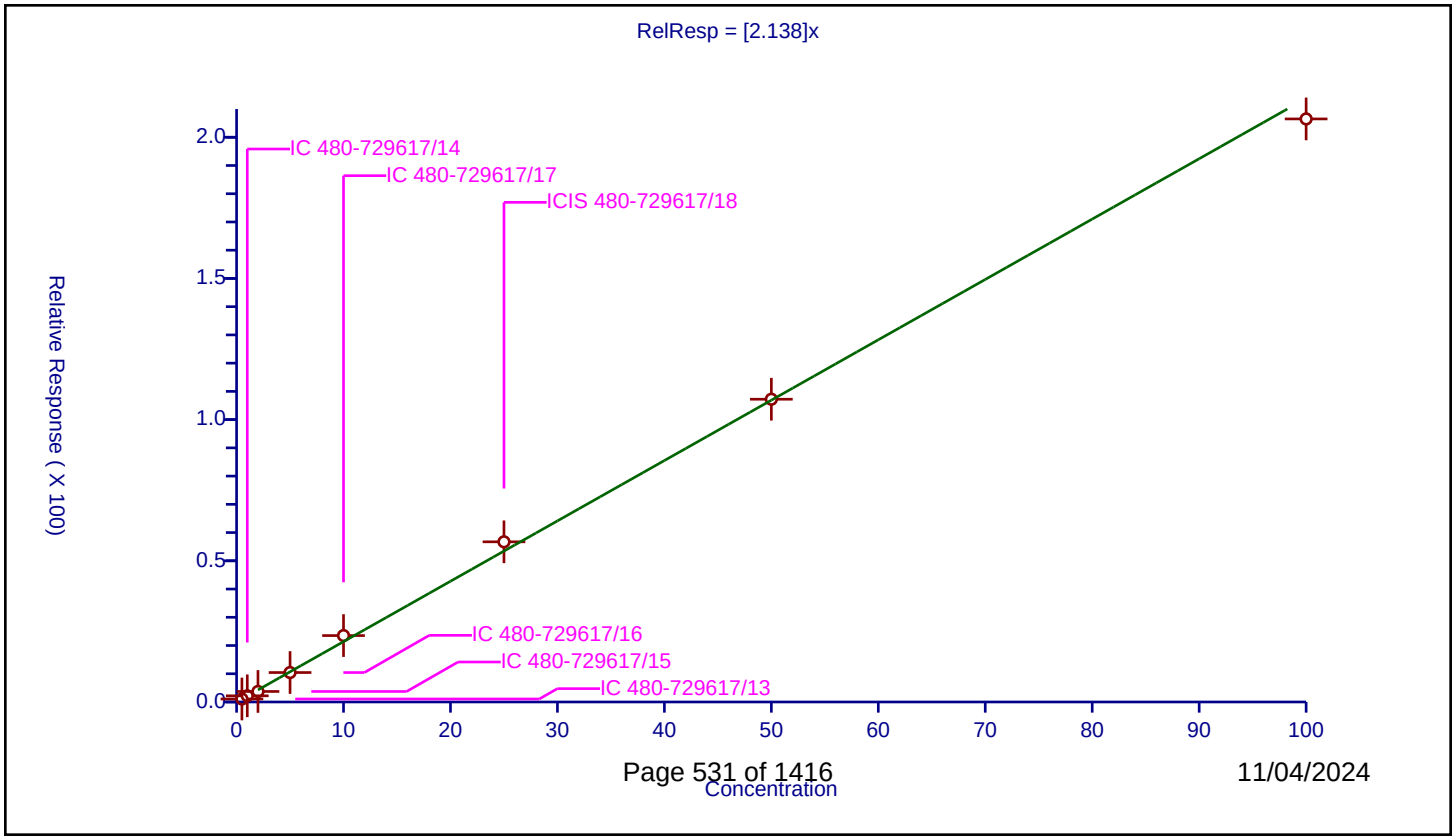
Curve Coefficients

Intercept:	0
Slope:	2.138

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.065143	25.0	183473.0	2.130286	Y
2	IC 480-729617/14	1.0	2.190596	25.0	190051.0	2.190596	Y
3	IC 480-729617/15	2.0	3.728779	25.0	182305.0	1.864389	Y
4	IC 480-729617/16	5.0	10.429407	25.0	187887.0	2.085881	Y
5	IC 480-729617/17	10.0	23.51922	25.0	172865.0	2.351922	Y
6	ICIS 480-729617/18	25.0	56.721531	25.0	186096.0	2.268861	Y
7	IC 480-729617/19	50.0	107.218068	25.0	193930.0	2.144361	Y
8	IC 480-729617/20	100.0	206.489698	25.0	192925.0	2.064897	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

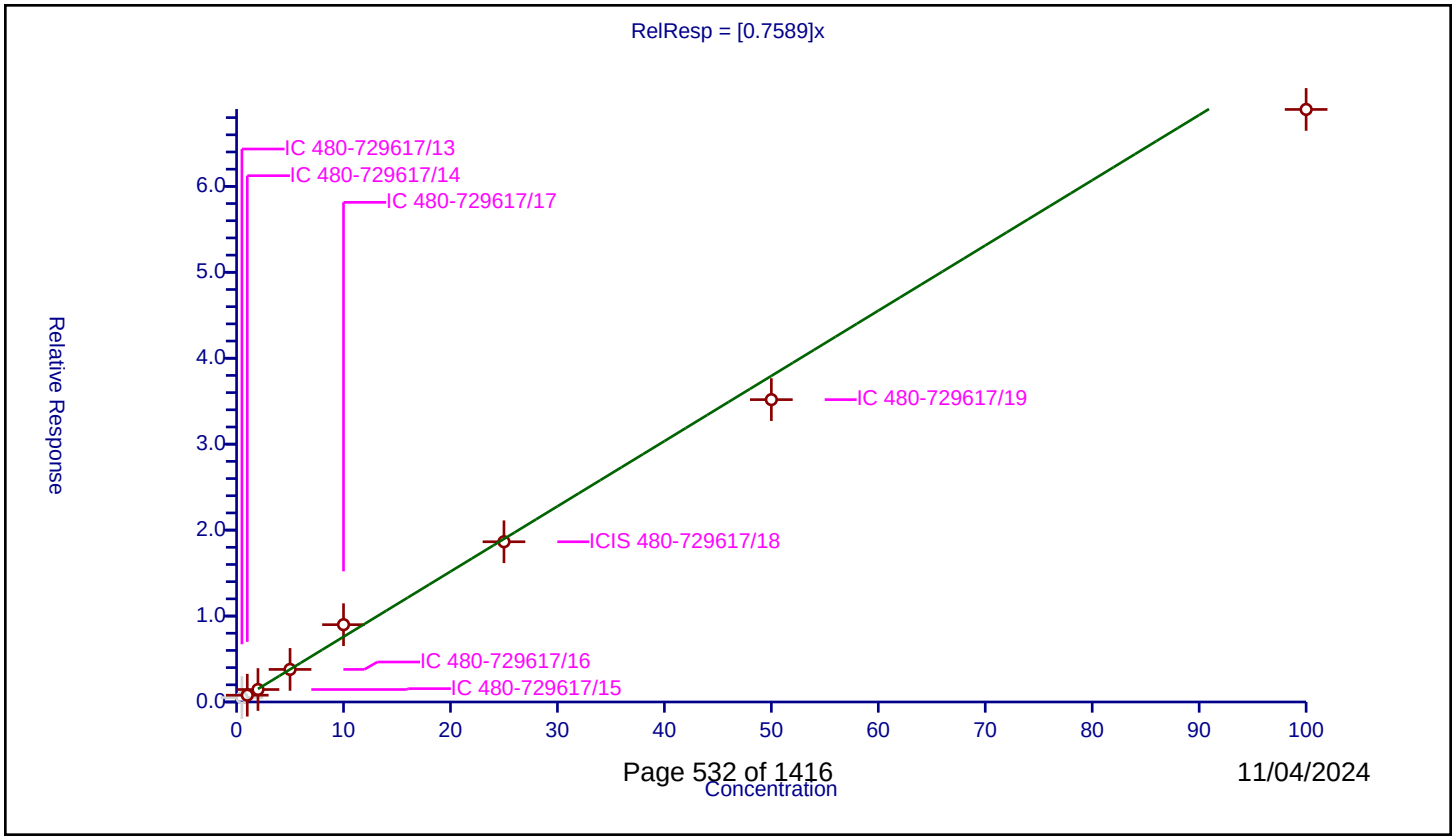
Curve Coefficients

Intercept:	0
Slope:	0.7589

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.513563	25.0	183473.0	1.027127	N
2	IC 480-729617/14	1.0	0.790577	25.0	190051.0	0.790577	Y
3	IC 480-729617/15	2.0	1.449905	25.0	182305.0	0.724953	Y
4	IC 480-729617/16	5.0	3.790709	25.0	187887.0	0.758142	Y
5	IC 480-729617/17	10.0	8.998062	25.0	172865.0	0.899806	Y
6	ICIS 480-729617/18	25.0	18.643335	25.0	186096.0	0.745733	Y
7	IC 480-729617/19	50.0	35.182798	25.0	193930.0	0.703656	Y
8	IC 480-729617/20	100.0	68.950758	25.0	192925.0	0.689508	Y



11/04/2024

Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

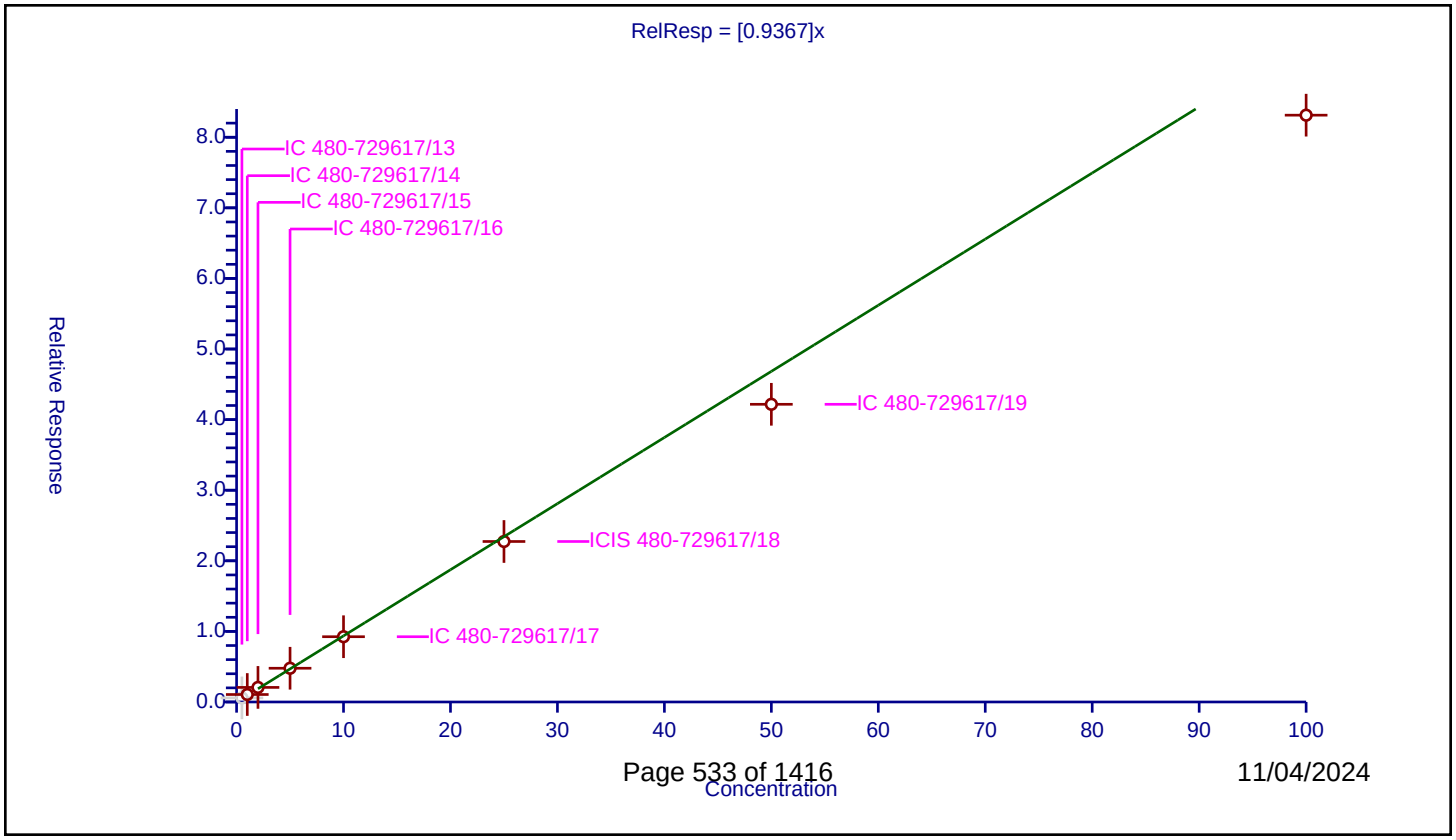
Curve Coefficients

Intercept:	0
Slope:	0.9367

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.580739	25.0	183473.0	1.161479	N
2	IC 480-729617/14	1.0	1.060242	25.0	190051.0	1.060242	Y
3	IC 480-729617/15	2.0	2.063712	25.0	182305.0	1.031856	Y
4	IC 480-729617/16	5.0	4.780267	25.0	187887.0	0.956053	Y
5	IC 480-729617/17	10.0	9.246522	25.0	172865.0	0.924652	Y
6	ICIS 480-729617/18	25.0	22.735309	25.0	186096.0	0.909412	Y
7	IC 480-729617/19	50.0	42.170242	25.0	193930.0	0.843405	Y
8	IC 480-729617/20	100.0	83.12764	25.0	192925.0	0.831276	Y



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Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

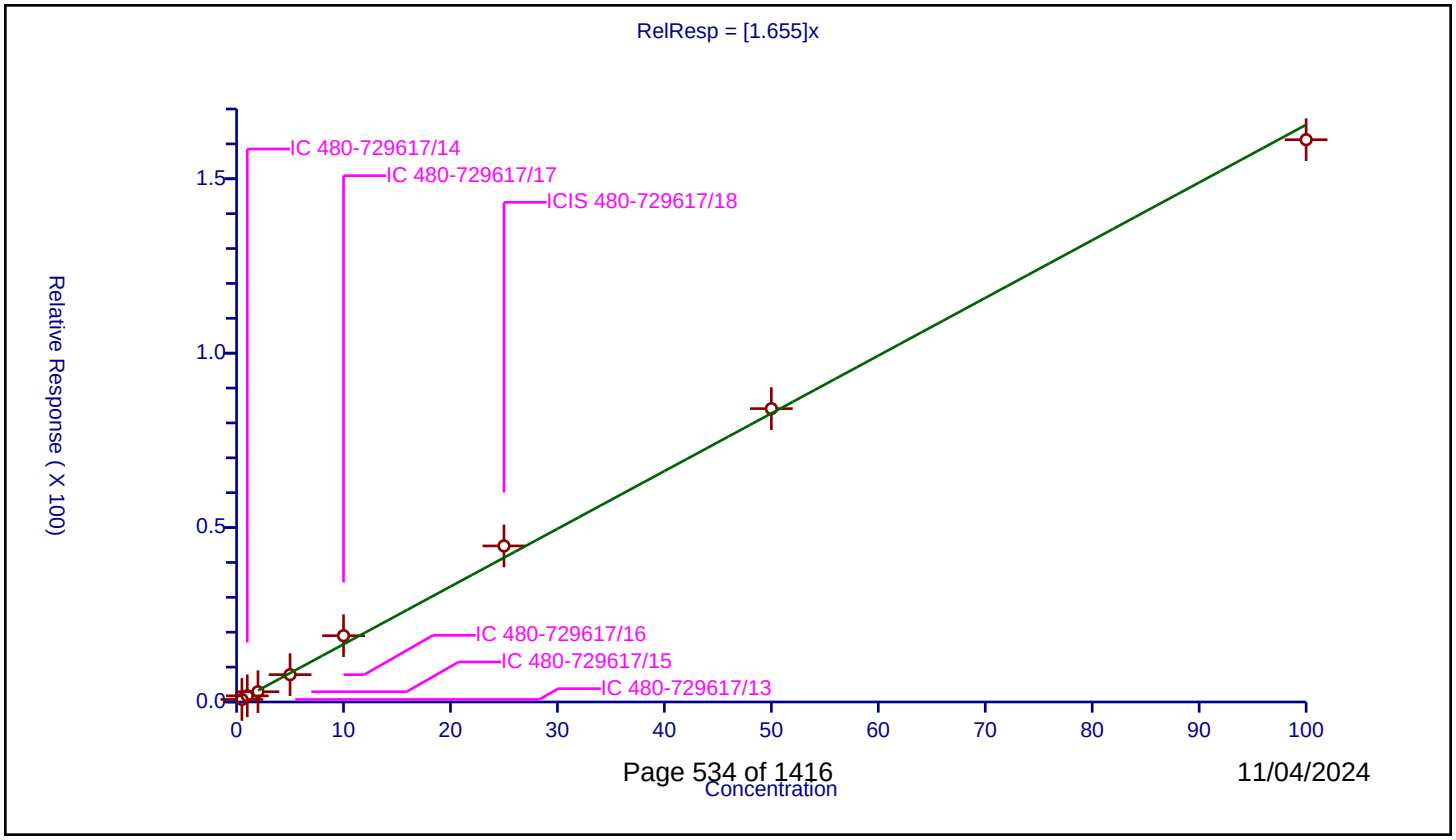
Curve Coefficients

Intercept:	0
Slope:	1.655

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.728581	25.0	183473.0	1.457163	Y
2	IC 480-729617/14	1.0	1.760317	25.0	190051.0	1.760317	Y
3	IC 480-729617/15	2.0	2.940128	25.0	182305.0	1.470064	Y
4	IC 480-729617/16	5.0	7.836625	25.0	187887.0	1.567325	Y
5	IC 480-729617/17	10.0	19.000955	25.0	172865.0	1.900095	Y
6	ICIS 480-729617/18	25.0	44.739006	25.0	186096.0	1.78956	Y
7	IC 480-729617/19	50.0	84.096968	25.0	193930.0	1.681939	Y
8	IC 480-729617/20	100.0	161.20241	25.0	192925.0	1.612024	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

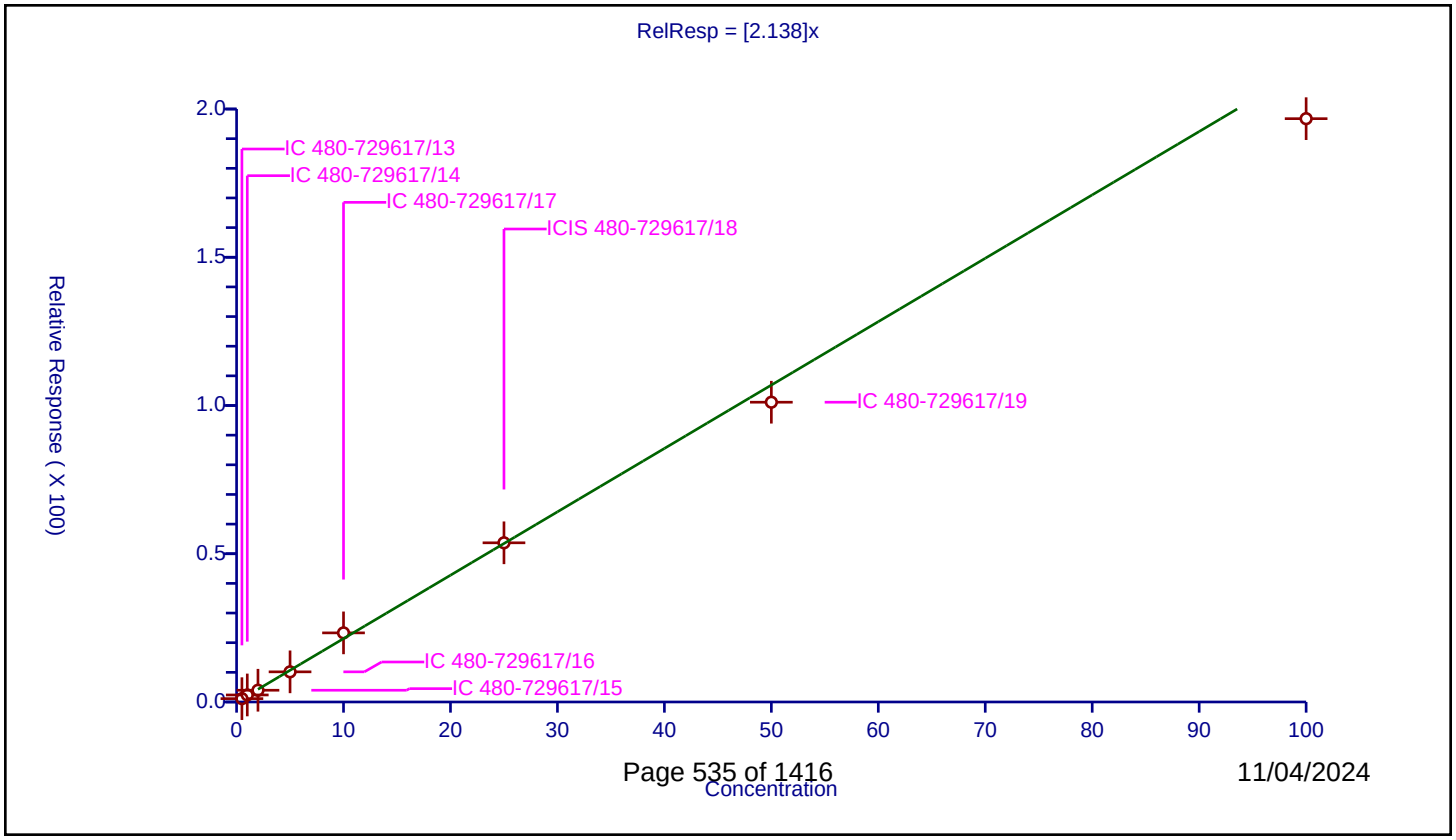
Curve Coefficients

Intercept:	0
Slope:	2.138

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.12428	25.0	183473.0	2.24856	Y
2	IC 480-729617/14	1.0	2.368706	25.0	190051.0	2.368706	Y
3	IC 480-729617/15	2.0	3.966156	25.0	182305.0	1.983078	Y
4	IC 480-729617/16	5.0	10.171539	25.0	187887.0	2.034308	Y
5	IC 480-729617/17	10.0	23.30706	25.0	172865.0	2.330706	Y
6	ICIS 480-729617/18	25.0	53.688956	25.0	186096.0	2.147558	Y
7	IC 480-729617/19	50.0	101.109937	25.0	193930.0	2.022199	Y
8	IC 480-729617/20	100.0	196.741221	25.0	192925.0	1.967412	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

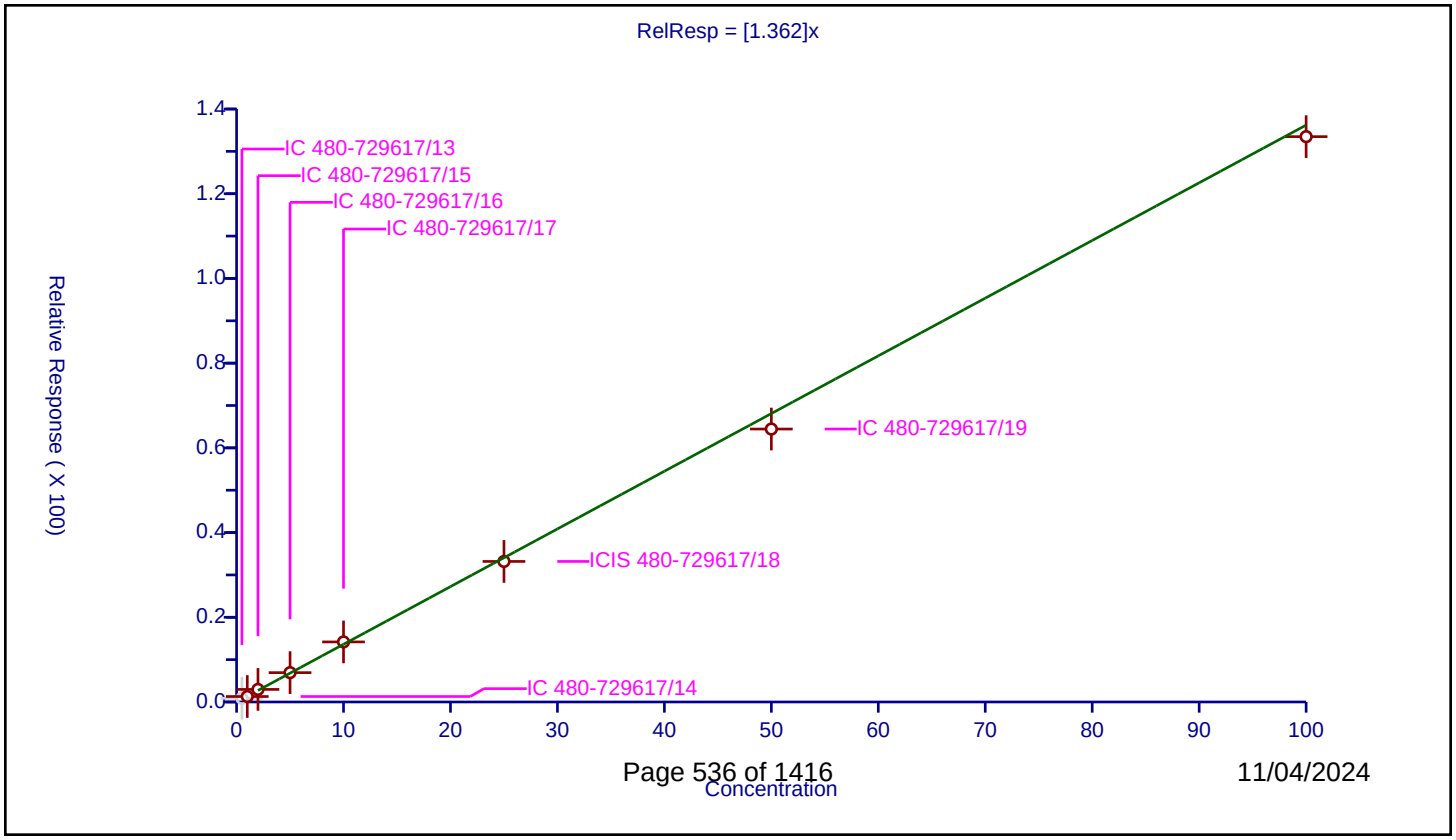
Curve Coefficients

Intercept:	0
Slope:	1.362

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.871382	25.0	183473.0	1.742763	N
2	IC 480-729617/14	1.0	1.296231	25.0	190051.0	1.296231	Y
3	IC 480-729617/15	2.0	2.966183	25.0	182305.0	1.483092	Y
4	IC 480-729617/16	5.0	6.930362	25.0	187887.0	1.386072	Y
5	IC 480-729617/17	10.0	14.178839	25.0	172865.0	1.417884	Y
6	ICIS 480-729617/18	25.0	33.18059	25.0	186096.0	1.327224	Y
7	IC 480-729617/19	50.0	64.442453	25.0	193930.0	1.288849	Y
8	IC 480-729617/20	100.0	133.476351	25.0	192925.0	1.334764	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

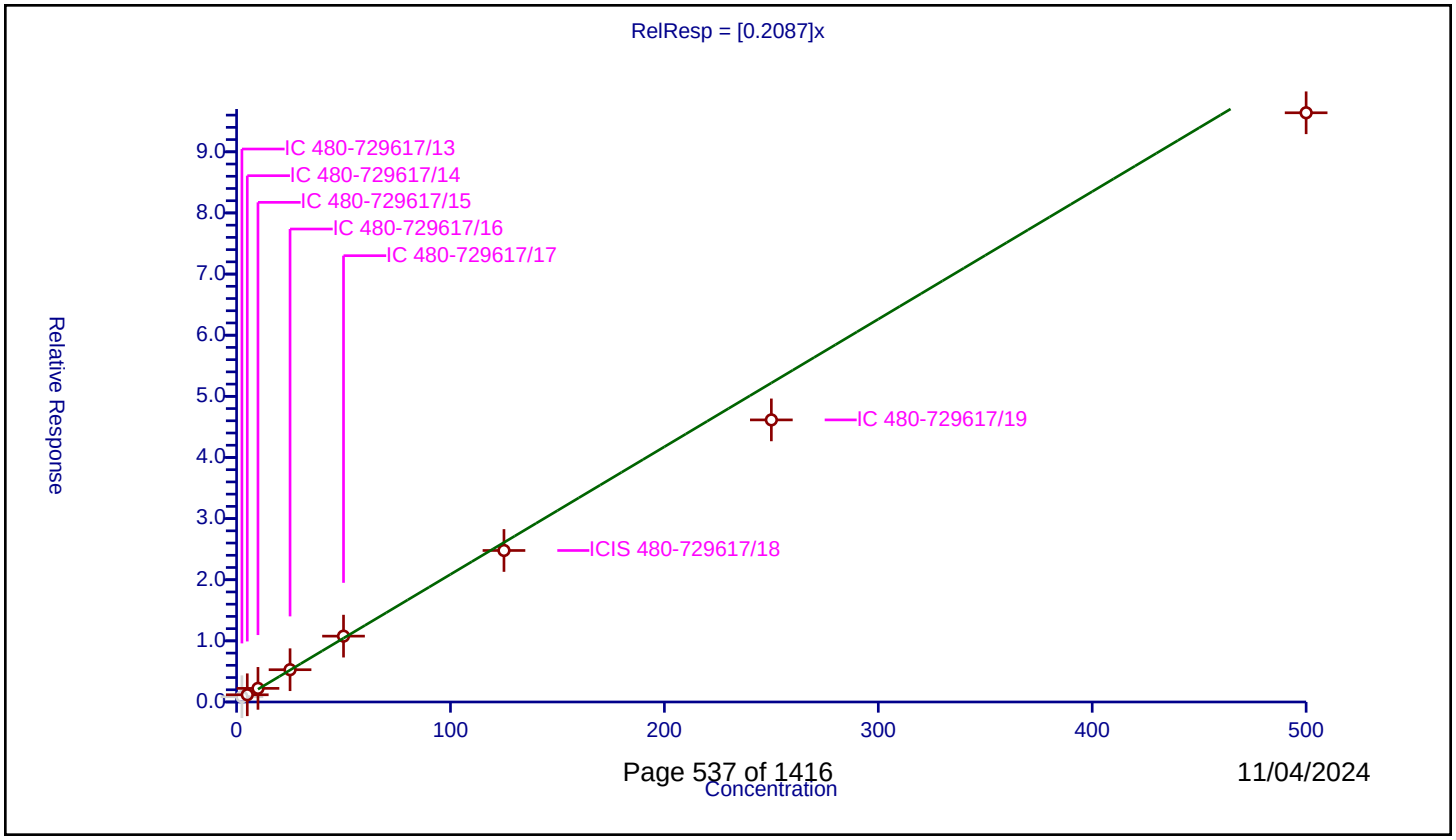
Curve Coefficients

Intercept:	0
Slope:	0.2087

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	2.5	0.859391	25.0	183473.0	0.343756	N
2	IC 480-729617/14	5.0	1.180999	25.0	190051.0	0.2362	Y
3	IC 480-729617/15	10.0	2.226763	25.0	182305.0	0.222676	Y
4	IC 480-729617/16	25.0	5.280568	25.0	187887.0	0.211223	Y
5	IC 480-729617/17	50.0	10.773436	25.0	172865.0	0.215469	Y
6	ICIS 480-729617/18	125.0	24.784251	25.0	186096.0	0.198274	Y
7	IC 480-729617/19	250.0	46.143841	25.0	193930.0	0.184575	Y
8	IC 480-729617/20	500.0	96.383828	25.0	192925.0	0.192768	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

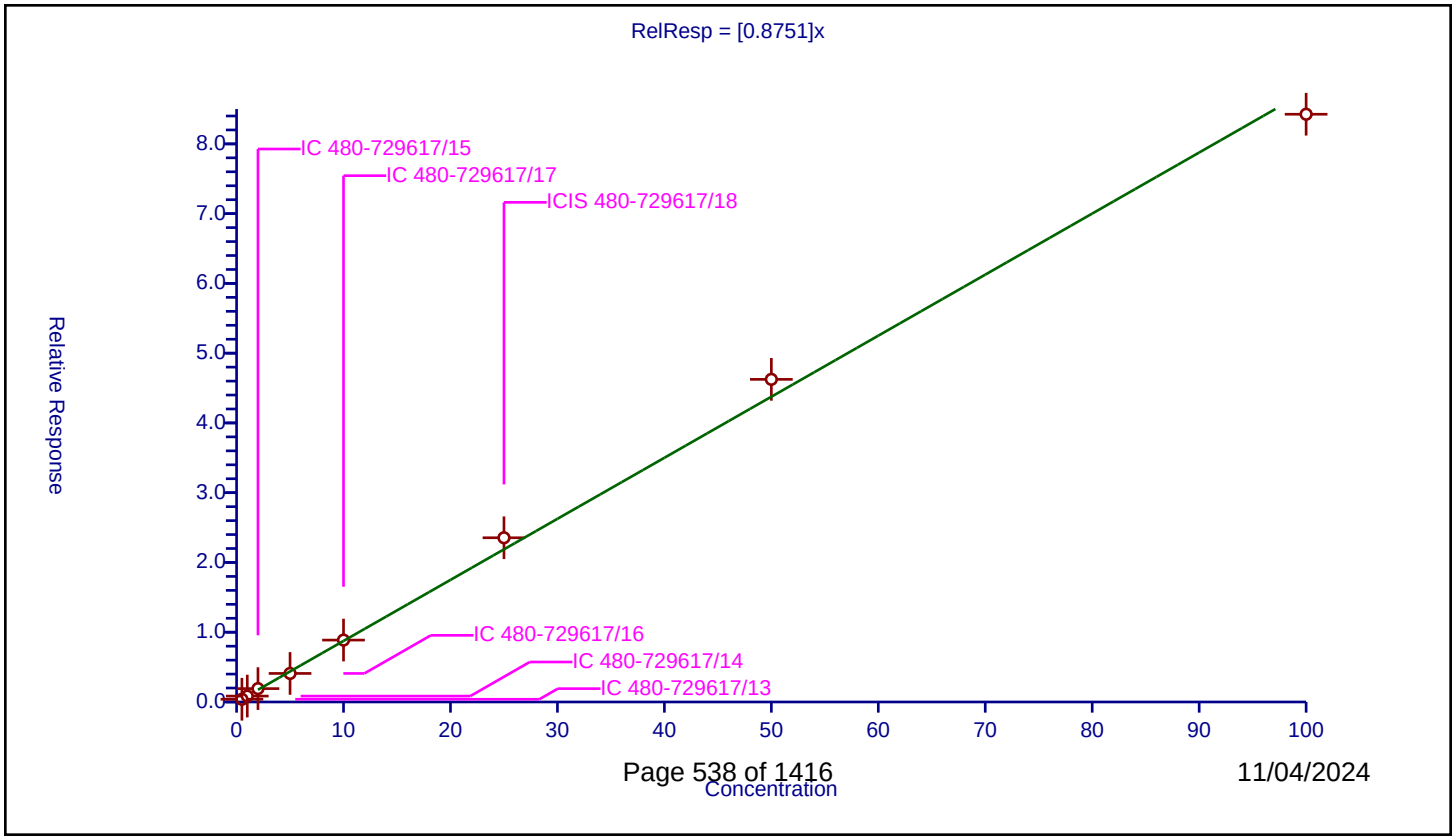
Curve Coefficients

Intercept:	0
Slope:	0.8751

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.391066	25.0	183473.0	0.782131	Y
2	IC 480-729617/14	1.0	0.846746	25.0	190051.0	0.846746	Y
3	IC 480-729617/15	2.0	1.915197	25.0	182305.0	0.957599	Y
4	IC 480-729617/16	5.0	4.091422	25.0	187887.0	0.818284	Y
5	IC 480-729617/17	10.0	8.872241	25.0	172865.0	0.887224	Y
6	ICIS 480-729617/18	25.0	23.541344	25.0	186096.0	0.941654	Y
7	IC 480-729617/19	50.0	46.246584	25.0	193930.0	0.924932	Y
8	IC 480-729617/20	100.0	84.251523	25.0	192925.0	0.842515	Y



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Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

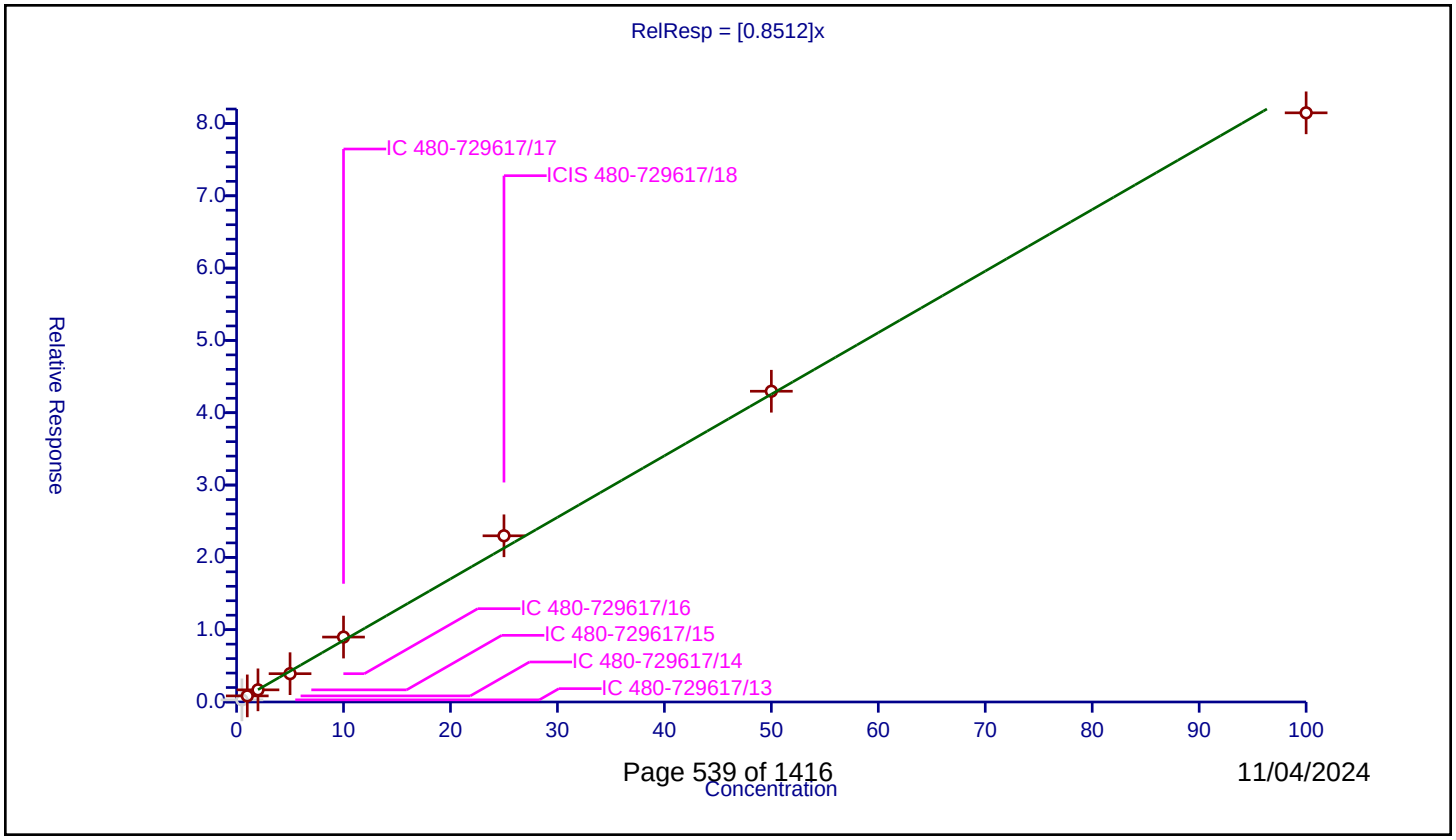
Curve Coefficients

Intercept:	0
Slope:	0.8512

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.295139	25.0	183473.0	0.590278	N
2	IC 480-729617/14	1.0	0.843852	25.0	190051.0	0.843852	Y
3	IC 480-729617/15	2.0	1.680289	25.0	182305.0	0.840144	Y
4	IC 480-729617/16	5.0	3.915518	25.0	187887.0	0.783104	Y
5	IC 480-729617/17	10.0	8.977237	25.0	172865.0	0.897724	Y
6	ICIS 480-729617/18	25.0	22.983702	25.0	186096.0	0.919348	Y
7	IC 480-729617/19	50.0	42.972464	25.0	193930.0	0.859449	Y
8	IC 480-729617/20	100.0	81.472723	25.0	192925.0	0.814727	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

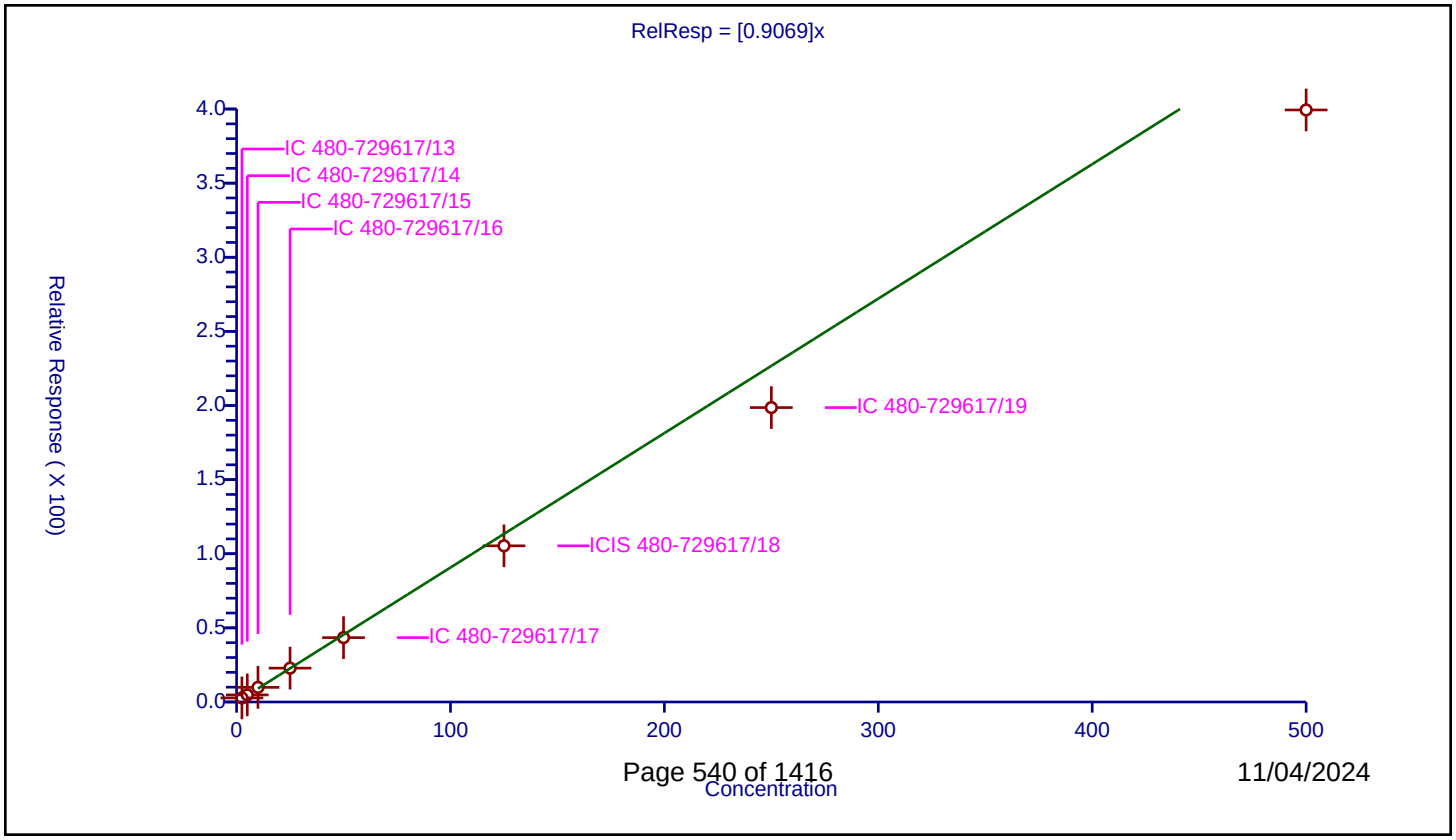
Curve Coefficients

Intercept:	0
Slope:	0.9069

Error Coefficients

Relative Standard Deviation:	11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	2.5	2.742365	25.0	183473.0	1.096946	Y
2	IC 480-729617/14	5.0	4.774113	25.0	190051.0	0.954823	Y
3	IC 480-729617/15	10.0	9.862044	25.0	182305.0	0.986204	Y
4	IC 480-729617/16	25.0	22.833671	25.0	187887.0	0.913347	Y
5	IC 480-729617/17	50.0	43.415382	25.0	172865.0	0.868308	Y
6	ICIS 480-729617/18	125.0	105.345091	25.0	186096.0	0.842761	Y
7	IC 480-729617/19	250.0	198.593307	25.0	193930.0	0.794373	Y
8	IC 480-729617/20	500.0	399.377349	25.0	192925.0	0.798755	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

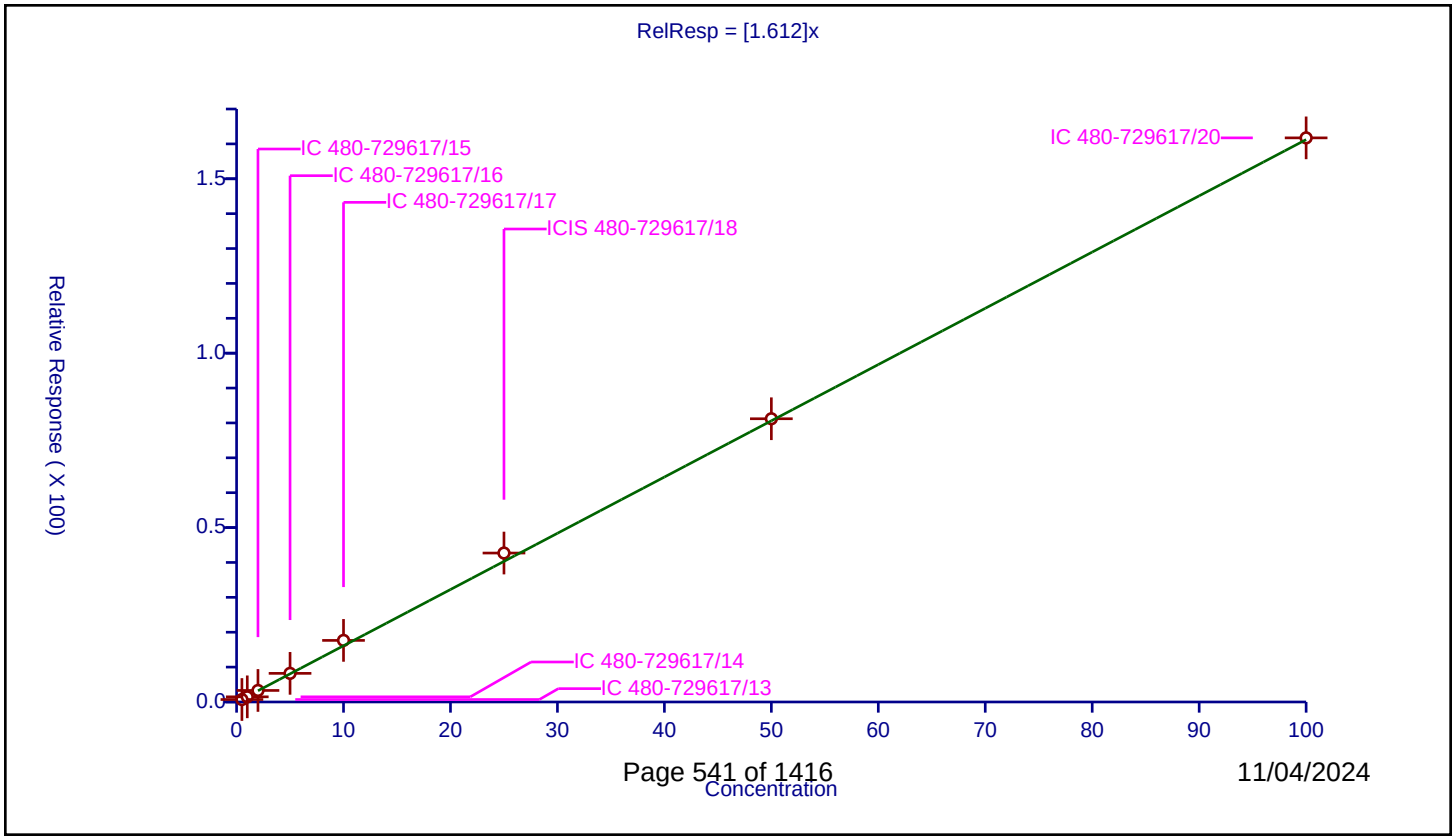
Curve Coefficients

Intercept:	0
Slope:	1.612

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.7046	25.0	183473.0	1.409199	Y
2	IC 480-729617/14	1.0	1.479208	25.0	190051.0	1.479208	Y
3	IC 480-729617/15	2.0	3.305724	25.0	182305.0	1.652862	Y
4	IC 480-729617/16	5.0	8.210254	25.0	187887.0	1.642051	Y
5	IC 480-729617/17	10.0	17.656842	25.0	172865.0	1.765684	Y
6	ICIS 480-729617/18	25.0	42.699601	25.0	186096.0	1.707984	Y
7	IC 480-729617/19	50.0	81.199015	25.0	193930.0	1.62398	Y
8	IC 480-729617/20	100.0	161.727096	25.0	192925.0	1.617271	Y



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Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

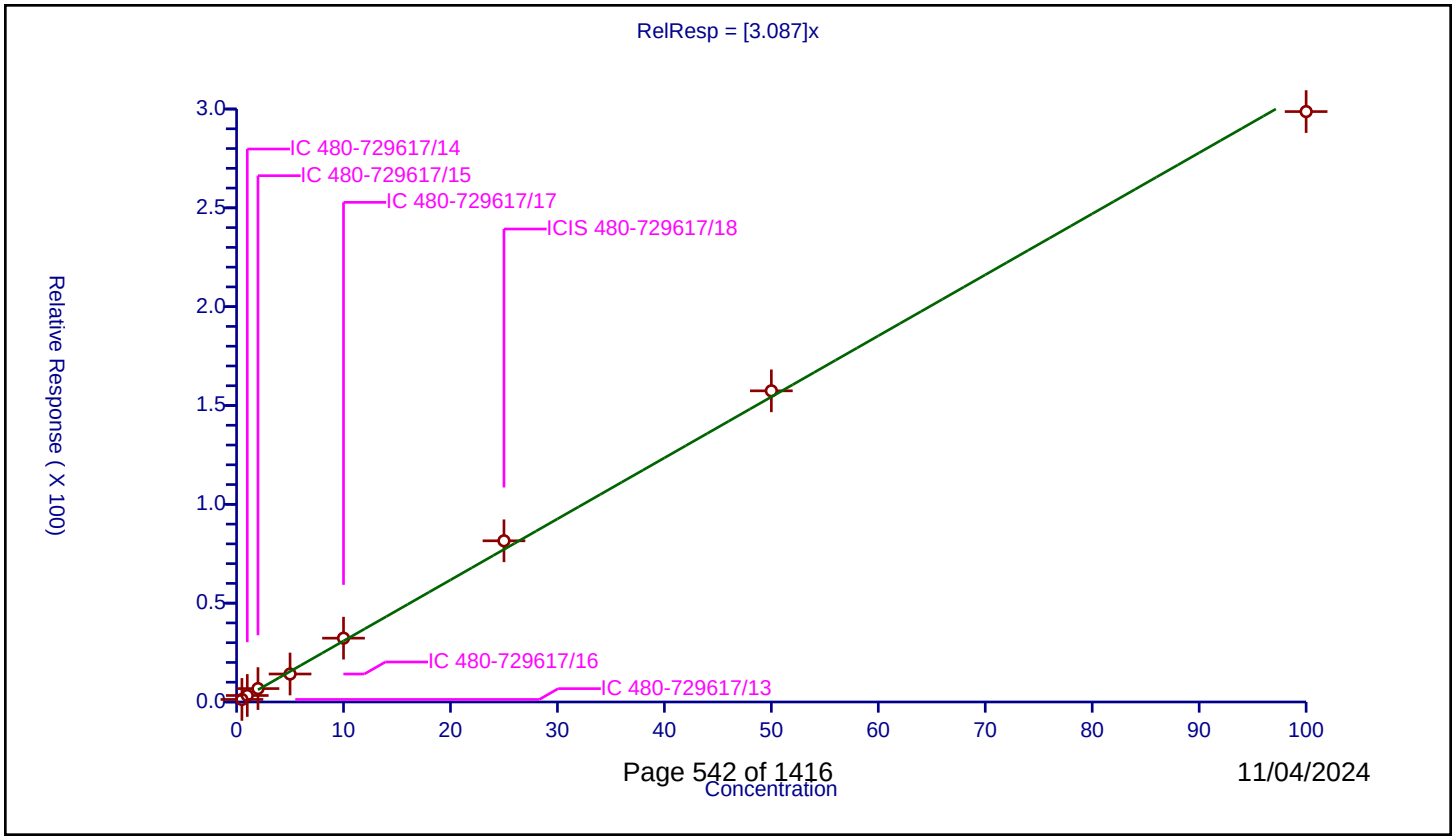
Curve Coefficients

Intercept:	0
Slope:	3.087

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.282614	25.0	183473.0	2.565228	Y
2	IC 480-729617/14	1.0	3.283855	25.0	190051.0	3.283855	Y
3	IC 480-729617/15	2.0	6.783687	25.0	182305.0	3.391843	Y
4	IC 480-729617/16	5.0	14.157845	25.0	187887.0	2.831569	Y
5	IC 480-729617/17	10.0	32.2869	25.0	172865.0	3.22869	Y
6	ICIS 480-729617/18	25.0	81.551457	25.0	186096.0	3.262058	Y
7	IC 480-729617/19	50.0	157.421879	25.0	193930.0	3.148438	Y
8	IC 480-729617/20	100.0	298.710768	25.0	192925.0	2.987108	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

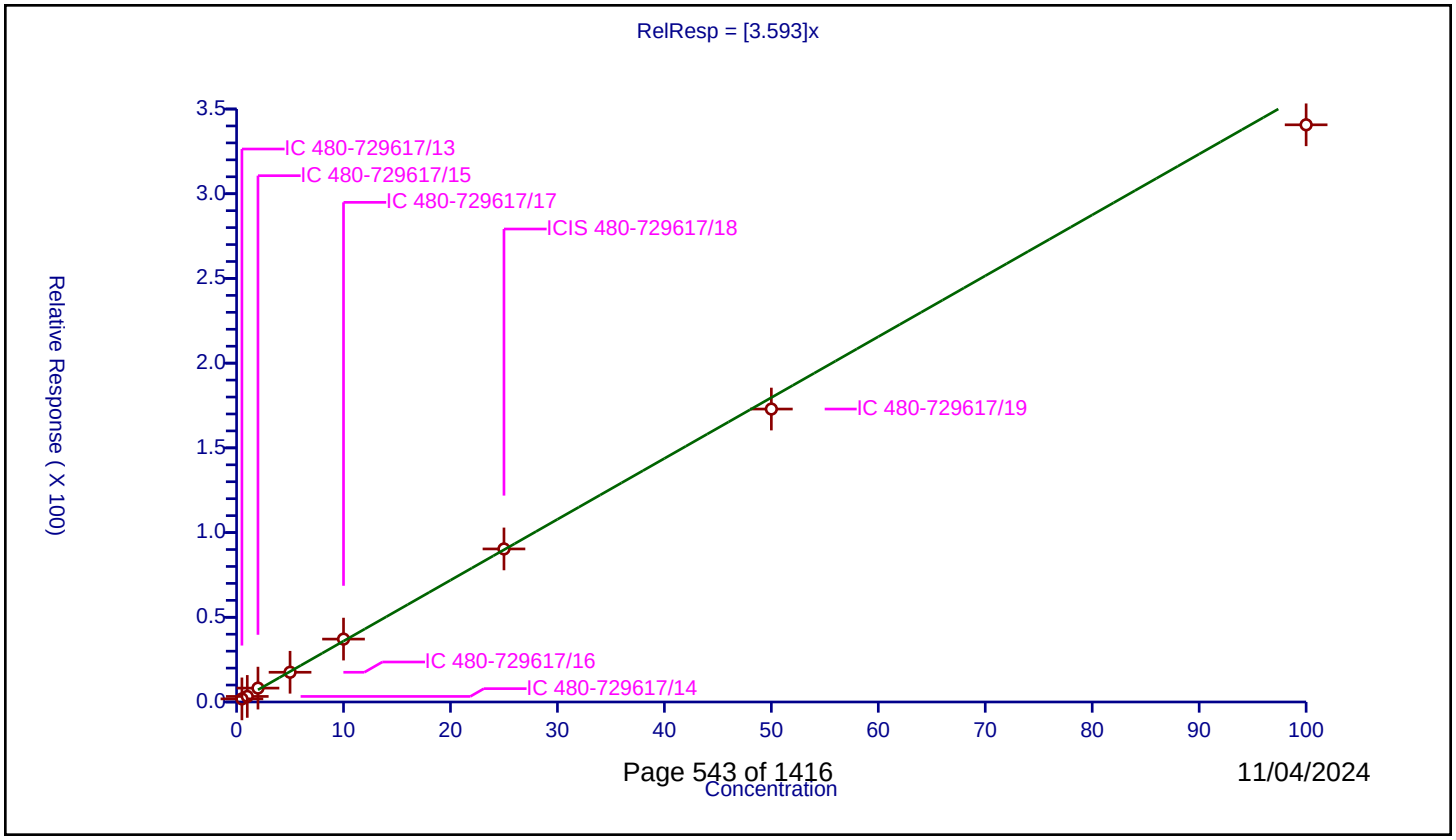
Curve Coefficients

Intercept:	0
Slope:	3.593

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.834194	25.0	183473.0	3.668387	Y
2	IC 480-729617/14	1.0	3.284513	25.0	190051.0	3.284513	Y
3	IC 480-729617/15	2.0	8.190121	25.0	182305.0	4.09506	Y
4	IC 480-729617/16	5.0	17.546451	25.0	187887.0	3.50929	Y
5	IC 480-729617/17	10.0	37.119139	25.0	172865.0	3.711914	Y
6	ICIS 480-729617/18	25.0	90.332678	25.0	186096.0	3.613307	Y
7	IC 480-729617/19	50.0	172.906977	25.0	193930.0	3.45814	Y
8	IC 480-729617/20	100.0	340.675781	25.0	192925.0	3.406758	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

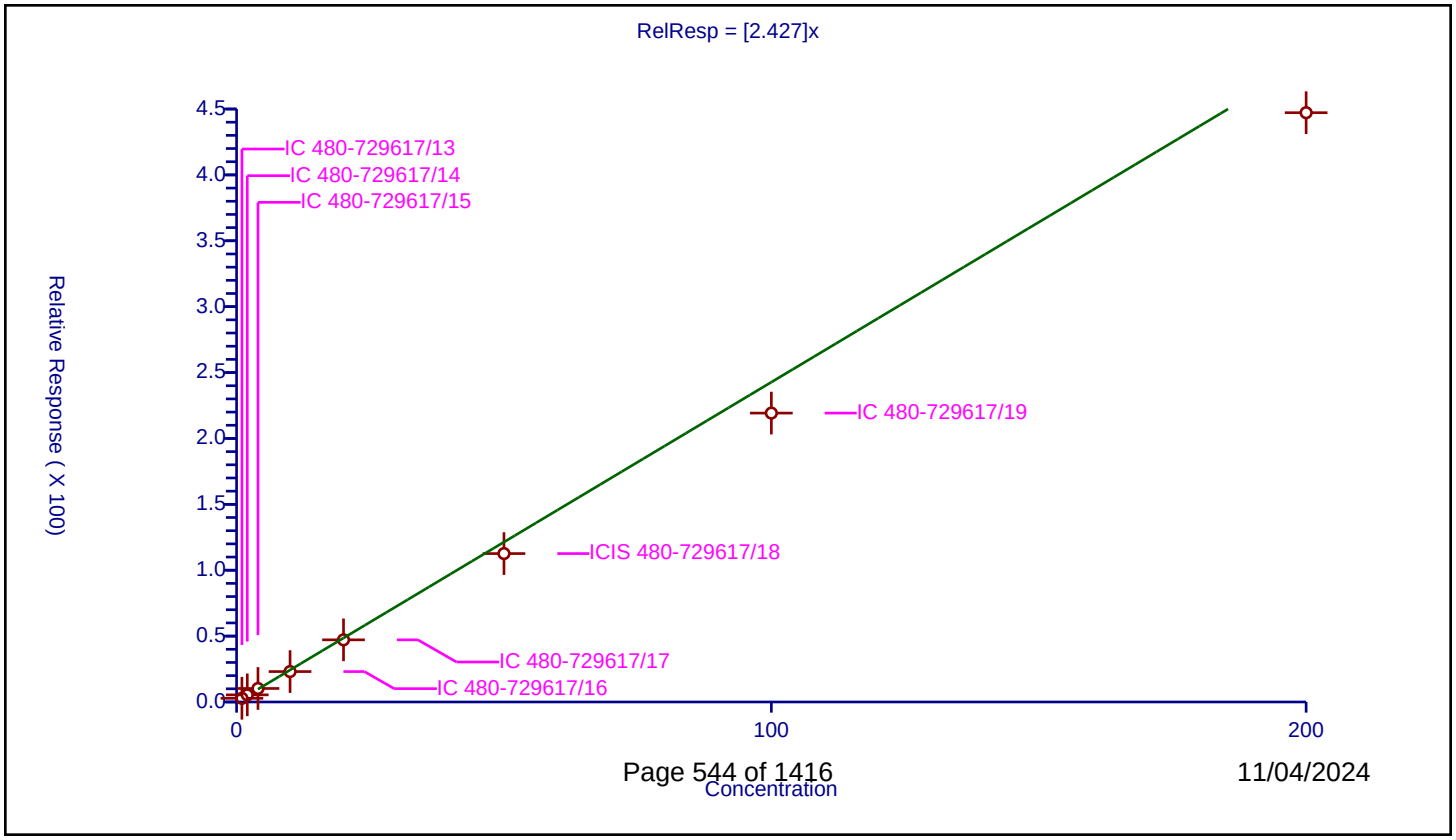
Curve Coefficients

Intercept:	0
Slope:	2.427

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	1.0	2.805726	25.0	183473.0	2.805726	Y
2	IC 480-729617/14	2.0	5.407233	25.0	190051.0	2.703616	Y
3	IC 480-729617/15	4.0	10.240942	25.0	182305.0	2.560236	Y
4	IC 480-729617/16	10.0	23.08156	25.0	187887.0	2.308156	Y
5	IC 480-729617/17	20.0	47.161079	25.0	172865.0	2.358054	Y
6	ICIS 480-729617/18	50.0	112.632593	25.0	186096.0	2.252652	Y
7	IC 480-729617/19	100.0	219.232713	25.0	193930.0	2.192327	Y
8	IC 480-729617/20	200.0	447.216276	25.0	192925.0	2.236081	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

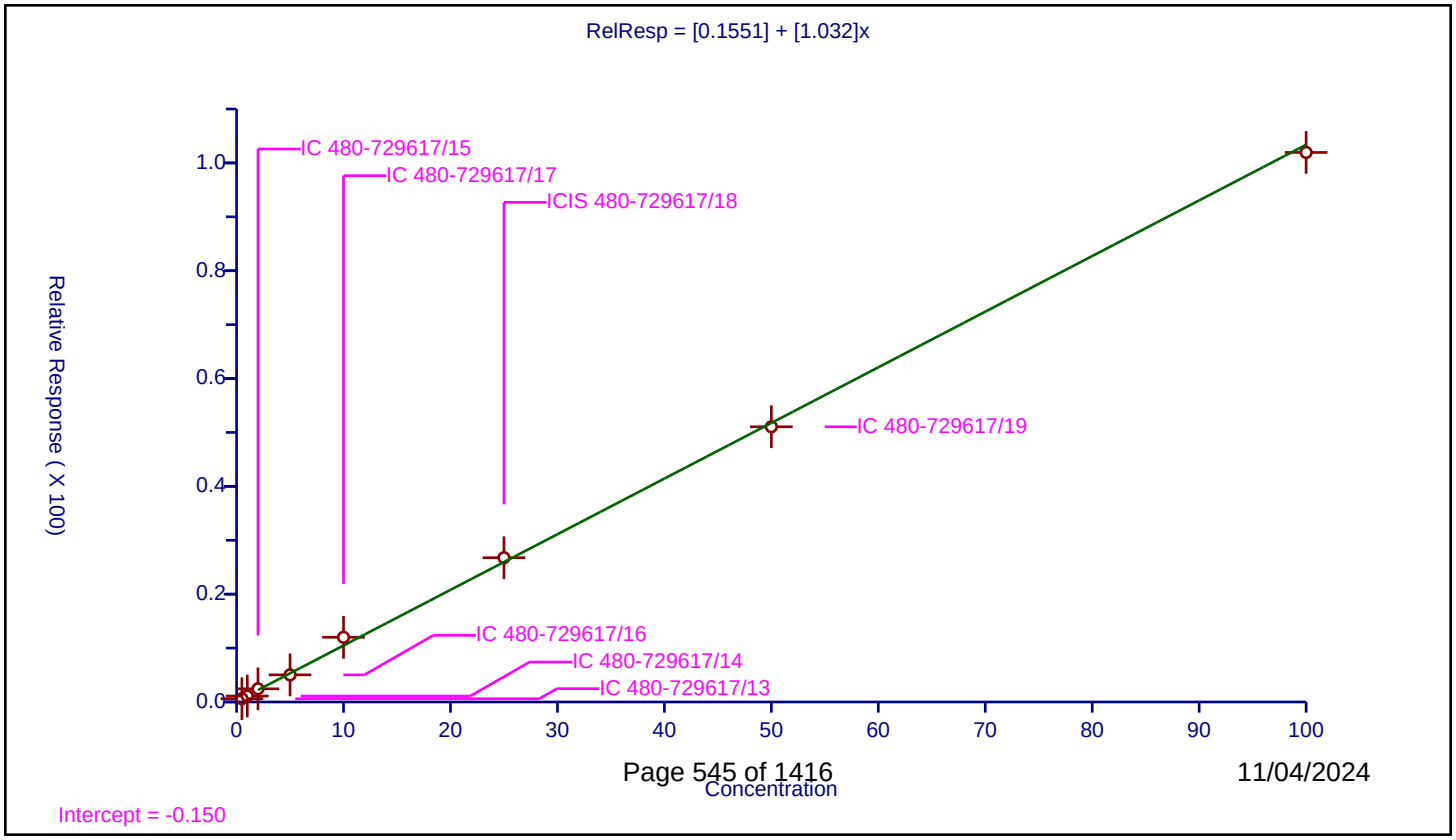
Curve Coefficients

Intercept:	0.1551
Slope:	1.032

Error Coefficients

Relative Standard Deviation:	10.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.606765	25.0	183473.0	1.21353	Y
2	IC 480-729617/14	1.0	1.10352	25.0	190051.0	1.10352	Y
3	IC 480-729617/15	2.0	2.443021	25.0	182305.0	1.221511	Y
4	IC 480-729617/16	5.0	5.03534	25.0	187887.0	1.007068	Y
5	IC 480-729617/17	10.0	12.001562	25.0	172865.0	1.200156	Y
6	ICIS 480-729617/18	25.0	26.766561	25.0	186096.0	1.070662	Y
7	IC 480-729617/19	50.0	51.053215	25.0	193930.0	1.021064	Y
8	IC 480-729617/20	100.0	101.944408	25.0	192925.0	1.019444	Y



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Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

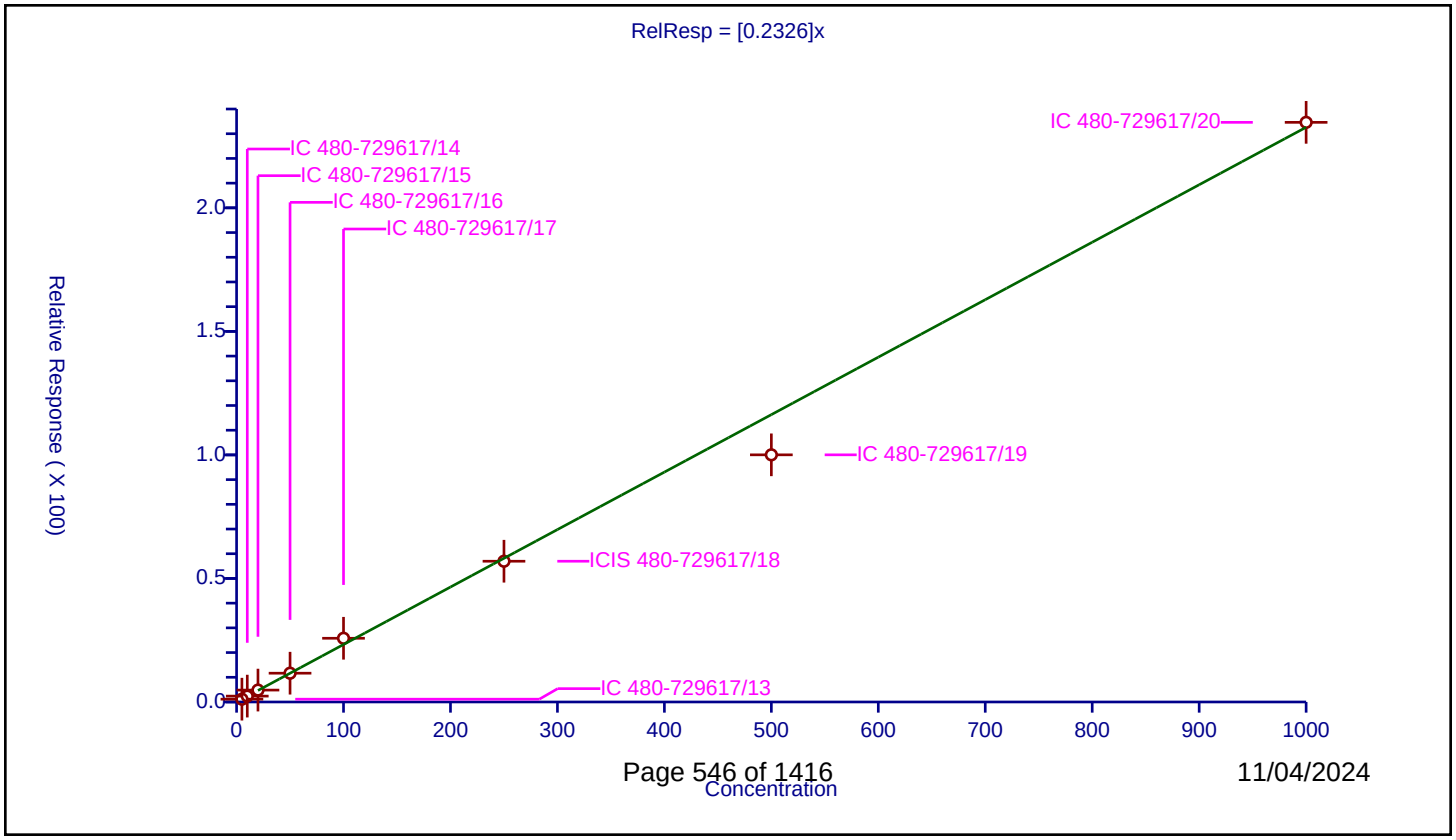
Curve Coefficients

Intercept:	0
Slope:	0.2326

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	5.0	1.14104	25.0	183473.0	0.228208	Y
2	IC 480-729617/14	10.0	2.381466	25.0	190051.0	0.238147	Y
3	IC 480-729617/15	20.0	4.81775	25.0	182305.0	0.240888	Y
4	IC 480-729617/16	50.0	11.653414	25.0	187887.0	0.233068	Y
5	IC 480-729617/17	100.0	25.793538	25.0	172865.0	0.257935	Y
6	ICIS 480-729617/18	250.0	56.972477	25.0	186096.0	0.22789	Y
7	IC 480-729617/19	500.0	100.039963	25.0	193930.0	0.20008	Y
8	IC 480-729617/20	1000.0	234.605546	25.0	192925.0	0.234606	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

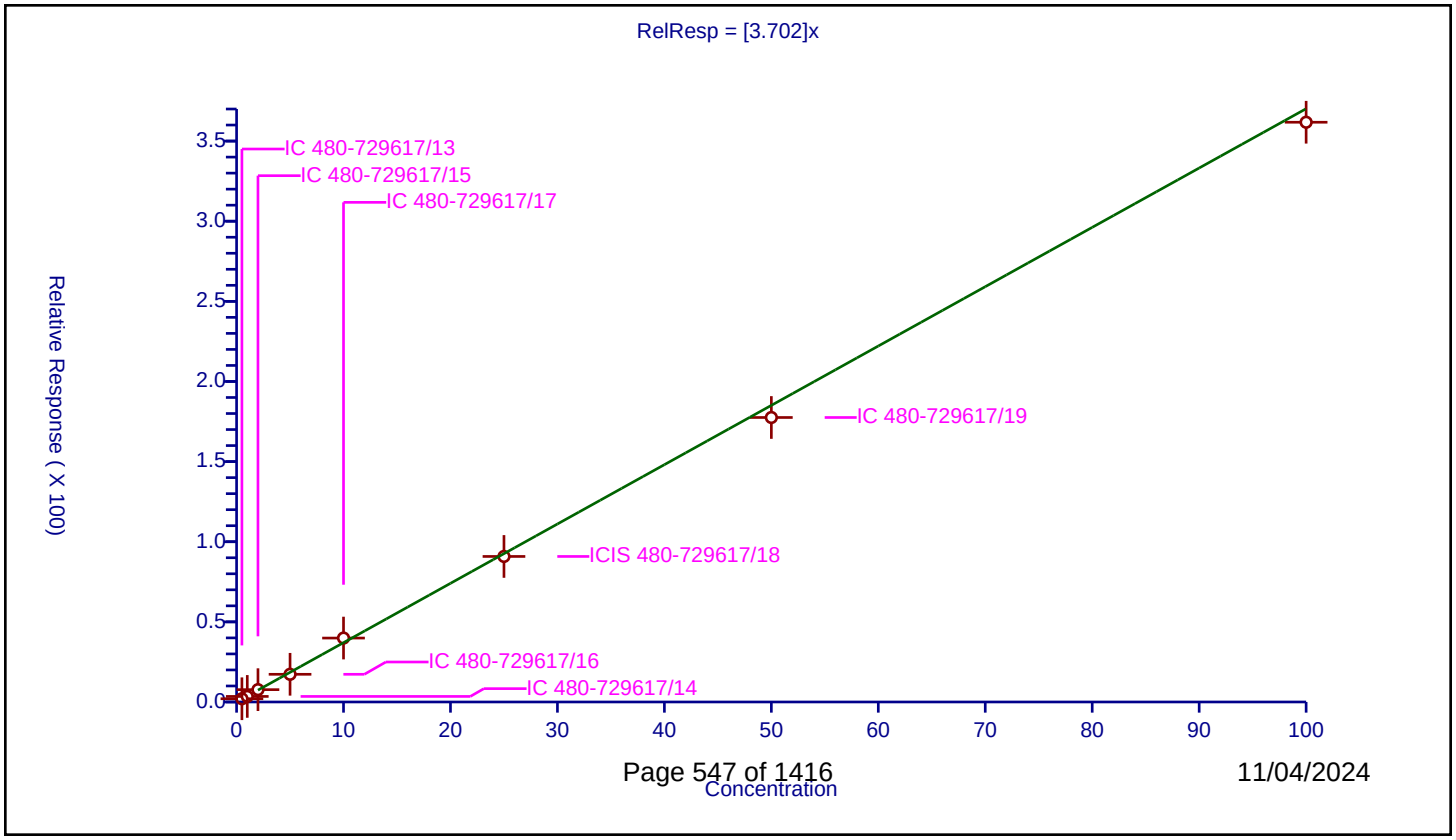
Curve Coefficients

Intercept:	0
Slope:	3.702

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	2.028091	25.0	183473.0	4.056183	Y
2	IC 480-729617/14	1.0	3.46407	25.0	190051.0	3.46407	Y
3	IC 480-729617/15	2.0	7.701928	25.0	182305.0	3.850964	Y
4	IC 480-729617/16	5.0	17.274346	25.0	187887.0	3.454869	Y
5	IC 480-729617/17	10.0	39.888063	25.0	172865.0	3.988806	Y
6	ICIS 480-729617/18	25.0	90.811463	25.0	186096.0	3.632459	Y
7	IC 480-729617/19	50.0	177.513794	25.0	193930.0	3.550276	Y
8	IC 480-729617/20	100.0	361.754179	25.0	192925.0	3.617542	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

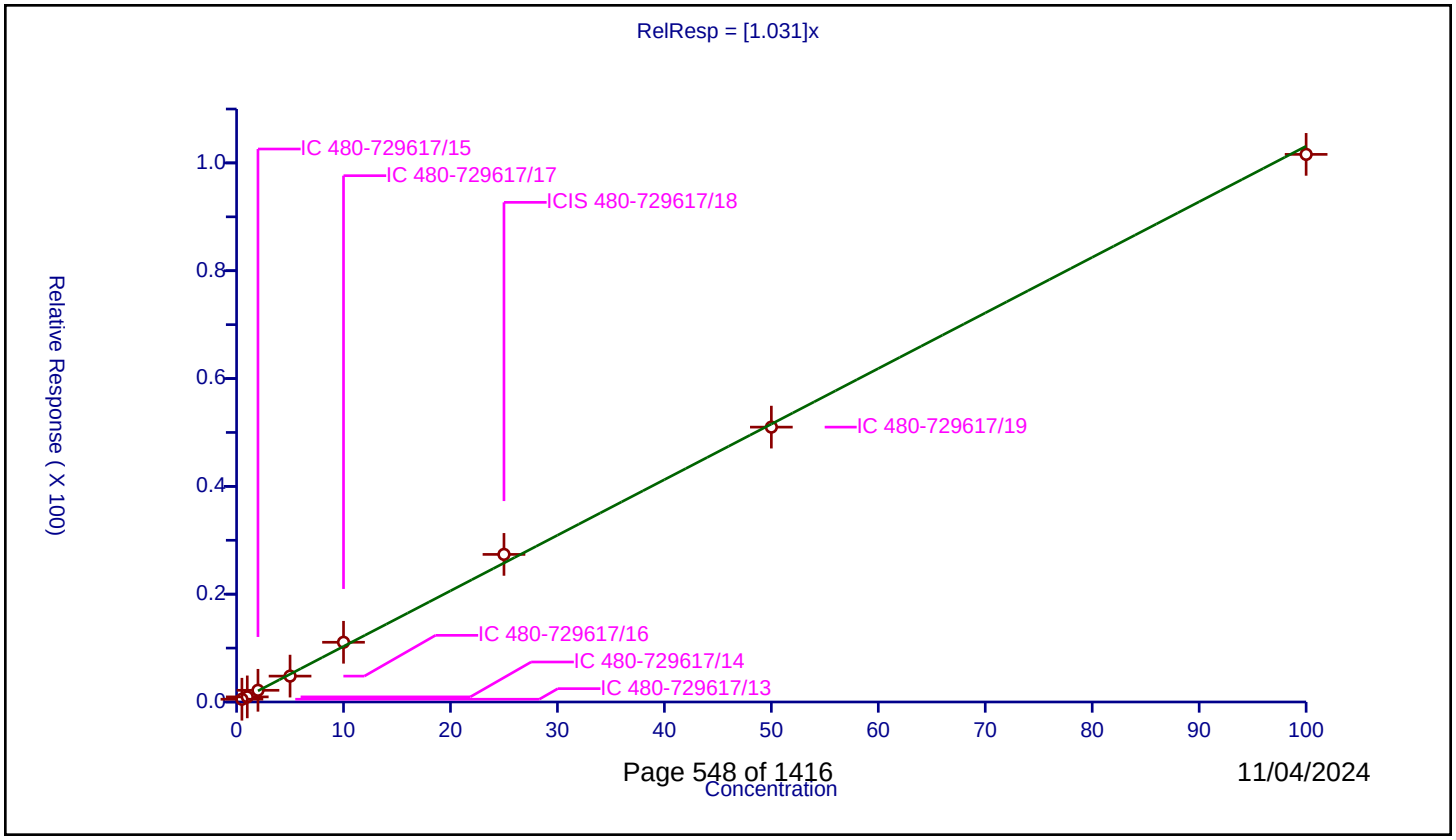
Curve Coefficients

Intercept:	0
Slope:	1.031

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.509612	25.0	183473.0	1.019224	Y
2	IC 480-729617/14	1.0	0.946983	25.0	190051.0	0.946983	Y
3	IC 480-729617/15	2.0	2.166973	25.0	182305.0	1.083486	Y
4	IC 480-729617/16	5.0	4.800359	25.0	187887.0	0.960072	Y
5	IC 480-729617/17	10.0	11.078587	25.0	172865.0	1.107859	Y
6	ICIS 480-729617/18	25.0	27.377536	25.0	186096.0	1.095101	Y
7	IC 480-729617/19	50.0	50.988114	25.0	193930.0	1.019762	Y
8	IC 480-729617/20	100.0	101.584035	25.0	192925.0	1.01584	Y



11/04/2024

Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

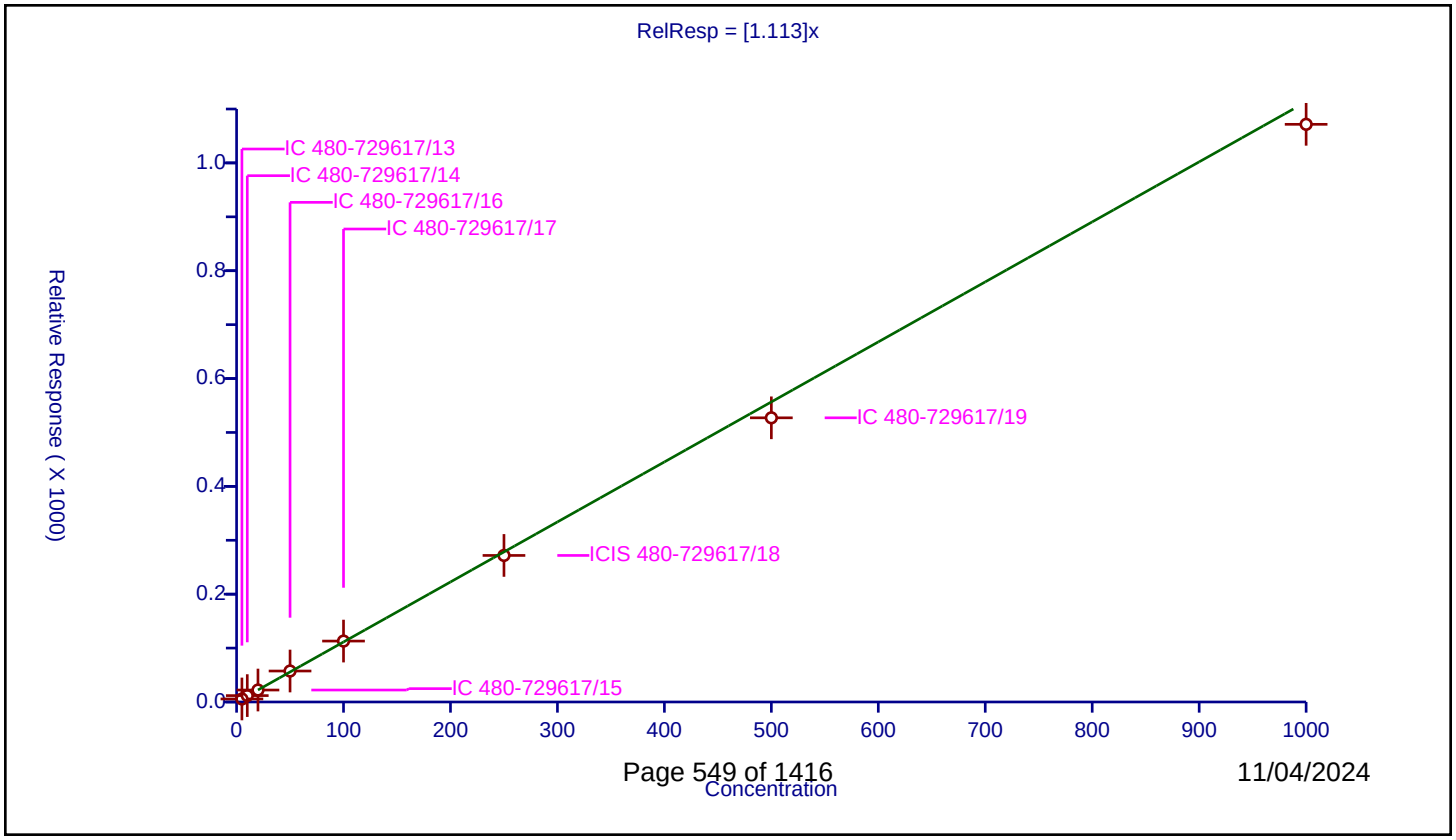
Curve Coefficients

Intercept:	0
Slope:	1.113

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	5.0	5.608318	25.0	183473.0	1.121664	Y
2	IC 480-729617/14	10.0	11.825115	25.0	190051.0	1.182512	Y
3	IC 480-729617/15	20.0	22.18768	25.0	182305.0	1.109384	Y
4	IC 480-729617/16	50.0	57.45661	25.0	187887.0	1.149132	Y
5	IC 480-729617/17	100.0	113.023458	25.0	172865.0	1.130235	Y
6	ICIS 480-729617/18	250.0	271.844102	25.0	186096.0	1.087376	Y
7	IC 480-729617/19	500.0	527.133373	25.0	193930.0	1.054267	Y
8	IC 480-729617/20	1000.0	1071.603214	25.0	192925.0	1.071603	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

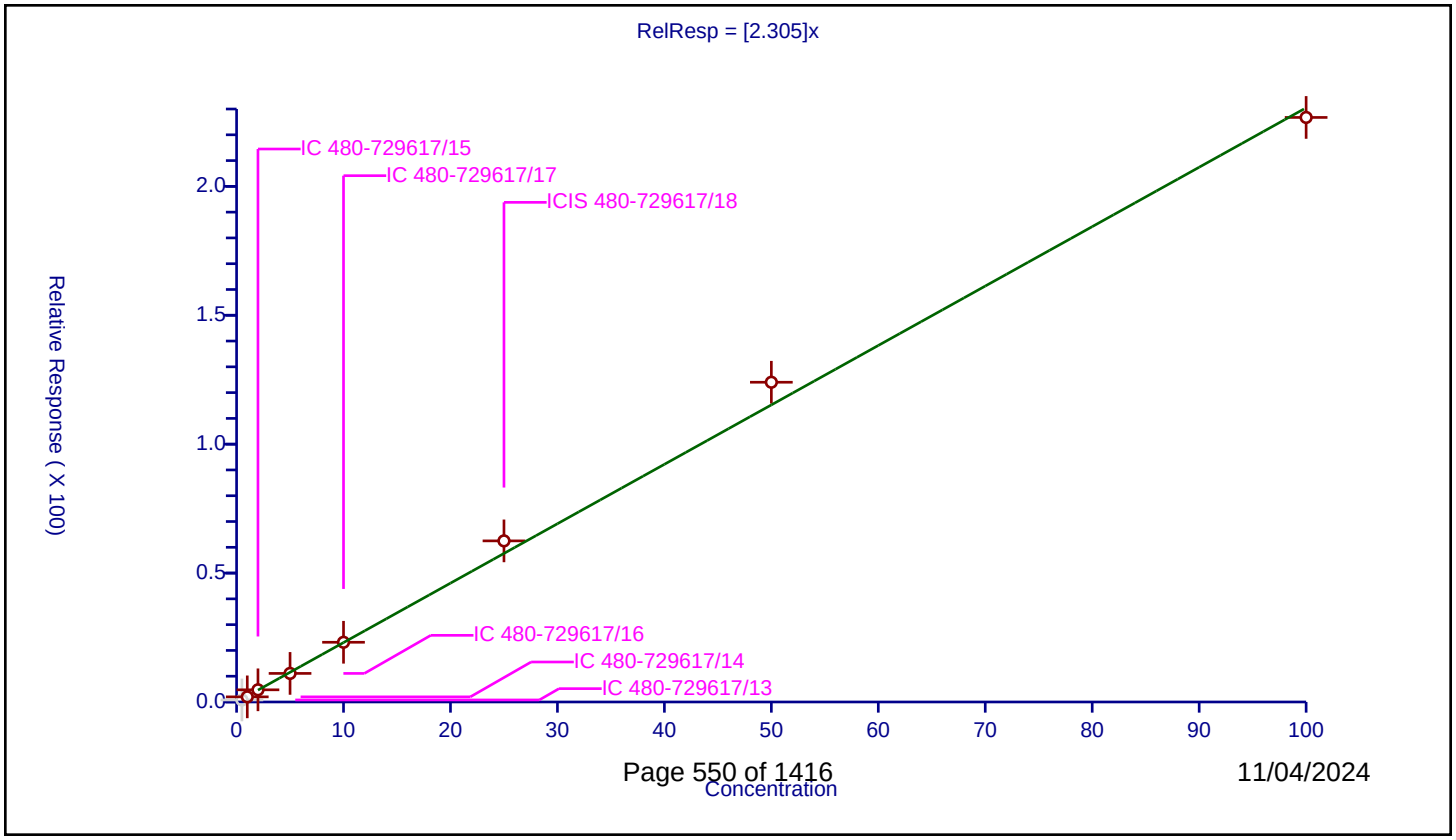
Curve Coefficients

Intercept:	0
Slope:	2.305

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.793577	25.0	183473.0	1.587155	N
2	IC 480-729617/14	1.0	1.990781	25.0	190051.0	1.990781	Y
3	IC 480-729617/15	2.0	4.723129	25.0	182305.0	2.361564	Y
4	IC 480-729617/16	5.0	11.084189	25.0	187887.0	2.216838	Y
5	IC 480-729617/17	10.0	23.162439	25.0	172865.0	2.316244	Y
6	ICIS 480-729617/18	25.0	62.491537	25.0	186096.0	2.499661	Y
7	IC 480-729617/19	50.0	124.019234	25.0	193930.0	2.480385	Y
8	IC 480-729617/20	100.0	226.727614	25.0	192925.0	2.267276	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

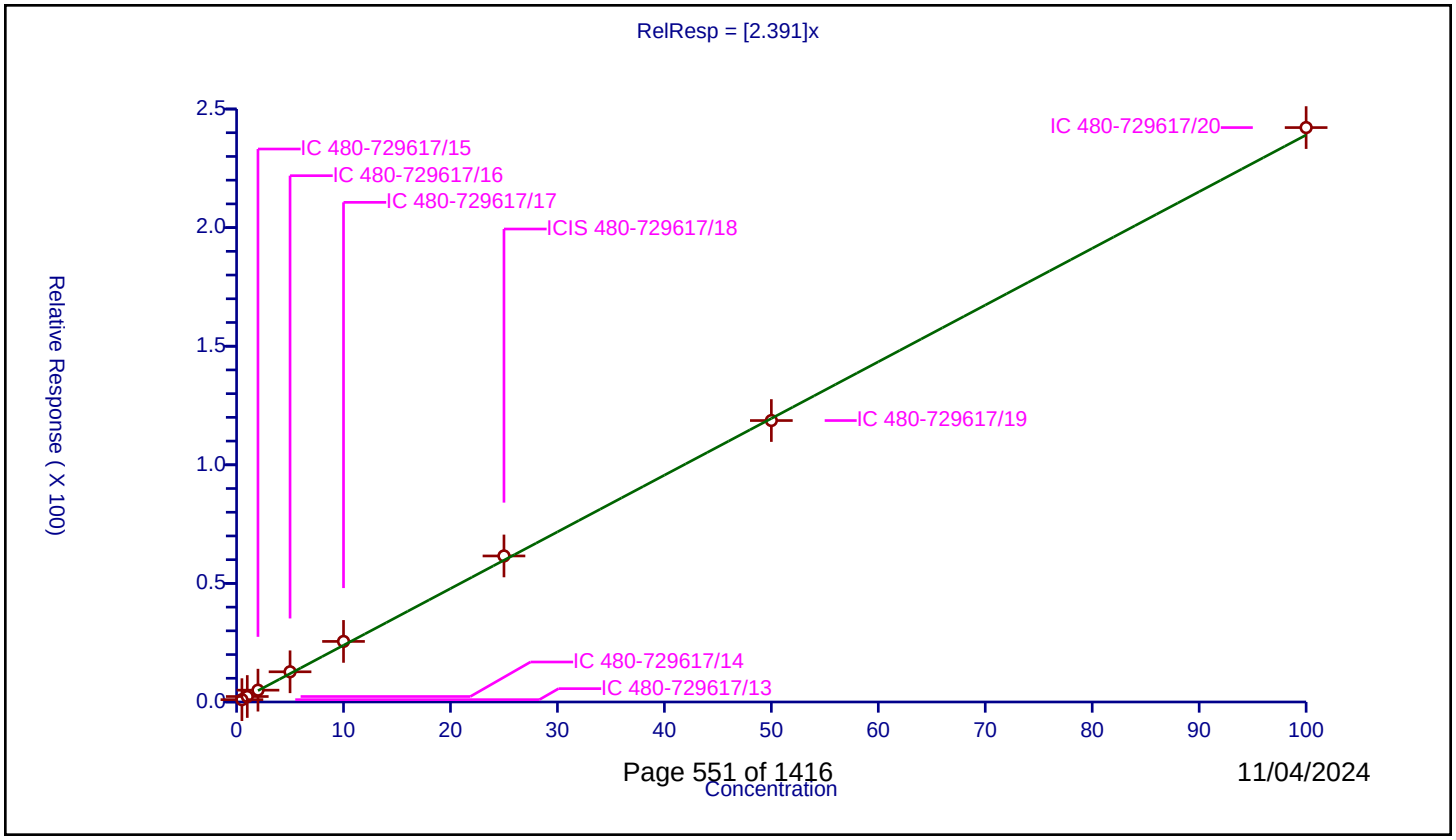
Curve Coefficients

Intercept:	0
Slope:	2.391

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.980253	25.0	183473.0	1.960506	Y
2	IC 480-729617/14	1.0	2.315826	25.0	190051.0	2.315826	Y
3	IC 480-729617/15	2.0	4.981487	25.0	182305.0	2.490744	Y
4	IC 480-729617/16	5.0	12.729061	25.0	187887.0	2.545812	Y
5	IC 480-729617/17	10.0	25.534521	25.0	172865.0	2.553452	Y
6	ICIS 480-729617/18	25.0	61.573328	25.0	186096.0	2.462933	Y
7	IC 480-729617/19	50.0	118.66163	25.0	193930.0	2.373233	Y
8	IC 480-729617/20	100.0	242.170921	25.0	192925.0	2.421709	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

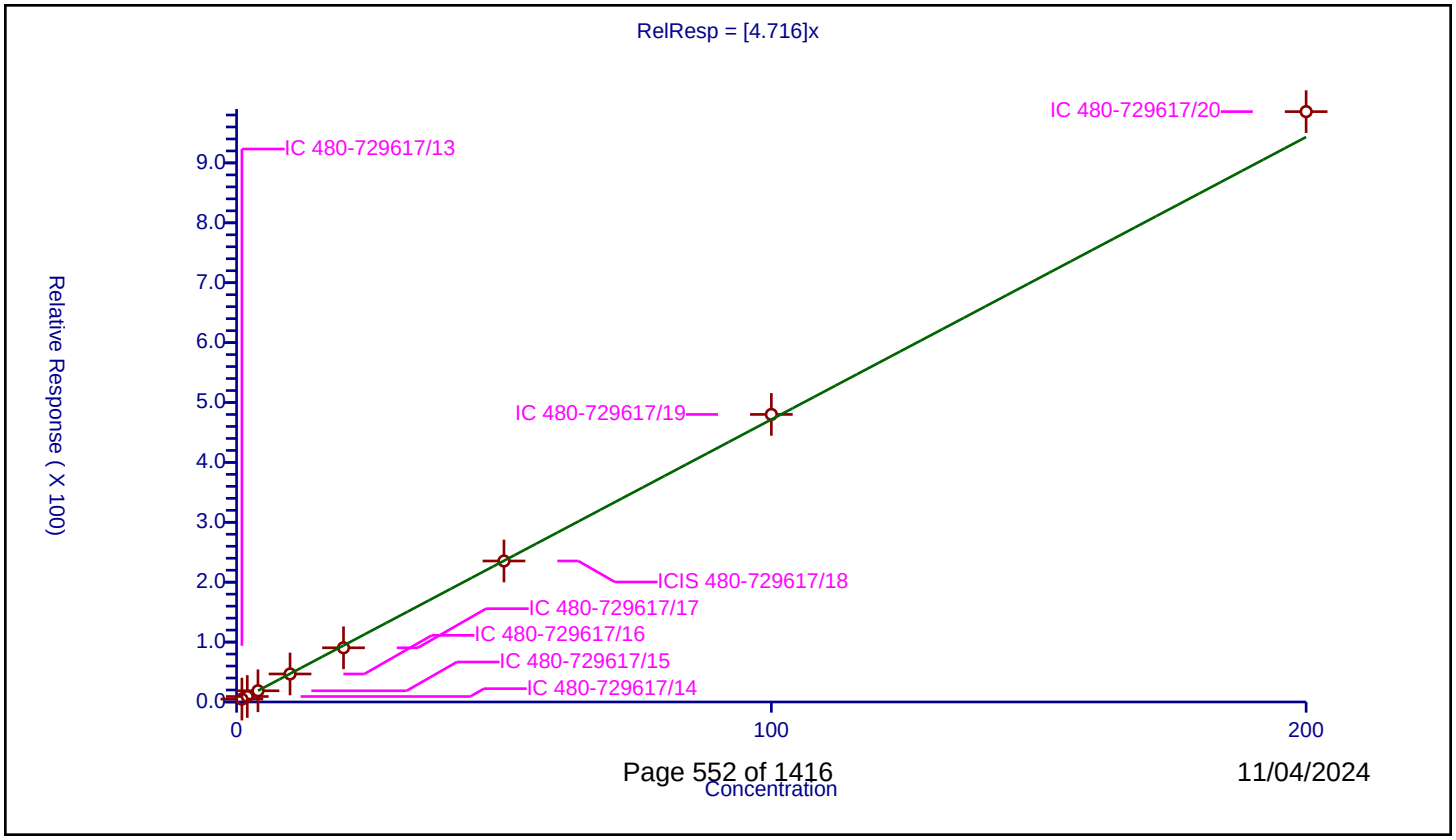
Curve Coefficients

Intercept:	0
Slope:	4.716

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	1.0	4.842266	25.0	183473.0	4.842266	Y
2	IC 480-729617/14	2.0	9.145571	25.0	190051.0	4.572786	Y
3	IC 480-729617/15	4.0	18.700666	25.0	182305.0	4.675167	Y
4	IC 480-729617/16	10.0	46.782774	25.0	187887.0	4.678277	Y
5	IC 480-729617/17	20.0	90.490412	25.0	172865.0	4.524521	Y
6	ICIS 480-729617/18	50.0	235.39356	25.0	186096.0	4.707871	Y
7	IC 480-729617/19	100.0	480.07709	25.0	193930.0	4.800771	Y
8	IC 480-729617/20	200.0	985.624725	25.0	192925.0	4.928124	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

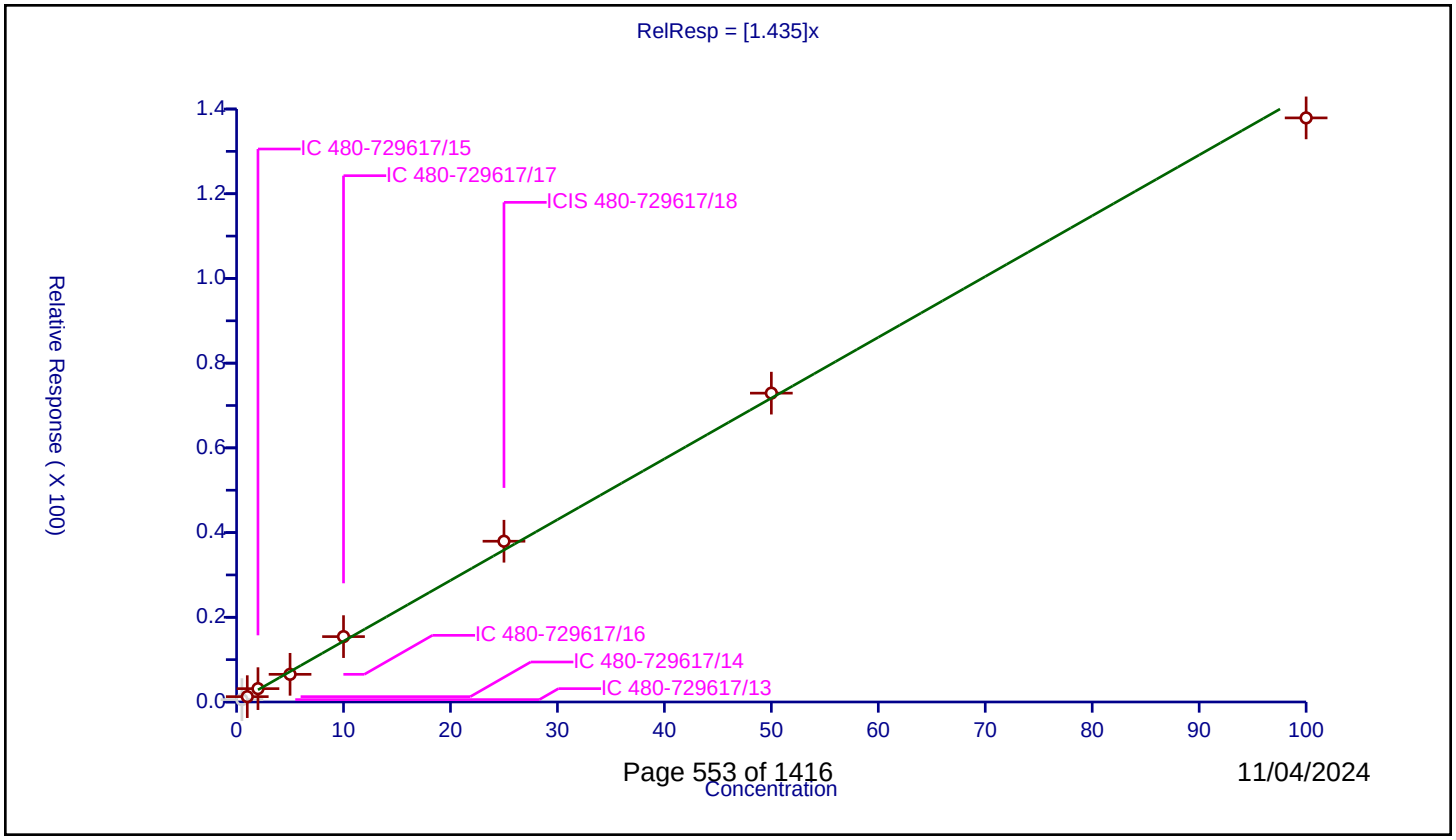
Curve Coefficients

Intercept:	0
Slope:	1.435

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.566432	25.0	183473.0	1.132864	N
2	IC 480-729617/14	1.0	1.264924	25.0	190051.0	1.264924	Y
3	IC 480-729617/15	2.0	3.150215	25.0	182305.0	1.575108	Y
4	IC 480-729617/16	5.0	6.528924	25.0	187887.0	1.305785	Y
5	IC 480-729617/17	10.0	15.432852	25.0	172865.0	1.543285	Y
6	ICIS 480-729617/18	25.0	37.956485	25.0	186096.0	1.518259	Y
7	IC 480-729617/19	50.0	72.918837	25.0	193930.0	1.458377	Y
8	IC 480-729617/20	100.0	137.901775	25.0	192925.0	1.379018	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

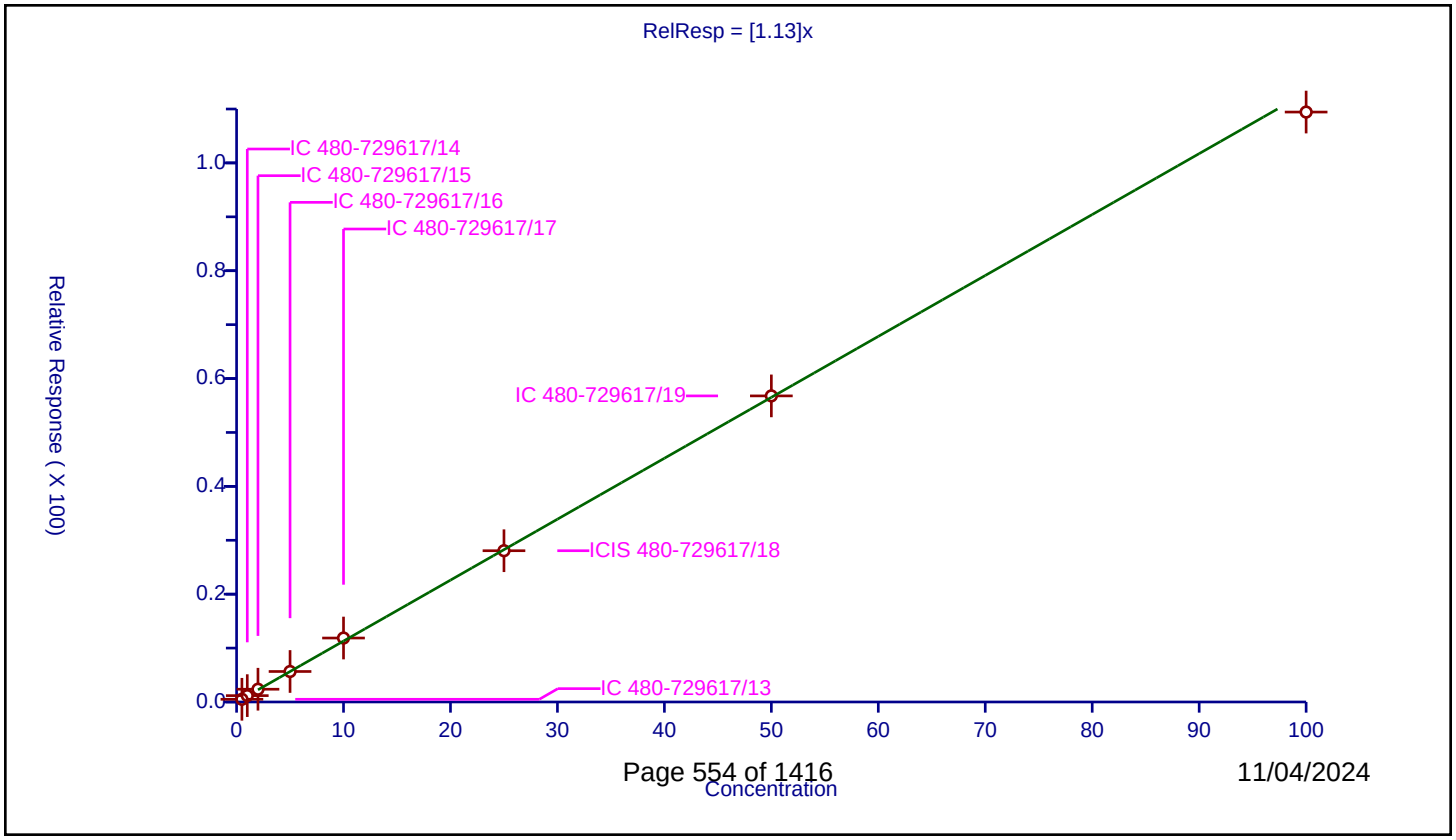
Curve Coefficients

Intercept:	0
Slope:	1.13

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.503344	25.0	183473.0	1.006688	Y
2	IC 480-729617/14	1.0	1.180867	25.0	190051.0	1.180867	Y
3	IC 480-729617/15	2.0	2.369244	25.0	182305.0	1.184622	Y
4	IC 480-729617/16	5.0	5.655926	25.0	187887.0	1.131185	Y
5	IC 480-729617/17	10.0	11.865328	25.0	172865.0	1.186533	Y
6	ICIS 480-729617/18	25.0	28.058368	25.0	186096.0	1.122335	Y
7	IC 480-729617/19	50.0	56.782086	25.0	193930.0	1.135642	Y
8	IC 480-729617/20	100.0	109.434495	25.0	192925.0	1.094345	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

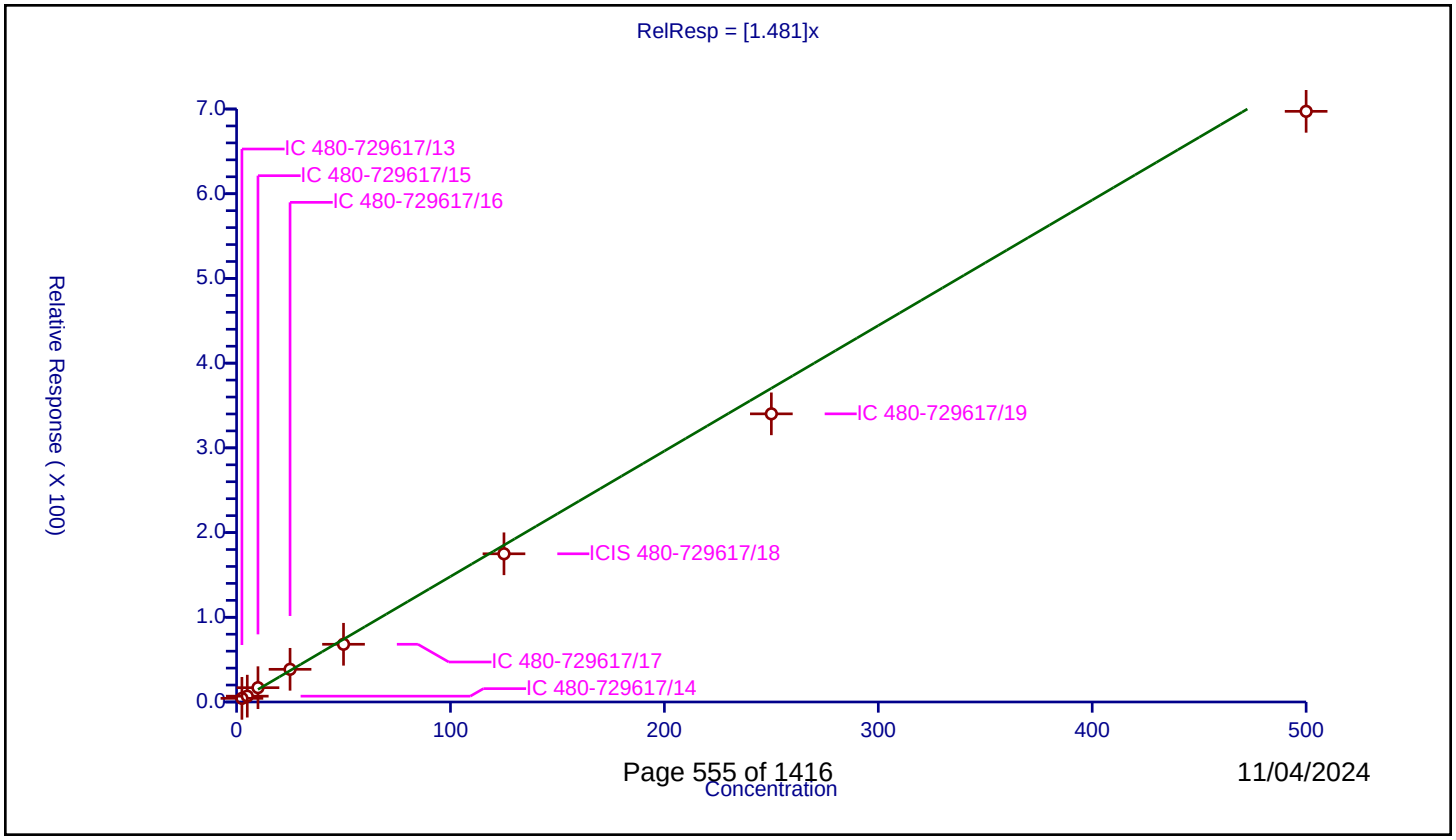
Curve Coefficients

Intercept:	0
Slope:	1.481

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	2.5	4.311534	25.0	183473.0	1.724613	Y
2	IC 480-729617/14	5.0	6.885652	25.0	190051.0	1.37713	Y
3	IC 480-729617/15	10.0	16.884616	25.0	182305.0	1.688462	Y
4	IC 480-729617/16	25.0	38.571322	25.0	187887.0	1.542853	Y
5	IC 480-729617/17	50.0	68.148266	25.0	172865.0	1.362965	Y
6	ICIS 480-729617/18	125.0	174.956474	25.0	186096.0	1.399652	Y
7	IC 480-729617/19	250.0	340.157789	25.0	193930.0	1.360631	Y
8	IC 480-729617/20	500.0	697.272645	25.0	192925.0	1.394545	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

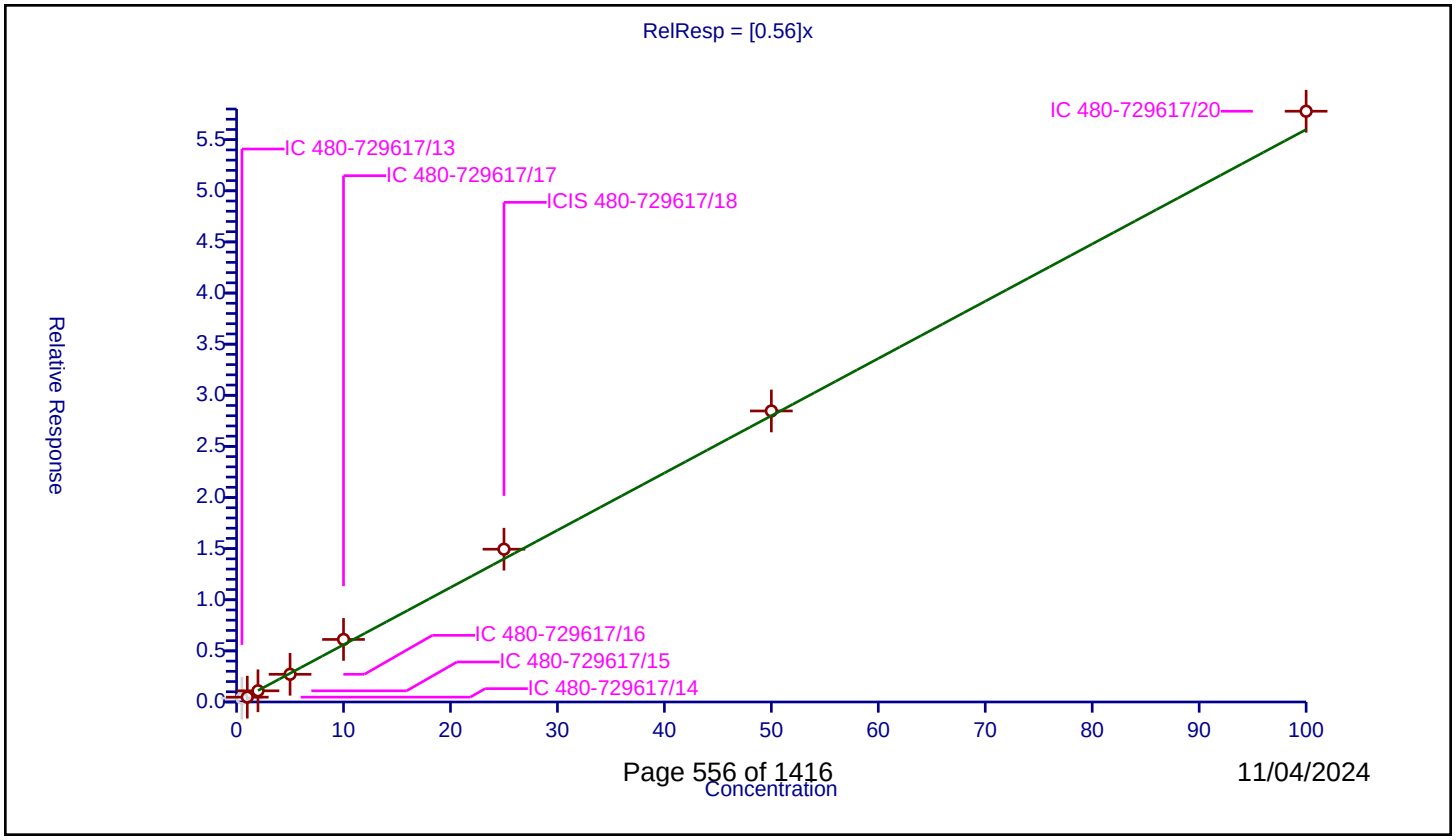
Curve Coefficients

Intercept:	0
Slope:	0.56

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.370627	25.0	183473.0	0.741253	N
2	IC 480-729617/14	1.0	0.473426	25.0	190051.0	0.473426	Y
3	IC 480-729617/15	2.0	1.09528	25.0	182305.0	0.54764	Y
4	IC 480-729617/16	5.0	2.709607	25.0	187887.0	0.541921	Y
5	IC 480-729617/17	10.0	6.117924	25.0	172865.0	0.611792	Y
6	ICIS 480-729617/18	25.0	14.944034	25.0	186096.0	0.597761	Y
7	IC 480-729617/19	50.0	28.465555	25.0	193930.0	0.569311	Y
8	IC 480-729617/20	100.0	57.782299	25.0	192925.0	0.577823	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

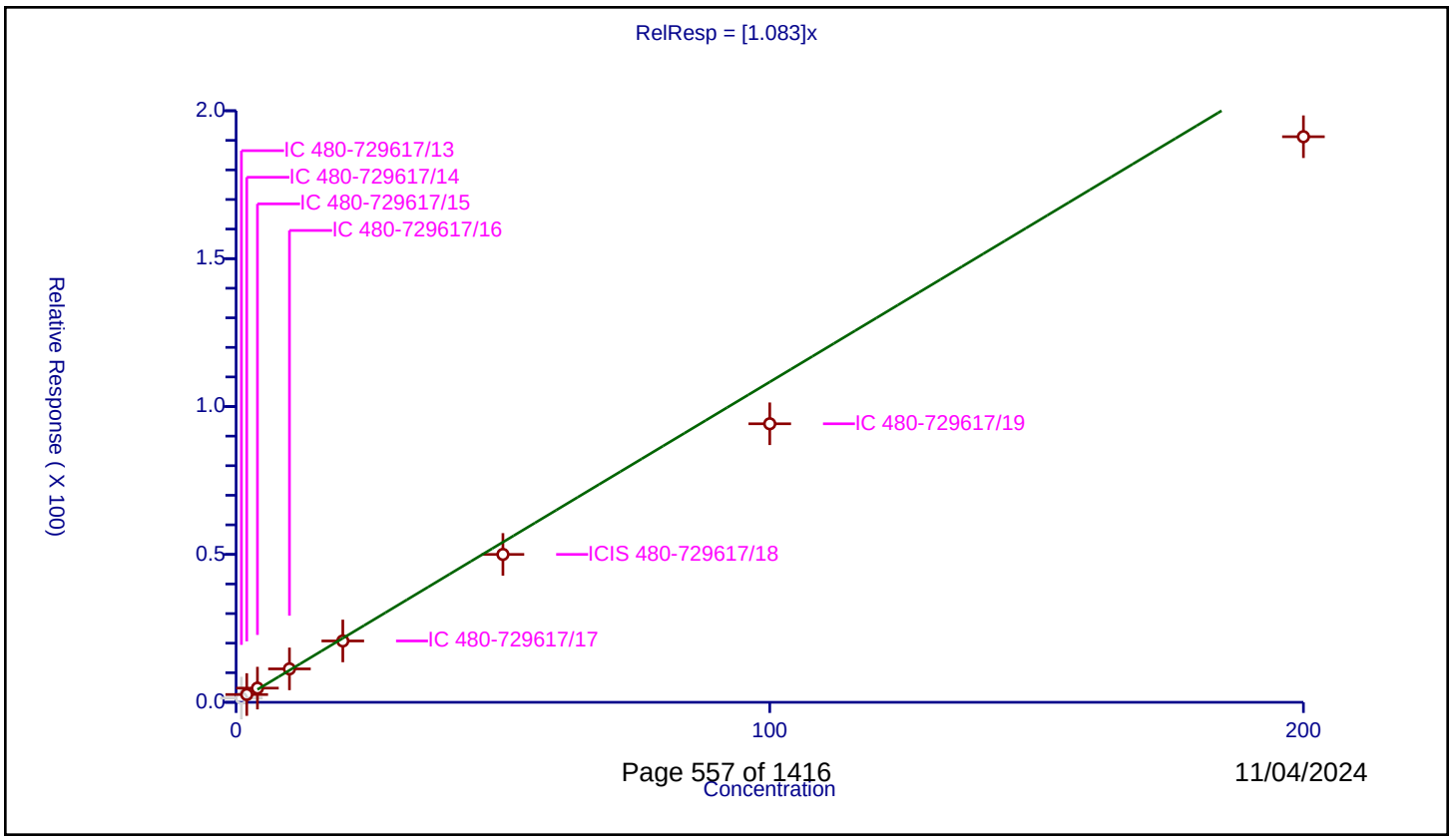
Curve Coefficients

Intercept:	0
Slope:	1.083

Error Coefficients

Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	1.0	1.432363	25.0	183473.0	1.432363	N
2	IC 480-729617/14	2.0	2.634161	25.0	190051.0	1.317081	Y
3	IC 480-729617/15	4.0	4.795946	25.0	182305.0	1.198987	Y
4	IC 480-729617/16	10.0	11.302139	25.0	187887.0	1.130214	Y
5	IC 480-729617/17	20.0	20.741475	25.0	172865.0	1.037074	Y
6	ICIS 480-729617/18	50.0	50.002821	25.0	186096.0	1.000056	Y
7	IC 480-729617/19	100.0	94.173155	25.0	193930.0	0.941732	Y
8	IC 480-729617/20	200.0	191.219904	25.0	192925.0	0.9561	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

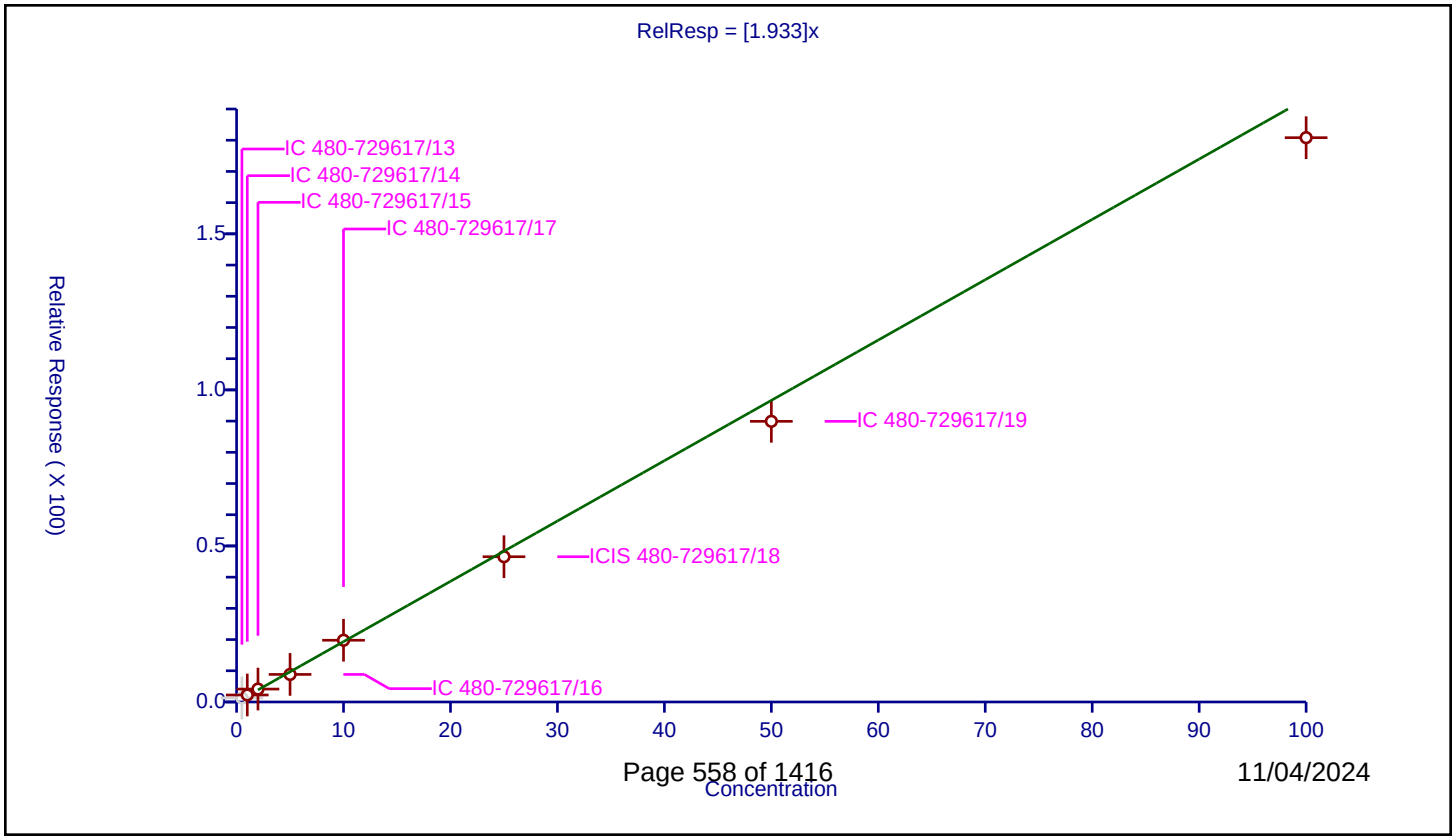
Curve Coefficients

Intercept:	0
Slope:	1.933

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.290517	25.0	183473.0	2.581034	N
2	IC 480-729617/14	1.0	2.246897	25.0	190051.0	2.246897	Y
3	IC 480-729617/15	2.0	4.140589	25.0	182305.0	2.070294	Y
4	IC 480-729617/16	5.0	8.827779	25.0	187887.0	1.765556	Y
5	IC 480-729617/17	10.0	19.784225	25.0	172865.0	1.978422	Y
6	ICIS 480-729617/18	25.0	46.542645	25.0	186096.0	1.861706	Y
7	IC 480-729617/19	50.0	89.923426	25.0	193930.0	1.798469	Y
8	IC 480-729617/20	100.0	180.815861	25.0	192925.0	1.808159	Y



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Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

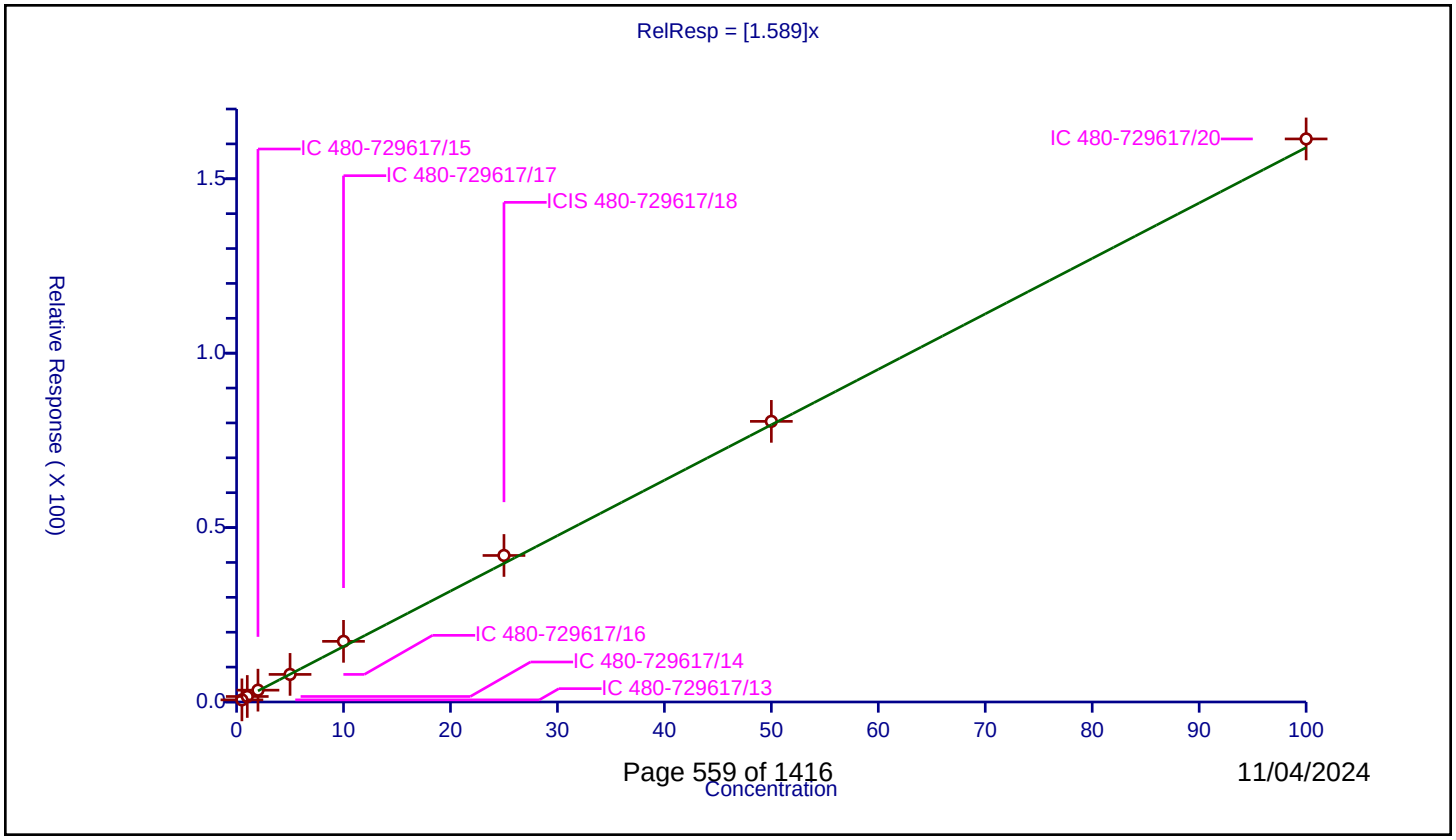
Curve Coefficients

Intercept:	0
Slope:	1.589

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.6084	25.0	183473.0	1.2168	Y
2	IC 480-729617/14	1.0	1.578655	25.0	190051.0	1.578655	Y
3	IC 480-729617/15	2.0	3.390746	25.0	182305.0	1.695373	Y
4	IC 480-729617/16	5.0	7.910606	25.0	187887.0	1.582121	Y
5	IC 480-729617/17	10.0	17.392474	25.0	172865.0	1.739247	Y
6	ICIS 480-729617/18	25.0	42.008426	25.0	186096.0	1.680337	Y
7	IC 480-729617/19	50.0	80.455577	25.0	193930.0	1.609112	Y
8	IC 480-729617/20	100.0	161.422833	25.0	192925.0	1.614228	Y



11/04/2024

Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

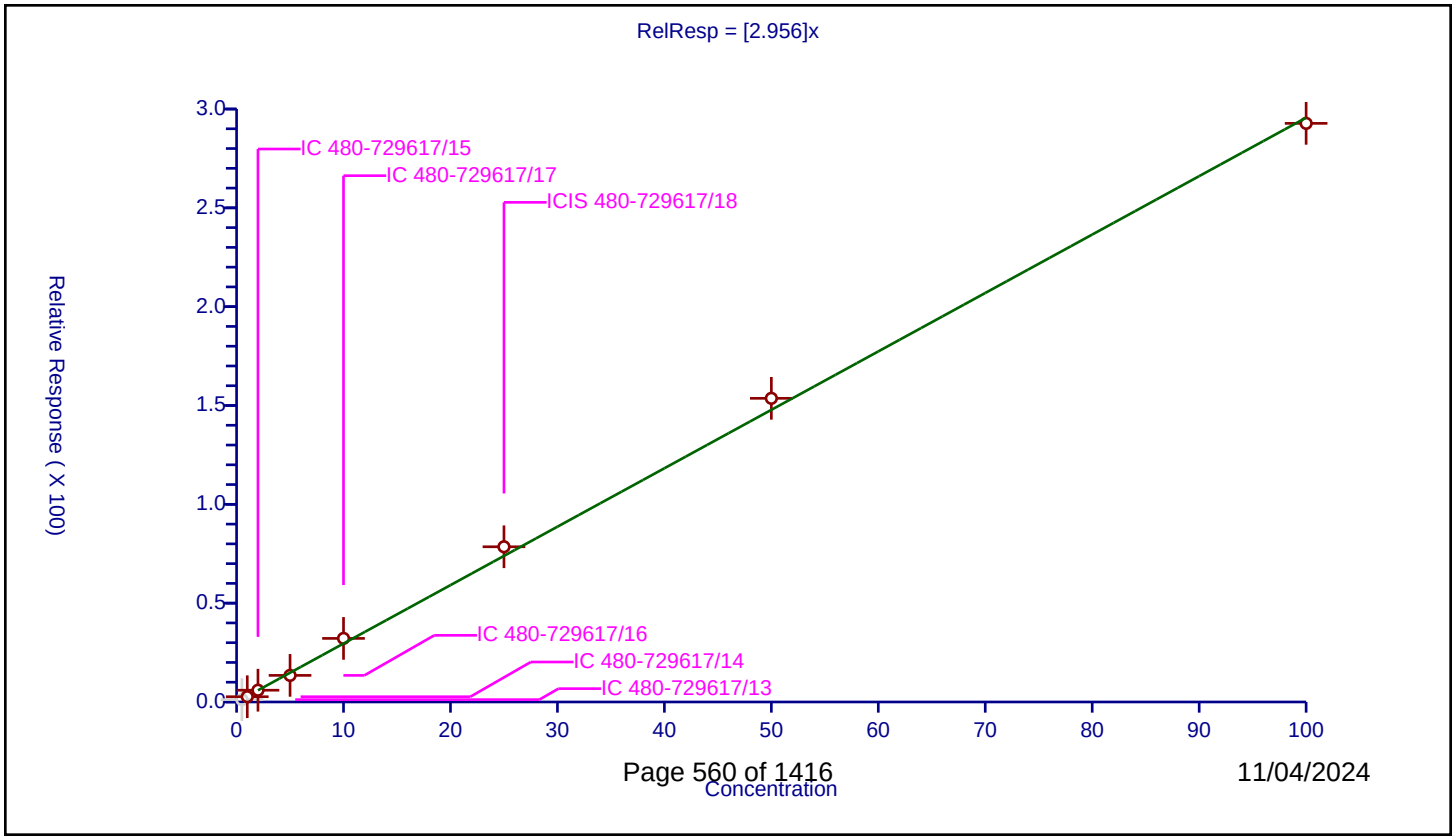
Curve Coefficients

Intercept:	0
Slope:	2.956

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.187368	25.0	183473.0	2.374736	N
2	IC 480-729617/14	1.0	2.668757	25.0	190051.0	2.668757	Y
3	IC 480-729617/15	2.0	5.950605	25.0	182305.0	2.975302	Y
4	IC 480-729617/16	5.0	13.452102	25.0	187887.0	2.69042	Y
5	IC 480-729617/17	10.0	32.164117	25.0	172865.0	3.216412	Y
6	ICIS 480-729617/18	25.0	78.521973	25.0	186096.0	3.140879	Y
7	IC 480-729617/19	50.0	153.627082	25.0	193930.0	3.072542	Y
8	IC 480-729617/20	100.0	292.738759	25.0	192925.0	2.927388	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

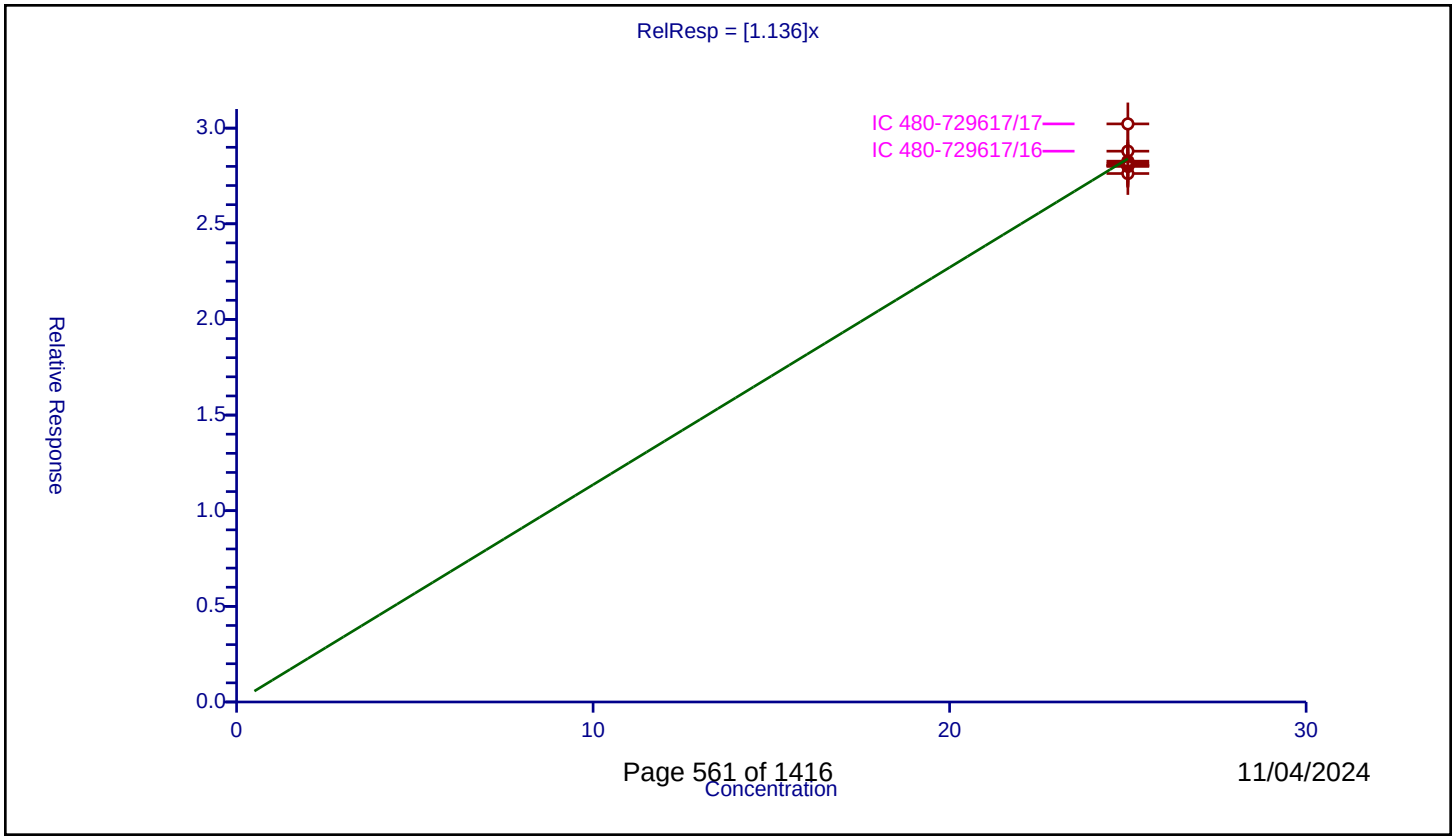
Curve Coefficients

Intercept:	0
Slope:	1.136

Error Coefficients

Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	25.0	27.626953	25.0	183473.0	1.105078	Y
2	IC 480-729617/14	25.0	28.160599	25.0	190051.0	1.126424	Y
3	IC 480-729617/15	25.0	28.071638	25.0	182305.0	1.122866	Y
4	IC 480-729617/16	25.0	28.796564	25.0	187887.0	1.151863	Y
5	IC 480-729617/17	25.0	30.222717	25.0	172865.0	1.208909	Y
6	ICIS 480-729617/18	25.0	28.27452	25.0	186096.0	1.130981	Y
7	IC 480-729617/19	25.0	27.998376	25.0	193930.0	1.119935	Y
8	IC 480-729617/20	25.0	28.04367	25.0	192925.0	1.121747	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

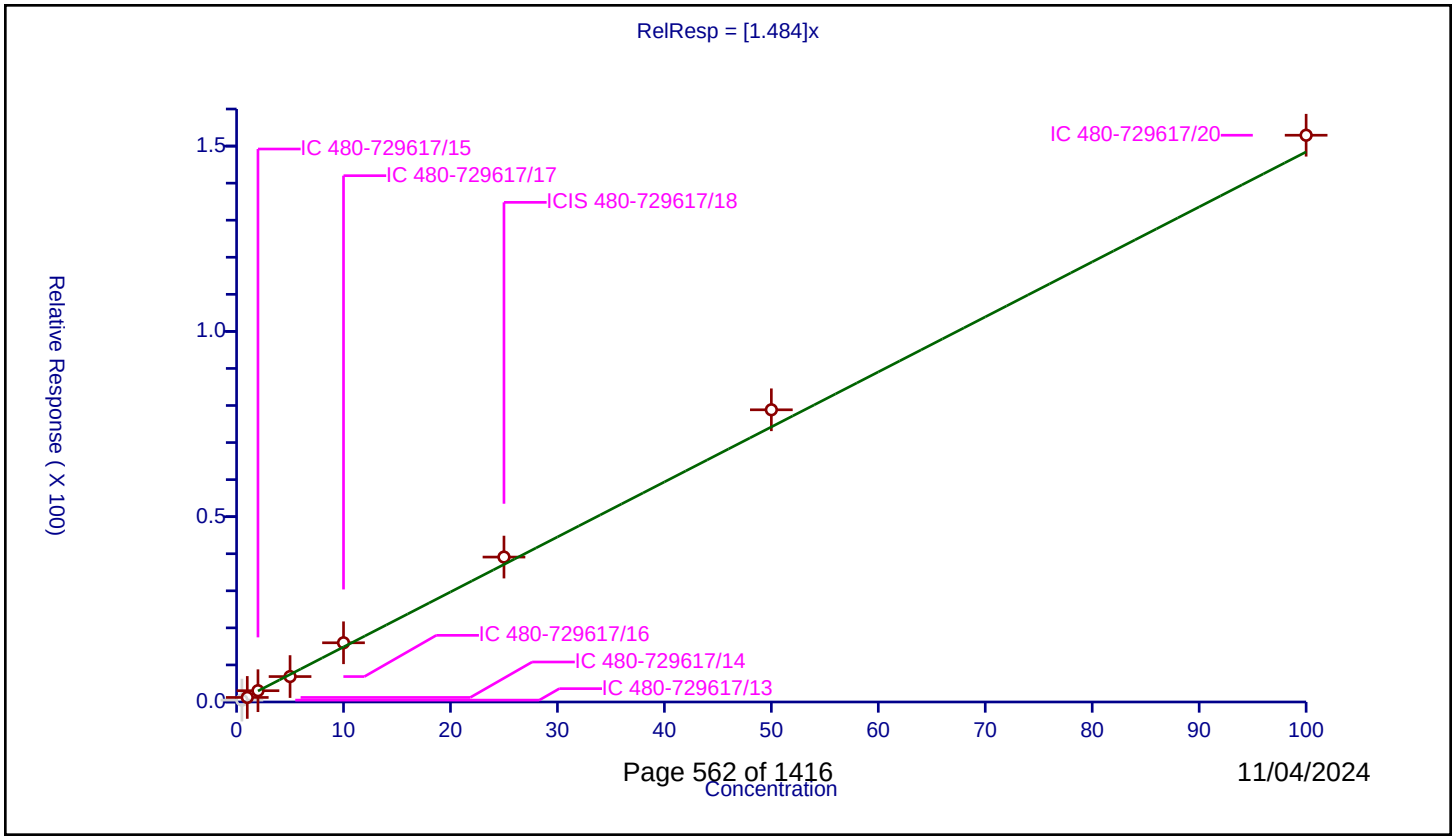
Curve Coefficients

Intercept:	0
Slope:	1.484

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.508113	25.0	183473.0	1.016226	N
2	IC 480-729617/14	1.0	1.227039	25.0	190051.0	1.227039	Y
3	IC 480-729617/15	2.0	3.045583	25.0	182305.0	1.522791	Y
4	IC 480-729617/16	5.0	6.862636	25.0	187887.0	1.372527	Y
5	IC 480-729617/17	10.0	15.975472	25.0	172865.0	1.597547	Y
6	ICIS 480-729617/18	25.0	39.105892	25.0	186096.0	1.564236	Y
7	IC 480-729617/19	50.0	78.842624	25.0	193930.0	1.576852	Y
8	IC 480-729617/20	100.0	152.926526	25.0	192925.0	1.529265	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

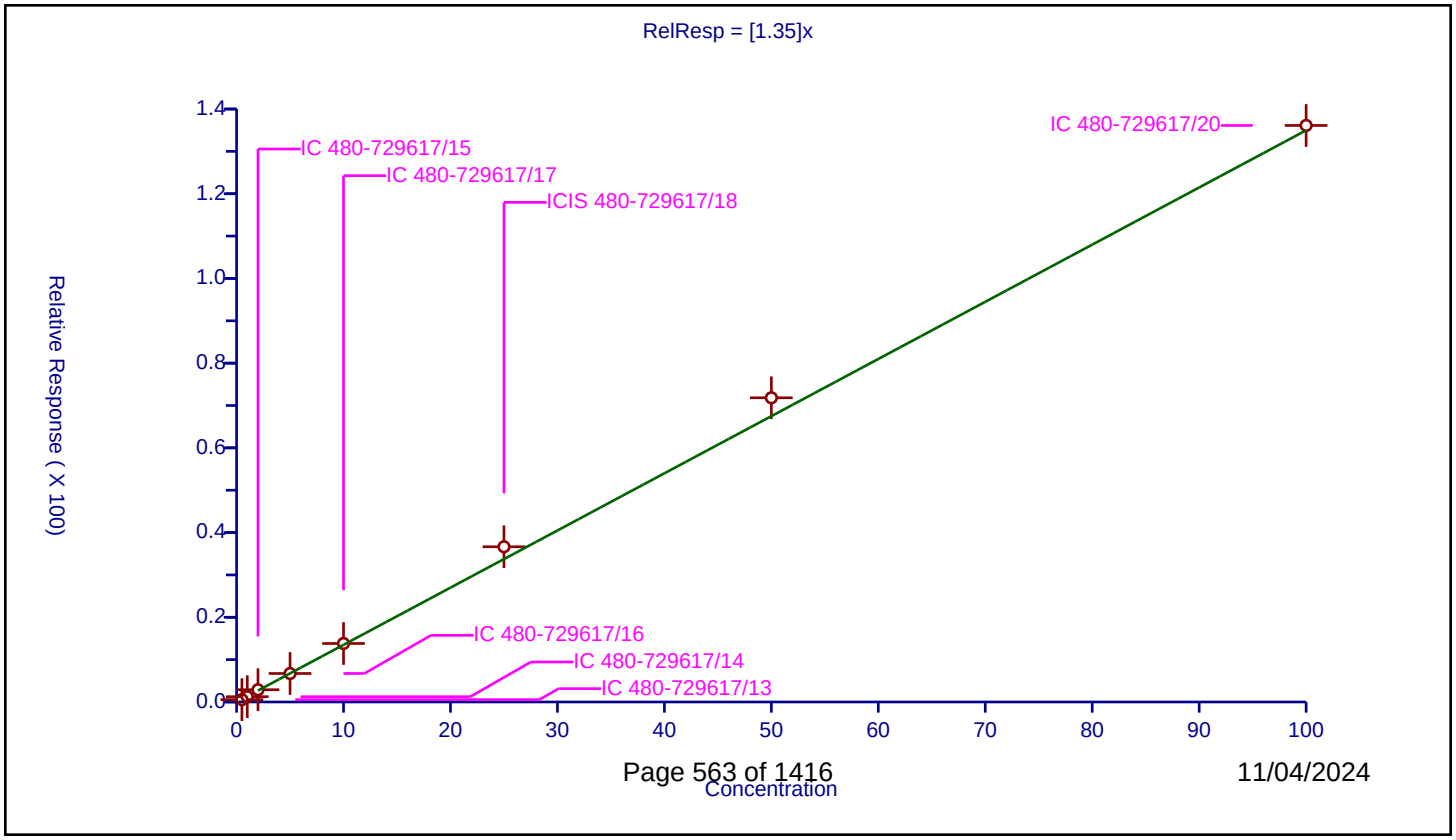
Curve Coefficients

Intercept:	0
Slope:	1.35

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.554169	25.0	183473.0	1.108337	Y
2	IC 480-729617/14	1.0	1.251375	25.0	190051.0	1.251375	Y
3	IC 480-729617/15	2.0	2.896108	25.0	182305.0	1.448054	Y
4	IC 480-729617/16	5.0	6.72625	25.0	187887.0	1.34525	Y
5	IC 480-729617/17	10.0	13.808463	25.0	172865.0	1.380846	Y
6	ICIS 480-729617/18	25.0	36.651245	25.0	186096.0	1.46605	Y
7	IC 480-729617/19	50.0	71.822307	25.0	193930.0	1.436446	Y
8	IC 480-729617/20	100.0	136.114293	25.0	192925.0	1.361143	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

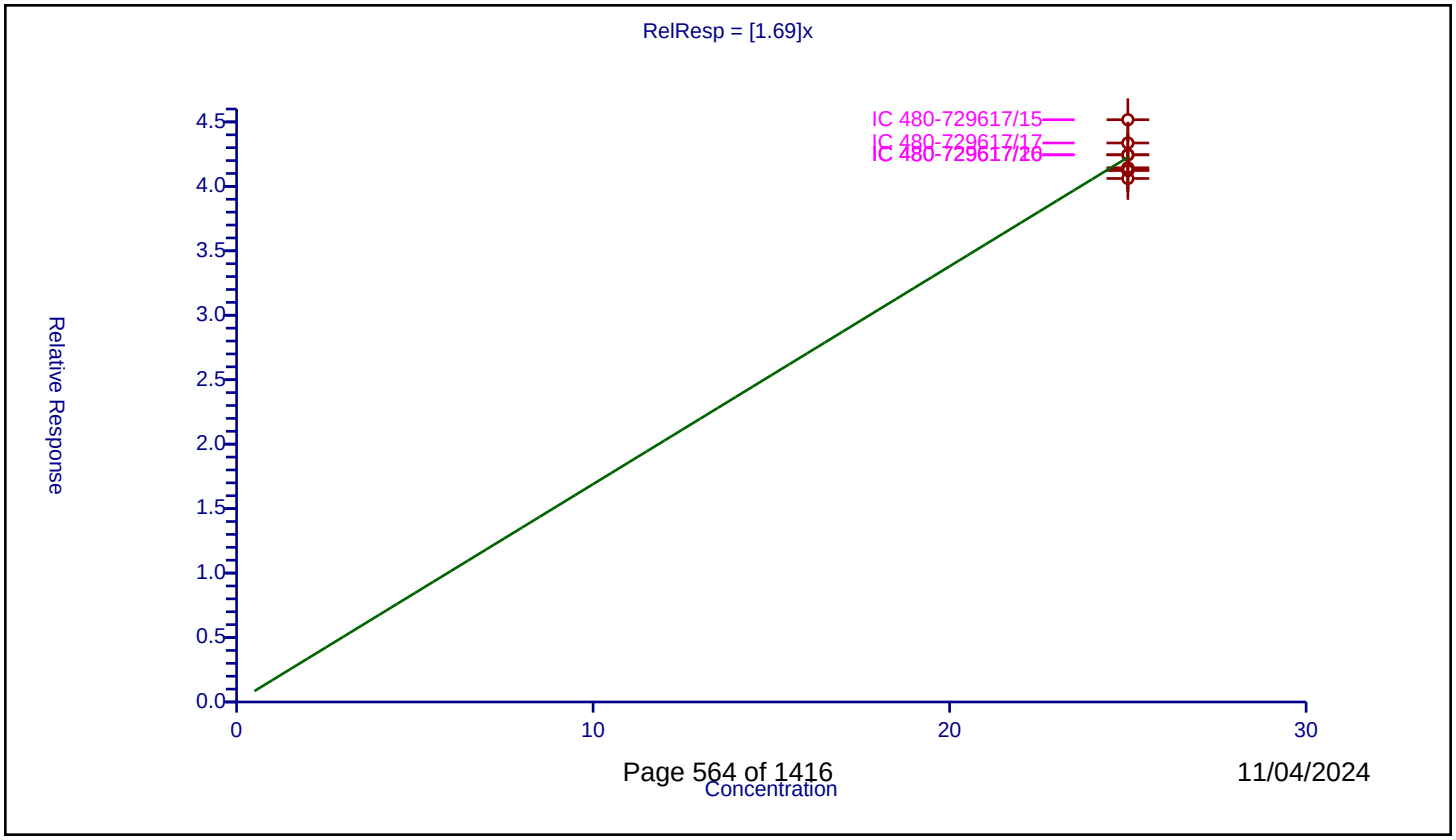
Curve Coefficients

Intercept:	0
Slope:	1.69

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	25.0	41.441793	25.0	183473.0	1.657672	Y
2	IC 480-729617/14	25.0	41.269317	25.0	190051.0	1.650773	Y
3	IC 480-729617/15	25.0	45.171279	25.0	182305.0	1.806851	Y
4	IC 480-729617/16	25.0	42.447189	25.0	187887.0	1.697888	Y
5	IC 480-729617/17	25.0	43.364041	25.0	172865.0	1.734562	Y
6	ICIS 480-729617/18	25.0	40.610894	25.0	186096.0	1.624436	Y
7	IC 480-729617/19	25.0	41.233564	25.0	193930.0	1.649343	Y
8	IC 480-729617/20	25.0	42.447583	25.0	192925.0	1.697903	Y



11/04/2024

Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

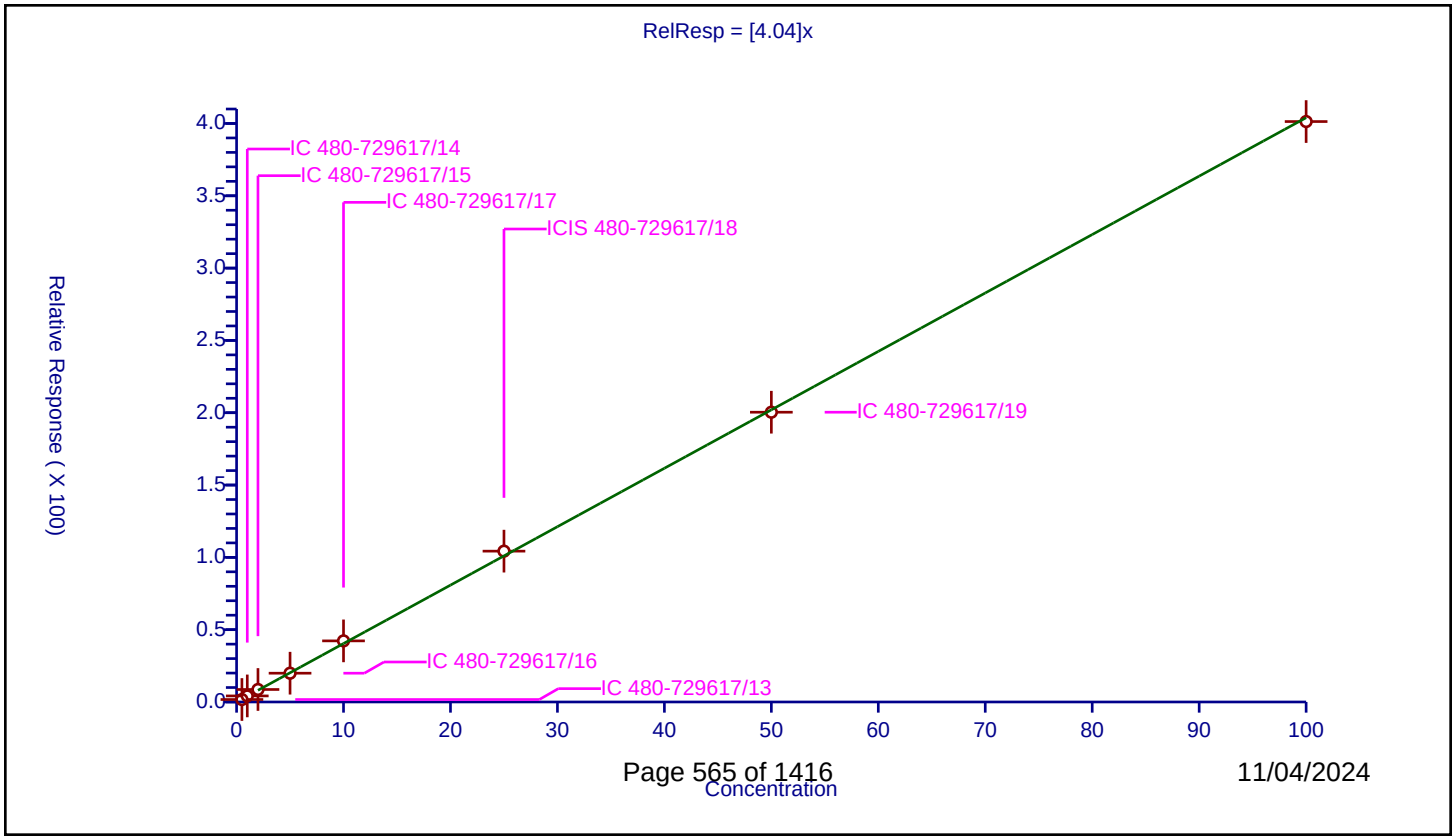
Curve Coefficients

Intercept:	0
Slope:	4.04

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.705701	25.0	183473.0	3.411401	Y
2	IC 480-729617/14	1.0	4.19177	25.0	190051.0	4.19177	Y
3	IC 480-729617/15	2.0	8.637585	25.0	182305.0	4.318793	Y
4	IC 480-729617/16	5.0	19.8964	25.0	187887.0	3.97928	Y
5	IC 480-729617/17	10.0	42.258988	25.0	172865.0	4.225899	Y
6	ICIS 480-729617/18	25.0	104.292811	25.0	186096.0	4.171712	Y
7	IC 480-729617/19	50.0	200.356959	25.0	193930.0	4.007139	Y
8	IC 480-729617/20	100.0	401.338214	25.0	192925.0	4.013382	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

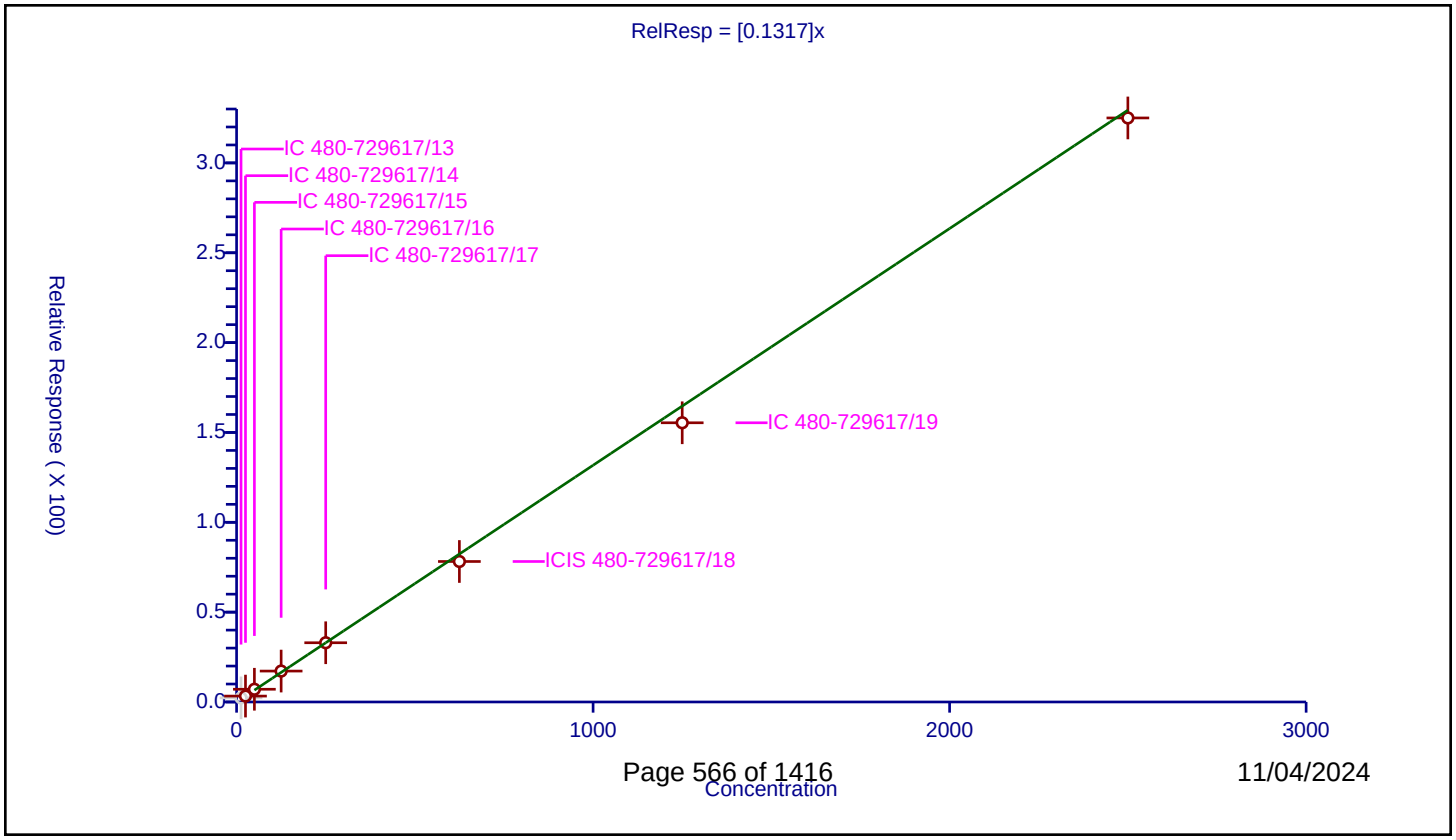
Curve Coefficients

Intercept:	0
Slope:	0.1317

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	12.5	2.286304	25.0	183473.0	0.182904	N
2	IC 480-729617/14	25.0	3.294247	25.0	190051.0	0.13177	Y
3	IC 480-729617/15	50.0	7.078934	25.0	182305.0	0.141579	Y
4	IC 480-729617/16	125.0	17.200232	25.0	187887.0	0.137602	Y
5	IC 480-729617/17	250.0	32.964018	25.0	172865.0	0.131856	Y
6	ICIS 480-729617/18	625.0	78.1829	25.0	186096.0	0.125093	Y
7	IC 480-729617/19	1250.0	155.387898	25.0	193930.0	0.12431	Y
8	IC 480-729617/20	2500.0	325.025917	25.0	192925.0	0.13001	Y



11/04/2024

Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

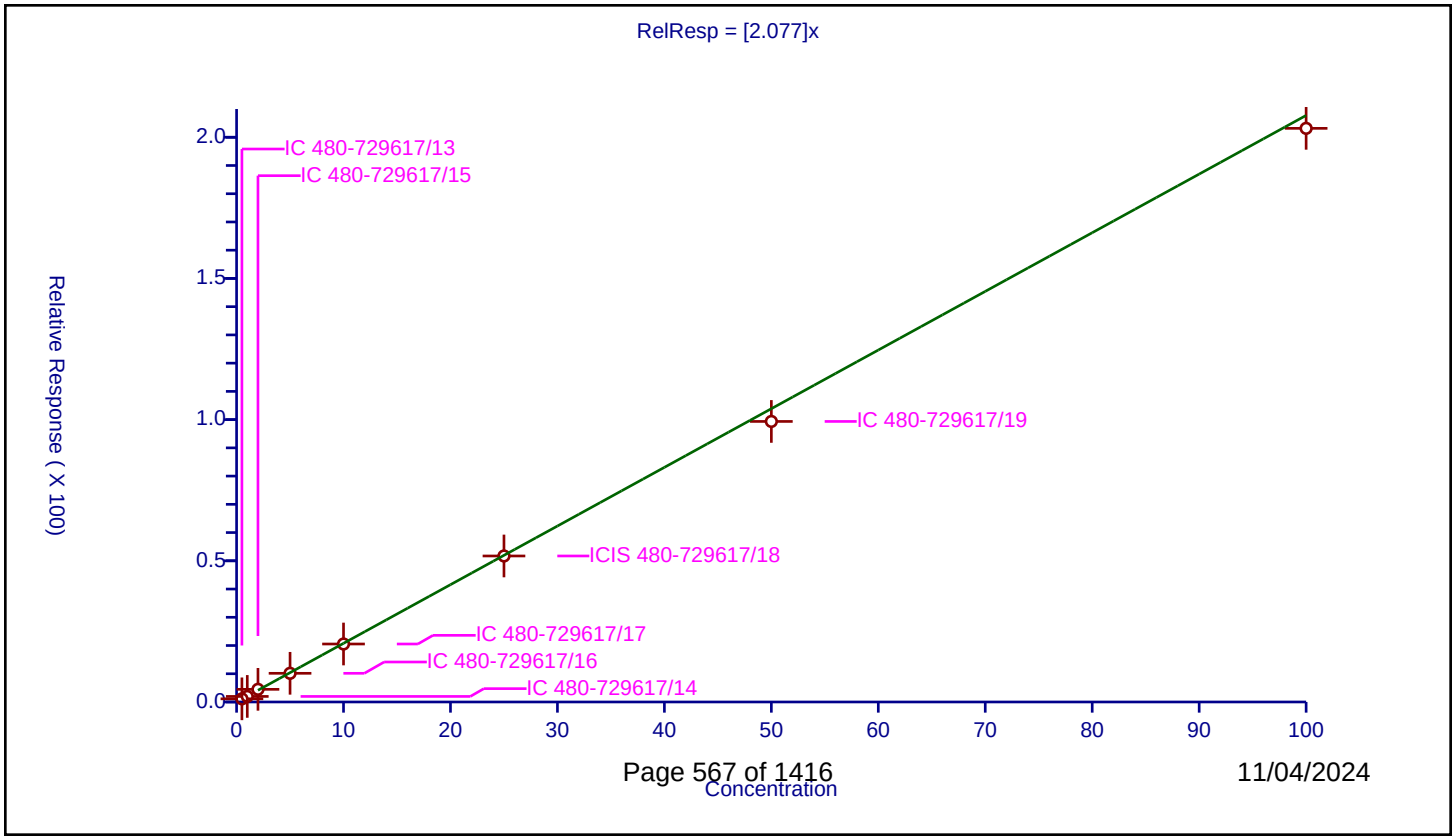
Curve Coefficients

Intercept:	0
Slope:	2.077

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.116513	25.0	183473.0	2.233026	Y
2	IC 480-729617/14	1.0	1.972628	25.0	190051.0	1.972628	Y
3	IC 480-729617/15	2.0	4.483969	25.0	182305.0	2.241985	Y
4	IC 480-729617/16	5.0	10.153044	25.0	187887.0	2.030609	Y
5	IC 480-729617/17	10.0	20.536401	25.0	172865.0	2.05364	Y
6	ICIS 480-729617/18	25.0	51.706243	25.0	186096.0	2.06825	Y
7	IC 480-729617/19	50.0	99.350797	25.0	193930.0	1.987016	Y
8	IC 480-729617/20	100.0	203.157574	25.0	192925.0	2.031576	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

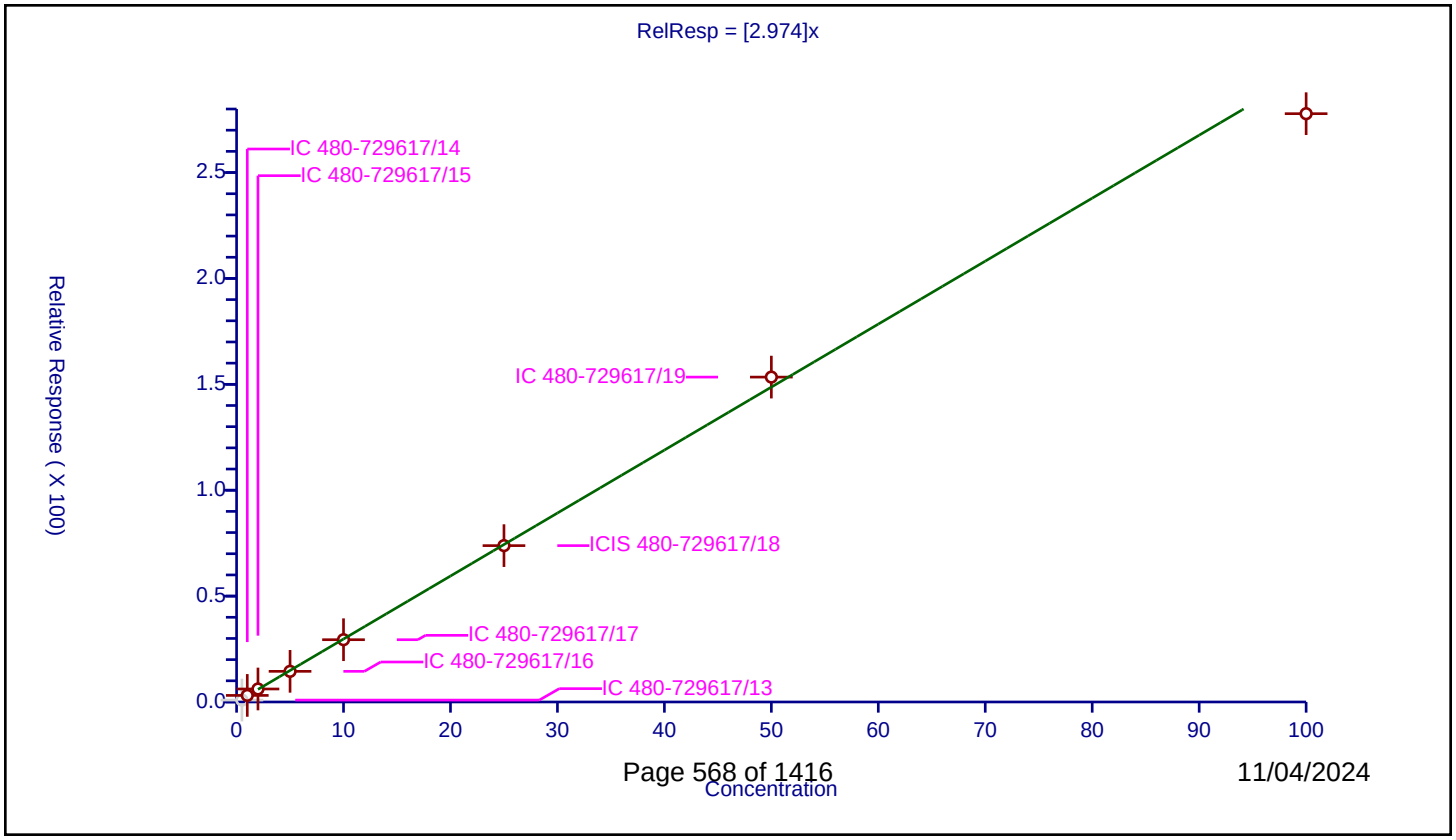
Curve Coefficients

Intercept:	0
Slope:	2.974

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.89768	25.0	183473.0	1.79536	N
2	IC 480-729617/14	1.0	3.109165	25.0	190051.0	3.109165	Y
3	IC 480-729617/15	2.0	6.141082	25.0	182305.0	3.070541	Y
4	IC 480-729617/16	5.0	14.47998	25.0	187887.0	2.895996	Y
5	IC 480-729617/17	10.0	29.410233	25.0	172865.0	2.941023	Y
6	ICIS 480-729617/18	25.0	73.838637	25.0	186096.0	2.953545	Y
7	IC 480-729617/19	50.0	153.418759	25.0	193930.0	3.068375	Y
8	IC 480-729617/20	100.0	277.8007	25.0	192925.0	2.778007	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

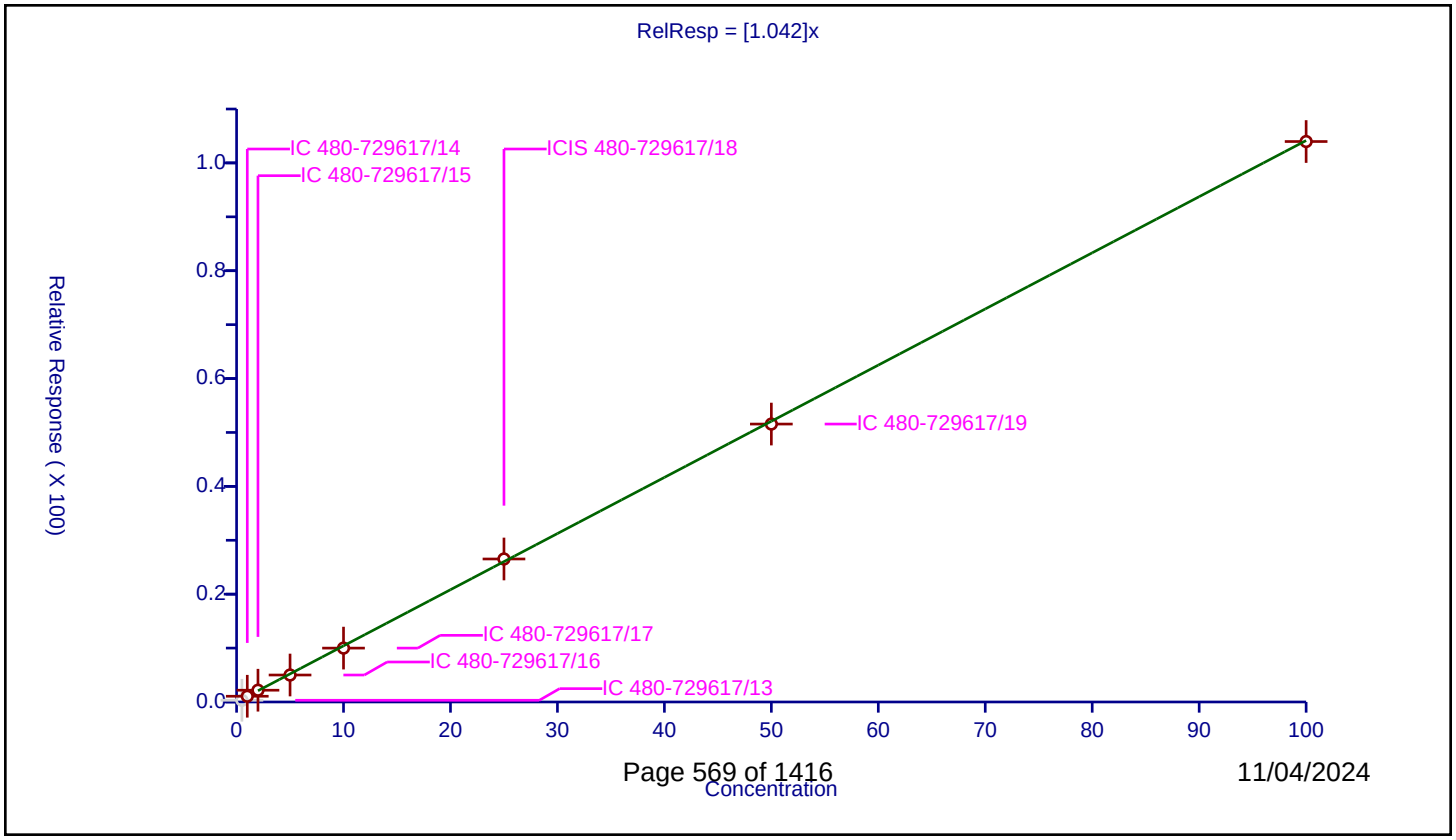
Curve Coefficients

Intercept:	0
Slope:	1.042

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.319938	25.0	183473.0	0.639876	N
2	IC 480-729617/14	1.0	1.067082	25.0	190051.0	1.067082	Y
3	IC 480-729617/15	2.0	2.183017	25.0	182305.0	1.091509	Y
4	IC 480-729617/16	5.0	5.002608	25.0	187887.0	1.000522	Y
5	IC 480-729617/17	10.0	9.996529	25.0	172865.0	0.999653	Y
6	ICIS 480-729617/18	25.0	26.525557	25.0	186096.0	1.061022	Y
7	IC 480-729617/19	50.0	51.55997	25.0	193930.0	1.031199	Y
8	IC 480-729617/20	100.0	103.969029	25.0	192925.0	1.03969	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

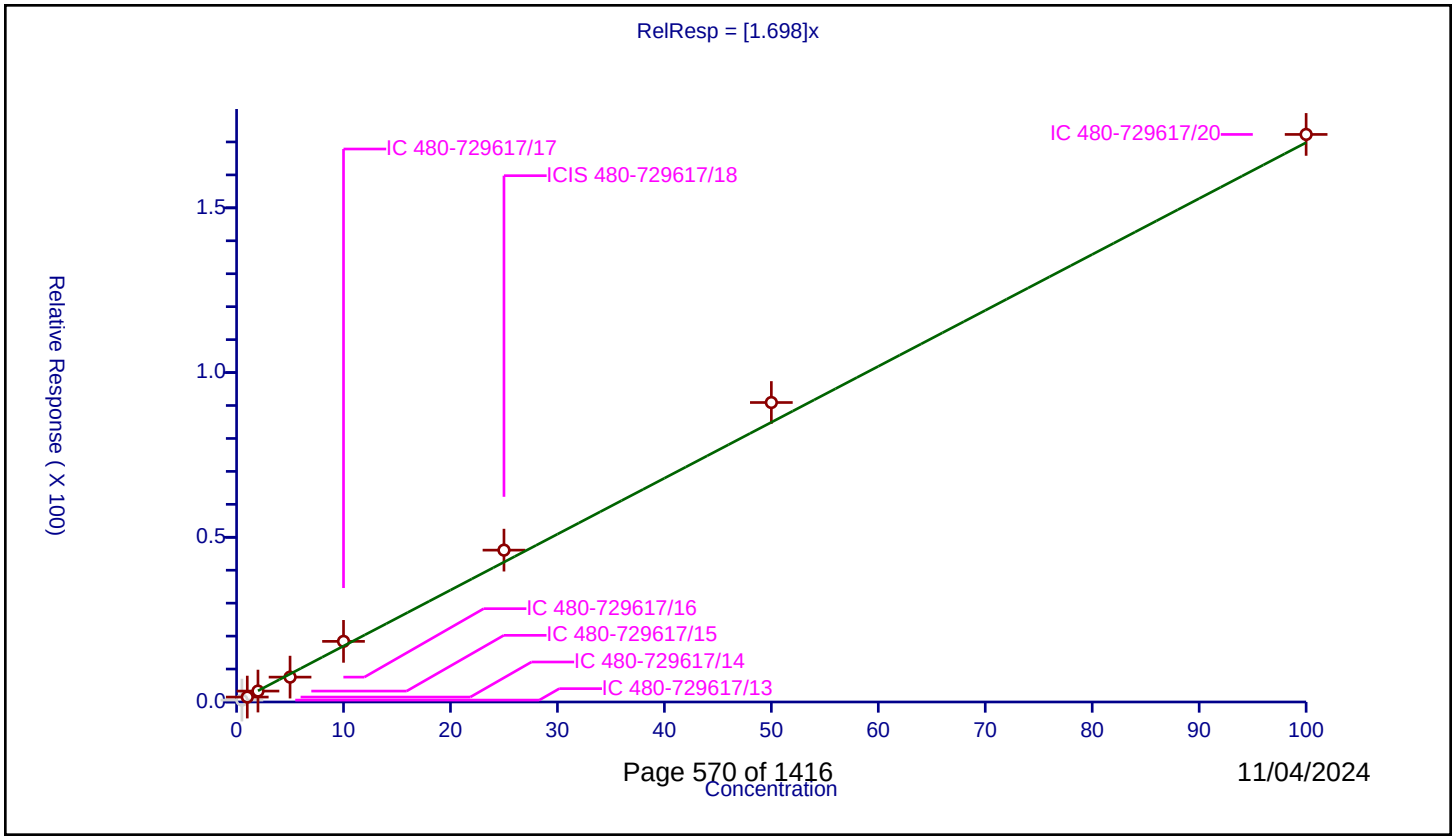
Curve Coefficients

Intercept:	0
Slope:	1.698

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.575425	25.0	183473.0	1.150851	N
2	IC 480-729617/14	1.0	1.495257	25.0	190051.0	1.495257	Y
3	IC 480-729617/15	2.0	3.311895	25.0	182305.0	1.655947	Y
4	IC 480-729617/16	5.0	7.55148	25.0	187887.0	1.510296	Y
5	IC 480-729617/17	10.0	18.405403	25.0	172865.0	1.84054	Y
6	ICIS 480-729617/18	25.0	46.095026	25.0	186096.0	1.843801	Y
7	IC 480-729617/19	50.0	90.906384	25.0	193930.0	1.818128	Y
8	IC 480-729617/20	100.0	172.282104	25.0	192925.0	1.722821	Y



11/04/2024

Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

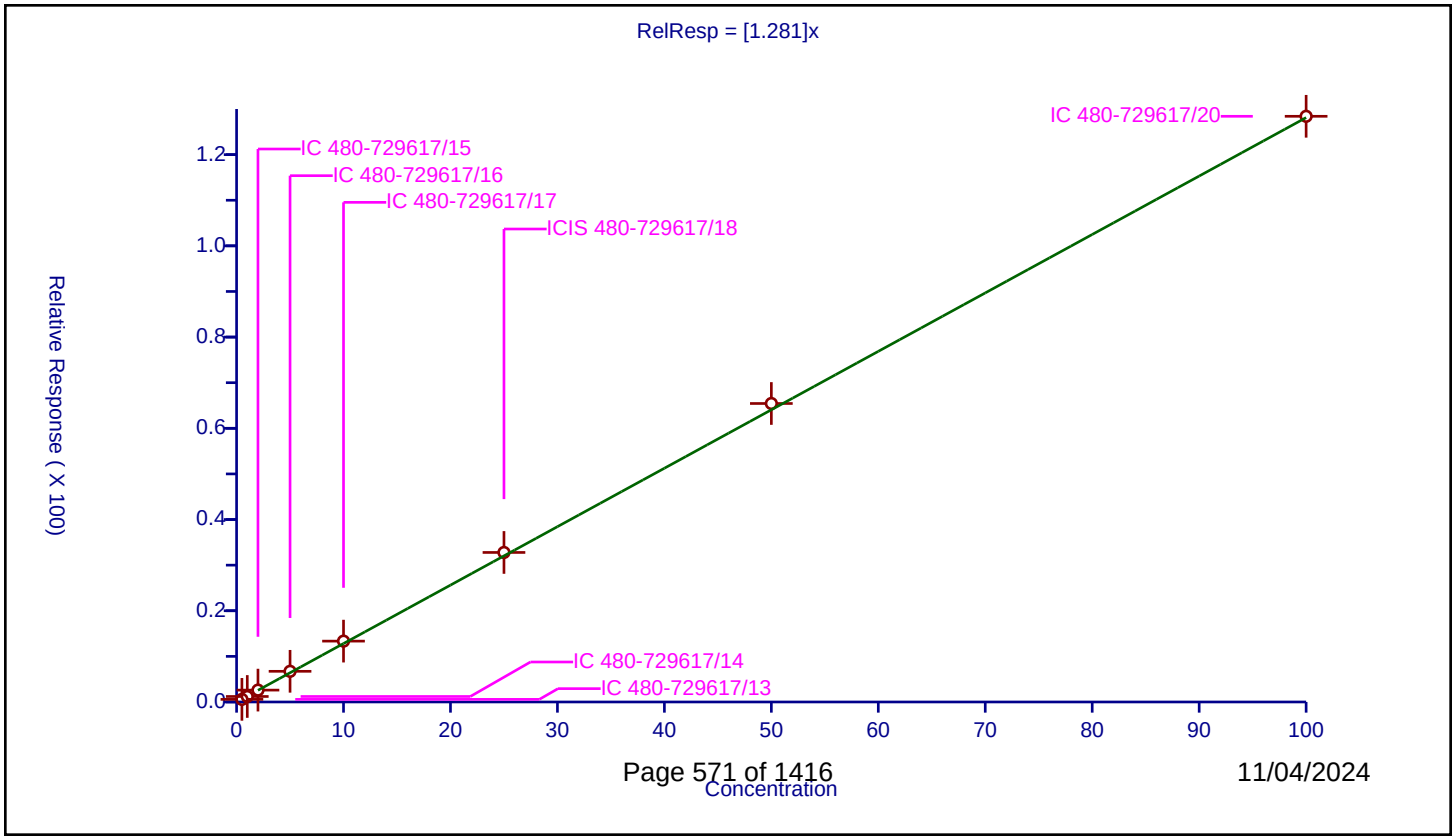
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.577605	25.0	183473.0	1.155211	Y
2	IC 480-729617/14	1.0	1.207439	25.0	190051.0	1.207439	Y
3	IC 480-729617/15	2.0	2.606895	25.0	182305.0	1.303448	Y
4	IC 480-729617/16	5.0	6.724254	25.0	187887.0	1.344851	Y
5	IC 480-729617/17	10.0	13.341191	25.0	172865.0	1.334119	Y
6	ICIS 480-729617/18	25.0	32.782542	25.0	186096.0	1.311302	Y
7	IC 480-729617/19	50.0	65.439205	25.0	193930.0	1.308784	Y
8	IC 480-729617/20	100.0	128.401451	25.0	192925.0	1.284015	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

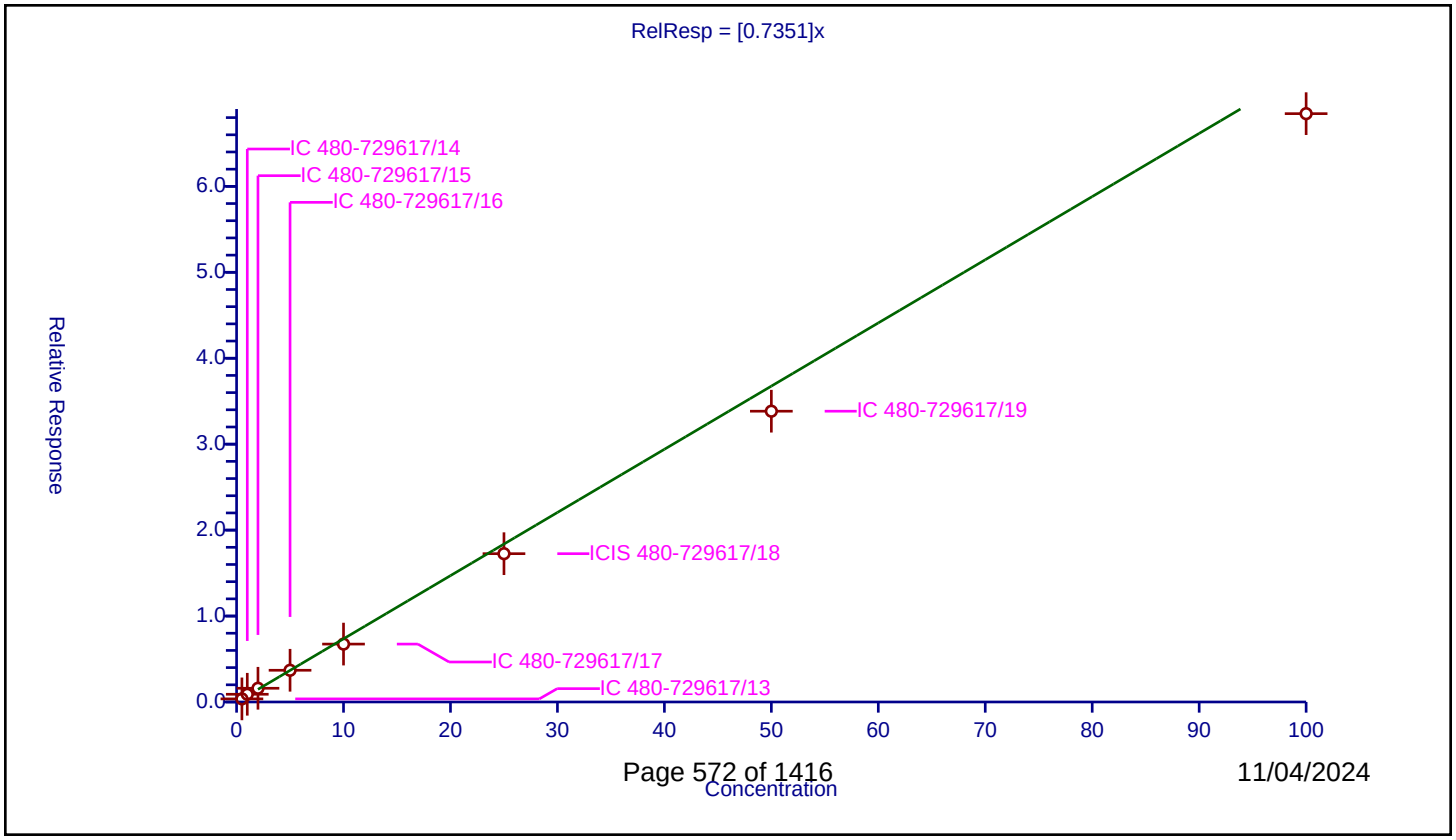
Curve Coefficients

Intercept:	0
Slope:	0.7351

Error Coefficients

Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.36068	25.0	183473.0	0.72136	Y
2	IC 480-729617/14	1.0	0.897128	25.0	190051.0	0.897128	Y
3	IC 480-729617/15	2.0	1.598009	25.0	182305.0	0.799004	Y
4	IC 480-729617/16	5.0	3.689851	25.0	187887.0	0.73797	Y
5	IC 480-729617/17	10.0	6.737628	25.0	172865.0	0.673763	Y
6	ICIS 480-729617/18	25.0	17.257088	25.0	186096.0	0.690284	Y
7	IC 480-729617/19	50.0	33.837467	25.0	193930.0	0.676749	Y
8	IC 480-729617/20	100.0	68.460282	25.0	192925.0	0.684603	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

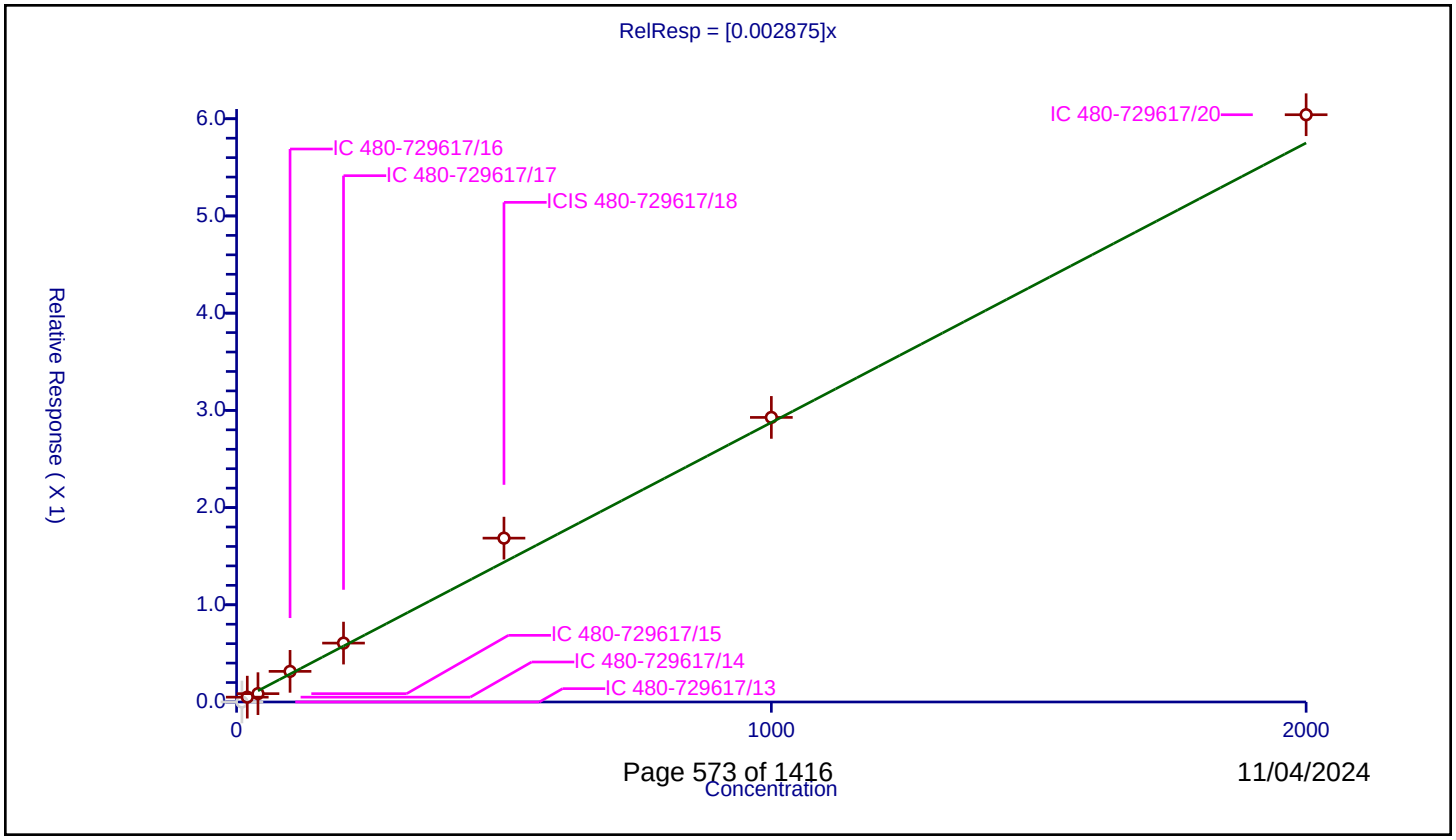
Curve Coefficients

Intercept:	0
Slope:	0.002875

Error Coefficients

Relative Standard Deviation:	14.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	10.0	0.0	25.0	640920.0	0.0	N
2	IC 480-729617/14	20.0	0.049753	25.0	656244.0	0.002488	Y
3	IC 480-729617/15	40.0	0.08566	25.0	648789.0	0.002141	Y
4	IC 480-729617/16	100.0	0.315027	25.0	680417.0	0.00315	Y
5	IC 480-729617/17	200.0	0.605878	25.0	627437.0	0.003029	Y
6	ICIS 480-729617/18	500.0	1.685513	25.0	644937.0	0.003371	Y
7	IC 480-729617/19	1000.0	2.927313	25.0	683861.0	0.002927	Y
8	IC 480-729617/20	2000.0	6.041166	25.0	683407.0	0.003021	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

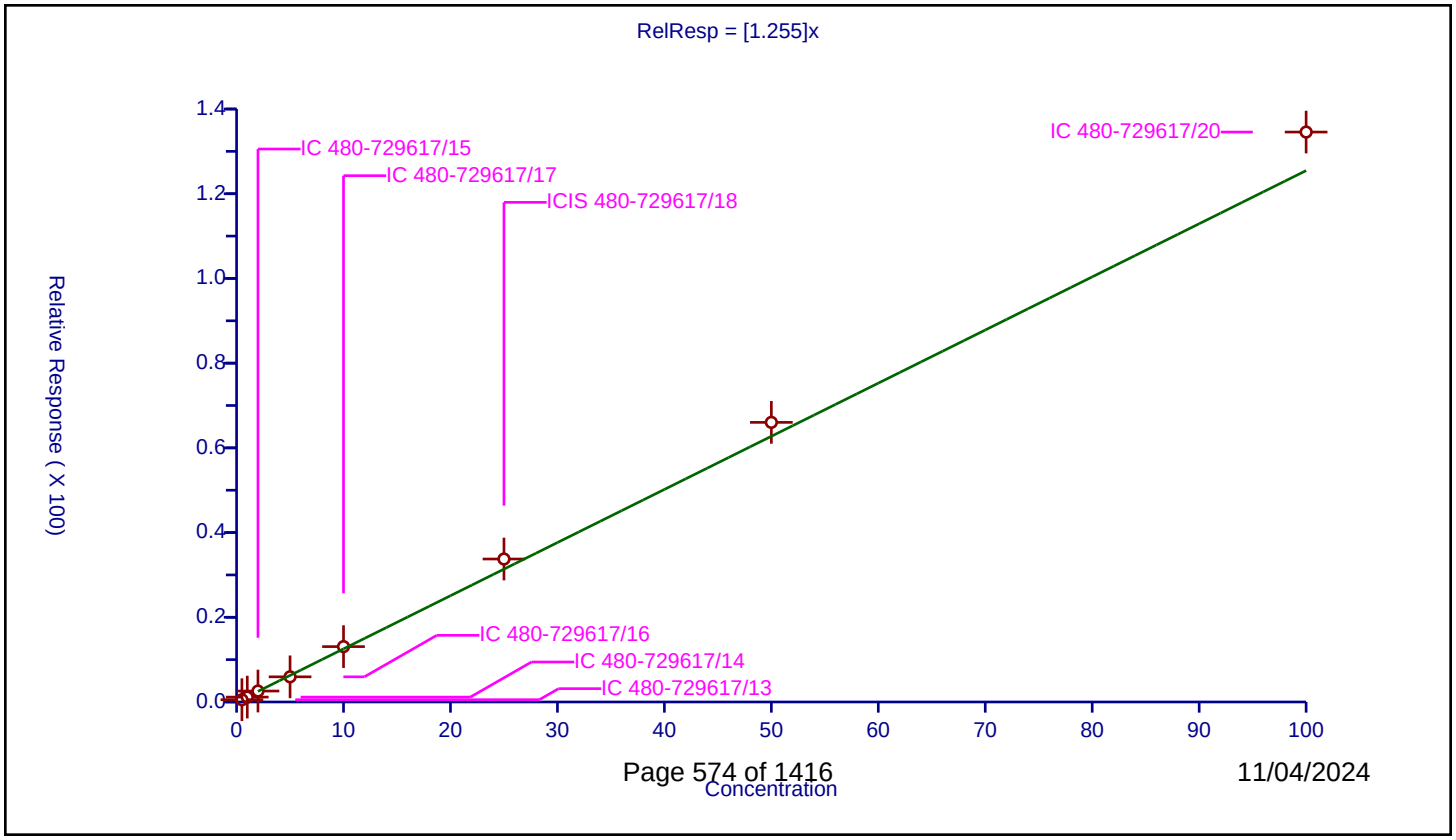
Curve Coefficients

Intercept:	0
Slope:	1.255

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.538635	25.0	183473.0	1.07727	Y
2	IC 480-729617/14	1.0	1.157716	25.0	190051.0	1.157716	Y
3	IC 480-729617/15	2.0	2.581388	25.0	182305.0	1.290694	Y
4	IC 480-729617/16	5.0	5.939607	25.0	187887.0	1.187921	Y
5	IC 480-729617/17	10.0	13.071183	25.0	172865.0	1.307118	Y
6	ICIS 480-729617/18	25.0	33.753412	25.0	186096.0	1.350136	Y
7	IC 480-729617/19	50.0	66.018795	25.0	193930.0	1.320376	Y
8	IC 480-729617/20	100.0	134.557859	25.0	192925.0	1.345579	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

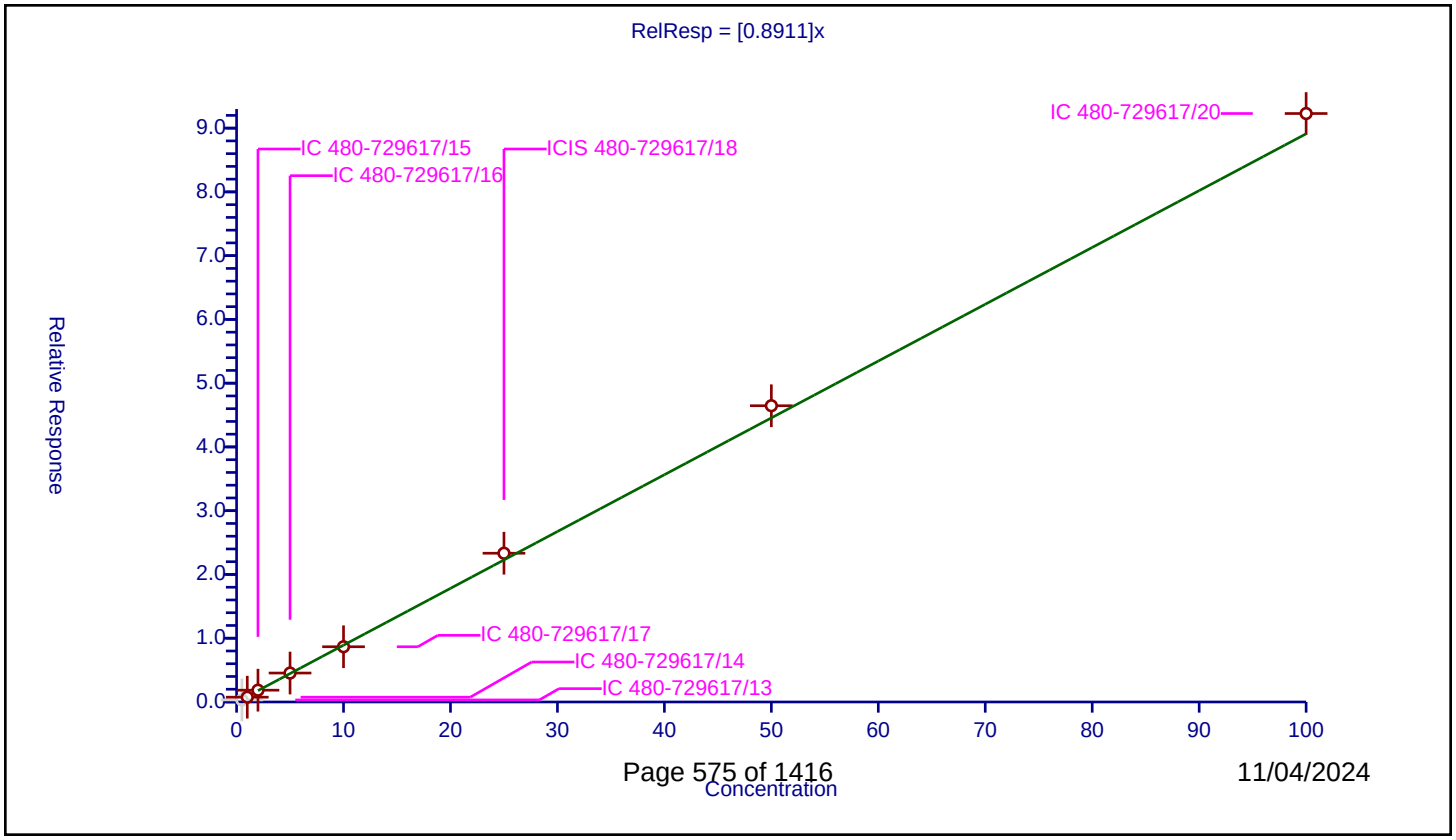
Curve Coefficients

Intercept:	0
Slope:	0.8911

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.322527	25.0	183473.0	0.645054	N
2	IC 480-729617/14	1.0	0.753877	25.0	190051.0	0.753877	Y
3	IC 480-729617/15	2.0	1.848962	25.0	182305.0	0.924481	Y
4	IC 480-729617/16	5.0	4.5381	25.0	187887.0	0.90762	Y
5	IC 480-729617/17	10.0	8.665143	25.0	172865.0	0.866514	Y
6	ICIS 480-729617/18	25.0	23.330969	25.0	186096.0	0.933239	Y
7	IC 480-729617/19	50.0	46.461868	25.0	193930.0	0.929237	Y
8	IC 480-729617/20	100.0	92.291823	25.0	192925.0	0.922918	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

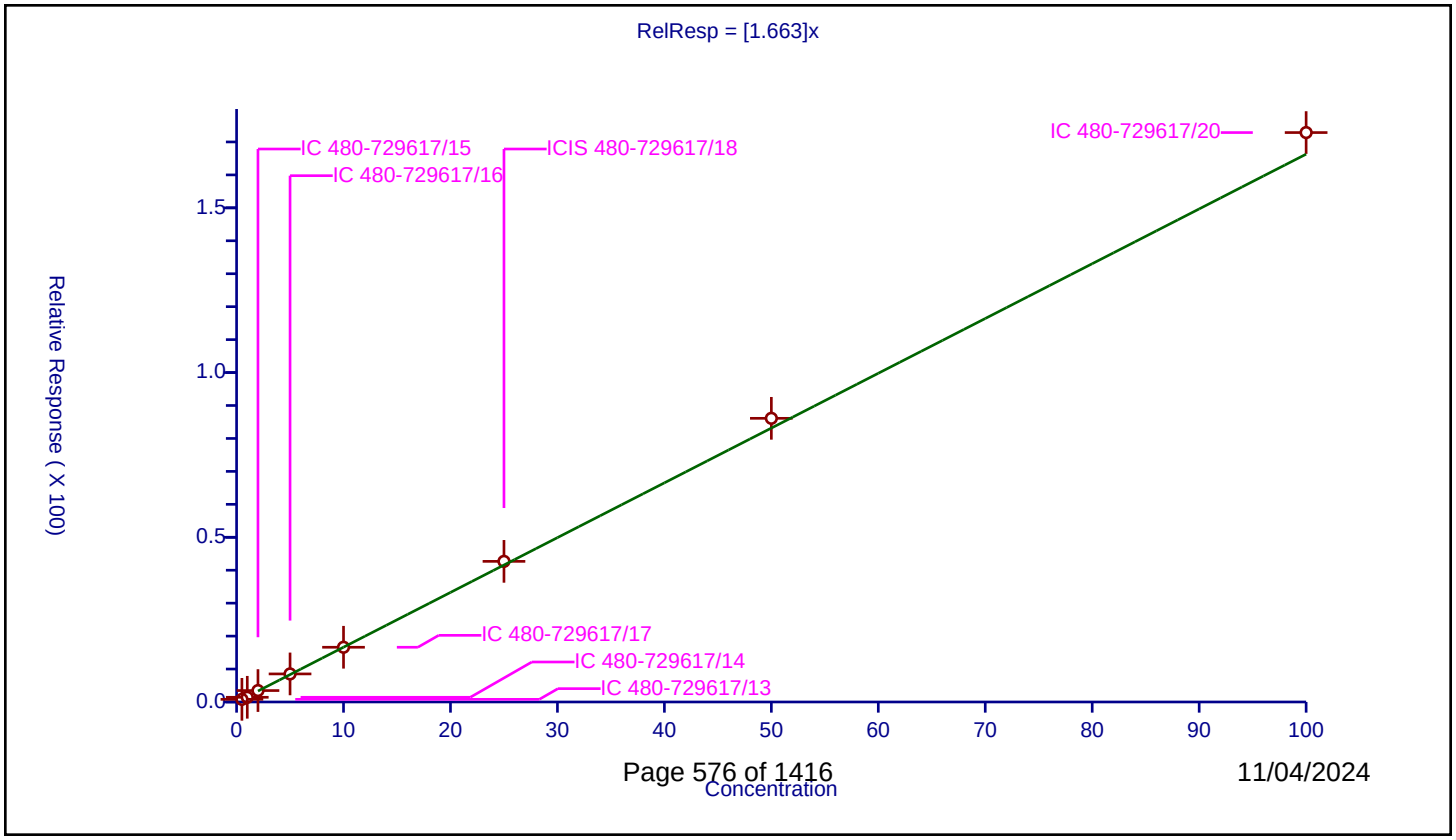
Curve Coefficients

Intercept:	0
Slope:	1.663

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.808157	25.0	183473.0	1.616314	Y
2	IC 480-729617/14	1.0	1.431195	25.0	190051.0	1.431195	Y
3	IC 480-729617/15	2.0	3.465895	25.0	182305.0	1.732948	Y
4	IC 480-729617/16	5.0	8.518152	25.0	187887.0	1.70363	Y
5	IC 480-729617/17	10.0	16.614121	25.0	172865.0	1.661412	Y
6	ICIS 480-729617/18	25.0	42.690063	25.0	186096.0	1.707603	Y
7	IC 480-729617/19	50.0	86.111999	25.0	193930.0	1.72224	Y
8	IC 480-729617/20	100.0	172.853311	25.0	192925.0	1.728533	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

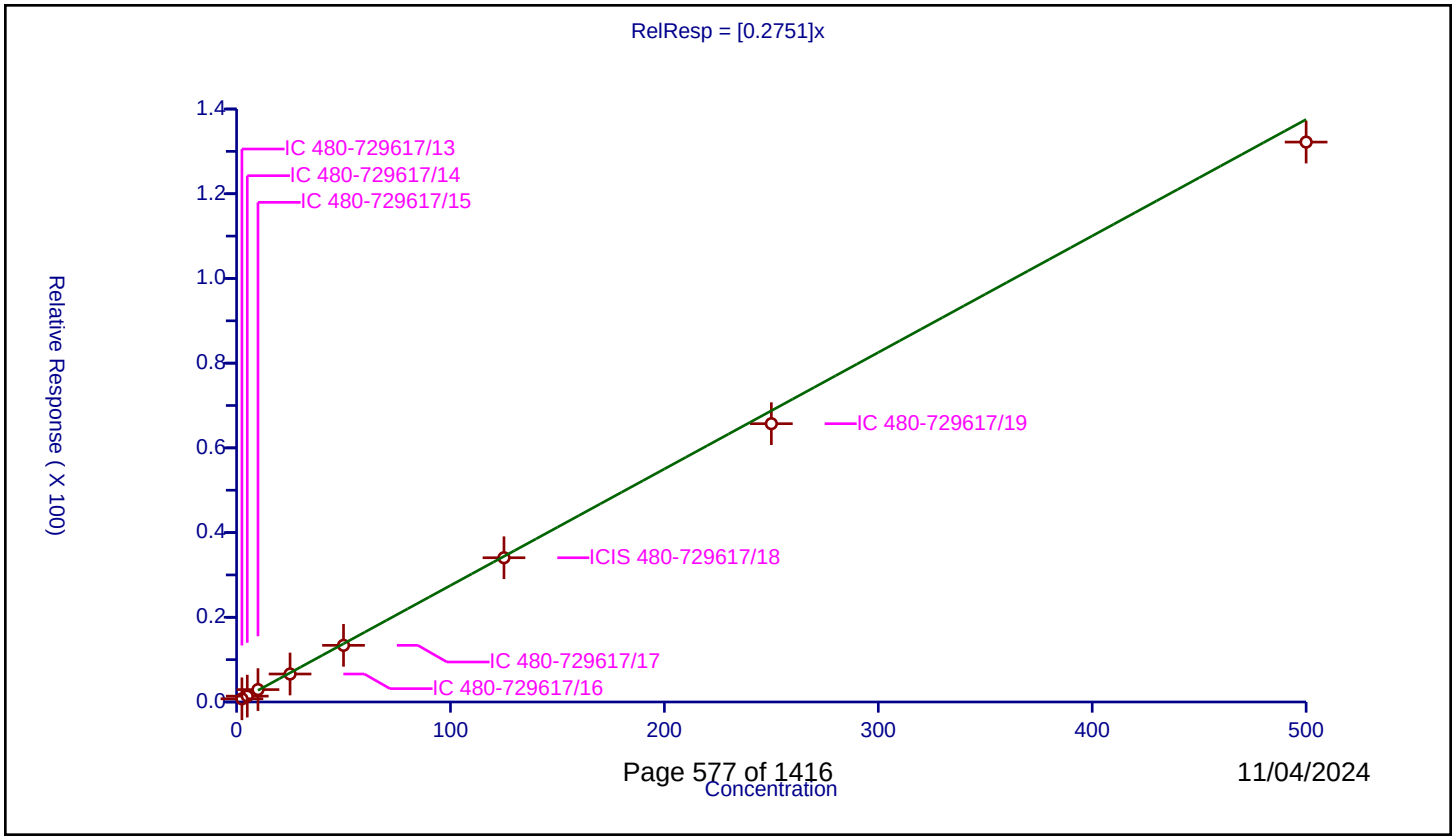
Curve Coefficients

Intercept:	0
Slope:	0.2751

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	2.5	0.751615	25.0	640920.0	0.300646	Y
2	IC 480-729617/14	5.0	1.38127	25.0	656244.0	0.276254	Y
3	IC 480-729617/15	10.0	2.922368	25.0	648789.0	0.292237	Y
4	IC 480-729617/16	25.0	6.607382	25.0	680417.0	0.264295	Y
5	IC 480-729617/17	50.0	13.374251	25.0	627437.0	0.267485	Y
6	ICIS 480-729617/18	125.0	34.059102	25.0	644937.0	0.272473	Y
7	IC 480-729617/19	250.0	65.707797	25.0	683861.0	0.262831	Y
8	IC 480-729617/20	500.0	132.190591	25.0	683407.0	0.264381	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

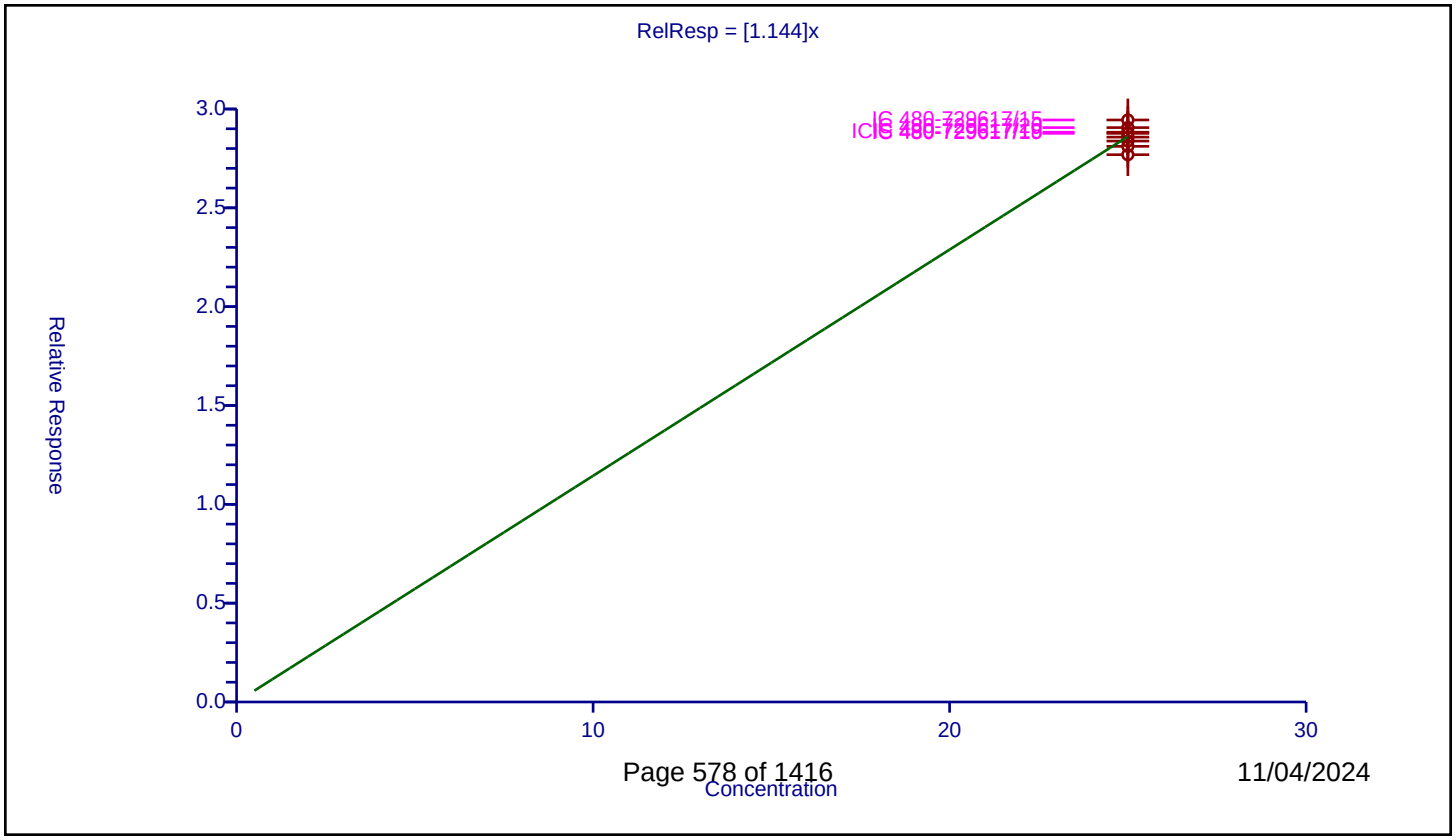
Curve Coefficients

Intercept:	0
Slope:	1.144

Error Coefficients

Relative Standard Deviation:	1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	25.0	27.689532	25.0	640920.0	1.107581	Y
2	IC 480-729617/14	25.0	28.577976	25.0	656244.0	1.143119	Y
3	IC 480-729617/15	25.0	29.444935	25.0	648789.0	1.177797	Y
4	IC 480-729617/16	25.0	28.378443	25.0	680417.0	1.135138	Y
5	IC 480-729617/17	25.0	28.111587	25.0	627437.0	1.124463	Y
6	ICIS 480-729617/18	25.0	28.825645	25.0	644937.0	1.153026	Y
7	IC 480-729617/19	25.0	28.767908	25.0	683861.0	1.150716	Y
8	IC 480-729617/20	25.0	29.05966	25.0	683407.0	1.162386	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

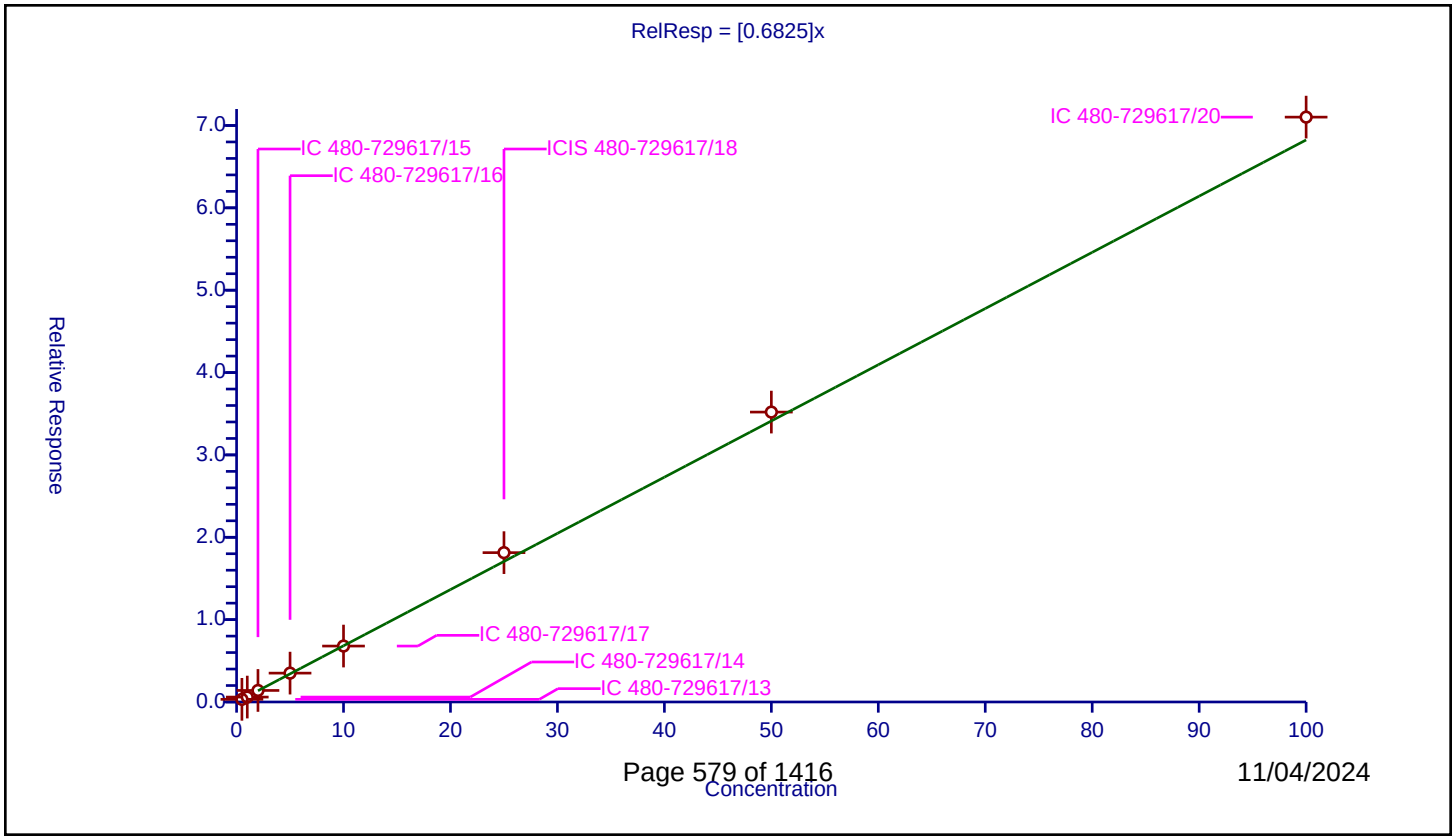
Curve Coefficients

Intercept:	0
Slope:	0.6825

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.321959	25.0	640920.0	0.643918	Y
2	IC 480-729617/14	1.0	0.596158	25.0	656244.0	0.596158	Y
3	IC 480-729617/15	2.0	1.399608	25.0	648789.0	0.699804	Y
4	IC 480-729617/16	5.0	3.505314	25.0	680417.0	0.701063	Y
5	IC 480-729617/17	10.0	6.791439	25.0	627437.0	0.679144	Y
6	ICIS 480-729617/18	25.0	18.133166	25.0	644937.0	0.725327	Y
7	IC 480-729617/19	50.0	35.202548	25.0	683861.0	0.704051	Y
8	IC 480-729617/20	100.0	71.016612	25.0	683407.0	0.710166	Y



11/04/2024

Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

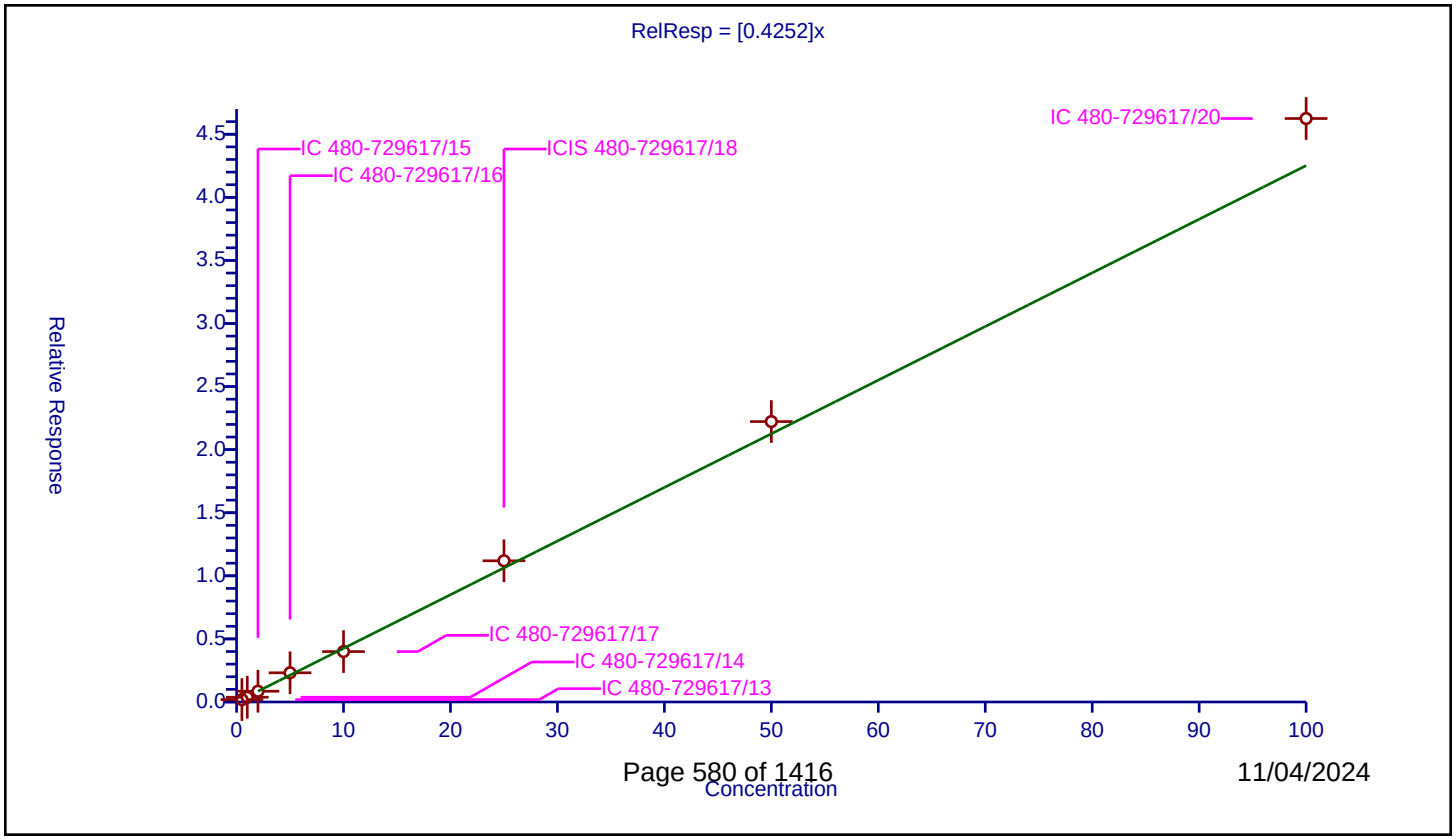
Curve Coefficients

Intercept:	0
Slope:	0.4252

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.189961	25.0	640920.0	0.379923	Y
2	IC 480-729617/14	1.0	0.377946	25.0	656244.0	0.377946	Y
3	IC 480-729617/15	2.0	0.852781	25.0	648789.0	0.426391	Y
4	IC 480-729617/16	5.0	2.313544	25.0	680417.0	0.462709	Y
5	IC 480-729617/17	10.0	3.996298	25.0	627437.0	0.39963	Y
6	ICIS 480-729617/18	25.0	11.191171	25.0	644937.0	0.447647	Y
7	IC 480-729617/19	50.0	22.225789	25.0	683861.0	0.444516	Y
8	IC 480-729617/20	100.0	46.247478	25.0	683407.0	0.462475	Y



11/04/2024

Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

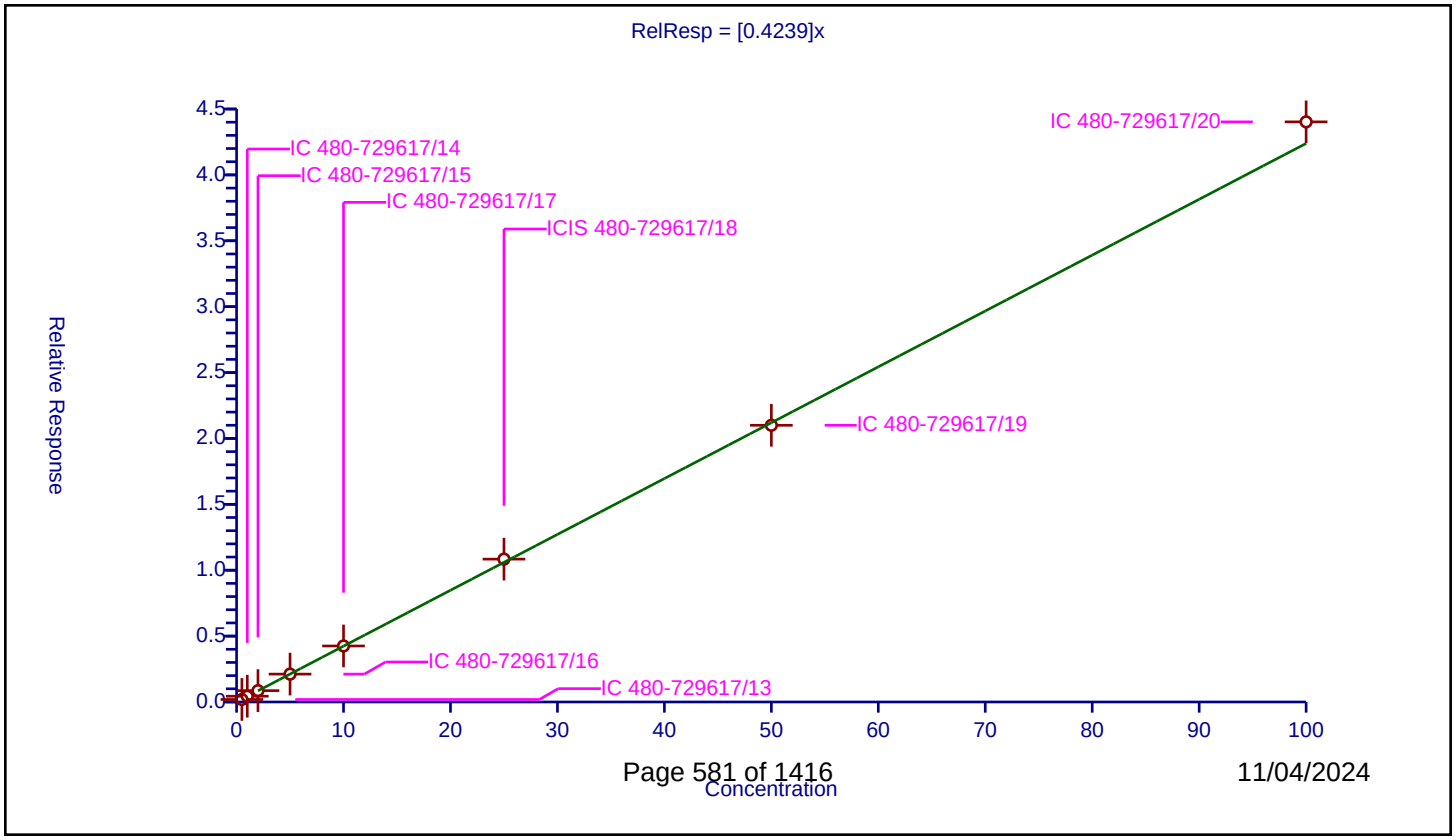
Curve Coefficients

Intercept:	0
Slope:	0.4239

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.190429	25.0	640920.0	0.380859	Y
2	IC 480-729617/14	1.0	0.437718	25.0	656244.0	0.437718	Y
3	IC 480-729617/15	2.0	0.860449	25.0	648789.0	0.430225	Y
4	IC 480-729617/16	5.0	2.116349	25.0	680417.0	0.42327	Y
5	IC 480-729617/17	10.0	4.250188	25.0	627437.0	0.425019	Y
6	ICIS 480-729617/18	25.0	10.841679	25.0	644937.0	0.433667	Y
7	IC 480-729617/19	50.0	20.99831	25.0	683861.0	0.419966	Y
8	IC 480-729617/20	100.0	44.025229	25.0	683407.0	0.440252	Y



11/04/2024

Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

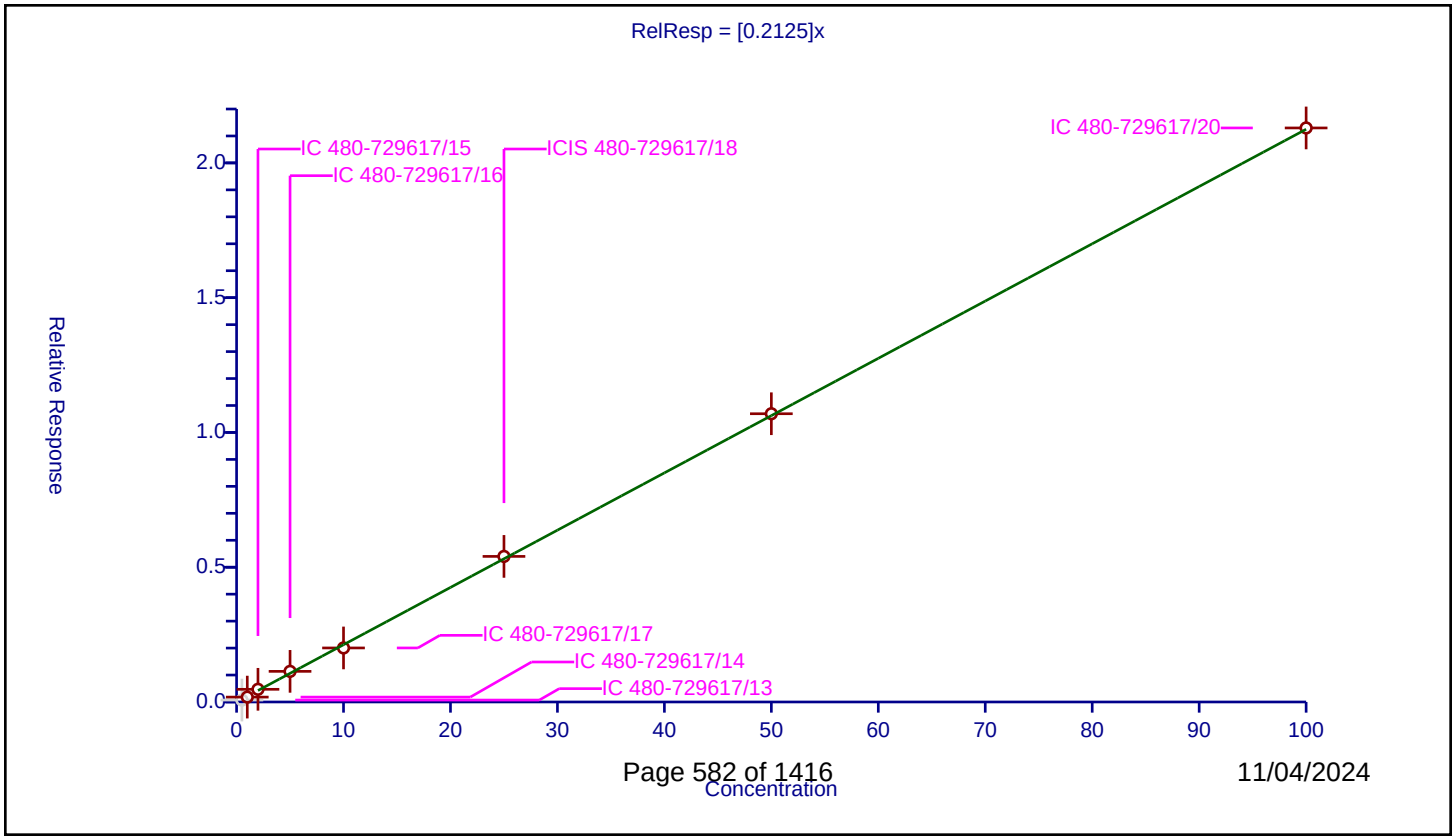
Curve Coefficients

Intercept:	0
Slope:	0.2125

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.071733	25.0	640920.0	0.143466	N
2	IC 480-729617/14	1.0	0.181487	25.0	656244.0	0.181487	Y
3	IC 480-729617/15	2.0	0.47053	25.0	648789.0	0.235265	Y
4	IC 480-729617/16	5.0	1.136288	25.0	680417.0	0.227258	Y
5	IC 480-729617/17	10.0	2.005301	25.0	627437.0	0.20053	Y
6	ICIS 480-729617/18	25.0	5.401225	25.0	644937.0	0.216049	Y
7	IC 480-729617/19	50.0	10.694937	25.0	683861.0	0.213899	Y
8	IC 480-729617/20	100.0	21.297923	25.0	683407.0	0.212979	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

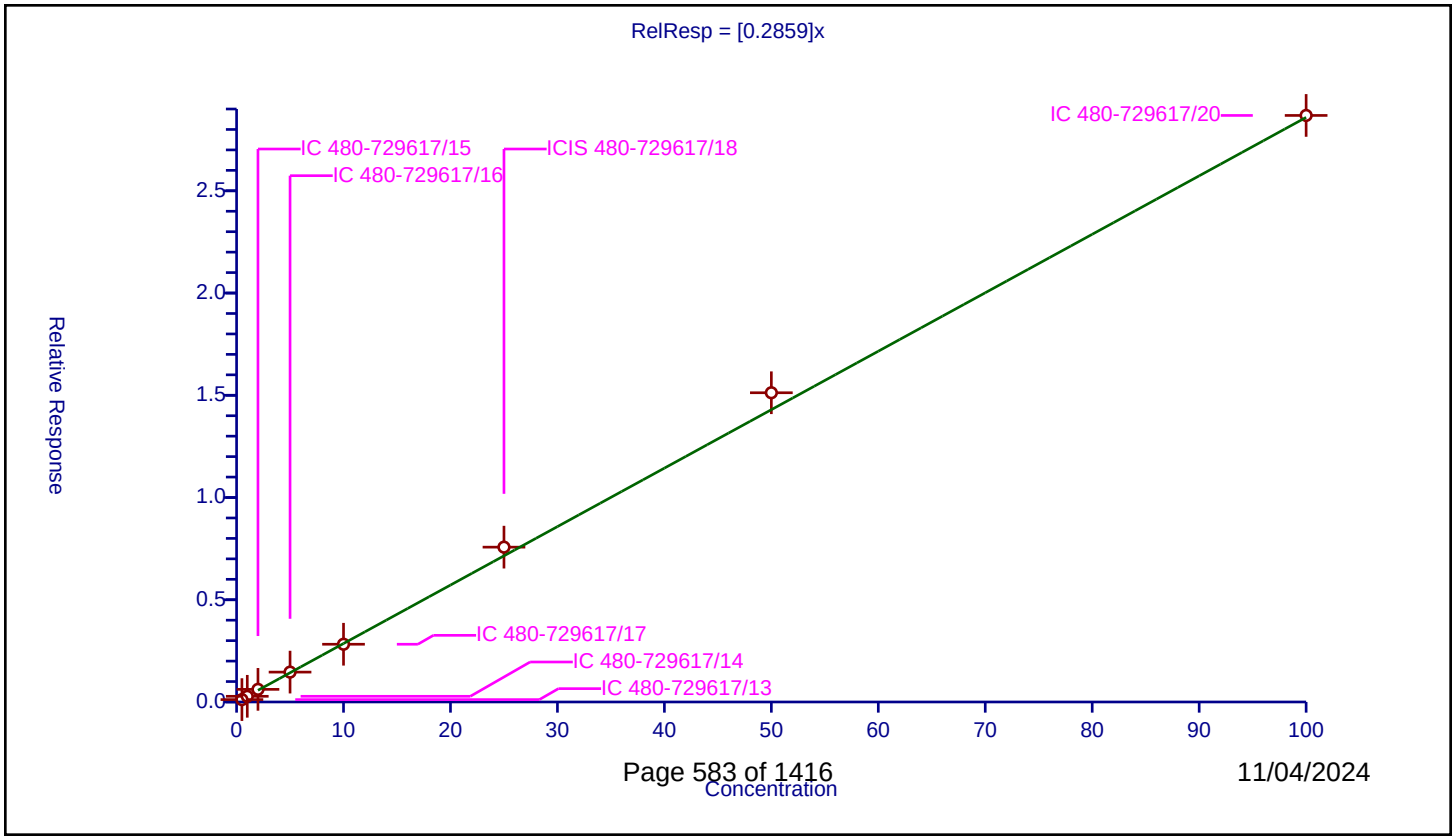
Curve Coefficients

Intercept:	0
Slope:	0.2859

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.116902	25.0	640920.0	0.233805	Y
2	IC 480-729617/14	1.0	0.27806	25.0	656244.0	0.27806	Y
3	IC 480-729617/15	2.0	0.61715	25.0	648789.0	0.308575	Y
4	IC 480-729617/16	5.0	1.460795	25.0	680417.0	0.292159	Y
5	IC 480-729617/17	10.0	2.824547	25.0	627437.0	0.282455	Y
6	ICIS 480-729617/18	25.0	7.572174	25.0	644937.0	0.302887	Y
7	IC 480-729617/19	50.0	15.123761	25.0	683861.0	0.302475	Y
8	IC 480-729617/20	100.0	28.685615	25.0	683407.0	0.286856	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

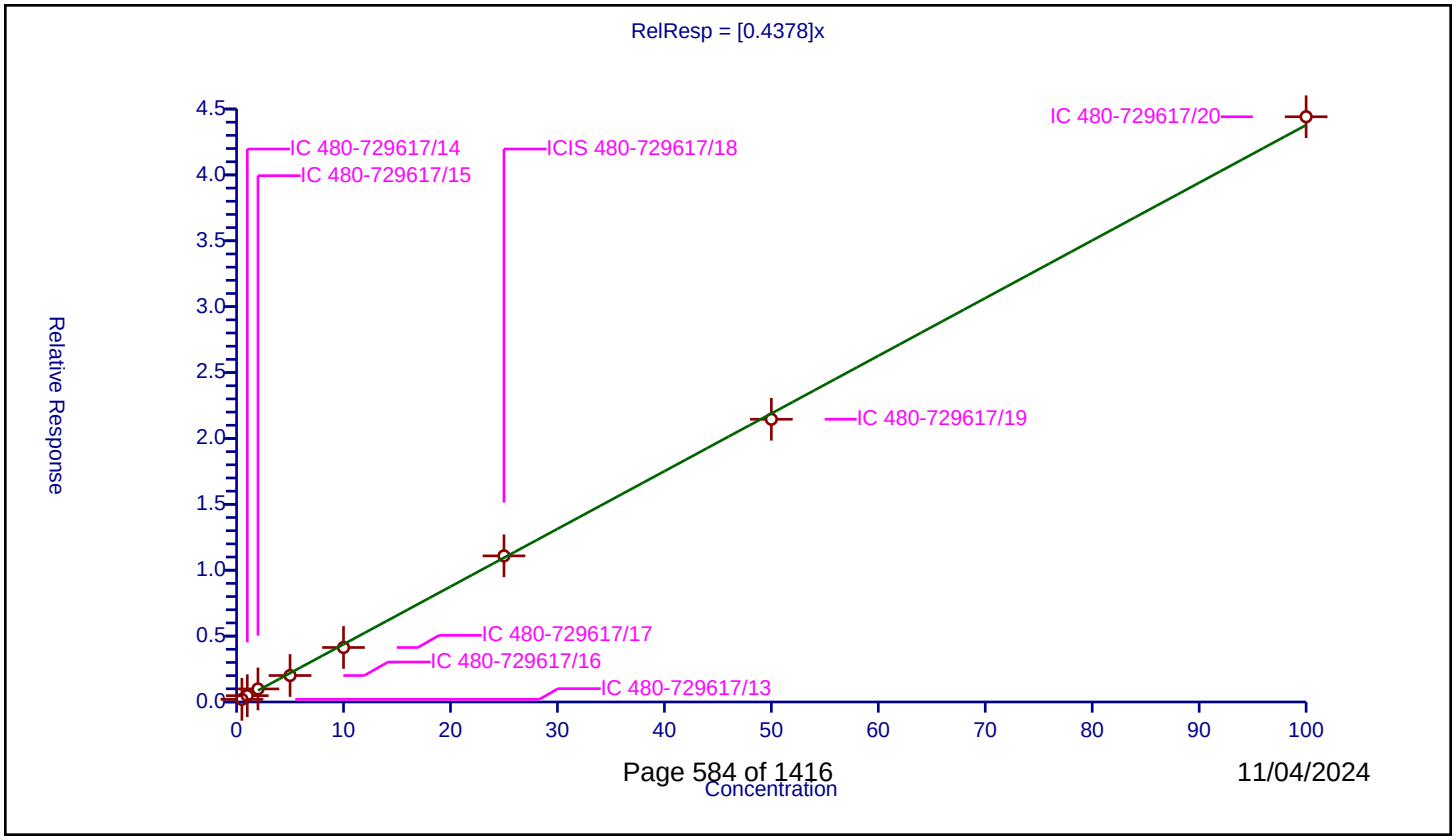
Curve Coefficients

Intercept:	0
Slope:	0.4378

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.198504	25.0	640920.0	0.397007	Y
2	IC 480-729617/14	1.0	0.478062	25.0	656244.0	0.478062	Y
3	IC 480-729617/15	2.0	0.990499	25.0	648789.0	0.49525	Y
4	IC 480-729617/16	5.0	2.009172	25.0	680417.0	0.401834	Y
5	IC 480-729617/17	10.0	4.136272	25.0	627437.0	0.413627	Y
6	ICIS 480-729617/18	25.0	11.08899	25.0	644937.0	0.44356	Y
7	IC 480-729617/19	50.0	21.457248	25.0	683861.0	0.429145	Y
8	IC 480-729617/20	100.0	44.412371	25.0	683407.0	0.444124	Y



11/04/2024

Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

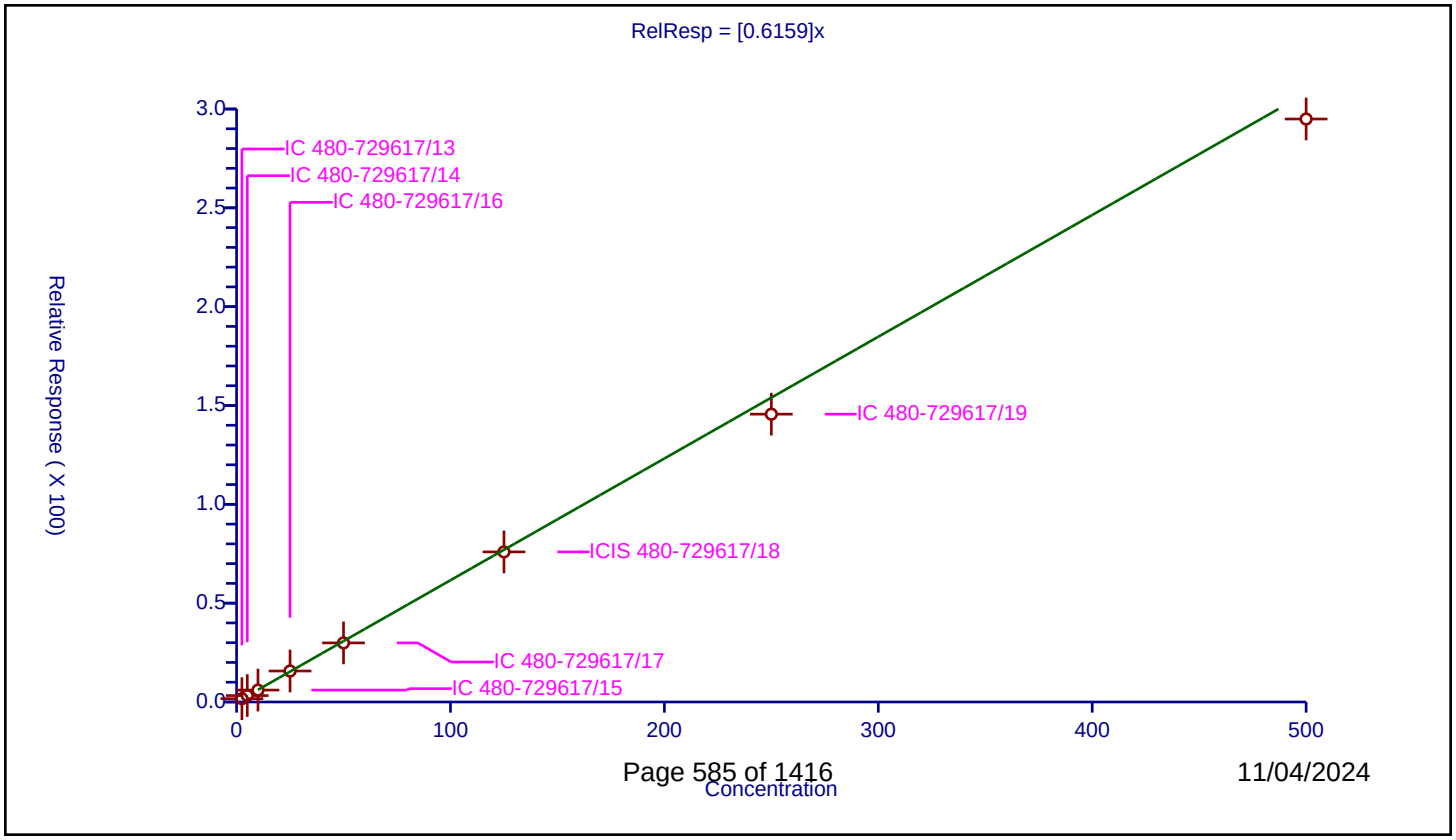
Curve Coefficients

Intercept:	0
Slope:	0.6159

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	2.5	1.675092	25.0	640920.0	0.670037	Y
2	IC 480-729617/14	5.0	3.250963	25.0	656244.0	0.650193	Y
3	IC 480-729617/15	10.0	6.028308	25.0	648789.0	0.602831	Y
4	IC 480-729617/16	25.0	15.672705	25.0	680417.0	0.626908	Y
5	IC 480-729617/17	50.0	29.884554	25.0	627437.0	0.597691	Y
6	ICIS 480-729617/18	125.0	75.942379	25.0	644937.0	0.607539	Y
7	IC 480-729617/19	250.0	145.615922	25.0	683861.0	0.582464	Y
8	IC 480-729617/20	500.0	294.938229	25.0	683407.0	0.589876	Y



11/04/2024

Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

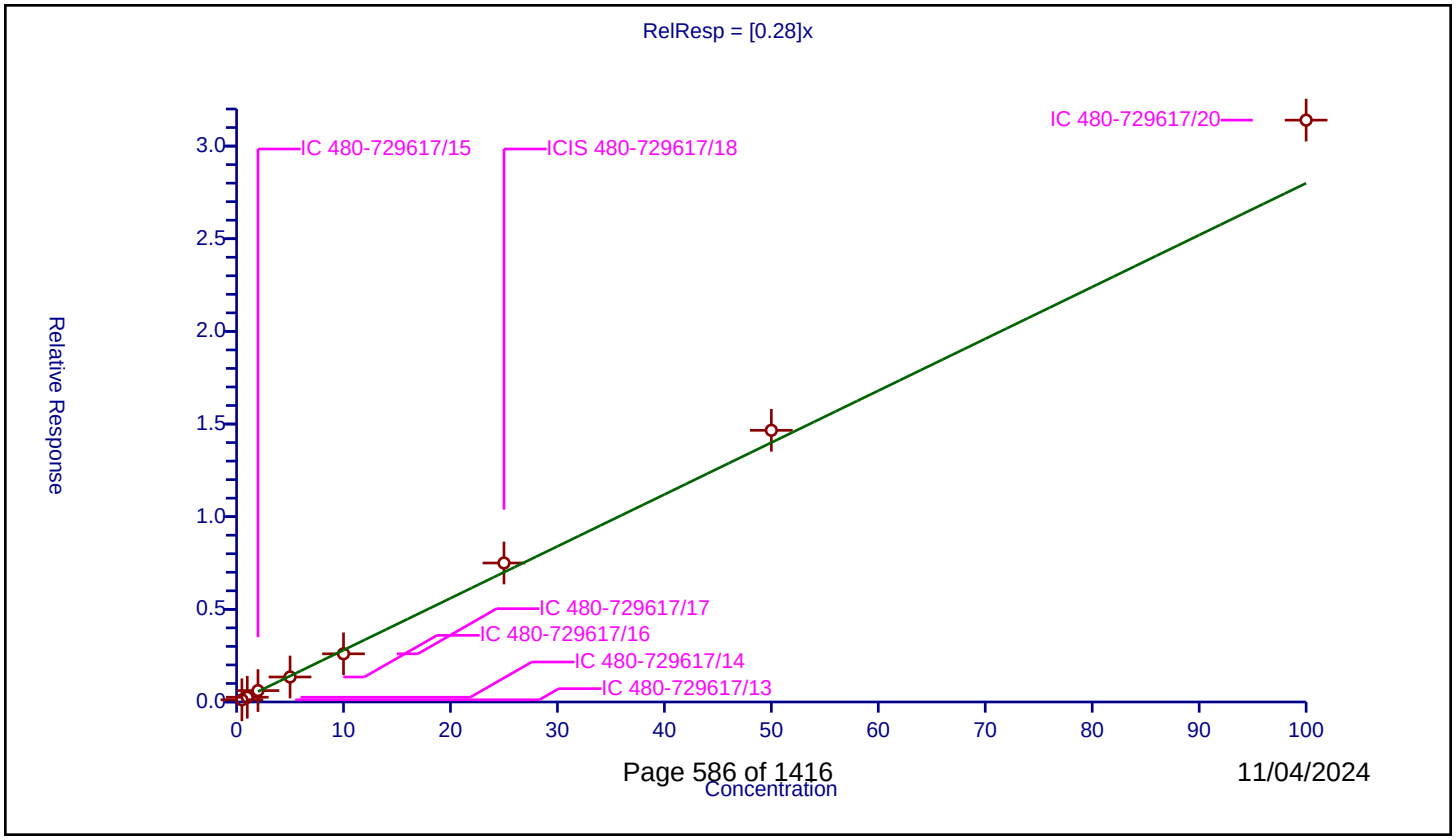
Curve Coefficients

Intercept:	0
Slope:	0.28

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.118931	25.0	640920.0	0.237861	Y
2	IC 480-729617/14	1.0	0.25745	25.0	656244.0	0.25745	Y
3	IC 480-729617/15	2.0	0.614722	25.0	648789.0	0.307361	Y
4	IC 480-729617/16	5.0	1.349283	25.0	680417.0	0.269857	Y
5	IC 480-729617/17	10.0	2.599743	25.0	627437.0	0.259974	Y
6	ICIS 480-729617/18	25.0	7.501043	25.0	644937.0	0.300042	Y
7	IC 480-729617/19	50.0	14.660253	25.0	683861.0	0.293205	Y
8	IC 480-729617/20	100.0	31.400176	25.0	683407.0	0.314002	Y



11/04/2024

Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

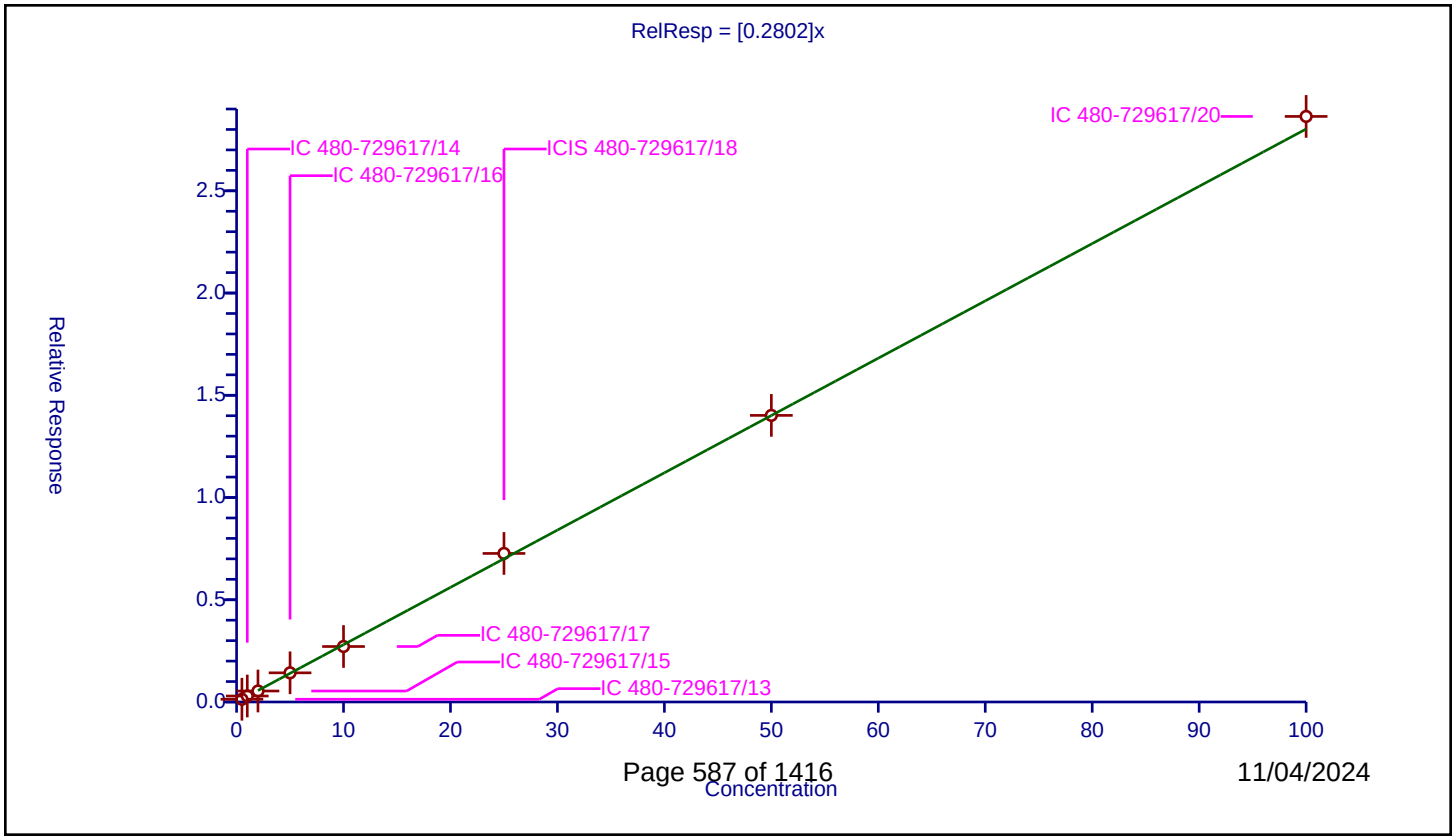
Curve Coefficients

Intercept:	0
Slope:	0.2802

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.133207	25.0	640920.0	0.266414	Y
2	IC 480-729617/14	1.0	0.293069	25.0	656244.0	0.293069	Y
3	IC 480-729617/15	2.0	0.537039	25.0	648789.0	0.26852	Y
4	IC 480-729617/16	5.0	1.425817	25.0	680417.0	0.285163	Y
5	IC 480-729617/17	10.0	2.712982	25.0	627437.0	0.271298	Y
6	ICIS 480-729617/18	25.0	7.265167	25.0	644937.0	0.290607	Y
7	IC 480-729617/19	50.0	14.016555	25.0	683861.0	0.280331	Y
8	IC 480-729617/20	100.0	28.63751	25.0	683407.0	0.286375	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

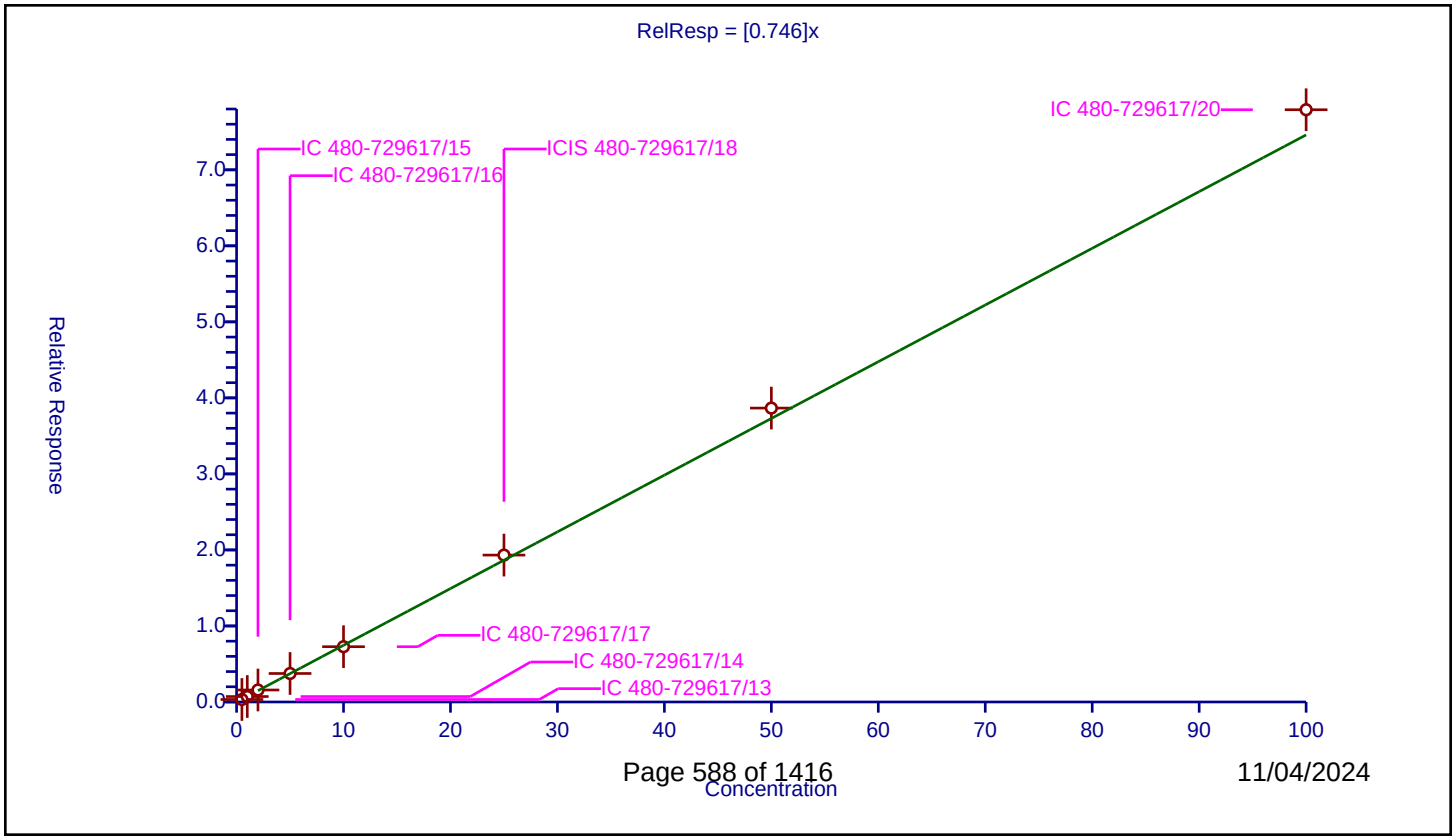
Curve Coefficients

Intercept:	0
Slope:	0.746

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.329253	25.0	640920.0	0.658507	Y
2	IC 480-729617/14	1.0	0.718559	25.0	656244.0	0.718559	Y
3	IC 480-729617/15	2.0	1.577015	25.0	648789.0	0.788508	Y
4	IC 480-729617/16	5.0	3.747004	25.0	680417.0	0.749401	Y
5	IC 480-729617/17	10.0	7.274675	25.0	627437.0	0.727467	Y
6	ICIS 480-729617/18	25.0	19.322391	25.0	644937.0	0.772896	Y
7	IC 480-729617/19	50.0	38.660232	25.0	683861.0	0.773205	Y
8	IC 480-729617/20	100.0	77.906723	25.0	683407.0	0.779067	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

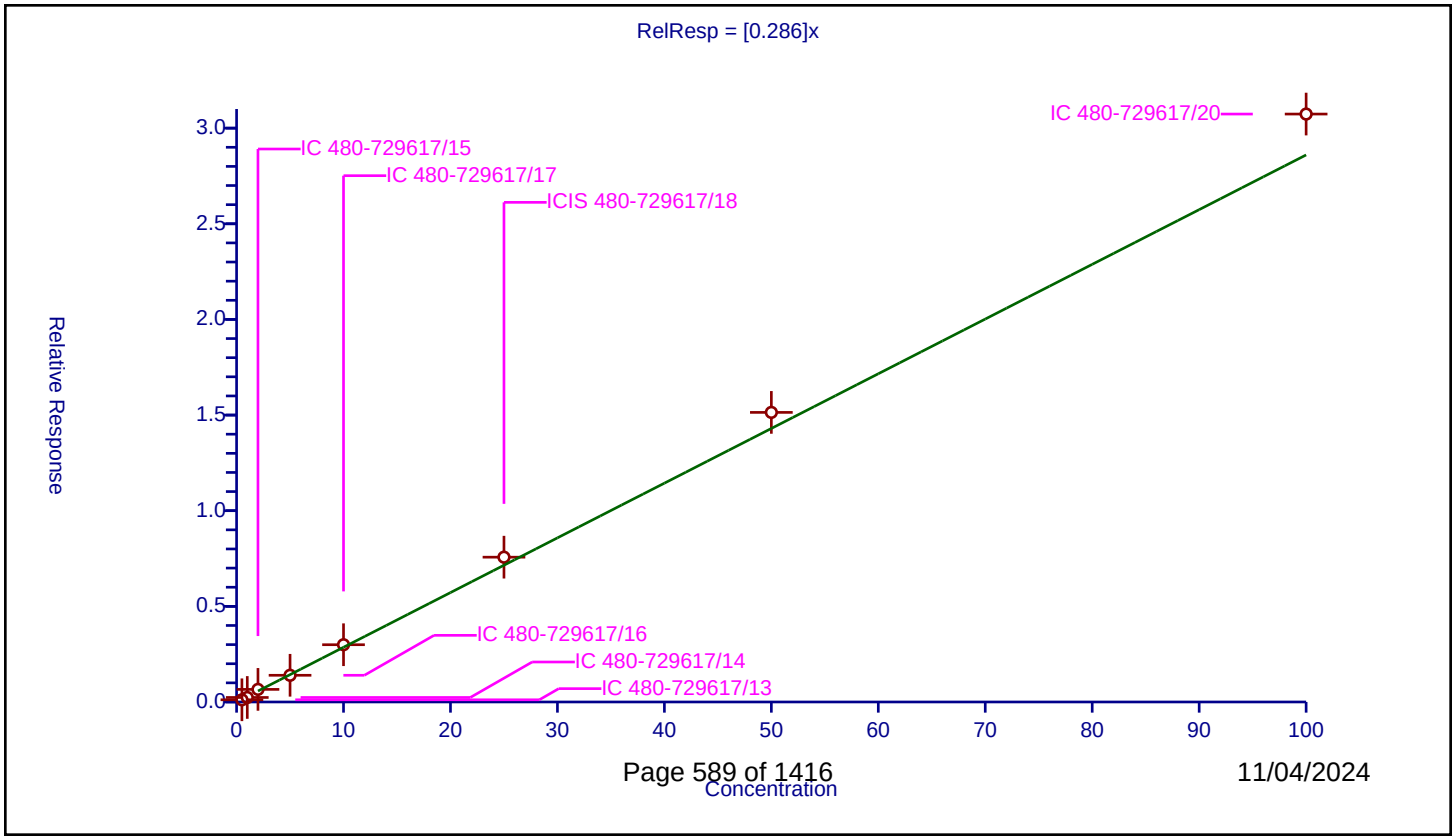
Curve Coefficients

Intercept:	0
Slope:	0.286

Error Coefficients

Relative Standard Deviation:	12.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.115693	25.0	640920.0	0.231386	Y
2	IC 480-729617/14	1.0	0.235926	25.0	656244.0	0.235926	Y
3	IC 480-729617/15	2.0	0.658226	25.0	648789.0	0.329113	Y
4	IC 480-729617/16	5.0	1.395872	25.0	680417.0	0.279174	Y
5	IC 480-729617/17	10.0	2.993289	25.0	627437.0	0.299329	Y
6	ICIS 480-729617/18	25.0	7.570429	25.0	644937.0	0.302817	Y
7	IC 480-729617/19	50.0	15.139517	25.0	683861.0	0.30279	Y
8	IC 480-729617/20	100.0	30.736699	25.0	683407.0	0.307367	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

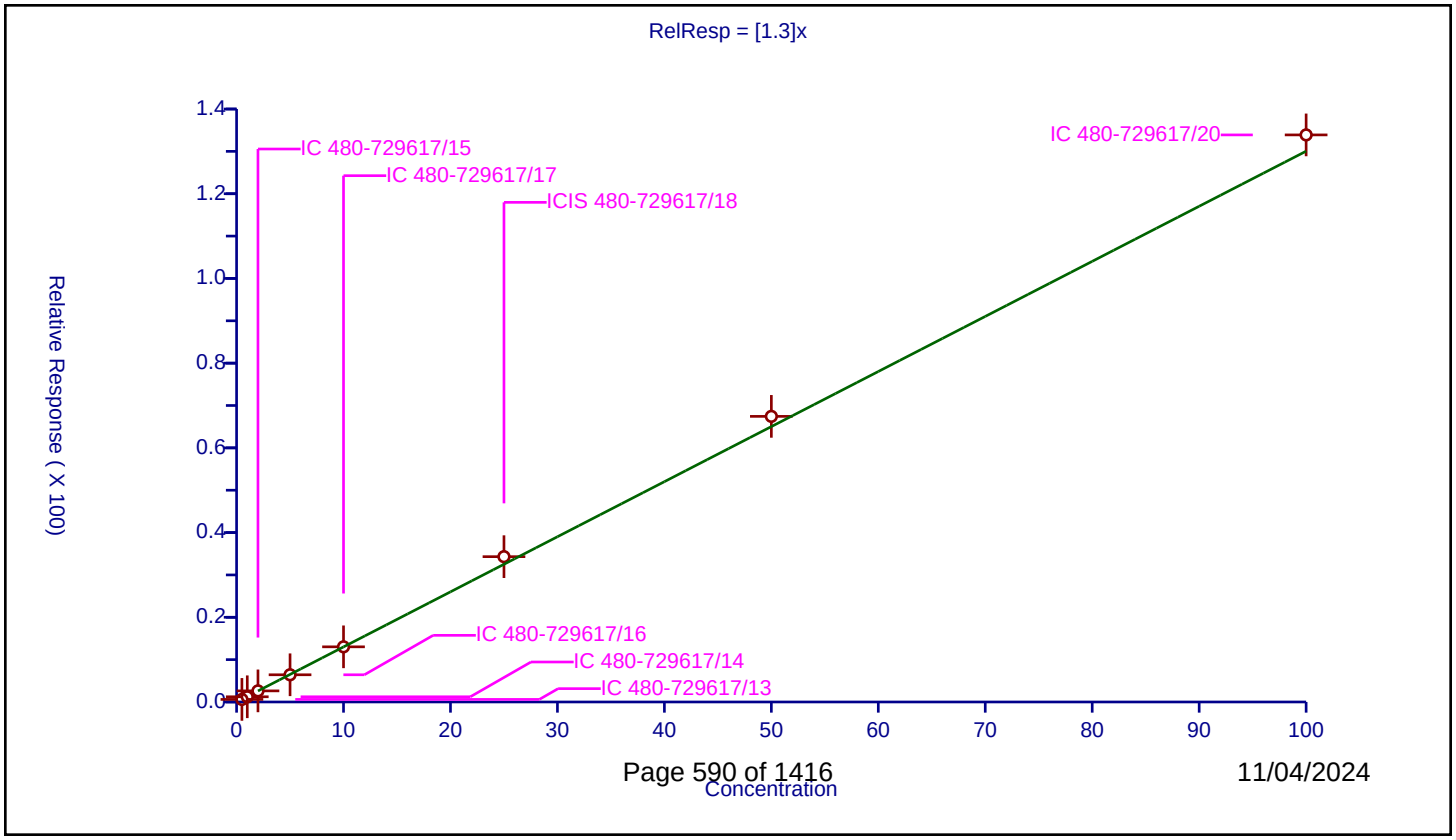
Curve Coefficients

Intercept:	0
Slope:	1.3

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.607135	25.0	640920.0	1.21427	Y
2	IC 480-729617/14	1.0	1.229649	25.0	656244.0	1.229649	Y
3	IC 480-729617/15	2.0	2.624852	25.0	648789.0	1.312426	Y
4	IC 480-729617/16	5.0	6.425141	25.0	680417.0	1.285028	Y
5	IC 480-729617/17	10.0	13.021865	25.0	627437.0	1.302187	Y
6	ICIS 480-729617/18	25.0	34.307963	25.0	644937.0	1.372319	Y
7	IC 480-729617/19	50.0	67.431539	25.0	683861.0	1.348631	Y
8	IC 480-729617/20	100.0	133.887274	25.0	683407.0	1.338873	Y



11/04/2024

Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

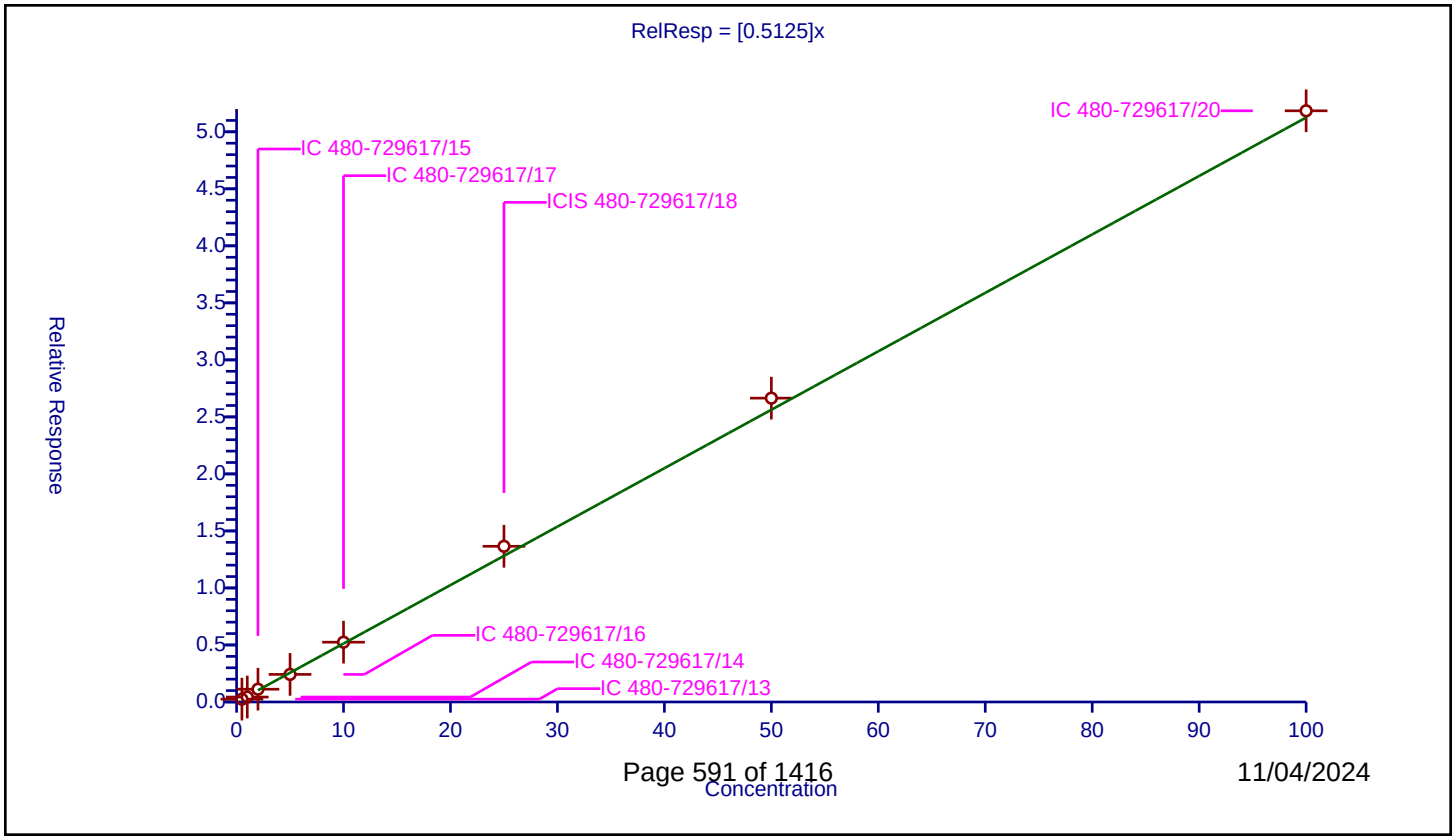
Curve Coefficients

Intercept:	0
Slope:	0.5125

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.249407	25.0	640920.0	0.498814	Y
2	IC 480-729617/14	1.0	0.434785	25.0	656244.0	0.434785	Y
3	IC 480-729617/15	2.0	1.121628	25.0	648789.0	0.560814	Y
4	IC 480-729617/16	5.0	2.419068	25.0	680417.0	0.483814	Y
5	IC 480-729617/17	10.0	5.244989	25.0	627437.0	0.524499	Y
6	ICIS 480-729617/18	25.0	13.652496	25.0	644937.0	0.5461	Y
7	IC 480-729617/19	50.0	26.646387	25.0	683861.0	0.532928	Y
8	IC 480-729617/20	100.0	51.842679	25.0	683407.0	0.518427	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

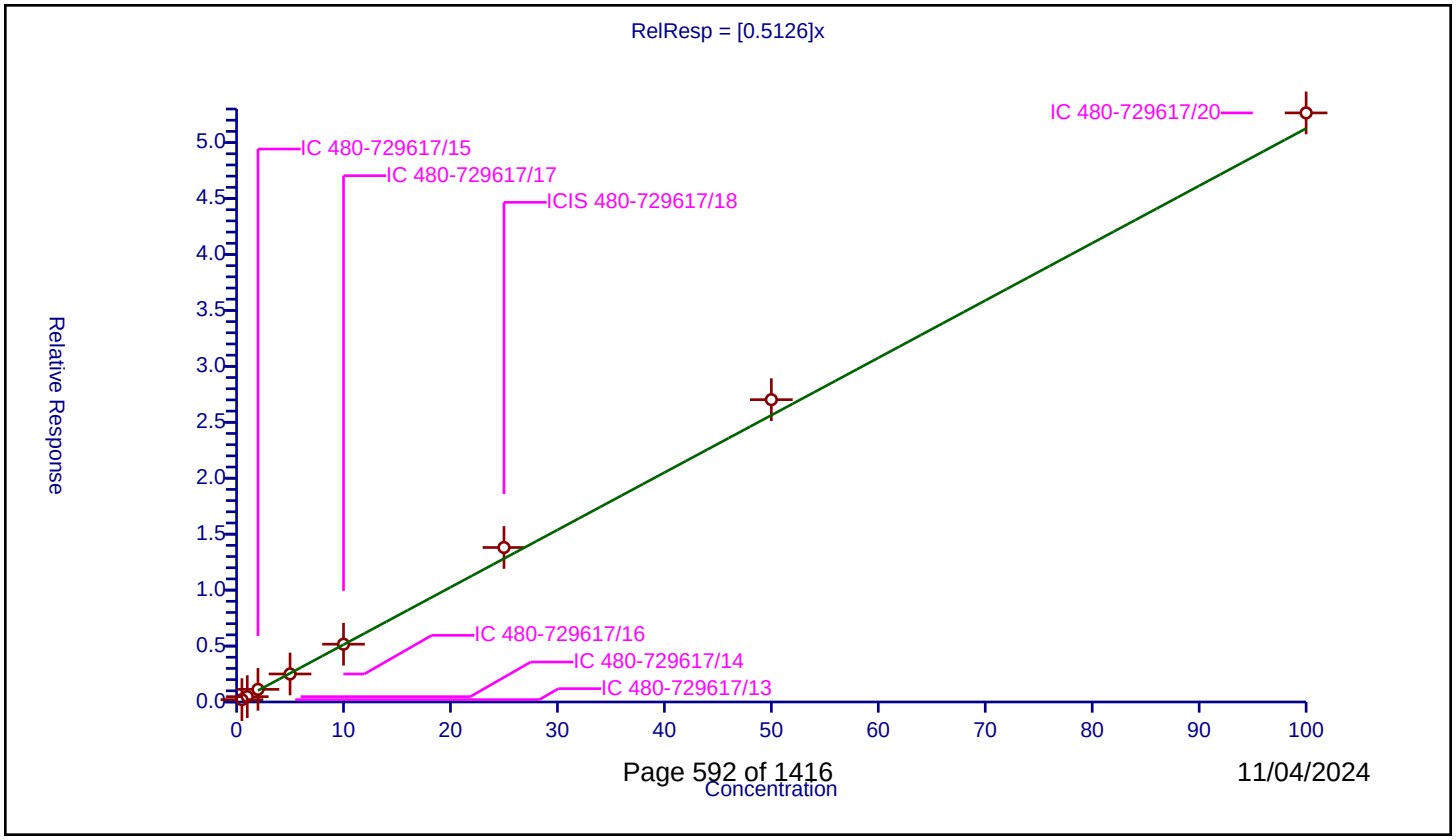
Curve Coefficients

Intercept:	0
Slope:	0.5126

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.211727	25.0	640920.0	0.423454	Y
2	IC 480-729617/14	1.0	0.476842	25.0	656244.0	0.476842	Y
3	IC 480-729617/15	2.0	1.128294	25.0	648789.0	0.564147	Y
4	IC 480-729617/16	5.0	2.503906	25.0	680417.0	0.500781	Y
5	IC 480-729617/17	10.0	5.165299	25.0	627437.0	0.51653	Y
6	ICIS 480-729617/18	25.0	13.809139	25.0	644937.0	0.552366	Y
7	IC 480-729617/19	50.0	27.022341	25.0	683861.0	0.540447	Y
8	IC 480-729617/20	100.0	52.651092	25.0	683407.0	0.526511	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

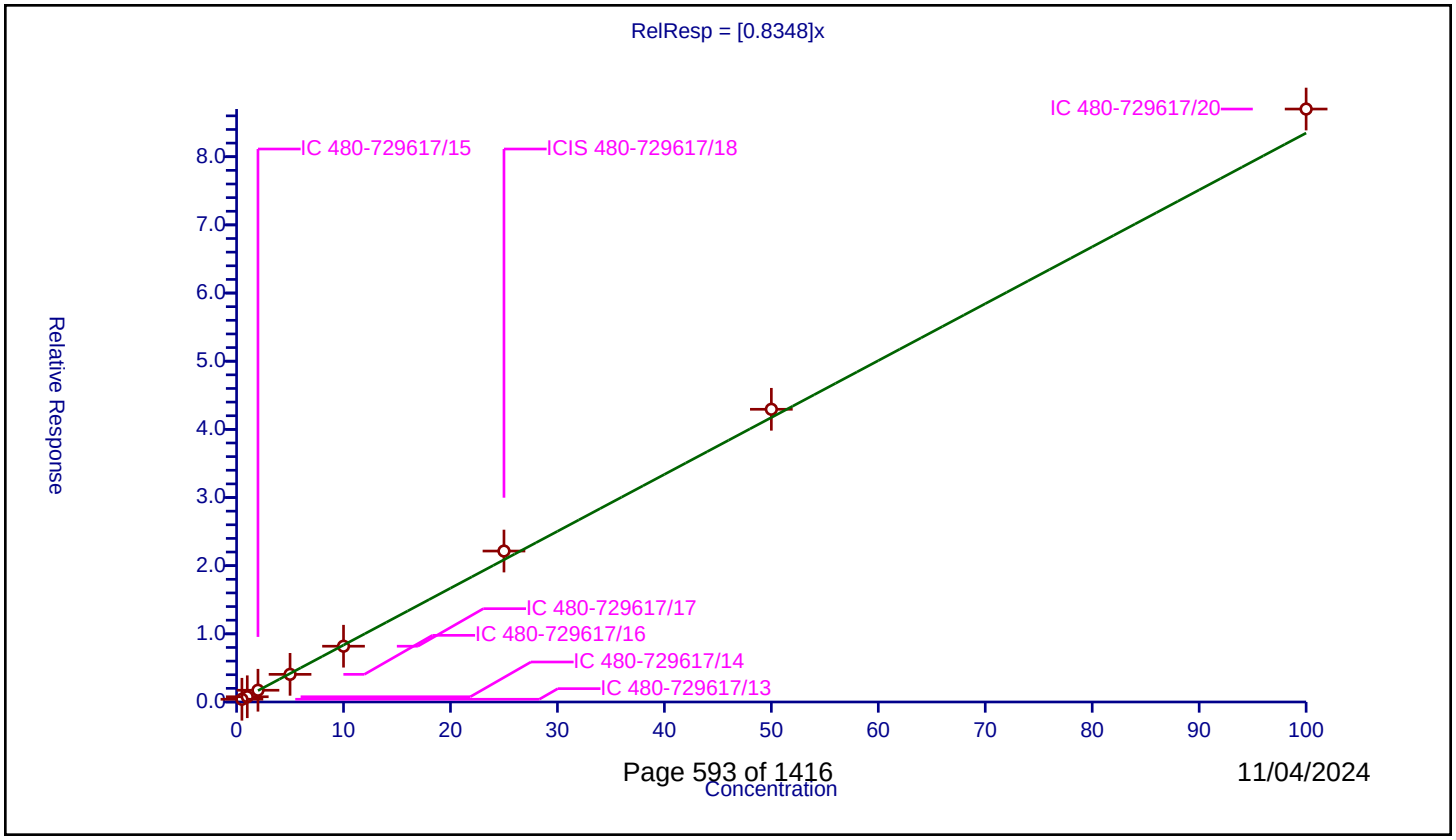
Curve Coefficients

Intercept:	0
Slope:	0.8348

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.402351	25.0	640920.0	0.804703	Y
2	IC 480-729617/14	1.0	0.766978	25.0	656244.0	0.766978	Y
3	IC 480-729617/15	2.0	1.72479	25.0	648789.0	0.862395	Y
4	IC 480-729617/16	5.0	4.054572	25.0	680417.0	0.810914	Y
5	IC 480-729617/17	10.0	8.184368	25.0	627437.0	0.818437	Y
6	ICIS 480-729617/18	25.0	22.144915	25.0	644937.0	0.885797	Y
7	IC 480-729617/19	50.0	42.945021	25.0	683861.0	0.8589	Y
8	IC 480-729617/20	100.0	86.994317	25.0	683407.0	0.869943	Y



11/04/2024

Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

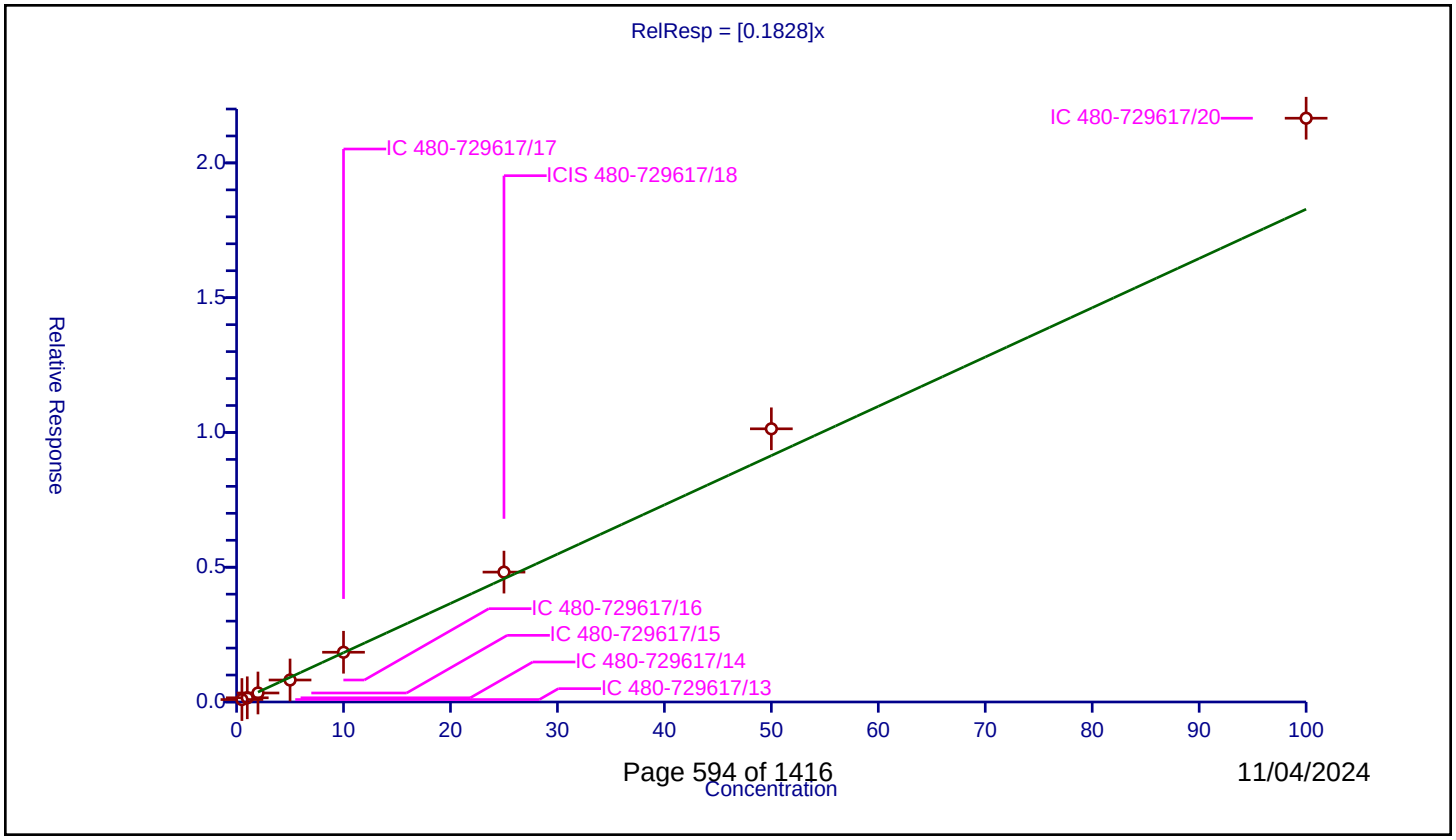
Curve Coefficients

Intercept:	0
Slope:	0.1828

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.090066	25.0	640920.0	0.180132	Y
2	IC 480-729617/14	1.0	0.155887	25.0	656244.0	0.155887	Y
3	IC 480-729617/15	2.0	0.334007	25.0	648789.0	0.167003	Y
4	IC 480-729617/16	5.0	0.815493	25.0	680417.0	0.163099	Y
5	IC 480-729617/17	10.0	1.845165	25.0	627437.0	0.184517	Y
6	ICIS 480-729617/18	25.0	4.818494	25.0	644937.0	0.19274	Y
7	IC 480-729617/19	50.0	10.13543	25.0	683861.0	0.202709	Y
8	IC 480-729617/20	100.0	21.65858	25.0	683407.0	0.216586	Y



11/04/2024

Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

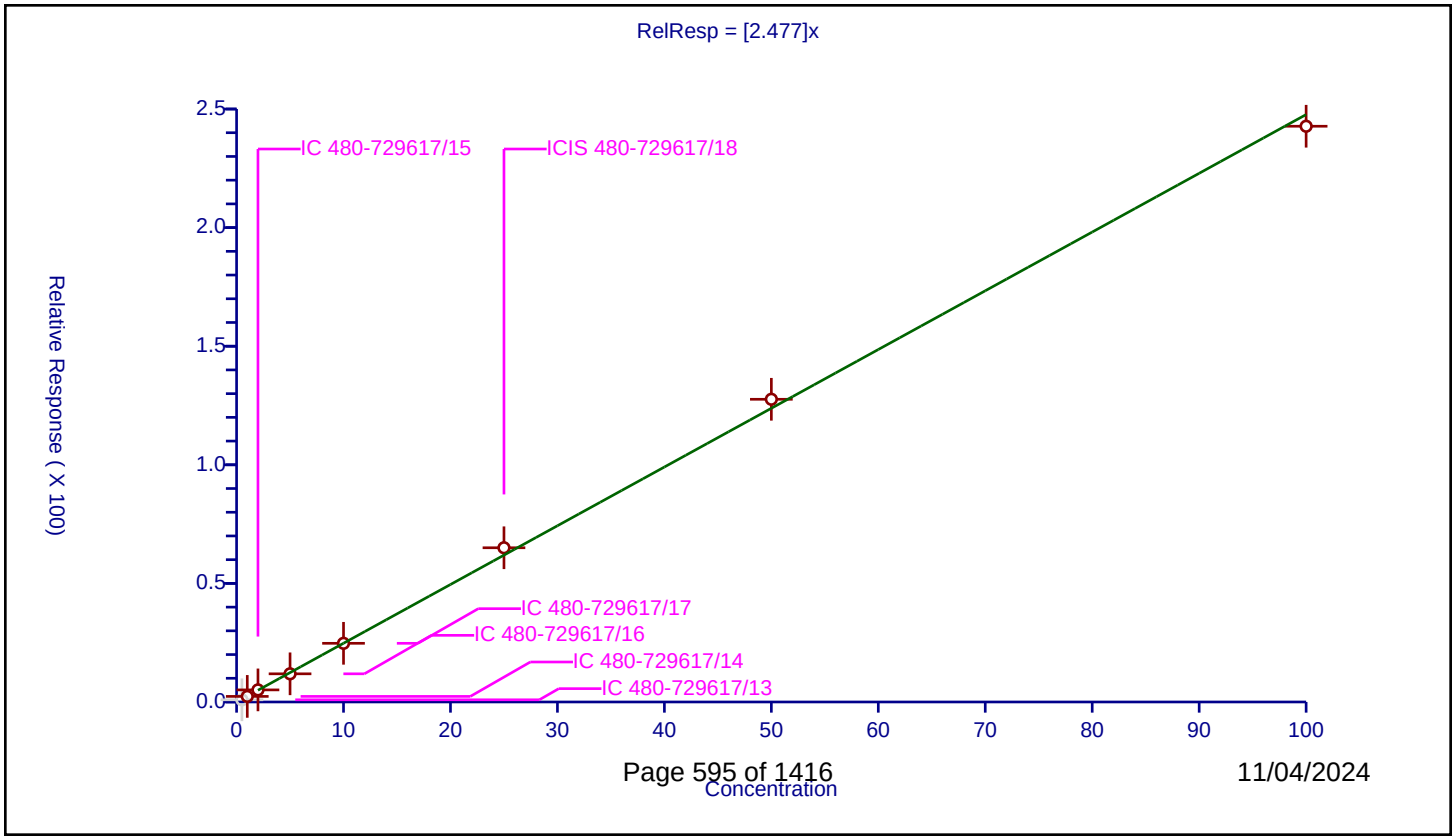
Curve Coefficients

Intercept:	0
Slope:	2.477

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.92496	25.0	329798.0	1.84992	N
2	IC 480-729617/14	1.0	2.35608	25.0	338348.0	2.35608	Y
3	IC 480-729617/15	2.0	5.100055	25.0	332516.0	2.550028	Y
4	IC 480-729617/16	5.0	11.879114	25.0	343944.0	2.375823	Y
5	IC 480-729617/17	10.0	24.737363	25.0	319262.0	2.473736	Y
6	ICIS 480-729617/18	25.0	65.021296	25.0	333633.0	2.600852	Y
7	IC 480-729617/19	50.0	127.626101	25.0	345141.0	2.552522	Y
8	IC 480-729617/20	100.0	242.741329	25.0	353770.0	2.427413	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

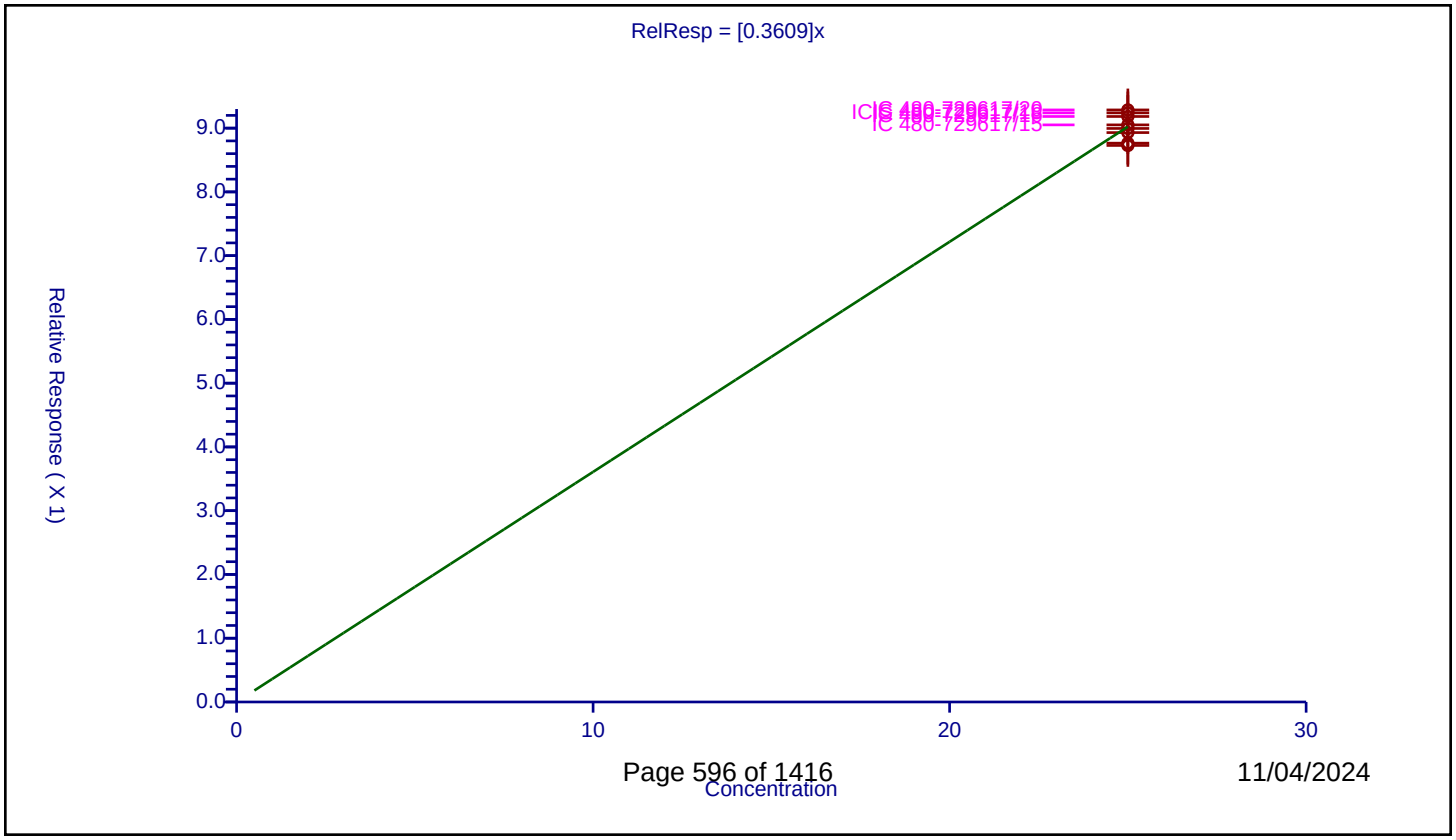
Curve Coefficients

Intercept:	0
Slope:	0.3609

Error Coefficients

Relative Standard Deviation:	2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	25.0	8.764549	25.0	640920.0	0.350582	Y
2	IC 480-729617/14	25.0	8.995016	25.0	656244.0	0.359801	Y
3	IC 480-729617/15	25.0	9.051248	25.0	648789.0	0.36205	Y
4	IC 480-729617/16	25.0	9.182935	25.0	680417.0	0.367317	Y
5	IC 480-729617/17	25.0	8.728247	25.0	627437.0	0.34913	Y
6	ICIS 480-729617/18	25.0	9.239158	25.0	644937.0	0.369566	Y
7	IC 480-729617/19	25.0	8.930141	25.0	683861.0	0.357206	Y
8	IC 480-729617/20	25.0	9.285645	25.0	683407.0	0.371426	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

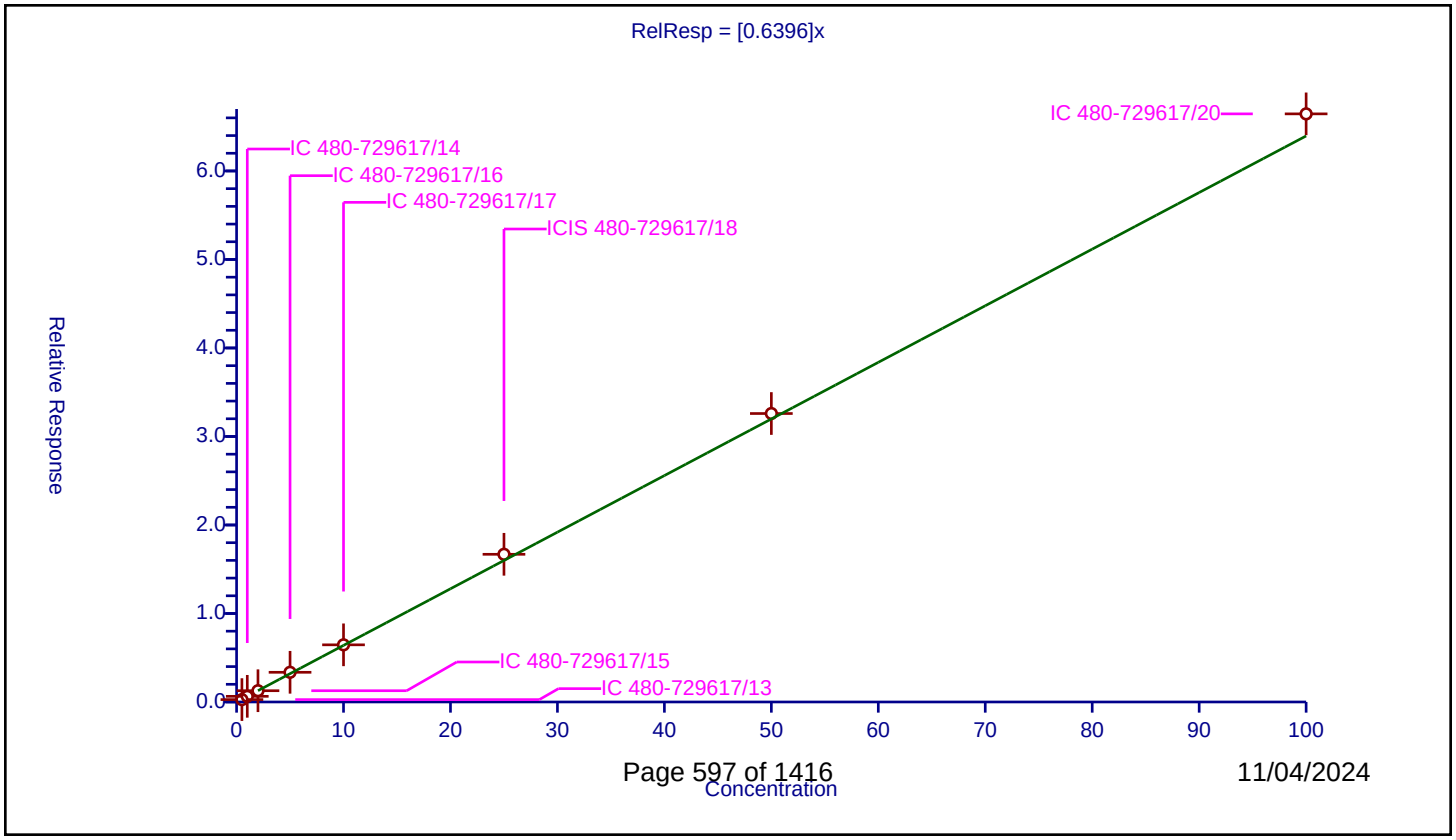
Curve Coefficients

Intercept:	0
Slope:	0.6396

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.268953	25.0	329798.0	0.537905	Y
2	IC 480-729617/14	1.0	0.64113	25.0	338348.0	0.64113	Y
3	IC 480-729617/15	2.0	1.273172	25.0	332516.0	0.636586	Y
4	IC 480-729617/16	5.0	3.355633	25.0	343944.0	0.671127	Y
5	IC 480-729617/17	10.0	6.459428	25.0	319262.0	0.645943	Y
6	ICIS 480-729617/18	25.0	16.688397	25.0	333633.0	0.667536	Y
7	IC 480-729617/19	50.0	32.593201	25.0	345141.0	0.651864	Y
8	IC 480-729617/20	100.0	66.451437	25.0	353770.0	0.664514	Y



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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

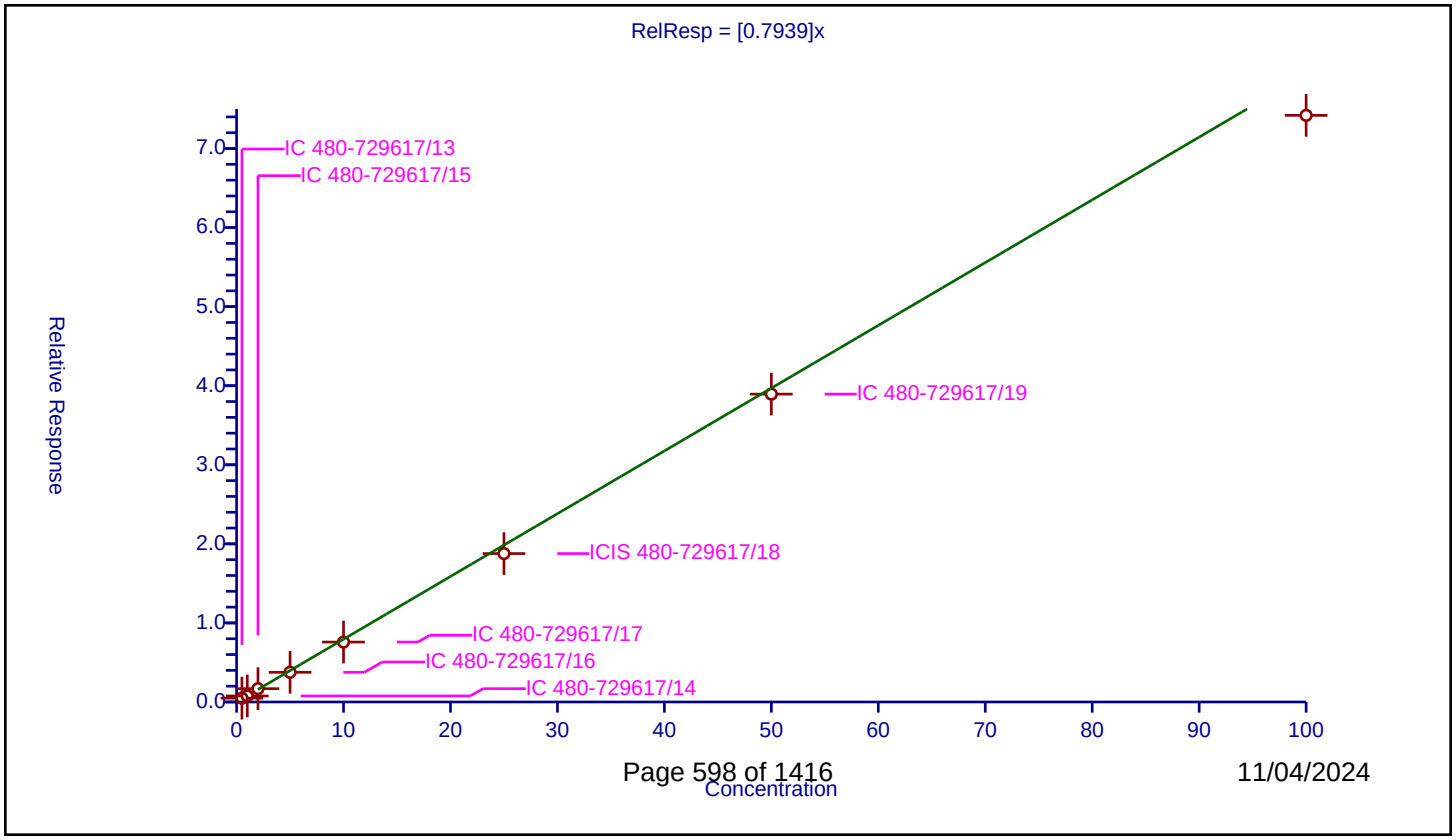
Curve Coefficients

Intercept:	0
Slope:	0.7939

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.482568	25.0	329798.0	0.965136	Y
2	IC 480-729617/14	1.0	0.762824	25.0	338348.0	0.762824	Y
3	IC 480-729617/15	2.0	1.683829	25.0	332516.0	0.841914	Y
4	IC 480-729617/16	5.0	3.756135	25.0	343944.0	0.751227	Y
5	IC 480-729617/17	10.0	7.581313	25.0	319262.0	0.758131	Y
6	ICIS 480-729617/18	25.0	18.772274	25.0	333633.0	0.750891	Y
7	IC 480-729617/19	50.0	38.942345	25.0	345141.0	0.778847	Y
8	IC 480-729617/20	100.0	74.198137	25.0	353770.0	0.741981	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

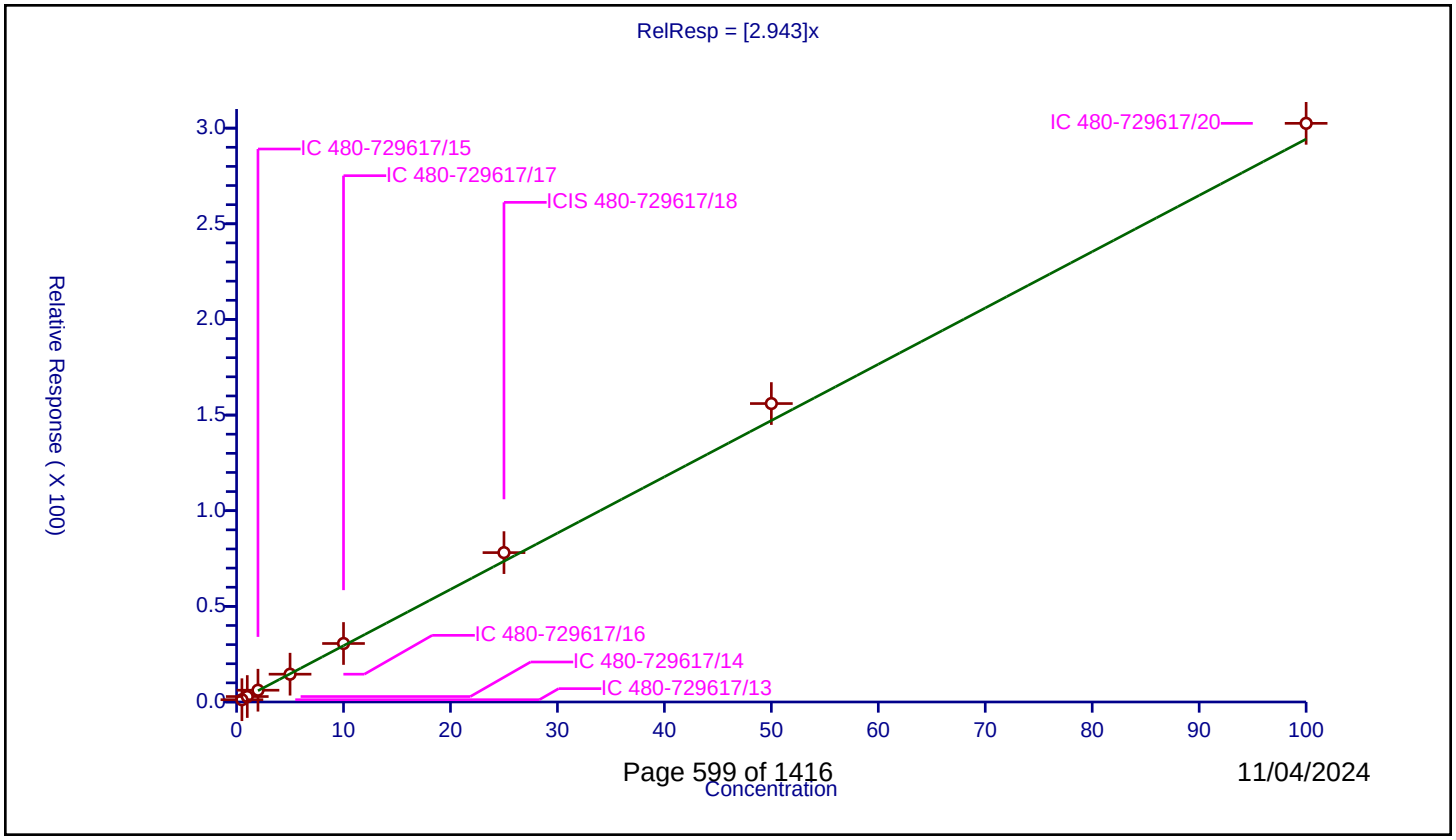
Curve Coefficients

Intercept:	0
Slope:	2.943

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.192018	25.0	329798.0	2.384035	Y
2	IC 480-729617/14	1.0	2.848029	25.0	338348.0	2.848029	Y
3	IC 480-729617/15	2.0	6.153463	25.0	332516.0	3.076732	Y
4	IC 480-729617/16	5.0	14.527074	25.0	343944.0	2.905415	Y
5	IC 480-729617/17	10.0	30.584755	25.0	319262.0	3.058475	Y
6	ICIS 480-729617/18	25.0	78.087974	25.0	333633.0	3.123519	Y
7	IC 480-729617/19	50.0	156.022104	25.0	345141.0	3.120442	Y
8	IC 480-729617/20	100.0	302.513215	25.0	353770.0	3.025132	Y



11/04/2024

Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

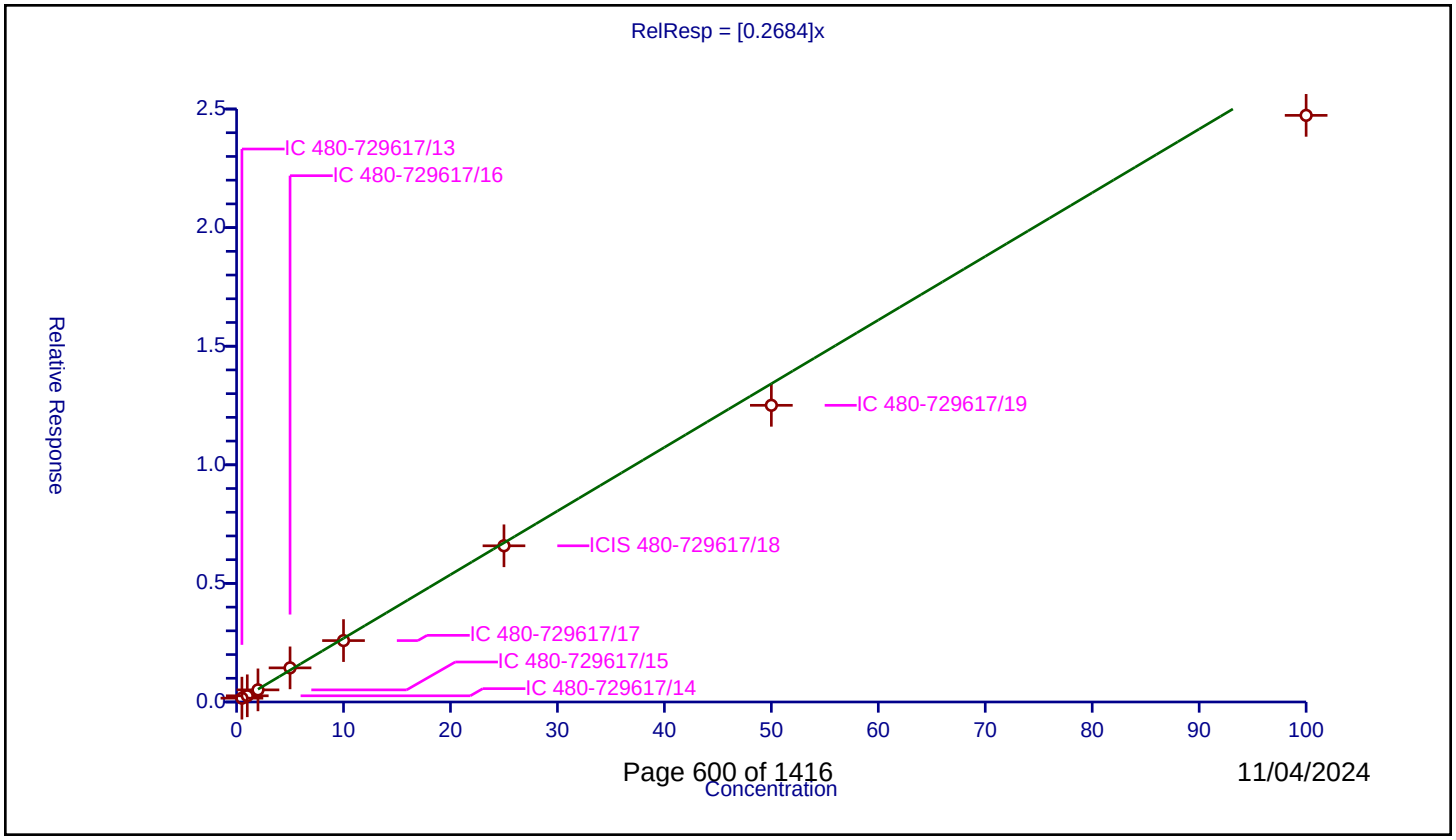
Curve Coefficients

Intercept:	0
Slope:	0.2684

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.161311	25.0	329798.0	0.322622	Y
2	IC 480-729617/14	1.0	0.261269	25.0	338348.0	0.261269	Y
3	IC 480-729617/15	2.0	0.511404	25.0	332516.0	0.255702	Y
4	IC 480-729617/16	5.0	1.438534	25.0	343944.0	0.287707	Y
5	IC 480-729617/17	10.0	2.588391	25.0	319262.0	0.258839	Y
6	ICIS 480-729617/18	25.0	6.585005	25.0	333633.0	0.2634	Y
7	IC 480-729617/19	50.0	12.508439	25.0	345141.0	0.250169	Y
8	IC 480-729617/20	100.0	24.731959	25.0	353770.0	0.24732	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

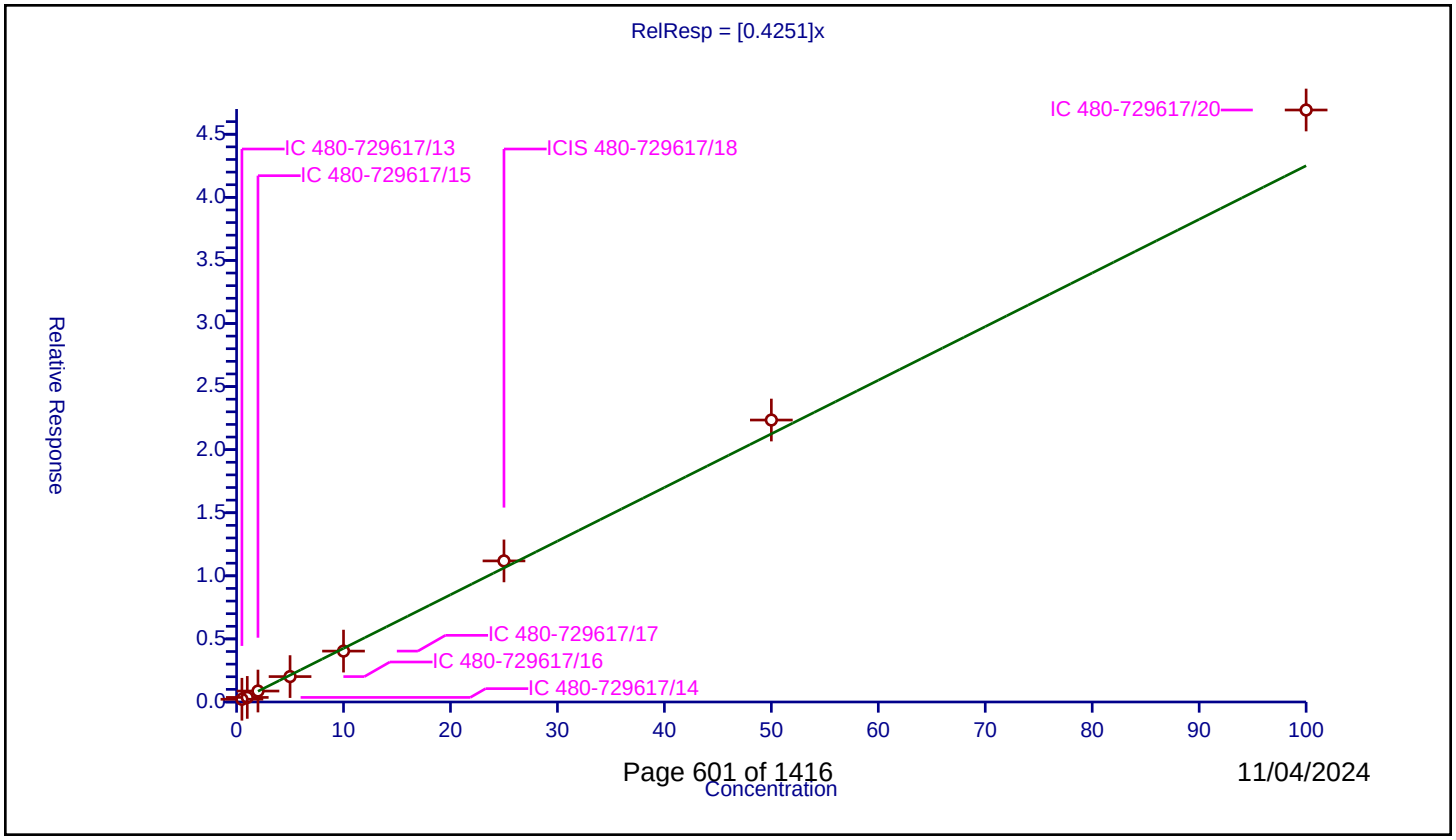
Curve Coefficients

Intercept:	0
Slope:	0.4251

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.216799	25.0	329798.0	0.433599	Y
2	IC 480-729617/14	1.0	0.362866	25.0	338348.0	0.362866	Y
3	IC 480-729617/15	2.0	0.868605	25.0	332516.0	0.434302	Y
4	IC 480-729617/16	5.0	2.014209	25.0	343944.0	0.402842	Y
5	IC 480-729617/17	10.0	4.033364	25.0	319262.0	0.403336	Y
6	ICIS 480-729617/18	25.0	11.181823	25.0	333633.0	0.447273	Y
7	IC 480-729617/19	50.0	22.348113	25.0	345141.0	0.446962	Y
8	IC 480-729617/20	100.0	46.922365	25.0	353770.0	0.469224	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

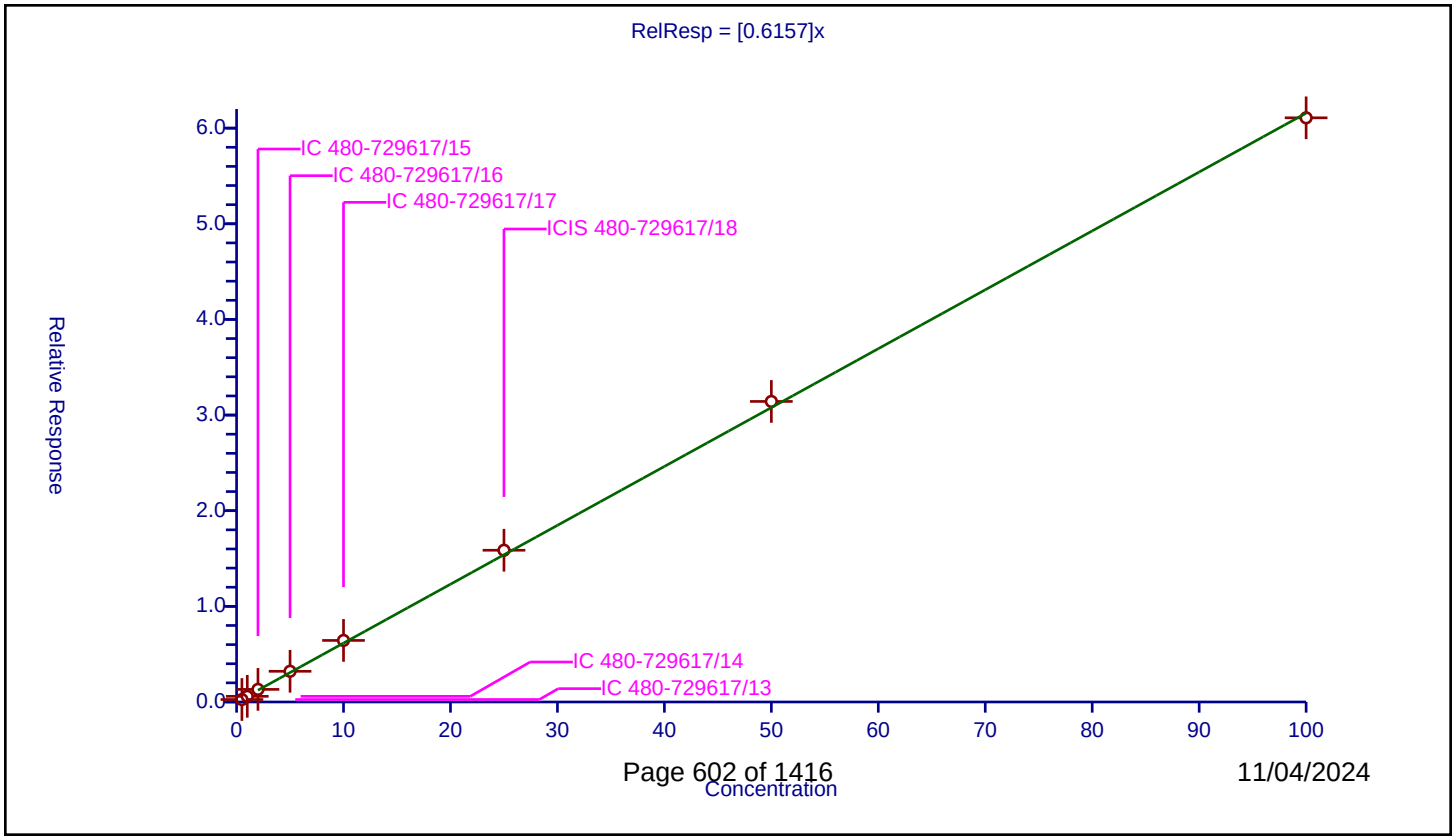
Curve Coefficients

Intercept:	0
Slope:	0.6157

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.256975	25.0	329798.0	0.513951	Y
2	IC 480-729617/14	1.0	0.592659	25.0	338348.0	0.592659	Y
3	IC 480-729617/15	2.0	1.318508	25.0	332516.0	0.659254	Y
4	IC 480-729617/16	5.0	3.209679	25.0	343944.0	0.641936	Y
5	IC 480-729617/17	10.0	6.436641	25.0	319262.0	0.643664	Y
6	ICIS 480-729617/18	25.0	15.86766	25.0	333633.0	0.634706	Y
7	IC 480-729617/19	50.0	31.423896	25.0	345141.0	0.628478	Y
8	IC 480-729617/20	100.0	61.080222	25.0	353770.0	0.610802	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

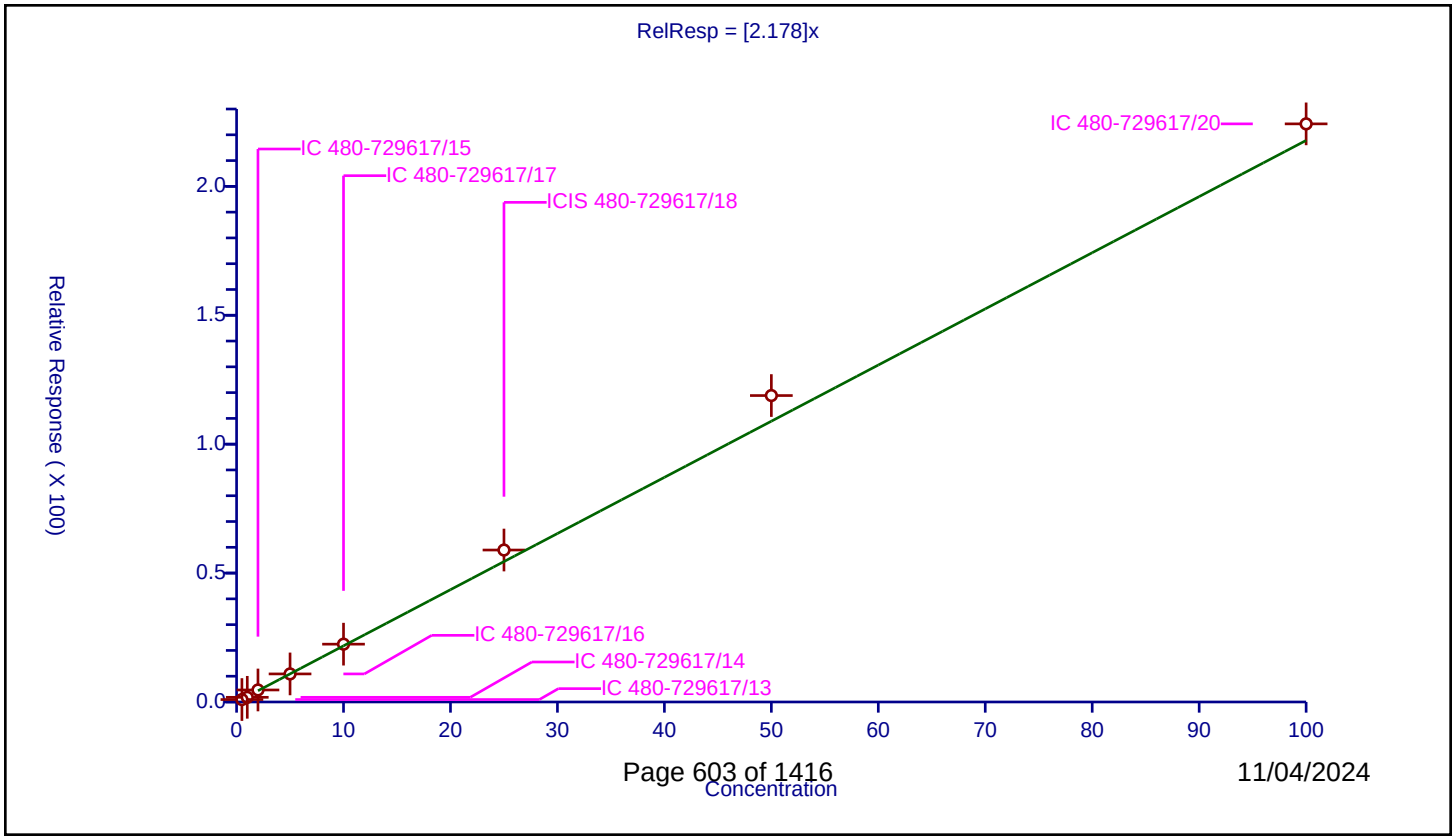
Curve Coefficients

Intercept:	0
Slope:	2.178

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.94141	25.0	329798.0	1.882819	Y
2	IC 480-729617/14	1.0	1.816325	25.0	338348.0	1.816325	Y
3	IC 480-729617/15	2.0	4.660753	25.0	332516.0	2.330377	Y
4	IC 480-729617/16	5.0	10.882876	25.0	343944.0	2.176575	Y
5	IC 480-729617/17	10.0	22.424607	25.0	319262.0	2.242461	Y
6	ICIS 480-729617/18	25.0	58.936541	25.0	333633.0	2.357462	Y
7	IC 480-729617/19	50.0	118.857366	25.0	345141.0	2.377147	Y
8	IC 480-729617/20	100.0	224.238064	25.0	353770.0	2.242381	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

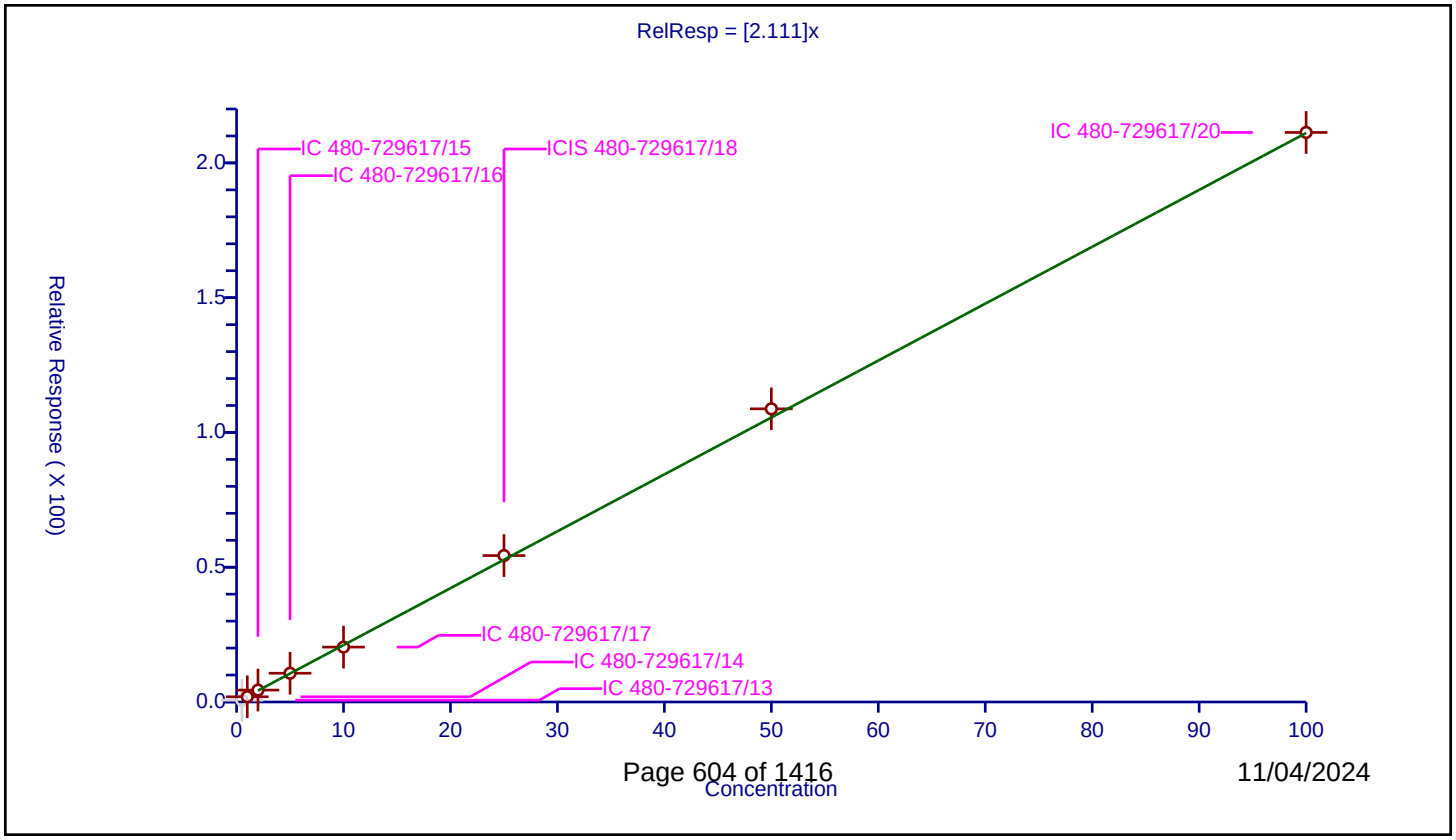
Curve Coefficients

Intercept:	0
Slope:	2.111

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.664801	25.0	329798.0	1.329602	N
2	IC 480-729617/14	1.0	1.936985	25.0	338348.0	1.936985	Y
3	IC 480-729617/15	2.0	4.41693	25.0	332516.0	2.208465	Y
4	IC 480-729617/16	5.0	10.665981	25.0	343944.0	2.133196	Y
5	IC 480-729617/17	10.0	20.369634	25.0	319262.0	2.036963	Y
6	ICIS 480-729617/18	25.0	54.334179	25.0	333633.0	2.173367	Y
7	IC 480-729617/19	50.0	108.762651	25.0	345141.0	2.175253	Y
8	IC 480-729617/20	100.0	211.303743	25.0	353770.0	2.113037	Y



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Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

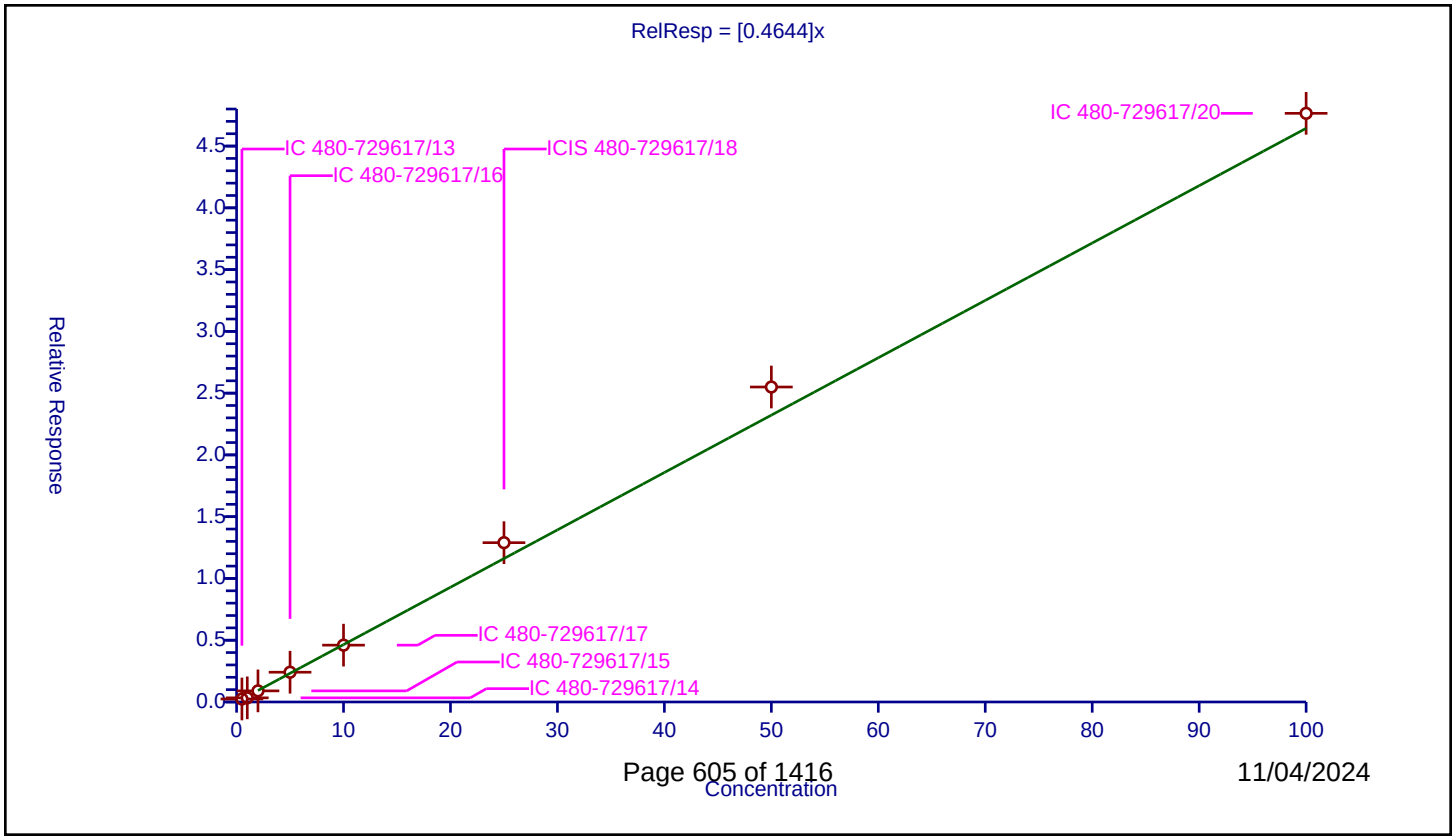
Curve Coefficients

Intercept:	0
Slope:	0.4644

Error Coefficients

Relative Standard Deviation:	12.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.243179	25.0	329798.0	0.486358	Y
2	IC 480-729617/14	1.0	0.334862	25.0	338348.0	0.334862	Y
3	IC 480-729617/15	2.0	0.898453	25.0	332516.0	0.449227	Y
4	IC 480-729617/16	5.0	2.410567	25.0	343944.0	0.482113	Y
5	IC 480-729617/17	10.0	4.601315	25.0	319262.0	0.460131	Y
6	ICIS 480-729617/18	25.0	12.896881	25.0	333633.0	0.515875	Y
7	IC 480-729617/19	50.0	25.497043	25.0	345141.0	0.509941	Y
8	IC 480-729617/20	100.0	47.650875	25.0	353770.0	0.476509	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

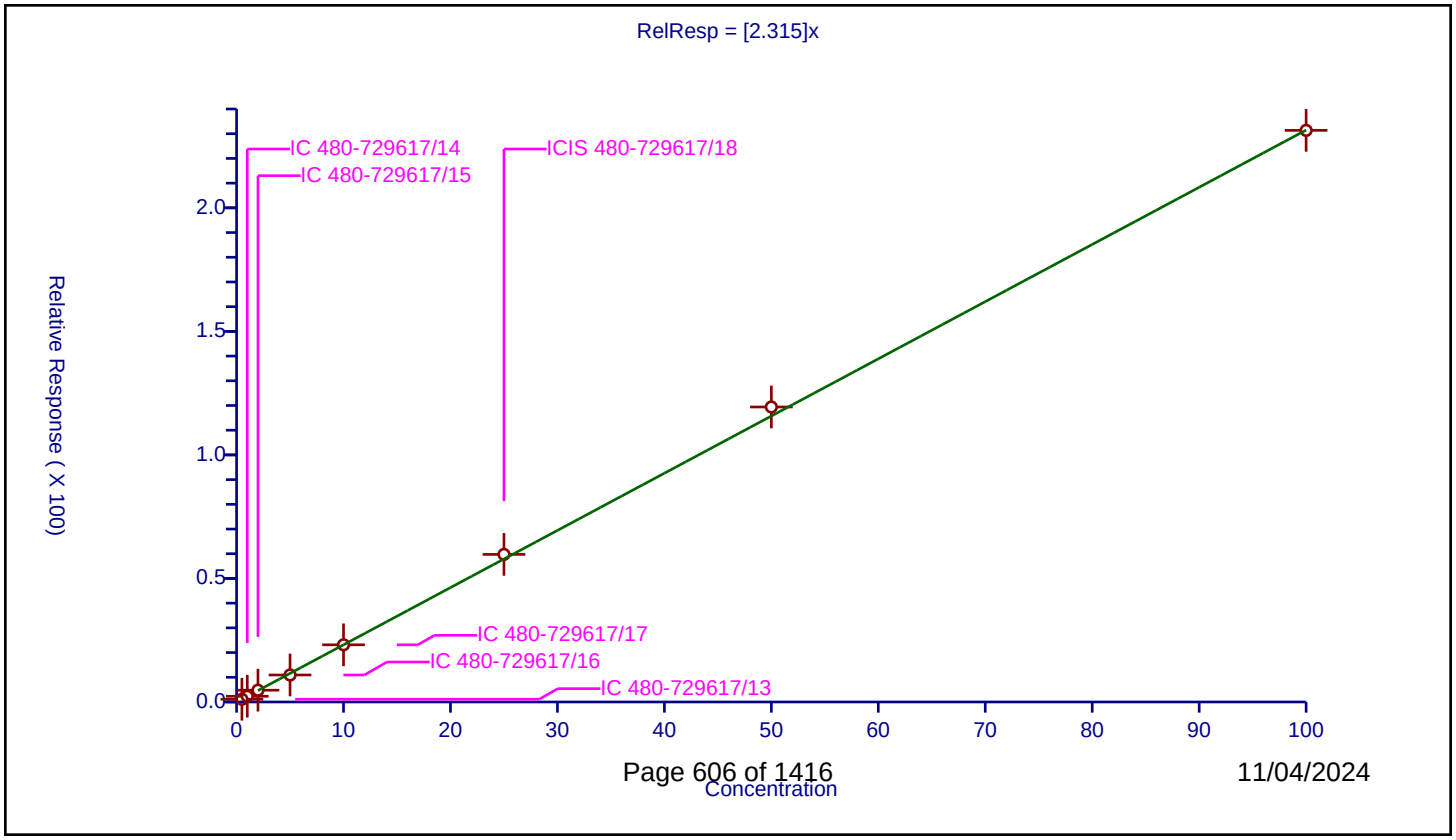
Curve Coefficients

Intercept:	0
Slope:	2.315

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.11159	25.0	329798.0	2.223179	Y
2	IC 480-729617/14	1.0	2.316698	25.0	338348.0	2.316698	Y
3	IC 480-729617/15	2.0	4.772477	25.0	332516.0	2.386239	Y
4	IC 480-729617/16	5.0	10.932376	25.0	343944.0	2.186475	Y
5	IC 480-729617/17	10.0	23.141573	25.0	319262.0	2.314157	Y
6	ICIS 480-729617/18	25.0	59.739219	25.0	333633.0	2.389569	Y
7	IC 480-729617/19	50.0	119.394392	25.0	345141.0	2.387888	Y
8	IC 480-729617/20	100.0	231.359075	25.0	353770.0	2.313591	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

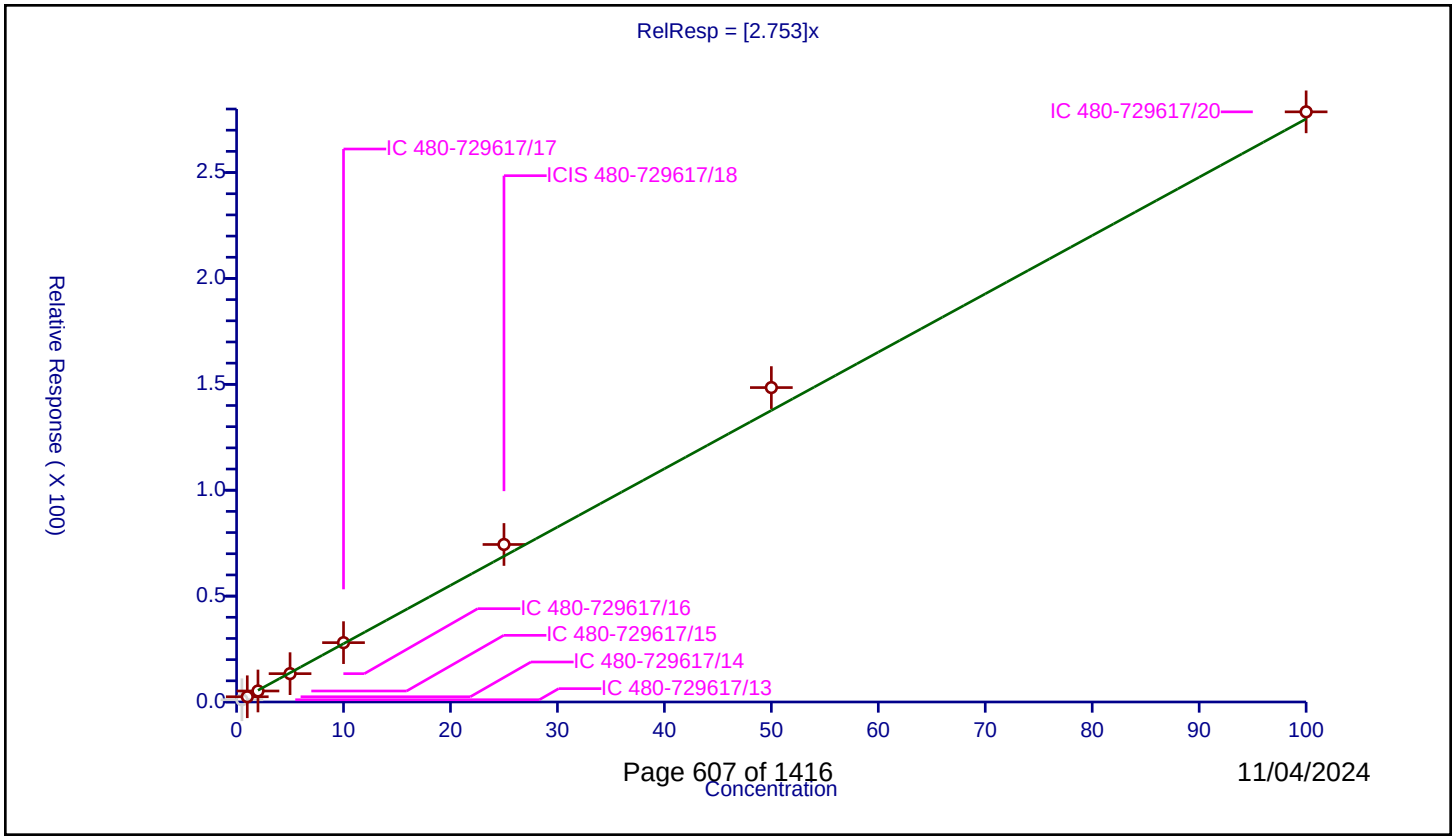
Curve Coefficients

Intercept:	0
Slope:	2.753

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.069822	25.0	329798.0	2.139643	N
2	IC 480-729617/14	1.0	2.468464	25.0	338348.0	2.468464	Y
3	IC 480-729617/15	2.0	5.190051	25.0	332516.0	2.595026	Y
4	IC 480-729617/16	5.0	13.381466	25.0	343944.0	2.676293	Y
5	IC 480-729617/17	10.0	28.023849	25.0	319262.0	2.802385	Y
6	ICIS 480-729617/18	25.0	74.376785	25.0	333633.0	2.975071	Y
7	IC 480-729617/19	50.0	148.460122	25.0	345141.0	2.969202	Y
8	IC 480-729617/20	100.0	278.66269	25.0	353770.0	2.786627	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

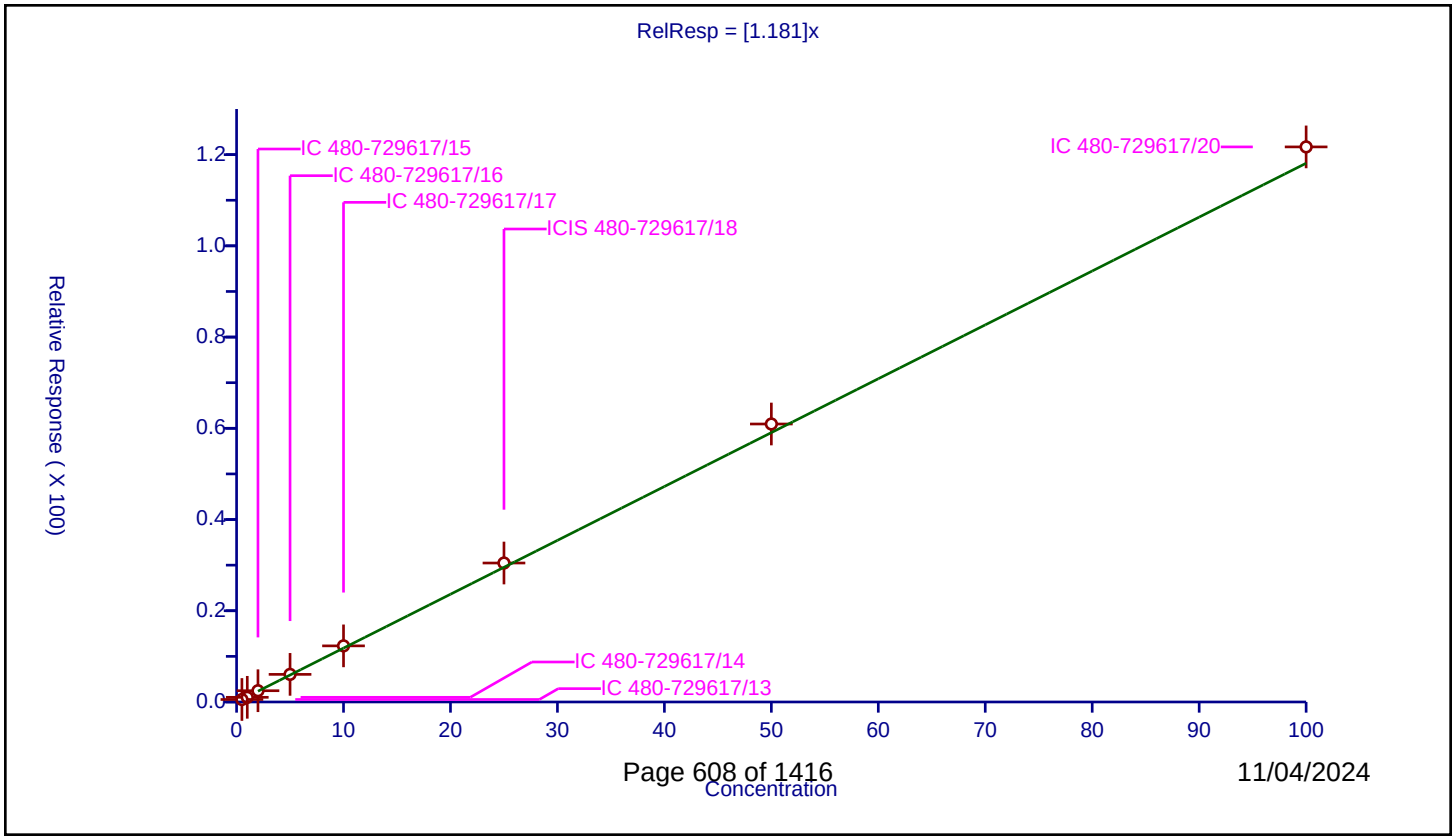
Curve Coefficients

Intercept:	0
Slope:	1.181

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.548139	25.0	329798.0	1.096277	Y
2	IC 480-729617/14	1.0	1.023355	25.0	338348.0	1.023355	Y
3	IC 480-729617/15	2.0	2.468002	25.0	332516.0	1.234001	Y
4	IC 480-729617/16	5.0	6.052075	25.0	343944.0	1.210415	Y
5	IC 480-729617/17	10.0	12.301574	25.0	319262.0	1.230157	Y
6	ICIS 480-729617/18	25.0	30.466186	25.0	333633.0	1.218647	Y
7	IC 480-729617/19	50.0	60.945382	25.0	345141.0	1.218908	Y
8	IC 480-729617/20	100.0	121.691282	25.0	353770.0	1.216913	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

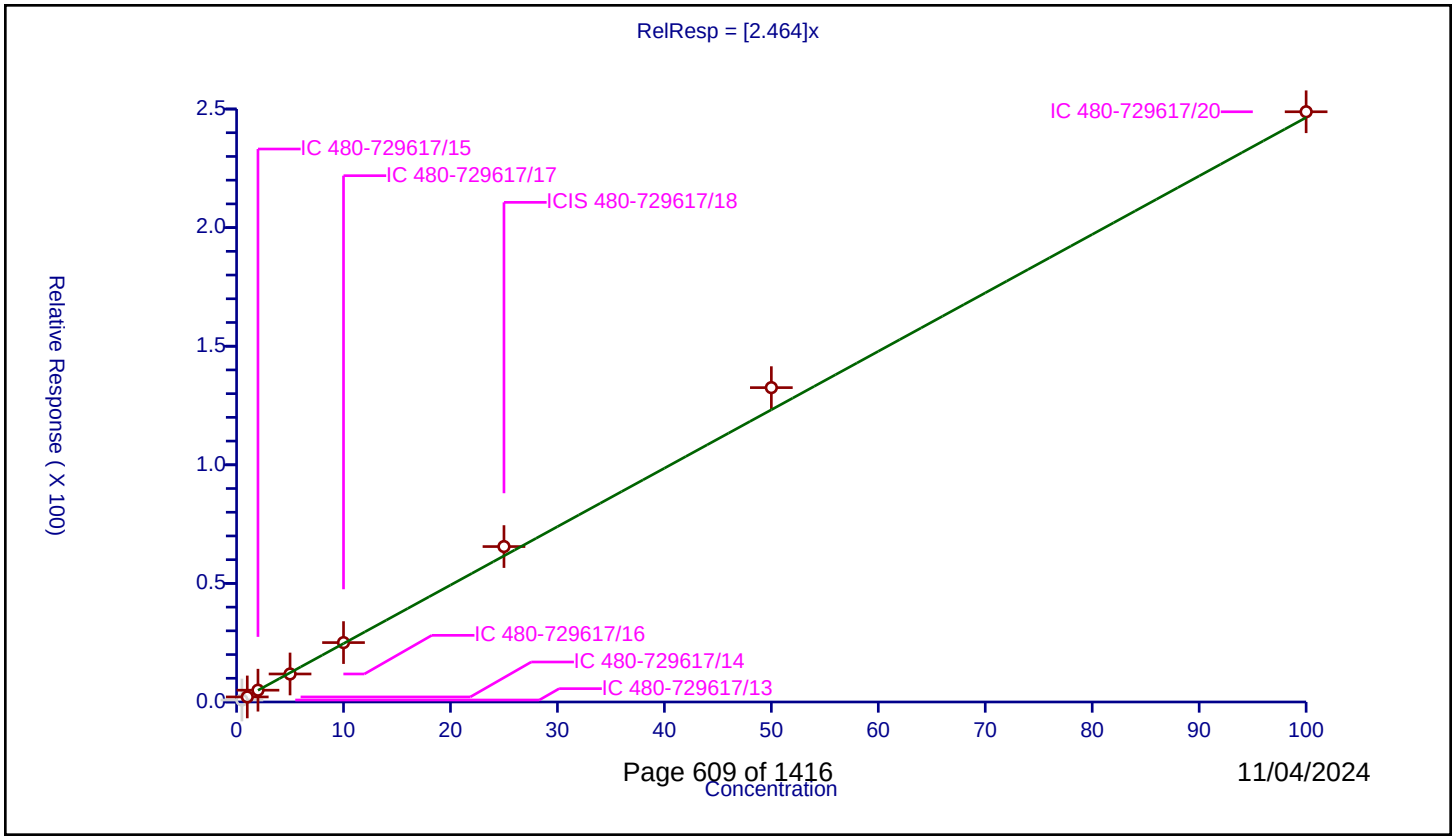
Curve Coefficients

Intercept:	0
Slope:	2.464

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.835057	25.0	329798.0	1.670113	N
2	IC 480-729617/14	1.0	2.133824	25.0	338348.0	2.133824	Y
3	IC 480-729617/15	2.0	4.976377	25.0	332516.0	2.488189	Y
4	IC 480-729617/16	5.0	11.807954	25.0	343944.0	2.361591	Y
5	IC 480-729617/17	10.0	25.047531	25.0	319262.0	2.504753	Y
6	ICIS 480-729617/18	25.0	65.52784	25.0	333633.0	2.621114	Y
7	IC 480-729617/19	50.0	132.535761	25.0	345141.0	2.650715	Y
8	IC 480-729617/20	100.0	248.841479	25.0	353770.0	2.488415	Y



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Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

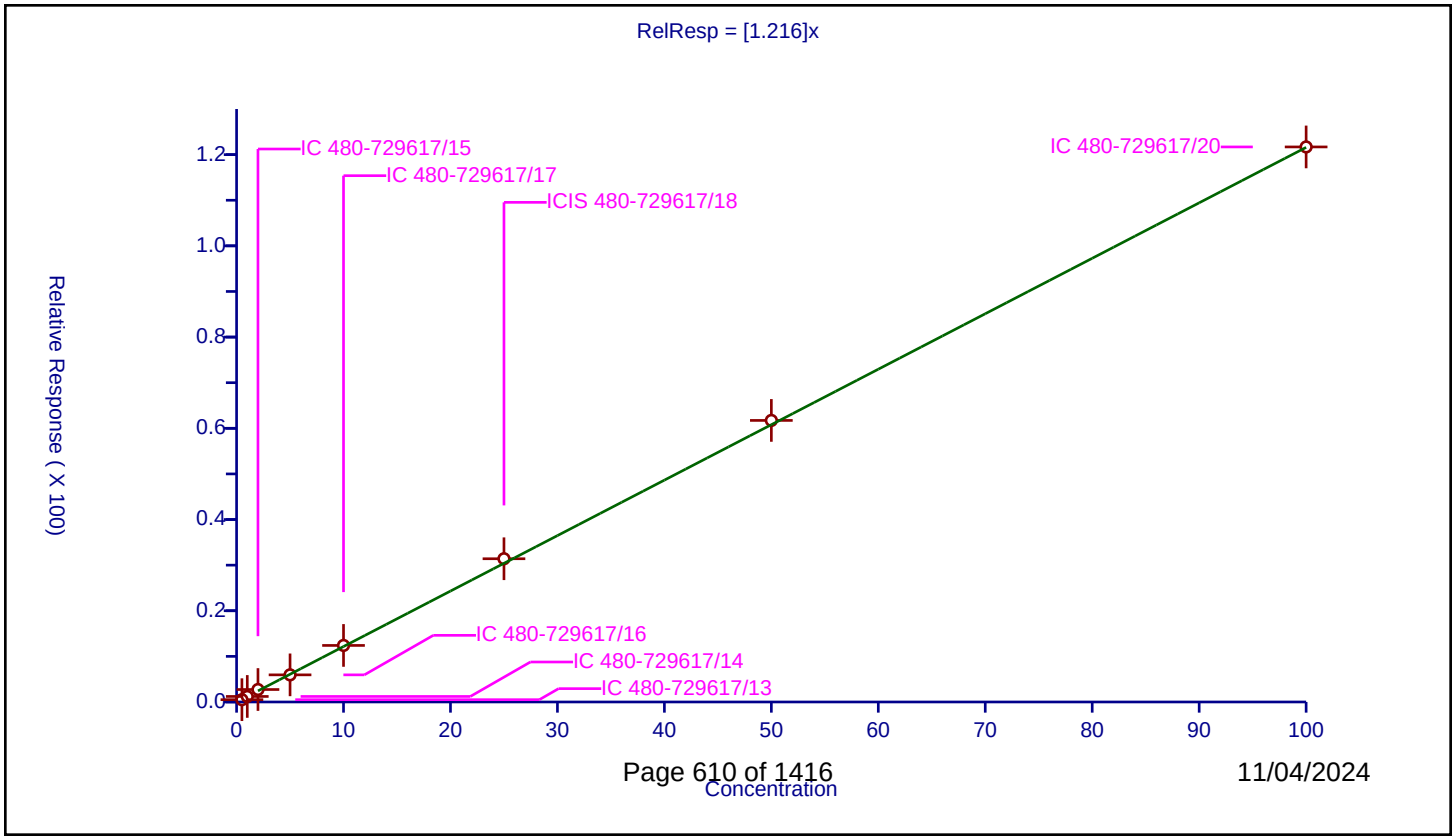
Curve Coefficients

Intercept:	0
Slope:	1.216

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.505688	25.0	329798.0	1.011377	Y
2	IC 480-729617/14	1.0	1.212731	25.0	338348.0	1.212731	Y
3	IC 480-729617/15	2.0	2.731748	25.0	332516.0	1.365874	Y
4	IC 480-729617/16	5.0	5.948279	25.0	343944.0	1.189656	Y
5	IC 480-729617/17	10.0	12.399456	25.0	319262.0	1.239946	Y
6	ICIS 480-729617/18	25.0	31.405841	25.0	333633.0	1.256234	Y
7	IC 480-729617/19	50.0	61.725136	25.0	345141.0	1.234503	Y
8	IC 480-729617/20	100.0	121.686477	25.0	353770.0	1.216865	Y



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Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

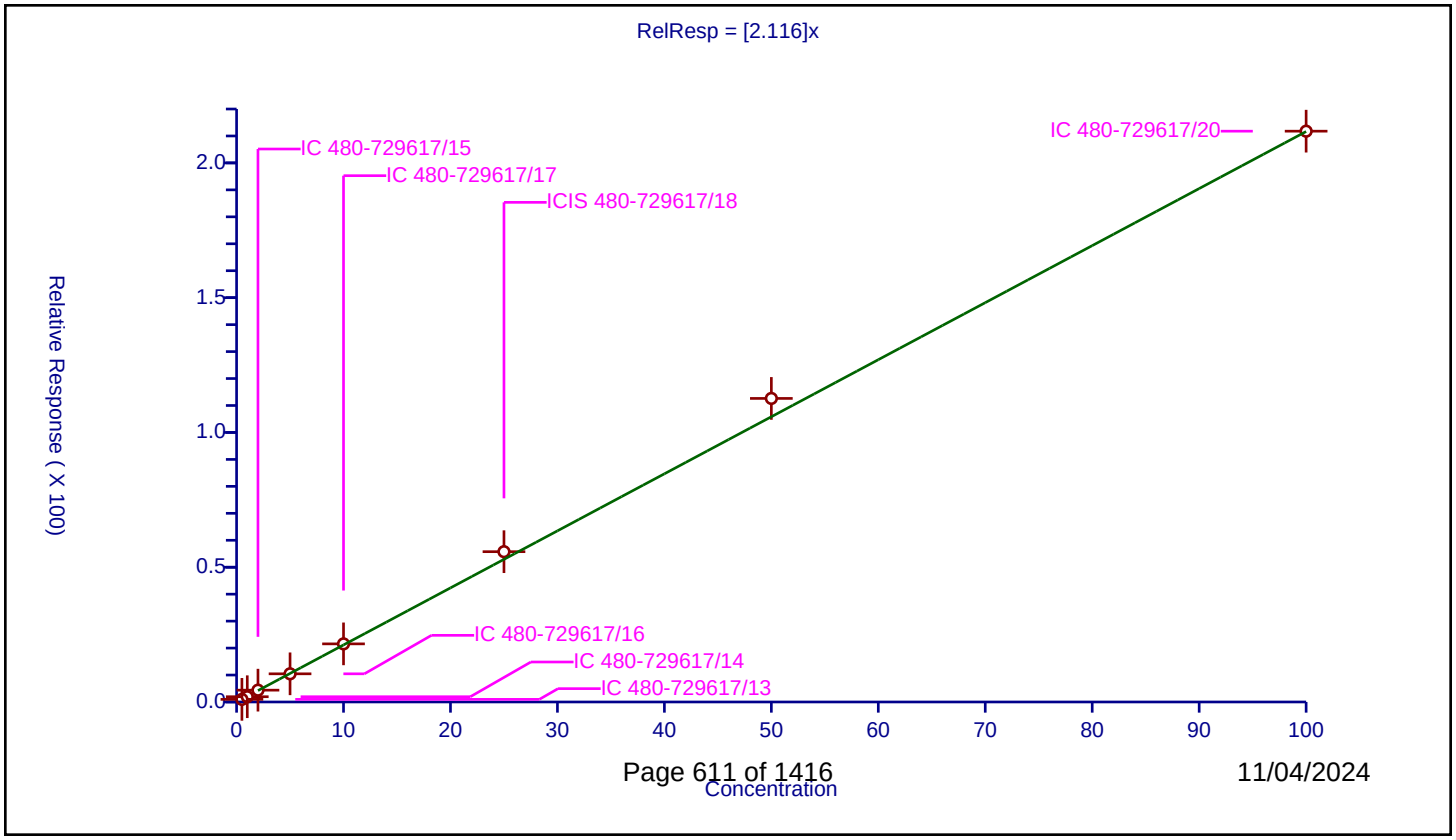
Curve Coefficients

Intercept:	0
Slope:	2.116

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.96976	25.0	329798.0	1.939521	Y
2	IC 480-729617/14	1.0	1.950359	25.0	338348.0	1.950359	Y
3	IC 480-729617/15	2.0	4.387383	25.0	332516.0	2.193691	Y
4	IC 480-729617/16	5.0	10.455917	25.0	343944.0	2.091183	Y
5	IC 480-729617/17	10.0	21.562541	25.0	319262.0	2.156254	Y
6	ICIS 480-729617/18	25.0	55.765467	25.0	333633.0	2.230619	Y
7	IC 480-729617/19	50.0	112.629041	25.0	345141.0	2.252581	Y
8	IC 480-729617/20	100.0	211.775094	25.0	353770.0	2.117751	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

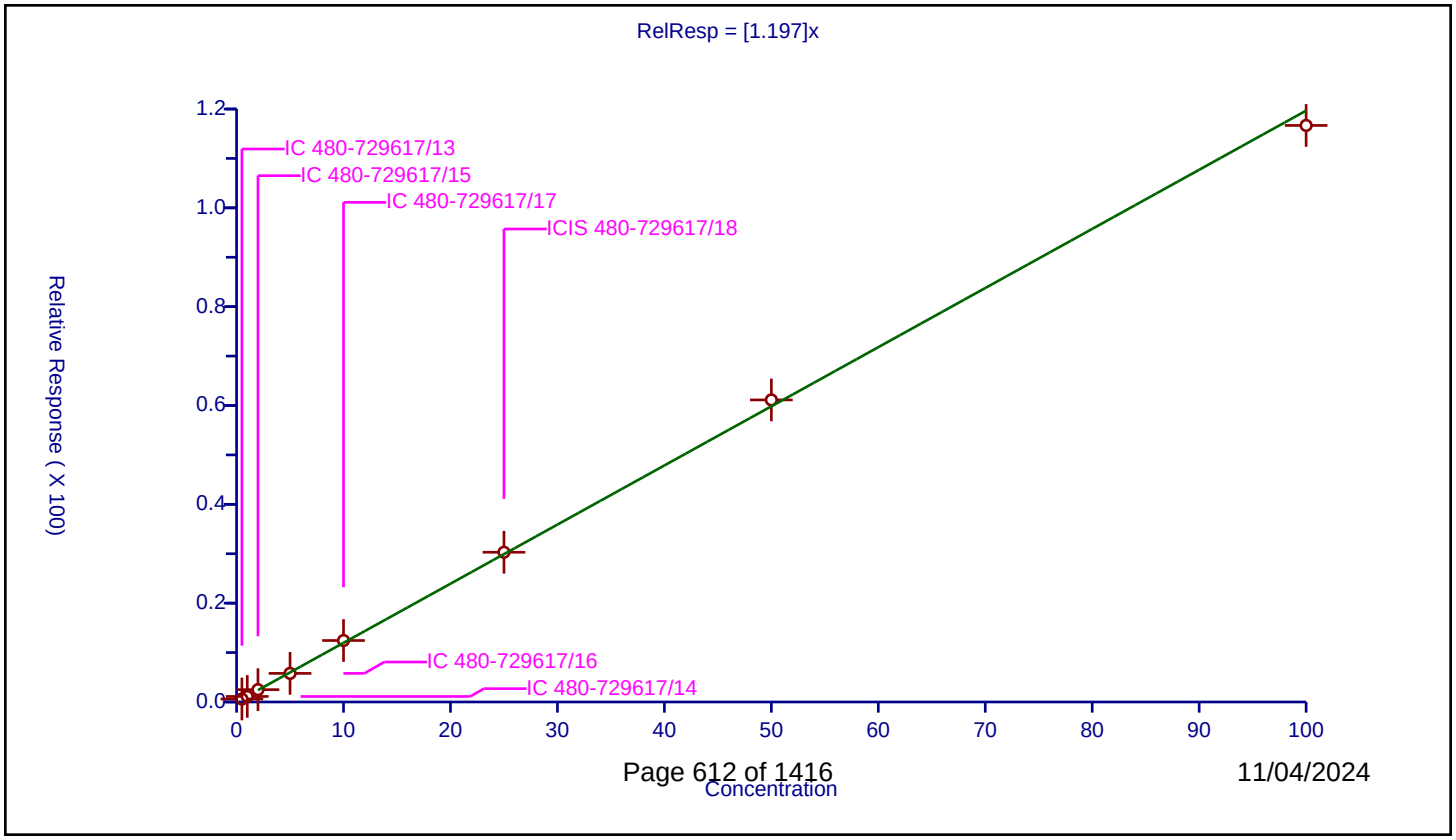
Curve Coefficients

Intercept:	0
Slope:	1.197

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.60014	25.0	329798.0	1.20028	Y
2	IC 480-729617/14	1.0	1.121774	25.0	338348.0	1.121774	Y
3	IC 480-729617/15	2.0	2.497624	25.0	332516.0	1.248812	Y
4	IC 480-729617/16	5.0	5.786843	25.0	343944.0	1.157369	Y
5	IC 480-729617/17	10.0	12.439078	25.0	319262.0	1.243908	Y
6	ICIS 480-729617/18	25.0	30.302233	25.0	333633.0	1.212089	Y
7	IC 480-729617/19	50.0	61.129147	25.0	345141.0	1.222583	Y
8	IC 480-729617/20	100.0	116.675736	25.0	353770.0	1.166757	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

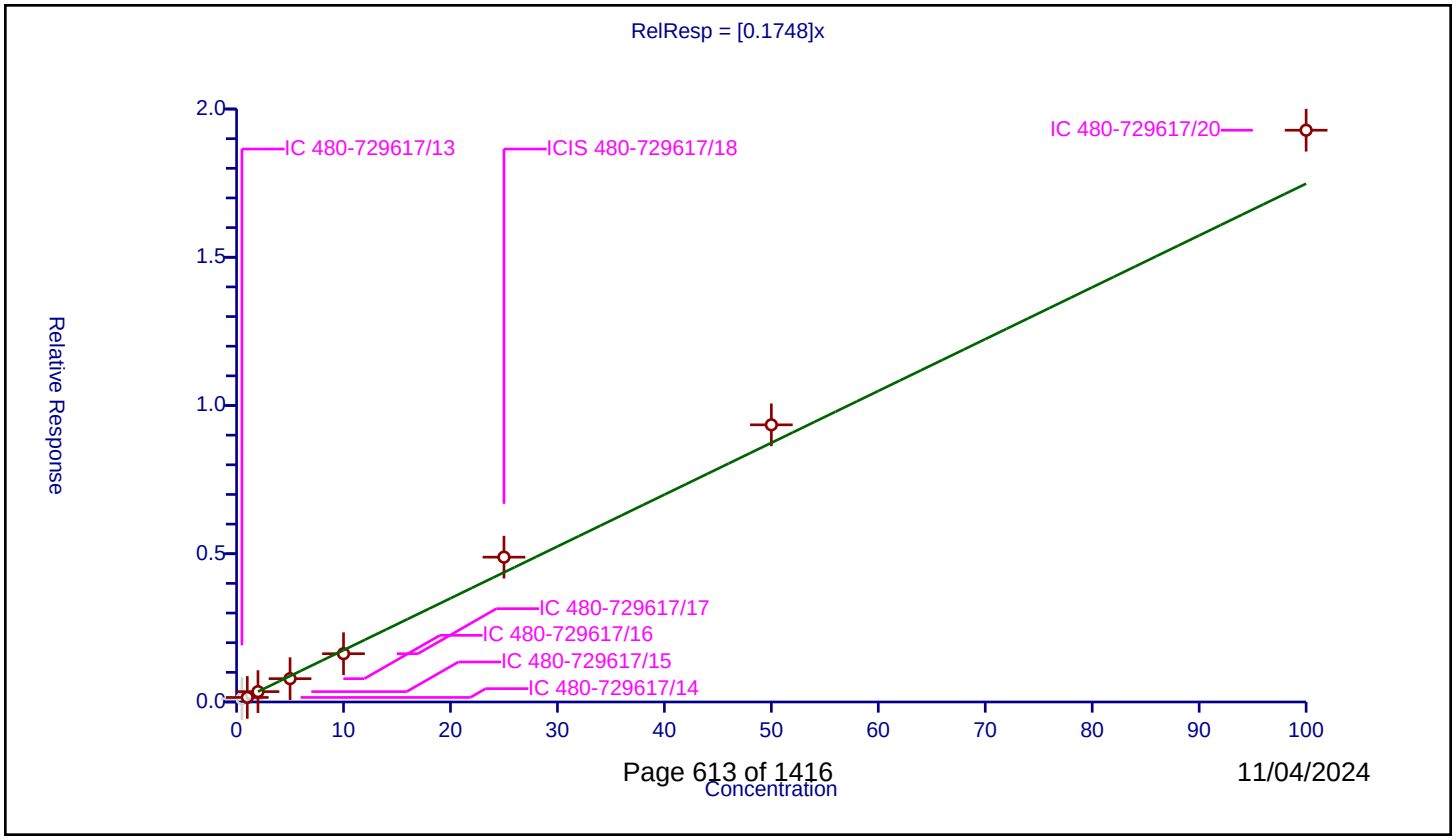
Curve Coefficients

Intercept:	0
Slope:	0.1748

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.112114	25.0	329798.0	0.224228	N
2	IC 480-729617/14	1.0	0.153762	25.0	338348.0	0.153762	Y
3	IC 480-729617/15	2.0	0.349081	25.0	332516.0	0.17454	Y
4	IC 480-729617/16	5.0	0.786974	25.0	343944.0	0.157395	Y
5	IC 480-729617/17	10.0	1.628756	25.0	319262.0	0.162876	Y
6	ICIS 480-729617/18	25.0	4.885083	25.0	333633.0	0.195403	Y
7	IC 480-729617/19	50.0	9.347701	25.0	345141.0	0.186954	Y
8	IC 480-729617/20	100.0	19.285058	25.0	353770.0	0.192851	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

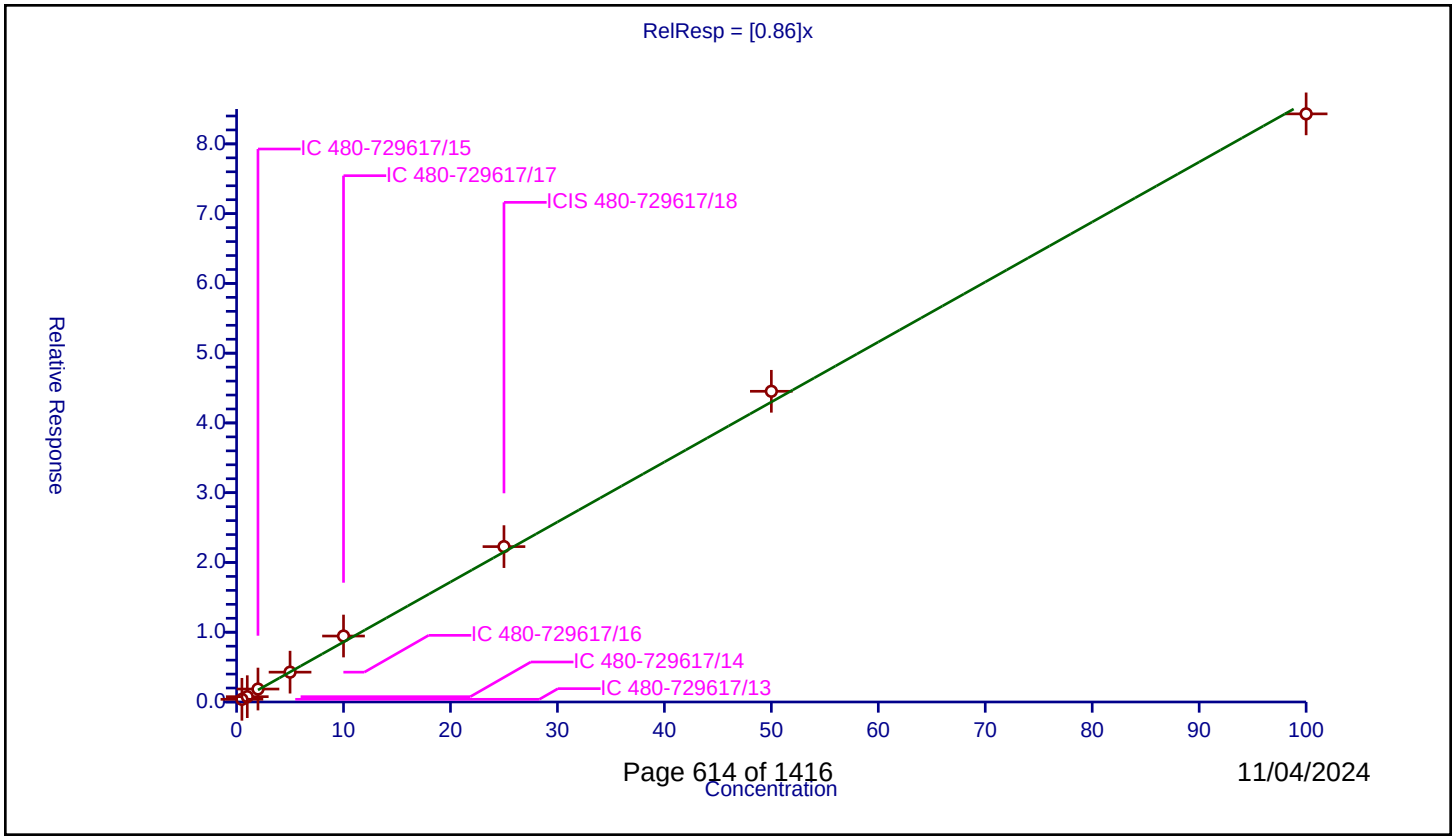
Curve Coefficients

Intercept:	0
Slope:	0.86

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.38281	25.0	329798.0	0.76562	Y
2	IC 480-729617/14	1.0	0.761199	25.0	338348.0	0.761199	Y
3	IC 480-729617/15	2.0	1.856978	25.0	332516.0	0.928489	Y
4	IC 480-729617/16	5.0	4.27446	25.0	343944.0	0.854892	Y
5	IC 480-729617/17	10.0	9.453599	25.0	319262.0	0.94536	Y
6	ICIS 480-729617/18	25.0	22.270804	25.0	333633.0	0.890832	Y
7	IC 480-729617/19	50.0	44.538392	25.0	345141.0	0.890768	Y
8	IC 480-729617/20	100.0	84.305552	25.0	353770.0	0.843056	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

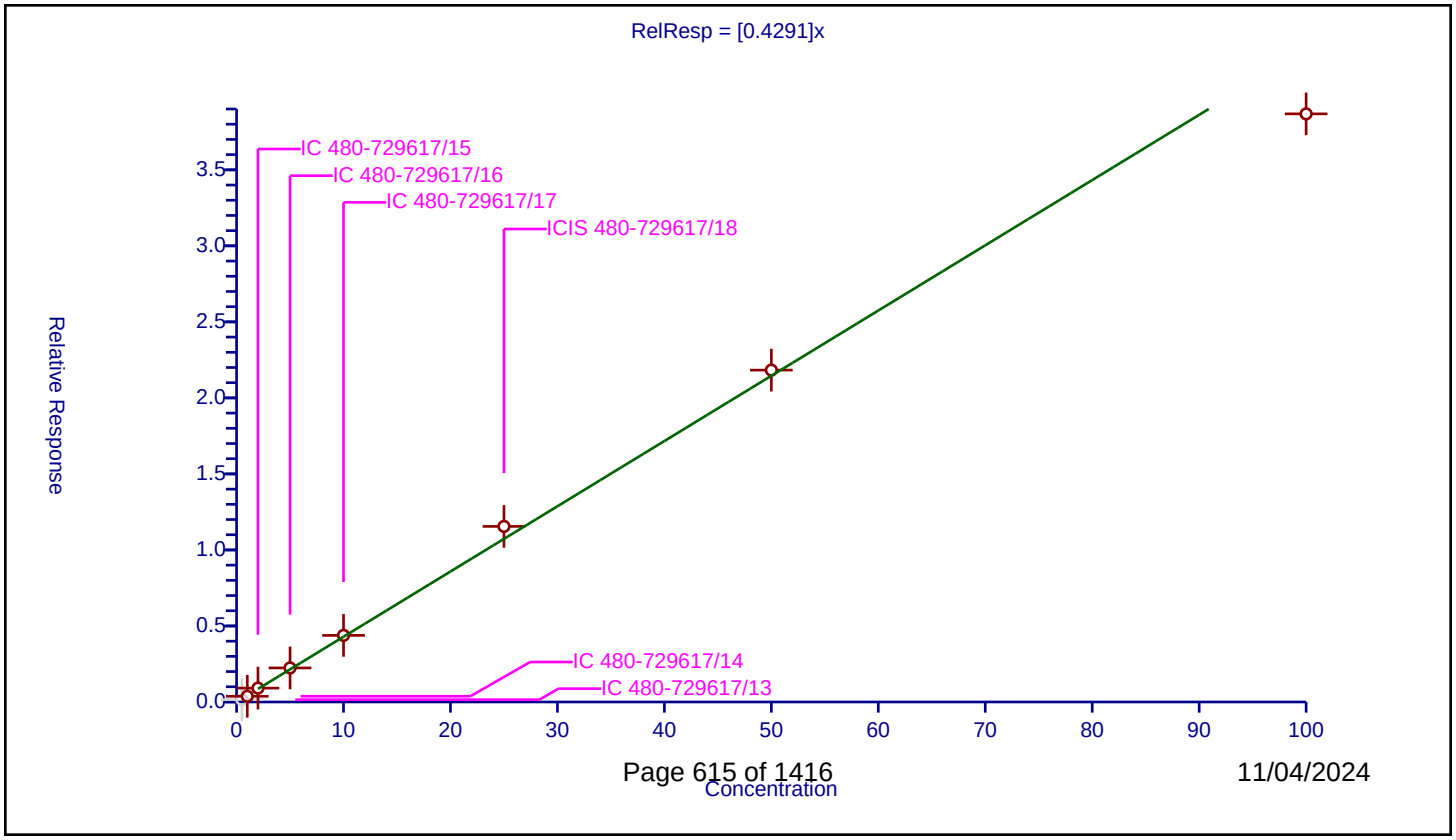
Curve Coefficients

Intercept:	0
Slope:	0.4291

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.1532	25.0	329798.0	0.3064	N
2	IC 480-729617/14	1.0	0.375575	25.0	338348.0	0.375575	Y
3	IC 480-729617/15	2.0	0.913189	25.0	332516.0	0.456595	Y
4	IC 480-729617/16	5.0	2.240481	25.0	343944.0	0.448096	Y
5	IC 480-729617/17	10.0	4.379553	25.0	319262.0	0.437955	Y
6	ICIS 480-729617/18	25.0	11.547868	25.0	333633.0	0.461915	Y
7	IC 480-729617/19	50.0	21.827818	25.0	345141.0	0.436556	Y
8	IC 480-729617/20	100.0	38.681135	25.0	353770.0	0.386811	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

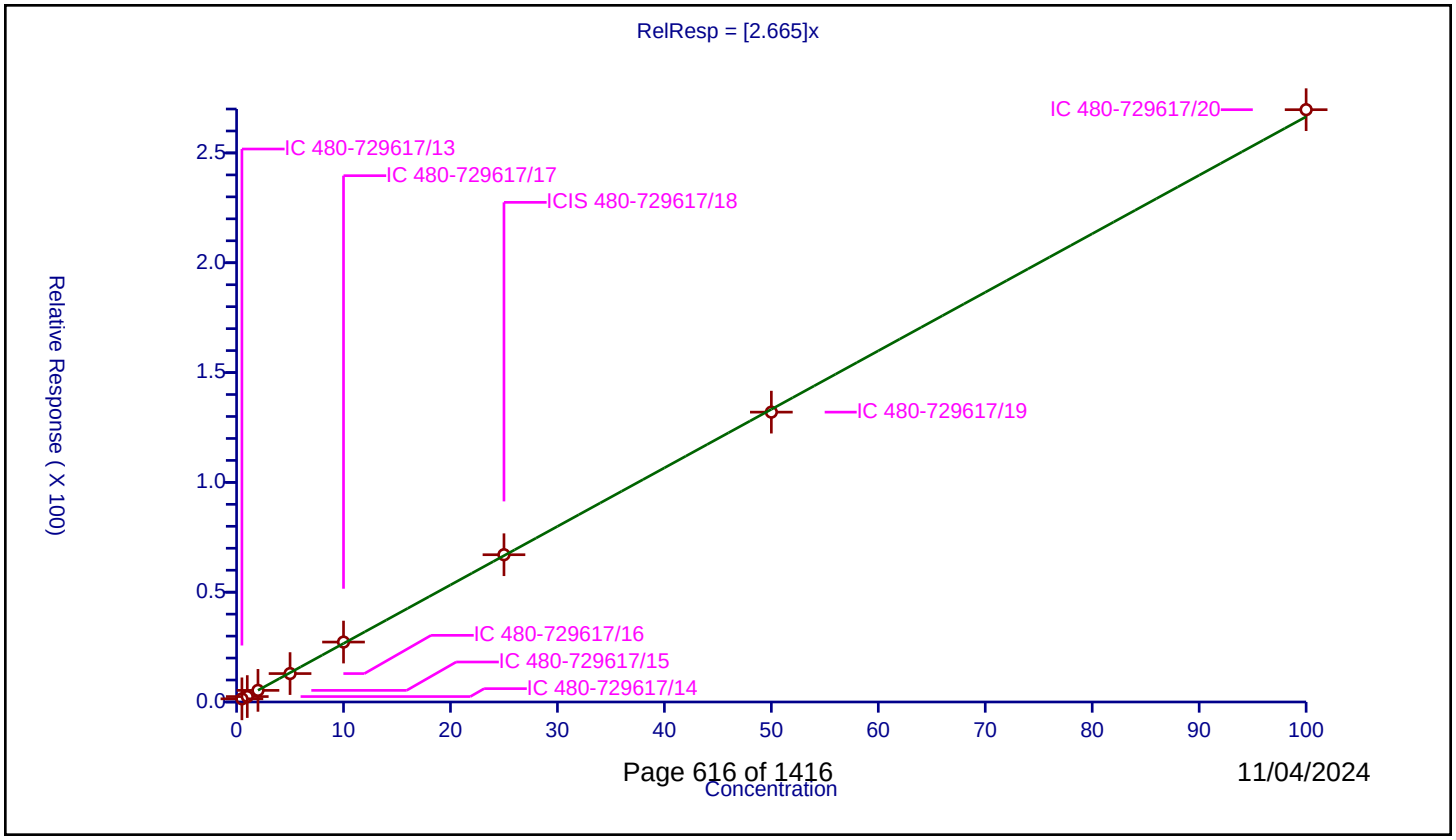
Curve Coefficients

Intercept:	0
Slope:	2.665

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.437319	25.0	329798.0	2.874638	Y
2	IC 480-729617/14	1.0	2.466839	25.0	338348.0	2.466839	Y
3	IC 480-729617/15	2.0	5.28531	25.0	332516.0	2.642655	Y
4	IC 480-729617/16	5.0	12.939897	25.0	343944.0	2.587979	Y
5	IC 480-729617/17	10.0	27.293179	25.0	319262.0	2.729318	Y
6	ICIS 480-729617/18	25.0	67.059464	25.0	333633.0	2.682379	Y
7	IC 480-729617/19	50.0	131.974686	25.0	345141.0	2.639494	Y
8	IC 480-729617/20	100.0	269.696696	25.0	353770.0	2.696967	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

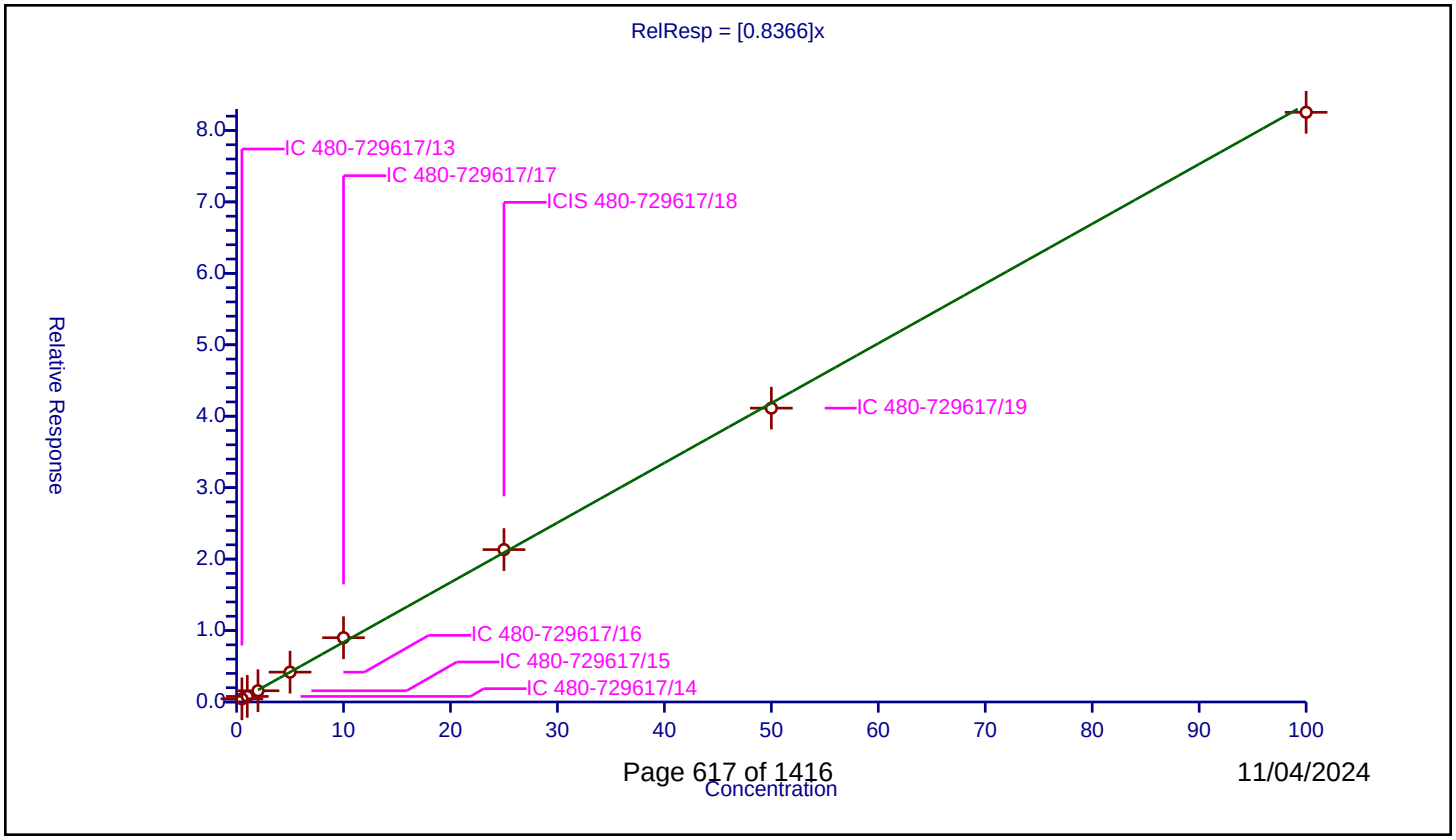
Curve Coefficients

Intercept:	0
Slope:	0.8366

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.444818	25.0	329798.0	0.889635	Y
2	IC 480-729617/14	1.0	0.779006	25.0	338348.0	0.779006	Y
3	IC 480-729617/15	2.0	1.574962	25.0	332516.0	0.787481	Y
4	IC 480-729617/16	5.0	4.178224	25.0	343944.0	0.835645	Y
5	IC 480-729617/17	10.0	8.995746	25.0	319262.0	0.899575	Y
6	ICIS 480-729617/18	25.0	21.32905	25.0	333633.0	0.853162	Y
7	IC 480-729617/19	50.0	41.130002	25.0	345141.0	0.8226	Y
8	IC 480-729617/20	100.0	82.539644	25.0	353770.0	0.825396	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-729617/34 Calibration Date: 10/24/2024 23:10

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N0925.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	1.232	1.195	0.1000	24.3	25.0	-3.0	50.0
Chloromethane	Ave	2.532	2.561	0.1000	25.3	25.0	1.1	30.0
Vinyl chloride	Ave	1.336	1.297	0.1000	24.3	25.0	-3.0	30.0
Butadiene	Ave	2.138	1.993		23.3	25.0	-6.8	30.0
Bromomethane	Ave	0.7589	0.7224	0.1000	23.8	25.0	-4.8	50.0
Chloroethane	Ave	0.9367	0.8678	0.1000	23.2	25.0	-7.4	50.0
Trichlorofluoromethane	Ave	1.655	1.579	0.1000	23.9	25.0	-4.6	30.0
Dichlorofluoromethane	Ave	2.138	1.999		23.4	25.0	-6.5	30.0
Ethyl ether	Ave	1.362	1.393		25.6	25.0	2.2	30.0
Acrolein	Ave	0.2087	0.2002		120	125	-4.1	50.0
1,1-Dichloroethene	Ave	0.8512	0.8815	0.1000	25.9	25.0	3.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.8751	0.8926	0.1000	25.5	25.0	2.0	30.0
Acetone	Ave	0.9069	0.8019	0.1000	111	125	-11.6	50.0
Iodomethane	Ave	1.612	1.649		25.6	25.0	2.3	30.0
Carbon disulfide	Ave	3.087	3.079	0.1000	24.9	25.0	-0.3	30.0
Allyl chloride	Ave	3.593	3.488		24.3	25.0	-2.9	30.0
Methyl acetate	Ave	2.427	2.303	0.1000	47.4	50.0	-5.1	50.0
Methylene Chloride	Lin1		1.028	0.1000	24.8	25.0	-1.0	30.0
2-Methyl-2-propanol	Ave	0.2326	0.2244		241	250	-3.5	50.0
Methyl tert-butyl ether	Ave	3.702	3.693	0.1000	24.9	25.0	-0.2	30.0
trans-1,2-Dichloroethene	Ave	1.031	1.065	0.1000	25.8	25.0	3.3	30.0
Acrylonitrile	Ave	1.113	1.093		245	250	-1.8	30.0
Hexane	Ave	2.305	2.259		24.5	25.0	-2.0	30.0
1,1-Dichloroethane	Ave	2.391	2.509	0.2000	26.2	25.0	5.0	30.0
Vinyl acetate	Ave	4.716	4.706		49.9	50.0	-0.2	30.0
2,2-Dichloropropane	Ave	1.435	1.336		23.3	25.0	-6.9	30.0
cis-1,2-Dichloroethene	Ave	1.130	1.118	0.1000	24.7	25.0	-1.1	30.0
2-Butanone (MEK)	Ave	1.481	1.490	0.1000	126	125	0.6	30.0
Chlorobromomethane	Ave	0.5600	0.5669		25.3	25.0	1.2	30.0
Tetrahydrofuran	Ave	1.083	1.032		47.6	50.0	-4.7	30.0
Chloroform	Ave	1.933	1.873	0.2000	24.2	25.0	-3.1	30.0
1,1,1-Trichloroethane	Ave	1.589	1.626	0.1000	25.6	25.0	2.3	30.0
Cyclohexane	Ave	2.956	2.974	0.1000	25.2	25.0	0.6	30.0
Carbon tetrachloride	Ave	1.484	1.499	0.1000	25.2	25.0	1.0	30.0
1,1-Dichloropropene	Ave	1.350	1.455		26.9	25.0	7.8	30.0
Benzene	Ave	4.040	4.110	0.5000	25.4	25.0	1.7	30.0
Isobutyl alcohol	Ave	0.1317	0.1079		512	625	-18.1	50.0
1,2-Dichloroethane	Ave	2.077	2.117	0.1000	25.5	25.0	1.9	30.0
n-Heptane	Ave	2.974	2.739		23.0	25.0	-7.9	30.0
Trichloroethene	Ave	1.042	1.077	0.2000	25.8	25.0	3.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-729617/34 Calibration Date: 10/24/2024 23:10

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N0925.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
Methylcyclohexane	Ave	1.698	1.711	0.1000	25.2	25.0	0.7	30.0
1,2-Dichloropropane	Ave	1.281	1.361	0.1000	26.6	25.0	6.2	30.0
Dibromomethane	Ave	0.7351	0.7113	0.1000	24.2	25.0	-3.2	30.0
1,4-Dioxane	Ave	0.0029	0.0021		363	500	-27.3	50.0
Bromodichloromethane	Ave	1.255	1.374	0.2000	27.4	25.0	9.5	30.0
2-Chloroethyl vinyl ether	Ave	0.8911	1.018		28.5	25.0	14.2	30.0
cis-1,3-Dichloropropene	Ave	1.663	1.783	0.2000	26.8	25.0	7.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2751	0.2786	0.1000	127	125	1.3	30.0
Toluene	Ave	0.6825	0.7047	0.4000	25.8	25.0	3.3	30.0
trans-1,3-Dichloropropene	Ave	0.4252	0.4642	0.1000	27.3	25.0	9.2	30.0
Ethyl methacrylate	Ave	0.4239	0.4371		25.8	25.0	3.1	30.0
1,1,2-Trichloroethane	Ave	0.2125	0.2164	0.1000	25.5	25.0	1.8	30.0
Tetrachloroethene	Ave	0.2859	0.2948	0.2000	25.8	25.0	3.1	30.0
1,3-Dichloropropane	Ave	0.4378	0.4555		26.0	25.0	4.0	30.0
2-Hexanone	Ave	0.6159	0.6340	0.1000	129	125	2.9	30.0
Dibromochloromethane	Ave	0.2800	0.3015	0.1000	26.9	25.0	7.7	30.0
1,2-Dibromoethane	Ave	0.2802	0.2934		26.2	25.0	4.7	30.0
Chlorobenzene	Ave	0.7460	0.7725	0.5000	25.9	25.0	3.6	30.0
Ethylbenzene	Ave	1.300	1.332	0.1000	25.6	25.0	2.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.2860	0.2967		25.9	25.0	3.8	30.0
m,p-Xylene	Ave	0.5125	0.5172	0.1000	25.2	25.0	0.9	30.0
o-Xylene	Ave	0.5126	0.5334	0.3000	26.0	25.0	4.0	30.0
Styrene	Ave	0.8348	0.8490	0.3000	25.4	25.0	1.7	30.0
Bromoform	Ave	0.1828	0.1960	0.1000	26.8	25.0	7.2	50.0
Isopropylbenzene	Ave	2.477	2.568	0.1000	25.9	25.0	3.7	30.0
Bromobenzene	Ave	0.6396	0.6585		25.7	25.0	3.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7939	0.7909	0.3000	24.9	25.0	-0.4	30.0
N-Propylbenzene	Ave	2.943	3.124		26.5	25.0	6.2	30.0
1,2,3-Trichloropropane	Ave	0.2684	0.2606		24.3	25.0	-2.9	30.0
trans-1,4-Dichloro-2-butene	Ave	0.4251	0.4713		27.7	25.0	10.9	50.0
2-Chlorotoluene	Ave	0.6157	0.6333		25.7	25.0	2.9	30.0
1,3,5-Trimethylbenzene	Ave	2.178	2.330		26.7	25.0	7.0	30.0
4-Chlorotoluene	Ave	2.111	2.175		25.8	25.0	3.0	30.0
tert-Butylbenzene	Ave	0.4644	0.5024		27.0	25.0	8.2	30.0
1,2,4-Trimethylbenzene	Ave	2.315	2.361		25.5	25.0	2.0	30.0
sec-Butylbenzene	Ave	2.753	2.882		26.2	25.0	4.7	30.0
1,3-Dichlorobenzene	Ave	1.181	1.191	0.6000	25.2	25.0	0.8	30.0
4-Isopropyltoluene	Ave	2.464	2.526		25.6	25.0	2.5	30.0
1,4-Dichlorobenzene	Ave	1.216	1.225	0.5000	25.2	25.0	0.8	30.0
n-Butylbenzene	Ave	2.116	2.132		25.2	25.0	0.7	30.0
1,2-Dichlorobenzene	Ave	1.197	1.213	0.4000	25.3	25.0	1.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-729617/34 Calibration Date: 10/24/2024 23:10

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N0925.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
1,2-Dibromo-3-Chloropropane	Ave	0.1748	0.1974	0.0500	28.2	25.0	12.9	50.0
1,2,4-Trichlorobenzene	Ave	0.8600	0.8599	0.2000	25.0	25.0	-0.0	30.0
Hexachlorobutadiene	Ave	0.4291	0.4177		24.3	25.0	-2.6	30.0
Naphthalene	Ave	2.665	2.645		24.8	25.0	-0.7	30.0
1,2,3-Trichlorobenzene	Ave	0.8366	0.8074		24.1	25.0	-3.5	30.0
Dibromofluoromethane (Surr)	Ave	1.136	1.076		23.7	25.0	-5.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.690	1.710		25.3	25.0	1.2	30.0
Toluene-d8 (Surr)	Ave	1.144	1.145		25.0	25.0	0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3609	0.3614		25.0	25.0	0.2	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0925.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Oct-2024 23:10:30 ALS Bottle#: 34 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0120783-034
Operator ID: LH/AD Instrument ID: HP5973N
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:17:31 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 25-Oct-2024 10:34:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.826	-0.006	97	187081	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.770	0.001	90	675010	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	333879	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	201339	25.0	23.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	67	319989	25.0	25.3	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	95	772576	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	86	243979	25.0	25.0	
11 Dichlorodifluoromethane	85	1.042	1.042	0.000	98	223589	25.0	24.3	
13 Chloromethane	50	1.188	1.182	0.006	99	479038	25.0	25.3	
14 Vinyl chloride	62	1.261	1.255	0.006	98	242581	25.0	24.3	
144 Butadiene	54	1.267	1.267	0.000	95	372832	25.0	23.3	
15 Bromomethane	94	1.517	1.504	0.013	91	135154	25.0	23.8	
16 Chloroethane	64	1.565	1.565	0.000	94	162341	25.0	23.2	
17 Dichlorofluoromethane	67	1.748	1.742	0.006	94	374050	25.0	23.4	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	83	295376	25.0	23.9	
19 Ethyl ether	59	1.985	1.985	0.000	93	260537	25.0	25.6	
20 Acrolein	56	2.143	2.143	0.000	99	187223	125.0	119.9	
22 1,1-Dichloroethene	96	2.180	2.174	0.006	89	164910	25.0	25.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.186	2.180	0.006	64	166981	25.0	25.5	
23 Acetone	43	2.283	2.283	0.000	97	750085	125.0	110.5	
24 Iodomethane	142	2.320	2.314	0.006	99	308563	25.0	25.6	
25 Carbon disulfide	76	2.350	2.350	0.000	98	575946	25.0	24.9	
27 3-Chloro-1-propene	41	2.521	2.514	0.007	88	652502	25.0	24.3	
28 Methyl acetate	43	2.563	2.563	0.000	99	861741	50.0	47.4	
30 Methylene Chloride	84	2.648	2.654	-0.006	86	192393	25.0	24.8	
31 2-Methyl-2-propanol	59	2.825	2.825	0.000	97	419798	250.0	241.2	M
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	93	690927	25.0	24.9	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	89	199297	25.0	25.8	
34 Acrylonitrile	53	2.922	2.922	0.000	97	2045170	250.0	245.5	
35 Hexane	57	3.056	3.056	0.000	96	422574	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
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	469414	25.0	26.2	
39 Vinyl acetate	43	3.324	3.323	0.001	96	1760714	50.0	49.9	
42 2,2-Dichloropropane	77	3.762	3.761	0.001	86	249847	25.0	23.3	
43 cis-1,2-Dichloroethene	96	3.804	3.798	0.006	87	209121	25.0	24.7	
44 2-Butanone (MEK)	43	3.835	3.834	0.001	96	1393352	125.0	125.7	
47 Chlorobromomethane	128	4.029	4.029	0.000	82	106054	25.0	25.3	
49 Tetrahydrofuran	42	4.041	4.041	0.000	93	386042	50.0	47.6	
50 Chloroform	83	4.108	4.108	0.000	94	350439	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	73	304235	25.0	25.6	
52 Cyclohexane	56	4.212	4.212	0.000	93	556455	25.0	25.2	
53 Carbon tetrachloride	117	4.340	4.339	0.001	96	280448	25.0	25.2	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	82	272141	25.0	26.9	
55 Benzene	78	4.552	4.552	0.000	88	768996	25.0	25.4	
56 Isobutyl alcohol	43	4.607	4.607	0.000	94	504508	625.0	511.7	
57 1,2-Dichloroethane	62	4.625	4.619	0.006	95	396083	25.0	25.5	
59 n-Heptane	43	4.747	4.747	0.000	94	512454	25.0	23.0	
60 Trichloroethene	95	5.155	5.155	0.000	94	201402	25.0	25.8	
62 Methylcyclohexane	83	5.264	5.264	0.000	91	320023	25.0	25.2	
63 1,2-Dichloropropane	63	5.386	5.392	-0.006	88	254610	25.0	26.6	
64 Dibromomethane	93	5.526	5.526	0.000	96	133078	25.0	24.2	
66 1,4-Dioxane	88	5.538	5.538	0.000	84	28208	500.0	363.3	M
67 Dichlorobromomethane	83	5.684	5.684	0.000	94	257088	25.0	27.4	
69 2-Chloroethyl vinyl ether	63	5.970	5.970	0.000	83	190368	25.0	28.5	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	82	333596	25.0	26.8	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	940140	125.0	126.6	
73 Toluene	92	6.371	6.371	0.000	96	475669	25.0	25.8	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	90	313332	25.0	27.3	
77 Ethyl methacrylate	69	6.724	6.724	0.000	86	295026	25.0	25.8	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	94	146067	25.0	25.5	
79 Tetrachloroethene	166	6.895	6.894	0.001	91	198974	25.0	25.8	
80 1,3-Dichloropropane	76	6.998	6.998	0.000	87	307491	25.0	26.0	
82 2-Hexanone	43	7.083	7.083	0.000	97	2139924	125.0	128.7	
83 Chlorodibromomethane	129	7.229	7.229	0.000	88	203506	25.0	26.9	
84 Ethylene Dibromide	107	7.327	7.320	0.007	96	198081	25.0	26.2	
85 Chlorobenzene	112	7.801	7.801	0.000	90	521465	25.0	25.9	
88 Ethylbenzene	91	7.898	7.898	0.000	98	899077	25.0	25.6	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	91	200309	25.0	25.9	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	97	349084	25.0	25.2	
91 o-Xylene	106	8.440	8.440	0.000	98	360022	25.0	26.0	
92 Styrene	104	8.476	8.476	0.000	94	573104	25.0	25.4	
93 Bromoform	173	8.708	8.707	0.001	96	132288	25.0	26.8	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	857254	25.0	25.9	
97 Bromobenzene	156	9.170	9.170	0.000	92	219867	25.0	25.7	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	95	264051	25.0	24.9	
100 N-Propylbenzene	91	9.273	9.273	0.000	99	1042943	25.0	26.5	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	90	87017	25.0	24.3	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	83	157355	25.0	27.7	
102 2-Chlorotoluene	126	9.371	9.377	-0.006	95	211455	25.0	25.7	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	95	778066	25.0	26.7	
105 4-Chlorotoluene	91	9.492	9.492	0.000	99	726248	25.0	25.8	
106 tert-Butylbenzene	134	9.796	9.796	0.000	97	167753	25.0	27.0	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	788318	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
109 sec-Butylbenzene	105	10.022	10.021	0.001	95	962233	25.0	26.2	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	97	397496	25.0	25.2	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	98	843328	25.0	25.6	
113 1,4-Dichlorobenzene	146	10.241	10.240	0.001	92	409095	25.0	25.2	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	711852	25.0	25.2	
116 1,2-Dichlorobenzene	146	10.600	10.599	0.001	95	404974	25.0	25.3	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	76	65902	25.0	28.2	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	287093	25.0	25.0	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	96	139468	25.0	24.3	
121 Naphthalene	128	12.248	12.248	0.000	97	883196	25.0	24.8	
122 1,2,3-Trichlorobenzene	180	12.449	12.455	-0.006	95	269588	25.0	24.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SS GAS CORP_00599	Amount Added:	12.50	Units: uL	
SS 8260 CORP_00117	Amount Added:	12.50	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

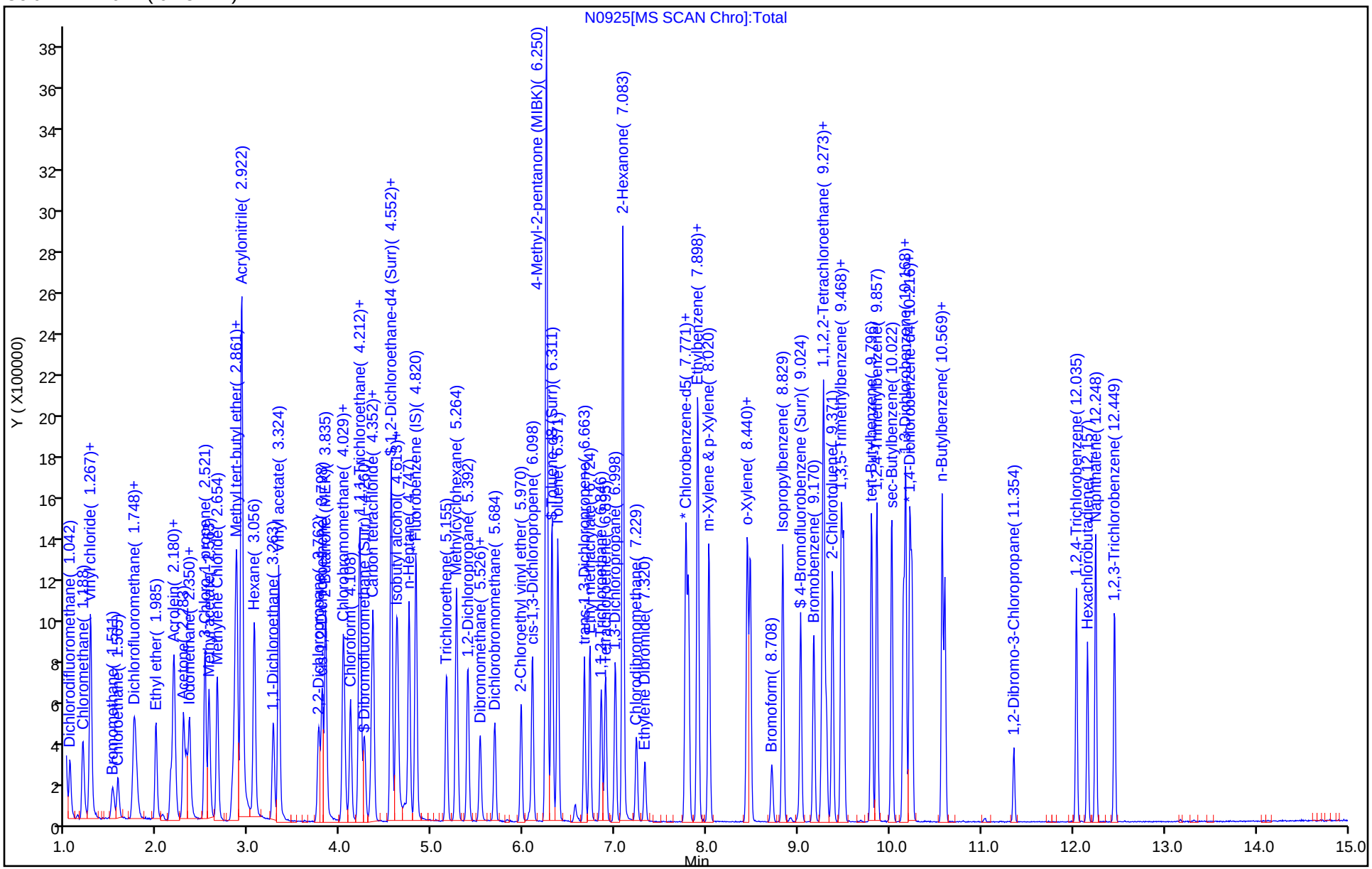
Report Date: 25-Oct-2024 11:20:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0925.d

Injection Date:	24-Oct-2024 23:10:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	ICV			Worklist Smp#:	34
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

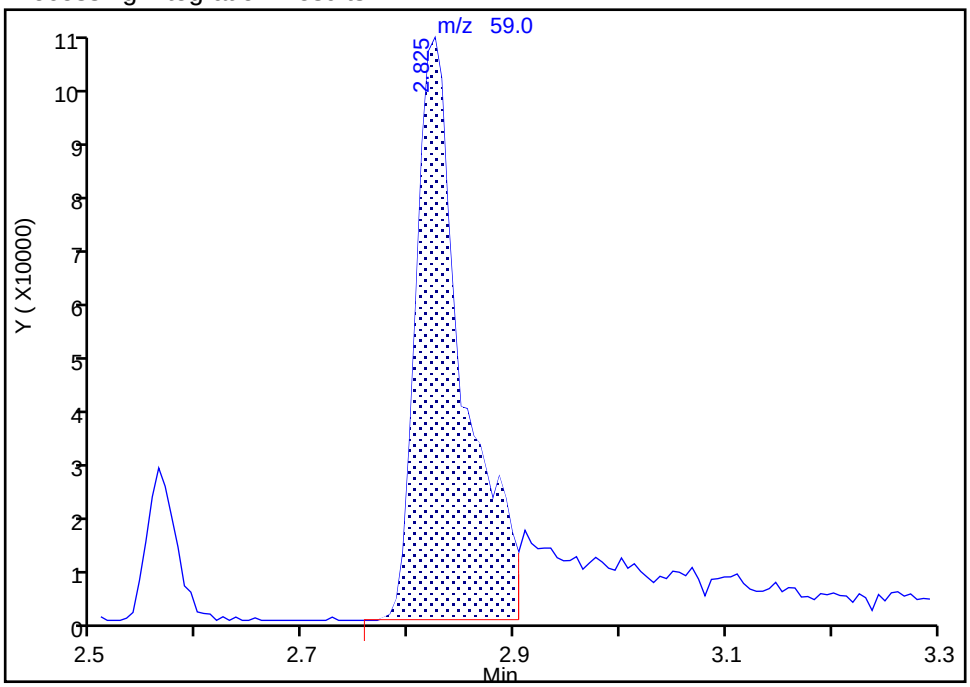
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0925.d
Injection Date: 24-Oct-2024 23:10:30 Instrument ID: HP5973N
Lims ID: ICV
Client ID:
Operator ID: LH/AD ALS Bottle#: 34 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

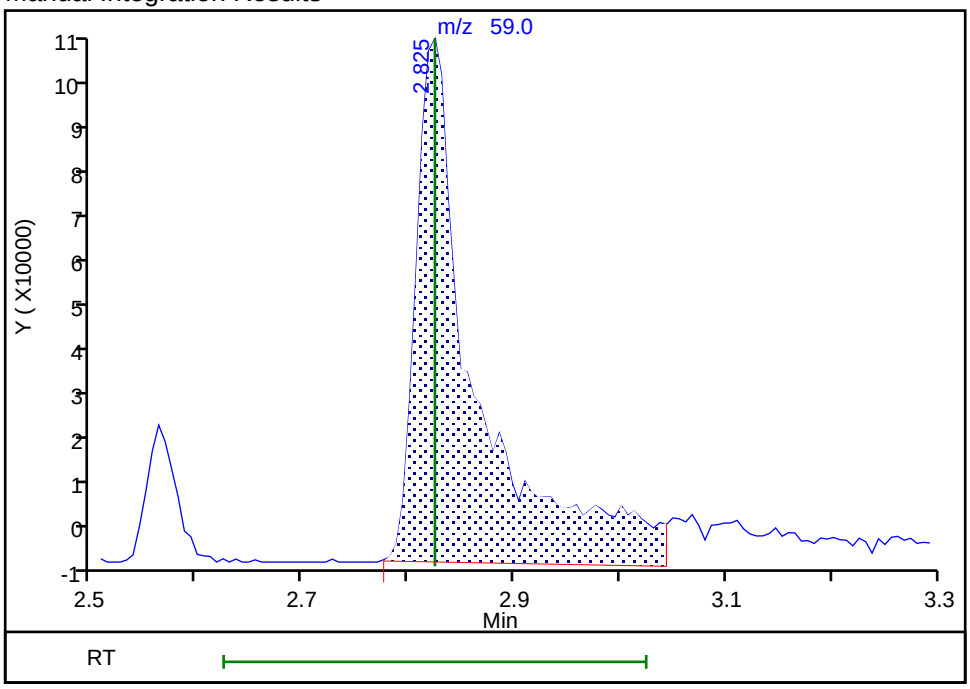
Processing Integration Results

RT: 2.82
Area: 327932
Amount: 188.3994
Amount Units: ug/L



Manual Integration Results

RT: 2.82
Area: 419798
Amount: 241.1771
Amount Units: ug/L



Reviewer: WLL8, 25-Oct-2024 10:32:01 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

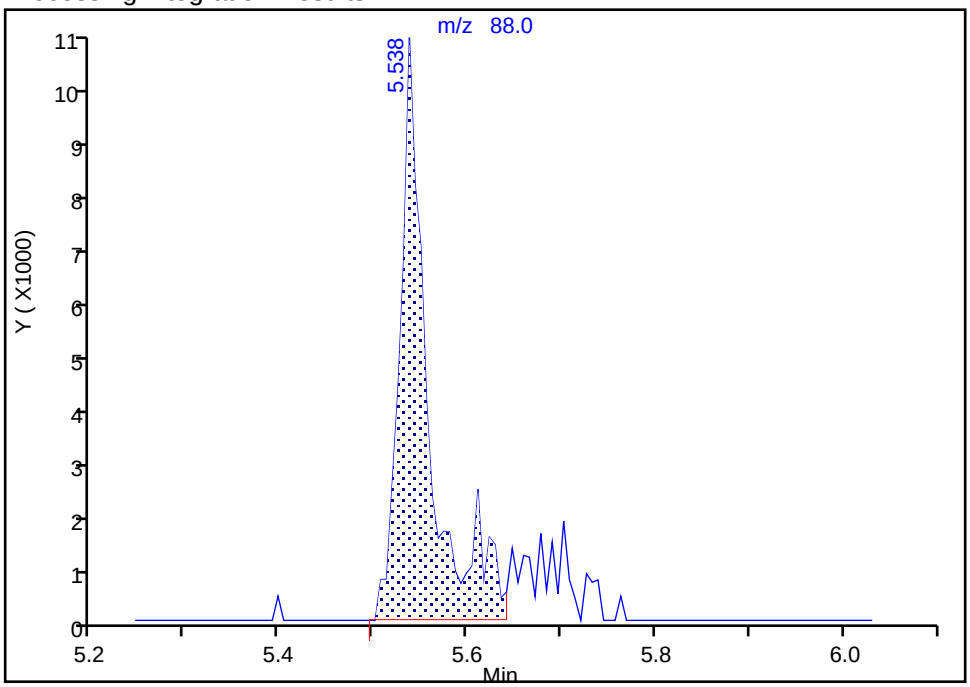
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0925.d
Injection Date: 24-Oct-2024 23:10:30 Instrument ID: HP5973N
Lims ID: ICV
Client ID:
Operator ID: LH/AD ALS Bottle#: 34 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

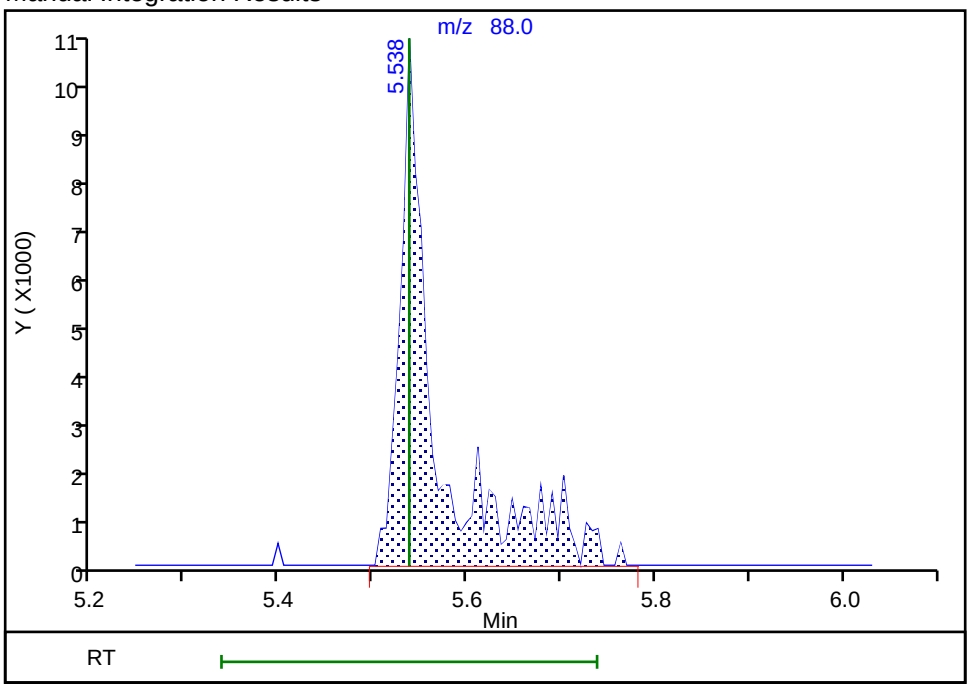
Processing Integration Results

RT: 5.54
Area: 22822
Amount: 293.9592
Amount Units: ug/L



Manual Integration Results

RT: 5.54
Area: 28208
Amount: 363.3337
Amount Units: ug/L



Reviewer: WLL8, 25-Oct-2024 10:32:36 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-729617/35 Calibration Date: 10/24/2024 23:33

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N0926.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
Dibromofluoromethane (Surr)	Ave	1.136	1.117		24.6	25.0	-1.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.690	1.715		25.4	25.0	1.5	30.0
Toluene-d8 (Surr)	Ave	1.144	1.141		24.9	25.0	-0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3609	0.3557		24.6	25.0	-1.4	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0926.d
Lims ID: ICV ADD
Client ID:
Sample Type: ICV
Inject. Date: 24-Oct-2024 23:33:30 ALS Bottle#: 35 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV ADD
Misc. Info.: 480-0120783-035
Operator ID: LH/AD Instrument ID: HP5973N
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:17:31 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 25-Oct-2024 10:36:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.826	-0.006	97	189998	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.770	0.001	90	679618	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	324763	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	93	212268	25.0	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	325778	25.0	25.4	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	95	775208	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	88	241741	25.0	24.6	
12 Chlorodifluoromethane	51	1.060	1.060	0.000	96	444332	25.0	26.8	
141 Ethanol	45	1.991	1.985	0.006	99	100515	1000.0	855.7	
81 Propene oxide	58	2.064	2.058	0.006	95	514297	NC	NC	
26 Isopropyl alcohol	45	2.466	2.466	0.000	99	215121	250.0	220.6	
29 Acetonitrile	40	2.569	2.569	0.000	98	324499	250.0	233.1	M
37 Isopropyl ether	45	3.287	3.287	0.000	98	1380395	25.0	25.9	
38 2-Chloro-1,3-butadiene	53	3.323	3.317	0.006	89	589026	25.0	27.4	
40 1,1-Dimethoxyethane	75	3.360	3.360	0.000	96	303384	125.0	127.3	
41 Tert-butyl ethyl ether	59	3.615	3.609	0.006	96	1016203	25.0	24.9	
45 Ethyl acetate	43	3.877	3.877	0.000	98	1049340	50.0	51.9	
46 Propionitrile	54	3.938	3.932	0.006	99	727712	250.0	253.5	
48 Methacrylonitrile	67	4.041	4.041	0.000	96	1220800	250.0	263.0	
146 Isooctane	57	4.558	4.558	0.000	98	1173795	25.0	26.2	
58 Tert-amyl methyl ether	73	4.644	4.644	0.000	85	800663	25.0	25.4	
140 t-Amyl alcohol	59	4.662	4.656	0.006	79	457032	250.0	245.5	
1 1,4-Difluorobenzene	114	4.942	4.942	0.000	97	594224	25.0	28.2	
61 n-Butanol	56	5.222	5.215	0.007	97	203418	625.0	546.2	
145 Ethyl acrylate	55	5.301	5.301	0.000	98	512913	25.0	25.8	
65 Methyl methacrylate	41	5.507	5.507	0.000	87	855565	50.0	51.7	
68 2-Nitropropane	43	5.933	5.933	0.000	98	230725	50.0	52.0	
70 Epichlorohydrin	57	6.055	6.055	0.000	98	451177	250.0	238.5	
149 n-Butyl acetate	43	7.205	7.205	0.000	95	761057	25.0	24.4	
139 1-Chlorohexane	55	7.771	7.770	0.001	71	310510	25.0	26.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
86 3-Chlorobenzotrifluoride	180	7.795	7.795	0.000	93	304999	25.0	28.4	
87 4-Chlorobenzotrifluoride	180	7.856	7.856	0.000	95	272015	25.0	26.4	
94 2-Chlorobenzotrifluoride	180	8.762	8.762	0.000	97	318408	25.0	28.1	
96 Cyclohexanone	55	8.993	8.993	0.000	95	130999	250.0	208.2	
103 3-Chlorotoluene	126	9.444	9.443	0.001	97	224123	25.0	27.6	
107 Pentachloroethane	167	9.851	9.851	0.000	90	110550	25.0	25.8	
112 Dicyclopentadiene	66	10.210	10.210	0.000	98	1112508	25.0	27.4	
114 1,2,3-Trimethylbenzene	105	10.277	10.277	0.000	99	826528	25.0	26.8	
143 Benzyl chloride	126	10.399	10.399	0.000	99	93766	25.0	22.7	
118 1,3,5-Trichlorobenzene	180	11.488	11.488	0.000	97	310737	25.0	27.1	
142 2-Methylnaphthalene	142	13.173	13.173	0.000	93	531209	25.0	26.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SS ADD CORP_00094	Amount Added: 12.50	Units: uL	
N_8260_Surr_00475	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added: 1.00	Units: uL	Run Reagent

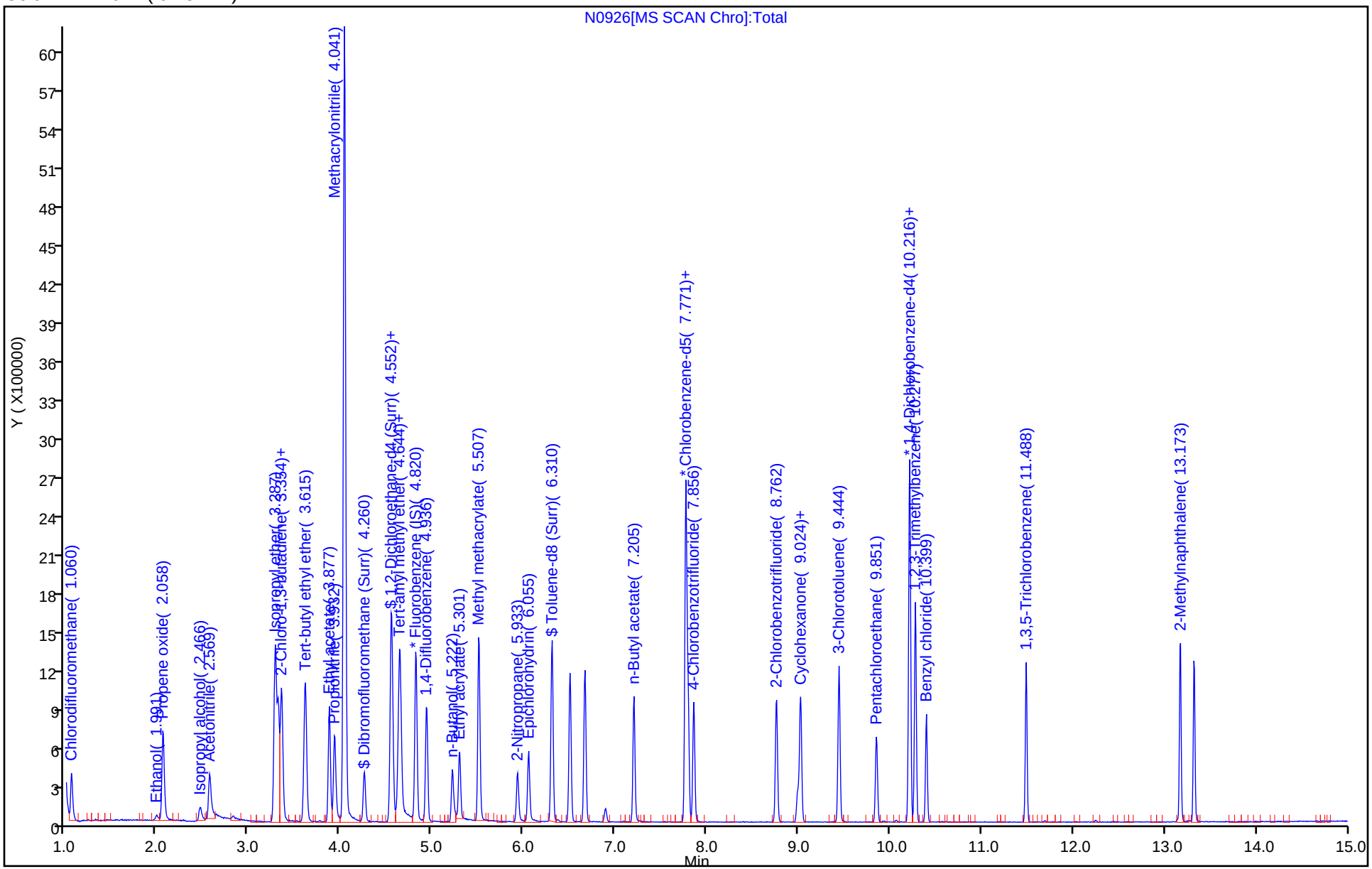
Report Date: 25-Oct-2024 11:20:52 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0926.d

Injection Date:	24-Oct-2024 23:33:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	ICV ADD			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	N-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.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-729617/35 Calibration Date: 10/24/2024 23:33

Instrument ID: HP5973N Calib Start Date: 10/24/2024 19:48

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 22:03

Lab File ID: N0926.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
Chlorodifluoromethane	Ave	2.183	2.339		26.8	25.0	7.1	30.0
Ethanol	Ave	0.0155	0.0132		856	1000	-14.4	30.0
Isopropyl alcohol	Ave	0.1283	0.1132		221	250	-11.8	30.0
Acetonitrile	Ave	0.1832	0.1708		233	250	-6.8	30.0
Isopropyl ether	Ave	7.005	7.265		25.9	25.0	3.7	30.0
Chloroprene	Ave	2.834	3.100		27.4	25.0	9.4	30.0
1,1-Dimethoxyethane	Ave	0.3136	0.3194		127	125	1.8	30.0
Tert-butyl ethyl ether	Ave	5.374	5.348		24.9	25.0	-0.5	30.0
Ethyl acetate	Ave	2.660	2.761		51.9	50.0	3.8	30.0
Propionitrile	Ave	0.3777	0.3830		254	250	1.4	30.0
Methacrylonitrile	Ave	0.6107	0.6425		263	250	5.2	30.0
Isooctane	Ave	5.888	6.178		26.2	25.0	4.9	30.0
Tert-amyl methyl ether	Ave	4.144	4.214		25.4	25.0	1.7	30.0
t-Amyl alcohol	Ave	0.2449	0.2405		246	250	-1.8	30.0
1,4-Difluorobenzene	Ave	2.773	3.128		28.2	25.0	12.8	30.0
n-Butanol	Ave	0.0490	0.0428		546	625	-12.6	30.0
Ethyl acrylate	Ave	2.617	2.700		25.8	25.0	3.2	30.0
Methyl methacrylate	Ave	2.177	2.252		51.7	50.0	3.4	30.0
2-Nitropropane	Ave	0.3413	0.3552		52.0	50.0	4.1	30.0
Epichlorohydrin	Ave	0.2489	0.2375		239	250	-4.6	30.0
n-Butyl acetate	Ave	1.148	1.120	0.1000	24.4	25.0	-2.5	30.0
1-Chlorohexane	Lin1		0.4569		26.6	25.0	6.6	30.0
3-Chlorobenzotrifluoride	Ave	0.8260	0.9391		28.4	25.0	13.7	30.0
4-Chlorobenzotrifluoride	Ave	0.7930	0.8376		26.4	25.0	5.6	30.0
2-Chlorobenzotrifluoride	Ave	0.8727	0.9804		28.1	25.0	12.3	30.0
Cyclohexanone	Ave	0.0484	0.0403		208	250	-16.7	30.0
3-Chlorotoluene	Ave	0.6252	0.6901		27.6	25.0	10.4	30.0
Pentachloroethane	Ave	0.3301	0.3404		25.8	25.0	3.1	30.0
Dicyclopentadiene	Ave	3.128	3.426		27.4	25.0	9.5	30.0
1,2,3-Trimethylbenzene	Ave	2.373	2.545		26.8	25.0	7.2	30.0
Benzyl chloride	Ave	0.1521	0.1380		22.7	25.0	-9.3	30.0
1,3,5-Trichlorobenzene	Ave	0.8843	0.9568		27.1	25.0	8.2	30.0
2-Methylnaphthalene	Ave	1.547	1.636		26.4	25.0	5.7	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0926.d
Lims ID: ICV ADD
Client ID:
Sample Type: ICV
Inject. Date: 24-Oct-2024 23:33:30 ALS Bottle#: 35 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV ADD
Misc. Info.: 480-0120783-035
Operator ID: LH/AD Instrument ID: HP5973N
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:17:31 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 25-Oct-2024 10:36:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.826	-0.006	97	189998	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.770	0.001	90	679618	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	324763	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	93	212268	25.0	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	325778	25.0	25.4	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	95	775208	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	88	241741	25.0	24.6	
12 Chlorodifluoromethane	51	1.060	1.060	0.000	96	444332	25.0	26.8	
141 Ethanol	45	1.991	1.985	0.006	99	100515	1000.0	855.7	
81 Propene oxide	58	2.064	2.058	0.006	95	514297	NC	NC	
26 Isopropyl alcohol	45	2.466	2.466	0.000	99	215121	250.0	220.6	
29 Acetonitrile	40	2.569	2.569	0.000	98	324499	250.0	233.1	M
37 Isopropyl ether	45	3.287	3.287	0.000	98	1380395	25.0	25.9	
38 2-Chloro-1,3-butadiene	53	3.323	3.317	0.006	89	589026	25.0	27.4	
40 1,1-Dimethoxyethane	75	3.360	3.360	0.000	96	303384	125.0	127.3	
41 Tert-butyl ethyl ether	59	3.615	3.609	0.006	96	1016203	25.0	24.9	
45 Ethyl acetate	43	3.877	3.877	0.000	98	1049340	50.0	51.9	
46 Propionitrile	54	3.938	3.932	0.006	99	727712	250.0	253.5	
48 Methacrylonitrile	67	4.041	4.041	0.000	96	1220800	250.0	263.0	
146 Isooctane	57	4.558	4.558	0.000	98	1173795	25.0	26.2	
58 Tert-amyl methyl ether	73	4.644	4.644	0.000	85	800663	25.0	25.4	
140 t-Amyl alcohol	59	4.662	4.656	0.006	79	457032	250.0	245.5	
1 1,4-Difluorobenzene	114	4.942	4.942	0.000	97	594224	25.0	28.2	
61 n-Butanol	56	5.222	5.215	0.007	97	203418	625.0	546.2	
145 Ethyl acrylate	55	5.301	5.301	0.000	98	512913	25.0	25.8	
65 Methyl methacrylate	41	5.507	5.507	0.000	87	855565	50.0	51.7	
68 2-Nitropropane	43	5.933	5.933	0.000	98	230725	50.0	52.0	
70 Epichlorohydrin	57	6.055	6.055	0.000	98	451177	250.0	238.5	
149 n-Butyl acetate	43	7.205	7.205	0.000	95	761057	25.0	24.4	
139 1-Chlorohexane	55	7.771	7.770	0.001	71	310510	25.0	26.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
86 3-Chlorobenzotrifluoride	180	7.795	7.795	0.000	93	304999	25.0	28.4	
87 4-Chlorobenzotrifluoride	180	7.856	7.856	0.000	95	272015	25.0	26.4	
94 2-Chlorobenzotrifluoride	180	8.762	8.762	0.000	97	318408	25.0	28.1	
96 Cyclohexanone	55	8.993	8.993	0.000	95	130999	250.0	208.2	
103 3-Chlorotoluene	126	9.444	9.443	0.001	97	224123	25.0	27.6	
107 Pentachloroethane	167	9.851	9.851	0.000	90	110550	25.0	25.8	
112 Dicyclopentadiene	66	10.210	10.210	0.000	98	1112508	25.0	27.4	
114 1,2,3-Trimethylbenzene	105	10.277	10.277	0.000	99	826528	25.0	26.8	
143 Benzyl chloride	126	10.399	10.399	0.000	99	93766	25.0	22.7	
118 1,3,5-Trichlorobenzene	180	11.488	11.488	0.000	97	310737	25.0	27.1	
142 2-Methylnaphthalene	142	13.173	13.173	0.000	93	531209	25.0	26.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SS ADD CORP_00094	Amount Added: 12.50	Units: uL	
N_8260_Surr_00475	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added: 1.00	Units: uL	Run Reagent

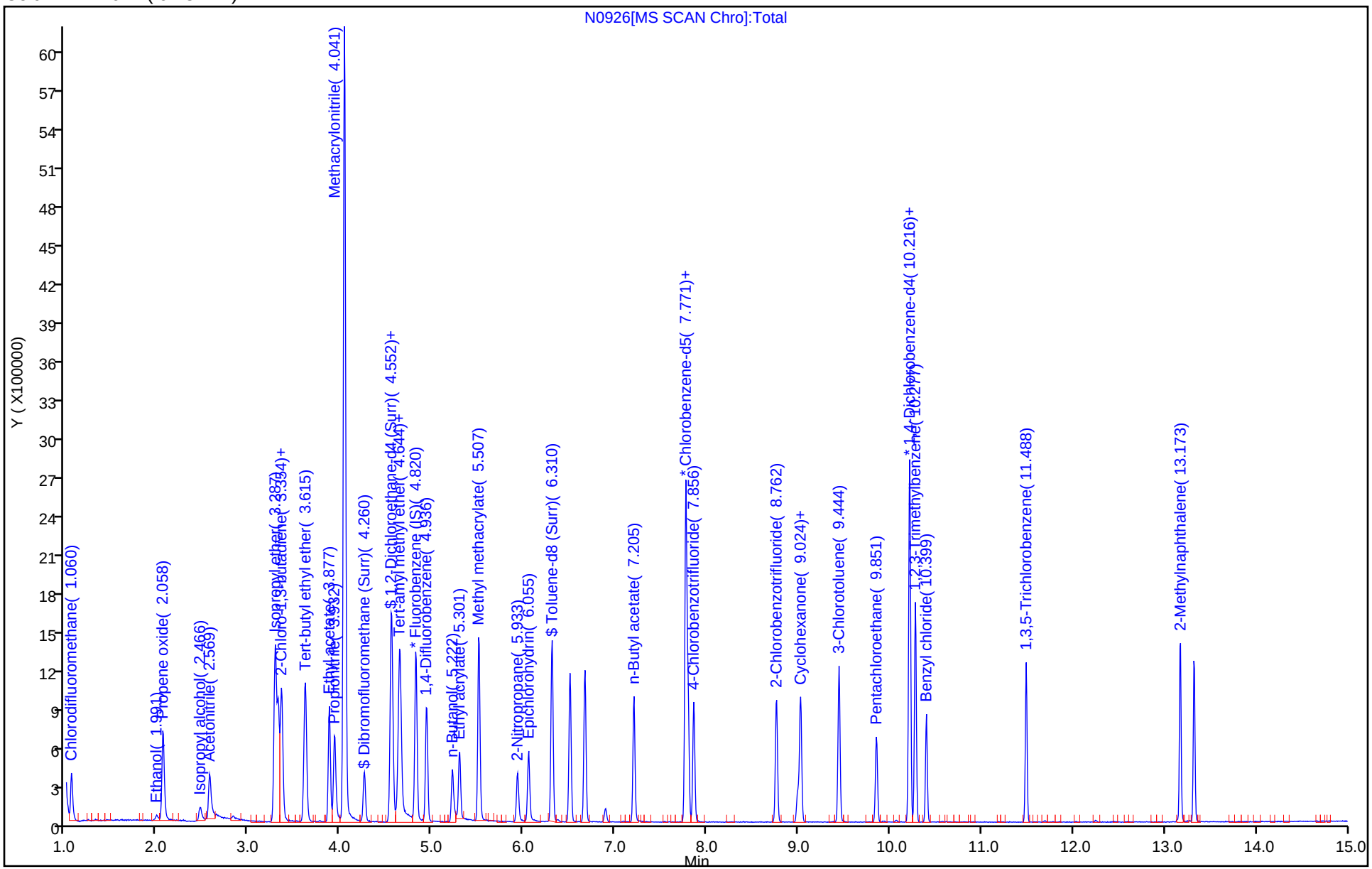
Report Date: 25-Oct-2024 11:20:52 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0926.d

Injection Date:	24-Oct-2024 23:33:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	ICV ADD			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

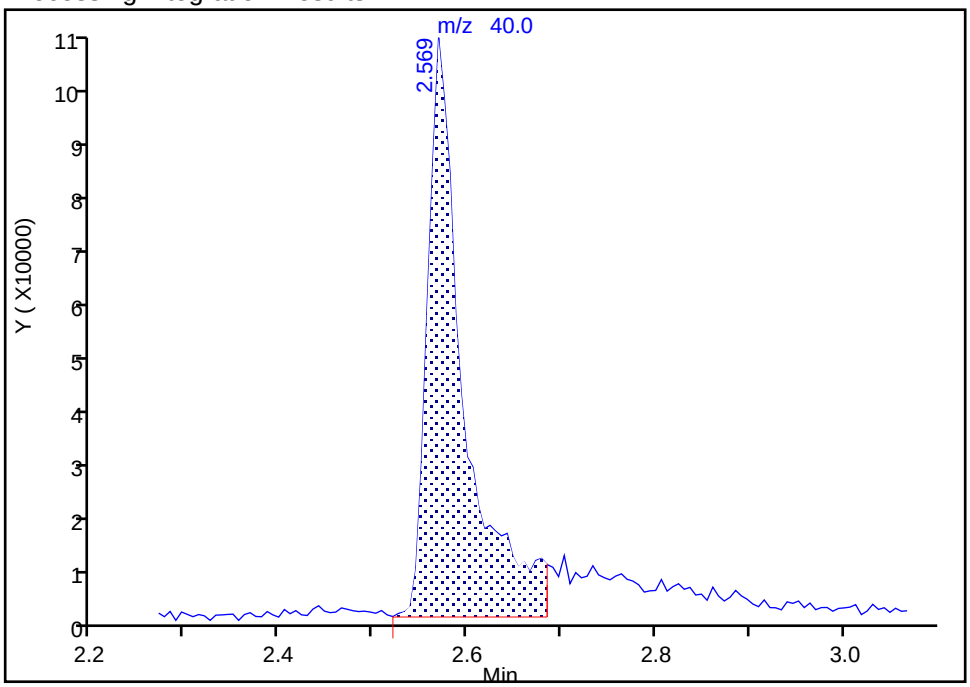
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0926.d
Injection Date: 24-Oct-2024 23:33:30 Instrument ID: HP5973N
Lims ID: ICV ADD
Client ID:
Operator ID: LH/AD ALS Bottle#: 35 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

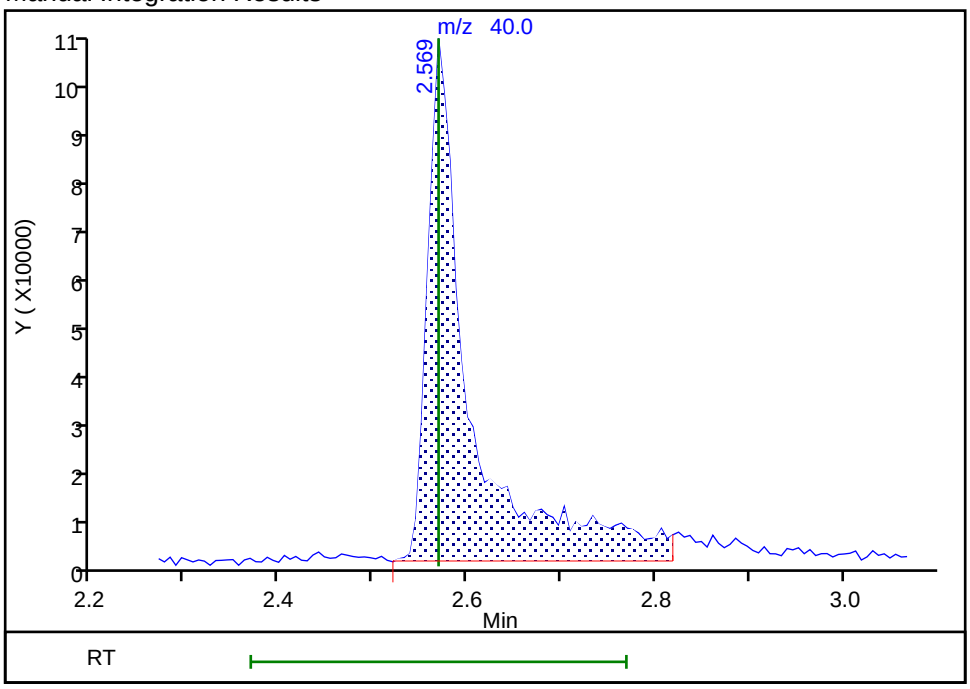
Processing Integration Results

RT: 2.57
Area: 271968
Amount: 195.3727
Amount Units: ug/L



Manual Integration Results

RT: 2.57
Area: 324499
Amount: 233.1092
Amount Units: ug/L



Reviewer: WLL8, 25-Oct-2024 10:36:33 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730495/4 Calibration Date: 10/31/2024 01:32

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N1237.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	1.232	1.287	0.1000	26.1	25.0	4.5	50.0
Chloromethane	Ave	2.532	2.443	0.1000	24.1	25.0	-3.5	20.0
Vinyl chloride	Ave	1.336	1.177	0.1000	22.0	25.0	-11.9	20.0
Butadiene	Ave	2.138	2.571		30.1	25.0	20.3*	20.0
Bromomethane	Ave	0.7589	0.6802	0.1000	22.4	25.0	-10.4	50.0
Chloroethane	Ave	0.9367	0.7806	0.1000	20.8	25.0	-16.7	50.0
Trichlorofluoromethane	Ave	1.655	1.695	0.1000	25.6	25.0	2.4	20.0
Dichlorofluoromethane	Ave	2.138	1.943		22.7	25.0	-9.1	20.0
Ethyl ether	Ave	1.362	1.291		23.7	25.0	-5.2	20.0
Acrolein	Ave	0.2087	0.1606		96.2	125	-23.0	50.0
1,1-Dichloroethene	Ave	0.8512	0.8558	0.1000	25.1	25.0	0.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.8751	0.8663	0.1000	24.7	25.0	-1.0	20.0
Acetone	Ave	0.9069	0.8734	0.1000	120	125	-3.7	50.0
Iodomethane	Ave	1.612	1.512		23.4	25.0	-6.2	20.0
Carbon disulfide	Ave	3.087	2.912	0.1000	23.6	25.0	-5.7	20.0
Allyl chloride	Ave	3.593	3.162		22.0	25.0	-12.0	20.0
Methyl acetate	Ave	2.427	2.151	0.1000	44.3	50.0	-11.4	50.0
Methylene Chloride	Lin1		1.066	0.1000	25.7	25.0	2.7	20.0
2-Methyl-2-propanol	Ave	0.2326	0.2199		236	250	-5.5	50.0
Methyl tert-butyl ether	Ave	3.702	3.656	0.1000	24.7	25.0	-1.3	20.0
trans-1,2-Dichloroethene	Ave	1.031	1.042	0.1000	25.3	25.0	1.1	20.0
Acrylonitrile	Ave	1.113	1.057		237	250	-5.1	20.0
Hexane	Ave	2.305	2.323		25.2	25.0	0.8	20.0
1,1-Dichloroethane	Ave	2.391	2.487	0.2000	26.0	25.0	4.0	20.0
Vinyl acetate	Ave	4.716	4.239		44.9	50.0	-10.1	20.0
2,2-Dichloropropane	Ave	1.435	1.456		25.4	25.0	1.5	20.0
cis-1,2-Dichloroethene	Ave	1.130	1.174	0.1000	26.0	25.0	3.8	20.0
2-Butanone (MEK)	Ave	1.481	1.451	0.1000	122	125	-2.0	20.0
Chlorobromomethane	Ave	0.5600	0.5429		24.2	25.0	-3.1	20.0
Tetrahydrofuran	Ave	1.083	0.9318		43.0	50.0	-14.0	20.0
Chloroform	Ave	1.933	1.882	0.2000	24.3	25.0	-2.6	20.0
1,1,1-Trichloroethane	Ave	1.589	1.746	0.1000	27.5	25.0	9.9	20.0
Cyclohexane	Ave	2.956	2.910	0.1000	24.6	25.0	-1.6	20.0
Carbon tetrachloride	Ave	1.484	1.542	0.1000	26.0	25.0	3.9	20.0
1,1-Dichloropropene	Ave	1.350	1.482		27.4	25.0	9.8	20.0
Benzene	Ave	4.040	3.987	0.5000	24.7	25.0	-1.3	20.0
Isobutyl alcohol	Ave	0.1317	0.1177		558	625	-10.7	50.0
1,2-Dichloroethane	Ave	2.077	2.235	0.1000	26.9	25.0	7.6	20.0
n-Heptane	Ave	2.974	2.990		25.1	25.0	0.5	20.0
Trichloroethene	Ave	1.042	1.107	0.2000	26.6	25.0	6.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730495/4 | Calibration Date: 10/31/2024 01:32

Instrument ID: HP5973N | Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) | Calib End Date: 10/24/2024 17:56

Lab File ID: N1237.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
Methylcyclohexane	Ave	1.698	1.739	0.1000	25.6	25.0	2.4	20.0
1,2-Dichloropropane	Ave	1.281	1.292	0.1000	25.2	25.0	0.9	20.0
Dibromomethane	Ave	0.7351	0.7291	0.1000	24.8	25.0	-0.8	20.0
1,4-Dioxane	Ave	0.0029	0.0028		493	500	-1.4	50.0
Bromodichloromethane	Ave	1.255	1.392	0.2000	27.7	25.0	10.9	20.0
2-Chloroethyl vinyl ether	Ave	0.8911	0.9424		26.4	25.0	5.8	20.0
cis-1,3-Dichloropropene	Ave	1.663	1.651	0.2000	24.8	25.0	-0.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2751	0.2549	0.1000	116	125	-7.3	20.0
Toluene	Ave	0.6825	0.7312	0.4000	26.8	25.0	7.1	20.0
trans-1,3-Dichloropropene	Ave	0.4252	0.4226	0.1000	24.9	25.0	-0.6	20.0
Ethyl methacrylate	Ave	0.4239	0.4123		24.3	25.0	-2.7	20.0
1,1,2-Trichloroethane	Ave	0.2125	0.2125	0.1000	25.0	25.0	0.0	20.0
Tetrachloroethene	Ave	0.2859	0.2864	0.2000	25.0	25.0	0.2	20.0
1,3-Dichloropropane	Ave	0.4378	0.4490		25.6	25.0	2.6	20.0
2-Hexanone	Ave	0.6159	0.5782	0.1000	117	125	-6.1	20.0
Dibromochloromethane	Ave	0.2800	0.2867	0.1000	25.6	25.0	2.4	20.0
1,2-Dibromoethane	Ave	0.2802	0.2604		23.2	25.0	-7.1	20.0
Chlorobenzene	Ave	0.7460	0.7884	0.5000	26.4	25.0	5.7	20.0
Ethylbenzene	Ave	1.300	1.355	0.1000	26.0	25.0	4.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2860	0.3005		26.3	25.0	5.1	20.0
m,p-Xylene	Ave	0.5125	0.4996	0.1000	24.4	25.0	-2.5	20.0
o-Xylene	Ave	0.5126	0.4883	0.3000	23.8	25.0	-4.8	20.0
Styrene	Ave	0.8348	0.7827	0.3000	23.4	25.0	-6.2	20.0
Bromoform	Ave	0.1828	0.1892	0.1000	25.9	25.0	3.5	50.0
Isopropylbenzene	Ave	2.477	2.300	0.1000	23.2	25.0	-7.1	20.0
Bromobenzene	Ave	0.6396	0.6156		24.1	25.0	-3.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7939	0.7211	0.3000	22.7	25.0	-9.2	20.0
N-Propylbenzene	Ave	2.943	2.977		25.3	25.0	1.2	20.0
1,2,3-Trichloropropane	Ave	0.2684	0.2263		21.1	25.0	-15.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4251	0.0760		4.47	25.0	-82.1*	50.0
2-Chlorotoluene	Ave	0.6157	0.5640		22.9	25.0	-8.4	20.0
1,3,5-Trimethylbenzene	Ave	2.178	2.049		23.5	25.0	-5.9	20.0
4-Chlorotoluene	Ave	2.111	2.115		25.0	25.0	0.2	20.0
tert-Butylbenzene	Ave	0.4644	0.4758		25.6	25.0	2.5	20.0
1,2,4-Trimethylbenzene	Ave	2.315	2.178		23.5	25.0	-5.9	20.0
sec-Butylbenzene	Ave	2.753	2.672		24.3	25.0	-3.0	20.0
1,3-Dichlorobenzene	Ave	1.181	1.135	0.6000	24.0	25.0	-3.9	20.0
4-Isopropyltoluene	Ave	2.464	2.333		23.7	25.0	-5.3	20.0
1,4-Dichlorobenzene	Ave	1.216	1.108	0.5000	22.8	25.0	-8.9	20.0
n-Butylbenzene	Ave	2.116	2.105		24.9	25.0	-0.5	20.0
1,2-Dichlorobenzene	Ave	1.197	1.091	0.4000	22.8	25.0	-8.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730495/4 Calibration Date: 10/31/2024 01:32

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N1237.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
1,2-Dibromo-3-Chloropropane	Ave	0.1748	0.1710	0.0500	24.5	25.0	-2.2	50.0
1,2,4-Trichlorobenzene	Ave	0.8600	0.8134	0.2000	23.6	25.0	-5.4	20.0
Hexachlorobutadiene	Ave	0.4291	0.4267		24.9	25.0	-0.6	20.0
Naphthalene	Ave	2.665	2.333		21.9	25.0	-12.5	20.0
1,2,3-Trichlorobenzene	Ave	0.8366	0.7832		23.4	25.0	-6.4	20.0
Dibromofluoromethane (Surr)	Ave	1.136	1.135		25.0	25.0	-0.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.690	1.701		25.2	25.0	0.7	20.0
Toluene-d8 (Surr)	Ave	1.144	1.168		25.5	25.0	2.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3609	0.3816		26.4	25.0	5.7	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1237.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 31-Oct-2024 01:32:30 ALS Bottle#: 37 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0120932-004
Operator ID: AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 09:47:23 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 09:47:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	140709	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	92	498038	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	259011	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	159735	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	66	239399	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	581504	25.0	25.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	190061	25.0	26.4	
11 Dichlorodifluoromethane	85	1.048	1.048	0.000	98	181096	25.0	26.1	
13 Chloromethane	50	1.188	1.188	0.000	99	343794	25.0	24.1	
14 Vinyl chloride	62	1.261	1.261	0.000	49	165607	25.0	22.0	
144 Butadiene	54	1.267	1.267	0.000	96	361758	25.0	30.1	
15 Bromomethane	94	1.511	1.511	0.000	93	95711	25.0	22.4	
16 Chloroethane	64	1.565	1.565	0.000	93	109831	25.0	20.8	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	70	238497	25.0	25.6	
17 Dichlorofluoromethane	67	1.748	1.748	0.000	94	273430	25.0	22.7	
19 Ethyl ether	59	1.985	1.985	0.000	92	181696	25.0	23.7	
20 Acrolein	56	2.143	2.143	0.000	97	113023	125.0	96.2	
22 1,1-Dichloroethene	96	2.174	2.174	0.000	89	120422	25.0	25.1	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	57	121892	25.0	24.7	
23 Acetone	43	2.289	2.289	0.000	97	614480	125.0	120.4	
24 Iodomethane	142	2.320	2.320	0.000	99	212694	25.0	23.4	
25 Carbon disulfide	76	2.350	2.350	0.000	98	409802	25.0	23.6	
27 3-Chloro-1-propene	41	2.520	2.520	0.000	87	444991	25.0	22.0	
28 Methyl acetate	43	2.563	2.563	0.000	99	605424	50.0	44.3	
30 Methylene Chloride	84	2.654	2.654	0.000	87	149956	25.0	25.7	
31 2-Methyl-2-propanol	59	2.837	2.837	0.000	96	309385	250.0	236.3	
32 Methyl tert-butyl ether	73	2.849	2.849	0.000	92	514367	25.0	24.7	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	88	146623	25.0	25.3	
34 Acrylonitrile	53	2.922	2.922	0.000	98	1486757	250.0	237.3	
35 Hexane	57	3.056	3.056	0.000	95	326906	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
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	349977	25.0	26.0	
39 Vinyl acetate	43	3.323	3.323	0.000	96	1193010	50.0	44.9	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	85	204938	25.0	25.4	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	87	165160	25.0	26.0	
44 2-Butanone (MEK)	43	3.841	3.841	0.000	95	1021175	125.0	122.5	
47 Chlorobromomethane	128	4.023	4.023	0.000	82	76387	25.0	24.2	
49 Tetrahydrofuran	42	4.041	4.041	0.000	88	262220	50.0	43.0	
50 Chloroform	83	4.108	4.108	0.000	94	264818	25.0	24.3	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	95	245729	25.0	27.5	
52 Cyclohexane	56	4.212	4.212	0.000	94	409449	25.0	24.6	
53 Carbon tetrachloride	117	4.339	4.339	0.000	95	217032	25.0	26.0	
55 Benzene	78	4.552	4.552	0.000	87	561042	25.0	24.7	a
54 1,1-Dichloropropene	75	4.358	4.358	0.000	85	208499	25.0	27.4	
56 Isobutyl alcohol	43	4.607	4.607	0.000	96	414048	625.0	558.4	
57 1,2-Dichloroethane	62	4.619	4.619	0.000	95	314526	25.0	26.9	
59 n-Heptane	43	4.747	4.747	0.000	95	420656	25.0	25.1	
60 Trichloroethene	95	5.155	5.155	0.000	94	155713	25.0	26.6	
62 Methylcyclohexane	83	5.270	5.270	0.000	92	244651	25.0	25.6	
63 1,2-Dichloropropane	63	5.386	5.386	0.000	86	181846	25.0	25.2	
64 Dibromomethane	93	5.520	5.520	0.000	96	102590	25.0	24.8	
66 1,4-Dioxane	88	5.544	5.544	0.000	84	28232	500.0	492.9	
67 Dichlorobromomethane	83	5.684	5.684	0.000	95	195845	25.0	27.7	
69 2-Chloroethyl vinyl ether	63	5.970	5.970	0.000	84	132611	25.0	26.4	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	82	232320	25.0	24.8	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	634841	125.0	115.8	
73 Toluene	92	6.371	6.371	0.000	96	364184	25.0	26.8	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	90	210490	25.0	24.9	
77 Ethyl methacrylate	69	6.724	6.724	0.000	85	205363	25.0	24.3	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	93	105841	25.0	25.0	
79 Tetrachloroethene	166	6.895	6.895	0.000	94	142623	25.0	25.0	
80 1,3-Dichloropropane	76	7.004	7.004	0.000	87	223623	25.0	25.6	
82 2-Hexanone	43	7.083	7.083	0.000	97	1439758	125.0	117.3	
83 Chlorodibromomethane	129	7.229	7.229	0.000	88	142764	25.0	25.6	
84 Ethylene Dibromide	107	7.326	7.326	0.000	98	129665	25.0	23.2	
85 Chlorobenzene	112	7.801	7.801	0.000	91	392650	25.0	26.4	
88 Ethylbenzene	91	7.898	7.898	0.000	98	674679	25.0	26.0	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	46	149646	25.0	26.3	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	97	248836	25.0	24.4	
91 o-Xylene	106	8.440	8.440	0.000	98	243170	25.0	23.8	
92 Styrene	104	8.476	8.476	0.000	91	389827	25.0	23.4	
93 Bromoform	173	8.714	8.714	0.000	95	94232	25.0	25.9	
95 Isopropylbenzene	105	8.829	8.829	0.000	97	595687	25.0	23.2	
97 Bromobenzene	156	9.176	9.176	0.000	92	159440	25.0	24.1	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	96	186785	25.0	22.7	
100 N-Propylbenzene	91	9.273	9.273	0.000	98	771198	25.0	25.3	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	88	58623	25.0	21.1	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	60	19686	25.0	4.47	
102 2-Chlorotoluene	126	9.371	9.371	0.000	94	146089	25.0	22.9	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	95	530668	25.0	23.5	
105 4-Chlorotoluene	91	9.492	9.492	0.000	99	547692	25.0	25.0	
106 tert-Butylbenzene	134	9.802	9.802	0.000	95	123235	25.0	25.6	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	564137	25.0	23.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.021	10.021	0.000	96	692076	25.0	24.3	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	96	294056	25.0	24.0	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	98	604213	25.0	23.7	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	91	286906	25.0	22.8	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	545302	25.0	24.9	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	95	282683	25.0	22.8	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	73	44289	25.0	24.5	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	93	210686	25.0	23.6	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	97	110511	25.0	24.9	
121 Naphthalene	128	12.248	12.248	0.000	97	604261	25.0	21.9	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	94	202851	25.0	23.4	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
GAS CORP mix_00647	Amount Added:	12.50	Units: uL	
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

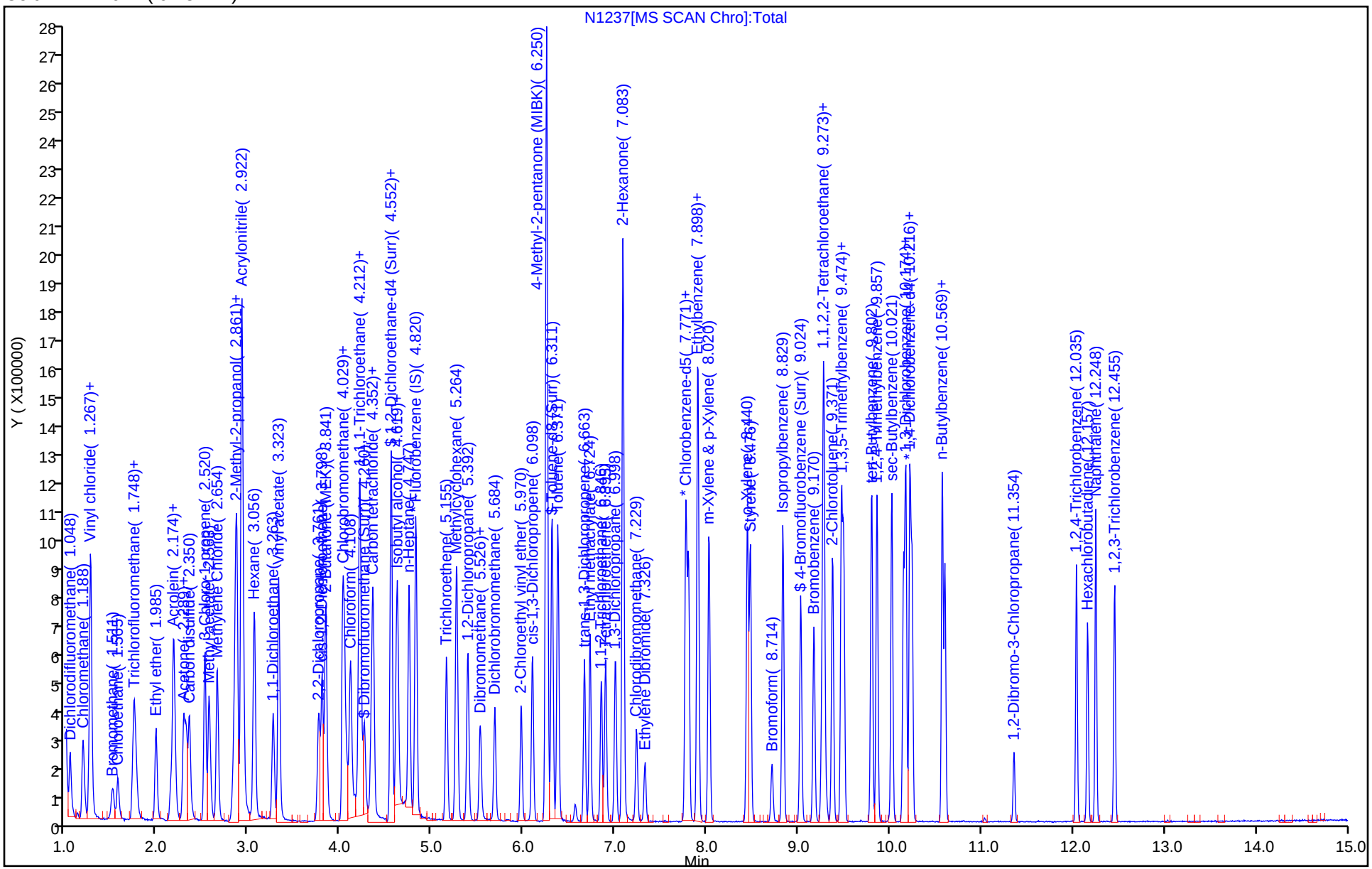
Report Date: 31-Oct-2024 09:47:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1237.d

Injection Date:	31-Oct-2024 01:32:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

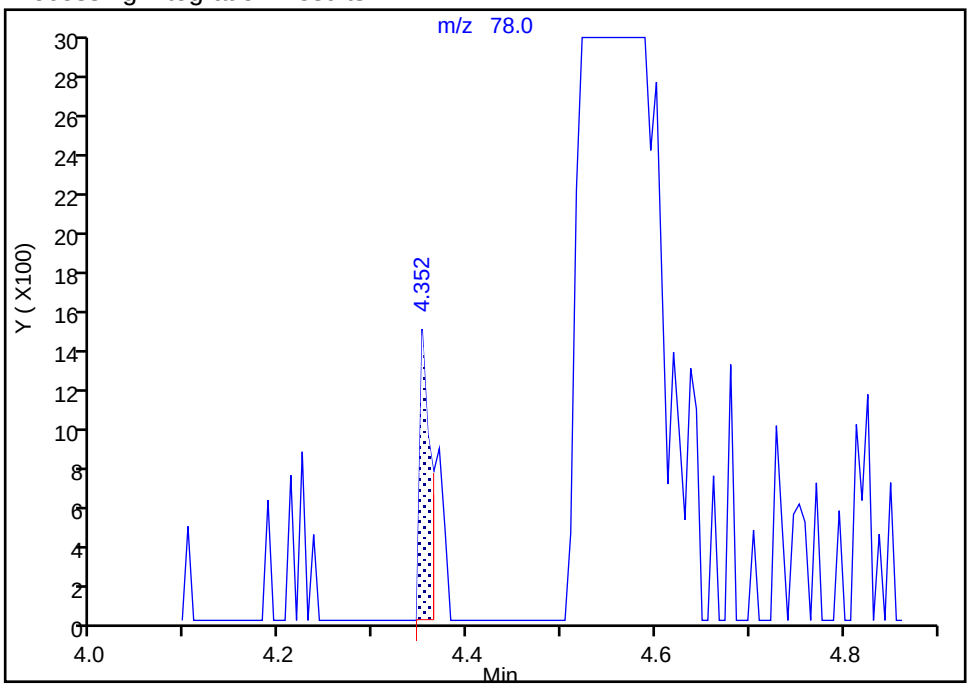
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1237.d
Injection Date: 31-Oct-2024 01:32:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AD ALS Bottle#: 37 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

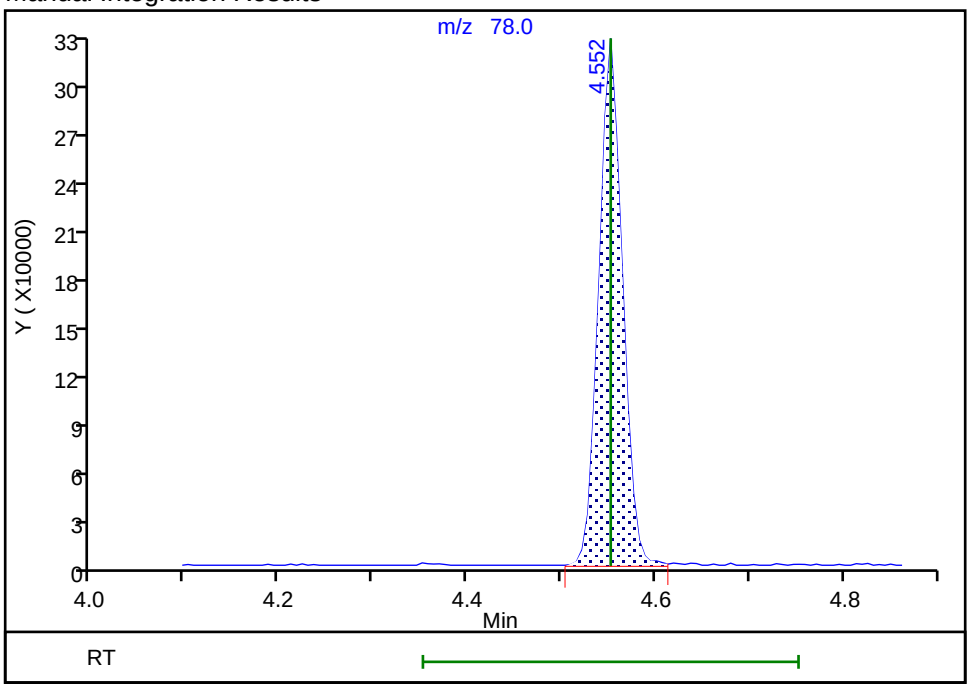
Processing Integration Results

RT: 4.35
Area: 1139
Amount: 0.050092
Amount Units: ug/L



Manual Integration Results

RT: 4.55
Area: 561042
Amount: 24.674055
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 09:46:57 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730696/4 Calibration Date: 10/31/2024 22:36

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N1291.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	1.232	1.134	0.1000	23.0	25.0	-8.0	50.0
Chloromethane	Ave	2.532	2.126	0.1000	21.0	25.0	-16.0	20.0
Vinyl chloride	Ave	1.336	1.135	0.1000	21.2	25.0	-15.0	20.0
Butadiene	Ave	2.138	2.341		27.4	25.0	9.5	20.0
Bromomethane	Ave	0.7589	0.5959	0.1000	19.6	25.0	-21.5	50.0
Chloroethane	Ave	0.9367	0.6969	0.1000	18.6	25.0	-25.6	50.0
Dichlorofluoromethane	Ave	2.138	1.820		21.3	25.0	-14.9	20.0
Trichlorofluoromethane	Ave	1.655	1.550	0.1000	23.4	25.0	-6.3	20.0
Ethyl ether	Ave	1.362	1.166		21.4	25.0	-14.4	20.0
Acrolein	Ave	0.2087	0.1660		99.4	125	-20.5	50.0
1,1-Dichloroethene	Ave	0.8512	0.7426	0.1000	21.8	25.0	-12.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.8751	0.7434	0.1000	21.2	25.0	-15.1	20.0
Acetone	Ave	0.9069	0.8598	0.1000	119	125	-5.2	50.0
Iodomethane	Ave	1.612	1.329		20.6	25.0	-17.6	20.0
Carbon disulfide	Ave	3.087	2.440	0.1000	19.8	25.0	-21.0*	20.0
Allyl chloride	Ave	3.593	2.814		19.6	25.0	-21.7*	20.0
Methyl acetate	Ave	2.427	2.041	0.1000	42.1	50.0	-15.9	50.0
Methylene Chloride	Lin1		0.995	0.1000	24.0	25.0	-4.2	20.0
2-Methyl-2-propanol	Ave	0.2326	0.2276		245	250	-2.1	50.0
Methyl tert-butyl ether	Ave	3.702	3.269	0.1000	22.1	25.0	-11.7	20.0
trans-1,2-Dichloroethene	Ave	1.031	0.9238	0.1000	22.4	25.0	-10.4	20.0
Acrylonitrile	Ave	1.113	0.9888		222	250	-11.2	20.0
Hexane	Ave	2.305	2.051		22.2	25.0	-11.0	20.0
1,1-Dichloroethane	Ave	2.391	2.133	0.2000	22.3	25.0	-10.8	20.0
Vinyl acetate	Ave	4.716	3.978		42.2	50.0	-15.7	20.0
2,2-Dichloropropane	Ave	1.435	1.261		22.0	25.0	-12.1	20.0
cis-1,2-Dichloroethene	Ave	1.130	1.004	0.1000	22.2	25.0	-11.2	20.0
2-Butanone (MEK)	Ave	1.481	1.449	0.1000	122	125	-2.2	20.0
Chlorobromomethane	Ave	0.5600	0.4879		21.8	25.0	-12.9	20.0
Tetrahydrofuran	Ave	1.083	0.9777		45.1	50.0	-9.7	20.0
Chloroform	Ave	1.933	1.721	0.2000	22.3	25.0	-11.0	20.0
1,1,1-Trichloroethane	Ave	1.589	1.540	0.1000	24.2	25.0	-3.1	20.0
Cyclohexane	Ave	2.956	2.631	0.1000	22.3	25.0	-11.0	20.0
Carbon tetrachloride	Ave	1.484	1.419	0.1000	23.9	25.0	-4.4	20.0
1,1-Dichloropropene	Ave	1.350	1.289		23.9	25.0	-4.5	20.0
Benzene	Ave	4.040	3.576	0.5000	22.1	25.0	-11.5	20.0
Isobutyl alcohol	Ave	0.1317	0.1254		595	625	-4.9	50.0
1,2-Dichloroethane	Ave	2.077	2.032	0.1000	24.5	25.0	-2.2	20.0
n-Heptane	Ave	2.974	2.722		22.9	25.0	-8.5	20.0
Trichloroethene	Ave	1.042	0.9656	0.2000	23.2	25.0	-7.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730696/4 Calibration Date: 10/31/2024 22:36

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N1291.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
Methylcyclohexane	Ave	1.698	1.557	0.1000	22.9	25.0	-8.3	20.0
1,2-Dichloropropane	Ave	1.281	1.164	0.1000	22.7	25.0	-9.1	20.0
Dibromomethane	Ave	0.7351	0.6388	0.1000	21.7	25.0	-13.1	20.0
1,4-Dioxane	Ave	0.0029	0.0030		527	500	5.4	50.0
Bromodichloromethane	Ave	1.255	1.238	0.2000	24.7	25.0	-1.3	20.0
2-Chloroethyl vinyl ether	Ave	0.8911	0.8832		24.8	25.0	-0.9	20.0
cis-1,3-Dichloropropene	Ave	1.663	1.556	0.2000	23.4	25.0	-6.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2751	0.2629	0.1000	119	125	-4.4	20.0
Toluene	Ave	0.6825	0.7128	0.4000	26.1	25.0	4.4	20.0
trans-1,3-Dichloropropene	Ave	0.4252	0.4264	0.1000	25.1	25.0	0.3	20.0
Ethyl methacrylate	Ave	0.4239	0.4227		24.9	25.0	-0.3	20.0
1,1,2-Trichloroethane	Ave	0.2125	0.2048	0.1000	24.1	25.0	-3.6	20.0
Tetrachloroethene	Ave	0.2859	0.2700	0.2000	23.6	25.0	-5.5	20.0
1,3-Dichloropropane	Ave	0.4378	0.4290		24.5	25.0	-2.0	20.0
2-Hexanone	Ave	0.6159	0.6283	0.1000	128	125	2.0	20.0
Dibromochloromethane	Ave	0.2800	0.2651	0.1000	23.7	25.0	-5.3	20.0
1,2-Dibromoethane	Ave	0.2802	0.2726		24.3	25.0	-2.7	20.0
Chlorobenzene	Ave	0.7460	0.7609	0.5000	25.5	25.0	2.0	20.0
Ethylbenzene	Ave	1.300	1.295	0.1000	24.9	25.0	-0.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2860	0.2780		24.3	25.0	-2.8	20.0
m,p-Xylene	Ave	0.5125	0.4905	0.1000	23.9	25.0	-4.3	20.0
o-Xylene	Ave	0.5126	0.4894	0.3000	23.9	25.0	-4.5	20.0
Styrene	Ave	0.8348	0.7650	0.3000	22.9	25.0	-8.4	20.0
Bromoform	Ave	0.1828	0.1898	0.1000	26.0	25.0	3.8	50.0
Isopropylbenzene	Ave	2.477	2.089	0.1000	21.1	25.0	-15.7	20.0
Bromobenzene	Ave	0.6396	0.5706		22.3	25.0	-10.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7939	0.6977	0.3000	22.0	25.0	-12.1	20.0
N-Propylbenzene	Ave	2.943	2.766		23.5	25.0	-6.0	20.0
1,2,3-Trichloropropane	Ave	0.2684	0.2167		20.2	25.0	-19.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4251	0.0974		5.73	25.0	-77.1*	50.0
2-Chlorotoluene	Ave	0.6157	0.5391		21.9	25.0	-12.4	20.0
1,3,5-Trimethylbenzene	Ave	2.178	1.951		22.4	25.0	-10.4	20.0
4-Chlorotoluene	Ave	2.111	2.003		23.7	25.0	-5.1	20.0
tert-Butylbenzene	Ave	0.4644	0.4312		23.2	25.0	-7.1	20.0
1,2,4-Trimethylbenzene	Ave	2.315	1.993		21.5	25.0	-13.9	20.0
sec-Butylbenzene	Ave	2.753	2.551		23.2	25.0	-7.4	20.0
1,3-Dichlorobenzene	Ave	1.181	1.045	0.6000	22.1	25.0	-11.5	20.0
4-Isopropyltoluene	Ave	2.464	2.183		22.1	25.0	-11.4	20.0
1,4-Dichlorobenzene	Ave	1.216	1.060	0.5000	21.8	25.0	-12.8	20.0
n-Butylbenzene	Ave	2.116	1.942		22.9	25.0	-8.2	20.0
1,2-Dichlorobenzene	Ave	1.197	1.015	0.4000	21.2	25.0	-15.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730696/4 Calibration Date: 10/31/2024 22:36

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N1291.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
1,2-Dibromo-3-Chloropropane	Ave	0.1748	0.1618	0.0500	23.1	25.0	-7.5	50.0
1,2,4-Trichlorobenzene	Ave	0.8600	0.7455	0.2000	21.7	25.0	-13.3	20.0
Hexachlorobutadiene	Ave	0.4291	0.3908		22.8	25.0	-8.9	20.0
Naphthalene	Ave	2.665	2.267		21.3	25.0	-15.0	20.0
1,2,3-Trichlorobenzene	Ave	0.8366	0.7149		21.4	25.0	-14.5	20.0
Dibromofluoromethane (Surr)	Ave	1.136	1.013		22.3	25.0	-10.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.690	1.600		23.7	25.0	-5.3	20.0
Toluene-d8 (Surr)	Ave	1.144	1.137		24.8	25.0	-0.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3609	0.4033		27.9	25.0	11.8	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1291.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 31-Oct-2024 22:36:30 ALS Bottle#: 32 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0120960-004
Operator ID: AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:00:40 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:00:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	96	148709	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	499220	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.222	10.222	0.000	95	270277	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.000	92	150694	25.0	22.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	67	237919	25.0	23.7	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	96	567365	25.0	24.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	86	201334	25.0	27.9	
11 Dichlorodifluoromethane	85	1.048	1.048	0.000	97	168569	25.0	23.0	
13 Chloromethane	50	1.188	1.188	0.000	99	316162	25.0	21.0	
14 Vinyl chloride	62	1.261	1.261	0.000	96	168815	25.0	21.2	
144 Butadiene	54	1.273	1.273	0.000	96	348148	25.0	27.4	
15 Bromomethane	94	1.511	1.511	0.000	92	88621	25.0	19.6	
16 Chloroethane	64	1.571	1.571	0.000	93	103628	25.0	18.6	
18 Trichlorofluoromethane	101	1.748	1.748	0.000	70	230525	25.0	23.4	
17 Dichlorofluoromethane	67	1.748	1.748	0.000	94	270626	25.0	21.3	
19 Ethyl ether	59	1.985	1.985	0.000	90	173456	25.0	21.4	
20 Acrolein	56	2.149	2.149	0.000	98	123416	125.0	99.4	
22 1,1-Dichloroethene	96	2.180	2.180	0.000	89	110434	25.0	21.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.186	2.186	0.000	58	110546	25.0	21.2	
23 Acetone	43	2.289	2.289	0.000	97	639332	125.0	118.5	
24 Iodomethane	142	2.320	2.320	0.000	100	197679	25.0	20.6	
25 Carbon disulfide	76	2.350	2.350	0.000	97	362813	25.0	19.8	
27 3-Chloro-1-propene	41	2.520	2.520	0.000	87	418401	25.0	19.6	
28 Methyl acetate	43	2.569	2.569	0.000	99	607123	50.0	42.1	
30 Methylene Chloride	84	2.654	2.654	0.000	87	148015	25.0	24.0	
31 2-Methyl-2-propanol	59	2.831	2.831	0.000	99	338478	250.0	244.6	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	94	486161	25.0	22.1	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	88	137375	25.0	22.4	
34 Acrylonitrile	53	2.922	2.922	0.000	97	1470464	250.0	222.1	
35 Hexane	57	3.056	3.056	0.000	95	304977	25.0	22.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.269	3.269	0.000	97	317211	25.0	22.3	
39 Vinyl acetate	43	3.323	3.323	0.000	96	1183168	50.0	42.2	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	83	187538	25.0	22.0	
43 cis-1,2-Dichloroethene	96	3.804	3.804	0.000	87	149311	25.0	22.2	
44 2-Butanone (MEK)	43	3.834	3.834	0.000	95	1077730	125.0	122.3	
47 Chlorobromomethane	128	4.029	4.029	0.000	83	72557	25.0	21.8	
49 Tetrahydrofuran	42	4.041	4.041	0.000	92	290774	50.0	45.1	
50 Chloroform	83	4.108	4.108	0.000	94	255916	25.0	22.3	
51 1,1,1-Trichloroethane	97	4.212	4.212	0.000	77	228968	25.0	24.2	
52 Cyclohexane	56	4.212	4.212	0.000	95	391224	25.0	22.3	
53 Carbon tetrachloride	117	4.339	4.339	0.000	95	211019	25.0	23.9	
55 Benzene	78	4.552	4.552	0.000	87	531801	25.0	22.1	a
54 1,1-Dichloropropene	75	4.358	4.358	0.000	81	191743	25.0	23.9	
56 Isobutyl alcohol	43	4.613	4.613	0.000	93	466027	625.0	594.7	
57 1,2-Dichloroethane	62	4.625	4.625	0.000	95	302132	25.0	24.5	
59 n-Heptane	43	4.747	4.747	0.000	94	404828	25.0	22.9	
60 Trichloroethene	95	5.155	5.155	0.000	91	143599	25.0	23.2	
62 Methylcyclohexane	83	5.270	5.270	0.000	92	231544	25.0	22.9	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	85	173129	25.0	22.7	
64 Dibromomethane	93	5.520	5.520	0.000	95	95001	25.0	21.7	
66 1,4-Dioxane	88	5.538	5.538	0.000	66	30249	500.0	526.8	
67 Dichlorobromomethane	83	5.684	5.684	0.000	94	184111	25.0	24.7	
69 2-Chloroethyl vinyl ether	63	5.970	5.970	0.000	82	131341	25.0	24.8	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	83	231418	25.0	23.4	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	656138	125.0	119.5	
73 Toluene	92	6.371	6.371	0.000	97	355848	25.0	26.1	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	92	212887	25.0	25.1	
77 Ethyl methacrylate	69	6.724	6.724	0.000	85	211022	25.0	24.9	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	92	102258	25.0	24.1	
79 Tetrachloroethene	166	6.895	6.895	0.000	90	134812	25.0	23.6	
80 1,3-Dichloropropane	76	6.998	6.998	0.000	85	214170	25.0	24.5	
82 2-Hexanone	43	7.083	7.083	0.000	97	1568211	125.0	127.5	
83 Chlorodibromomethane	129	7.235	7.235	0.000	88	132364	25.0	23.7	
84 Ethylene Dibromide	107	7.326	7.326	0.000	99	136067	25.0	24.3	
85 Chlorobenzene	112	7.801	7.801	0.000	90	379861	25.0	25.5	
88 Ethylbenzene	91	7.898	7.898	0.000	98	646353	25.0	24.9	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	91	138777	25.0	24.3	
90 m-Xylene & p-Xylene	106	8.026	8.026	0.000	97	244866	25.0	23.9	
91 o-Xylene	106	8.440	8.440	0.000	98	244299	25.0	23.9	
92 Styrene	104	8.476	8.476	0.000	90	381882	25.0	22.9	
93 Bromoform	173	8.714	8.714	0.000	94	94756	25.0	26.0	
95 Isopropylbenzene	105	8.829	8.829	0.000	97	564515	25.0	21.1	
97 Bromobenzene	156	9.170	9.170	0.000	91	154217	25.0	22.3	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	96	188573	25.0	22.0	
100 N-Propylbenzene	91	9.273	9.273	0.000	99	747506	25.0	23.5	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	91	58563	25.0	20.2	
101 trans-1,4-Dichloro-2-butene	53	9.310	9.310	0.000	58	26338	25.0	5.73	
102 2-Chlorotoluene	126	9.377	9.377	0.000	95	145717	25.0	21.9	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	95	527436	25.0	22.4	
105 4-Chlorotoluene	91	9.492	9.492	0.000	99	541341	25.0	23.7	
106 tert-Butylbenzene	134	9.802	9.802	0.000	94	116543	25.0	23.2	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	538534	25.0	21.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.021	10.021	0.000	95	689345	25.0	23.2	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	96	282521	25.0	22.1	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	97	589929	25.0	22.1	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	91	286415	25.0	21.8	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	524909	25.0	22.9	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	93	274355	25.0	21.2	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	73	43730	25.0	23.1	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	201502	25.0	21.7	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	97	105630	25.0	22.8	
121 Naphthalene	128	12.248	12.248	0.000	97	612597	25.0	21.3	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	96	193234	25.0	21.4	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
GAS CORP mix_00647	Amount Added:	12.50	Units: uL	
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

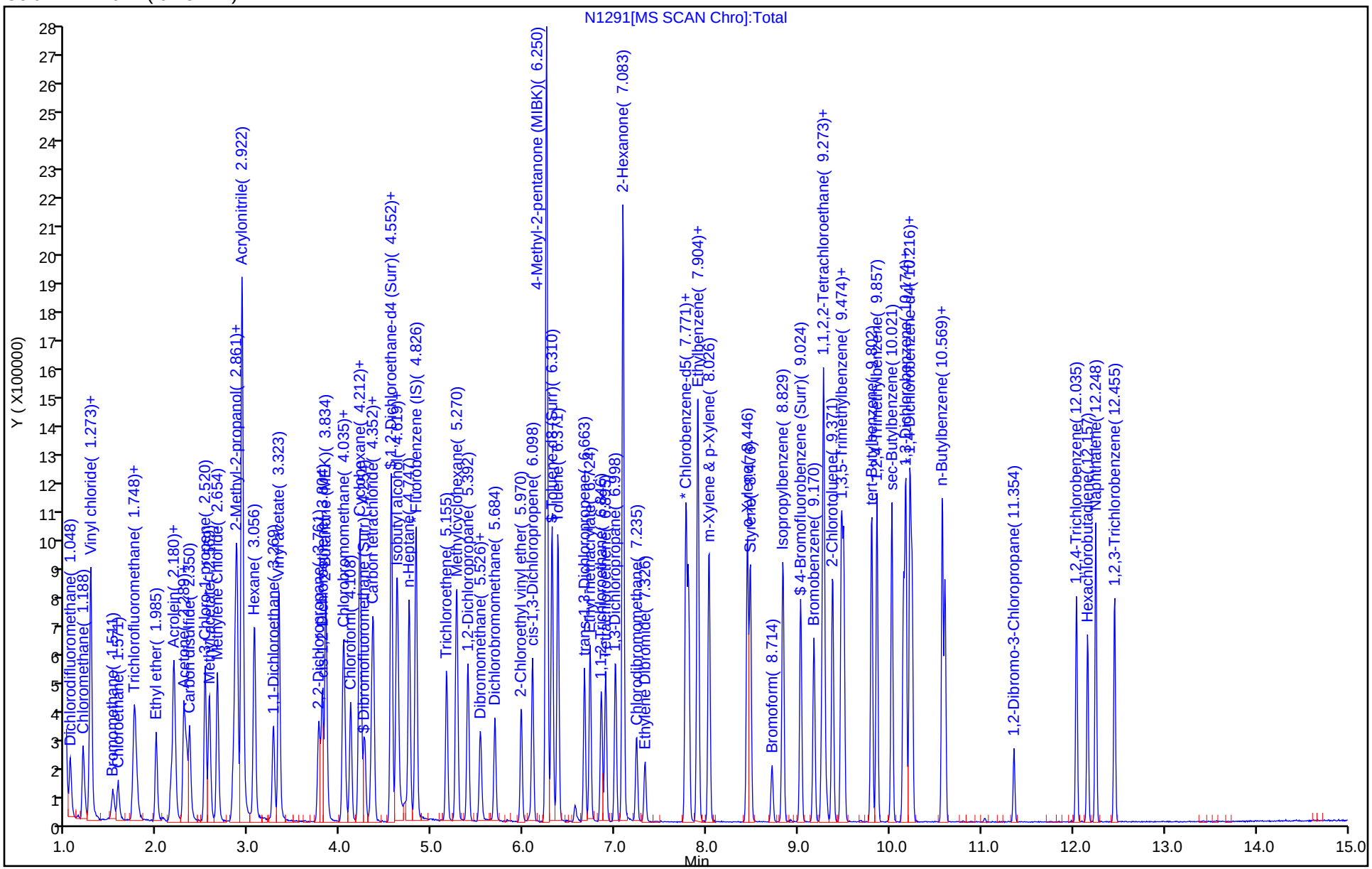
Report Date: 01-Nov-2024 10:00:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1291.d

Injection Date:	31-Oct-2024 22:36:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

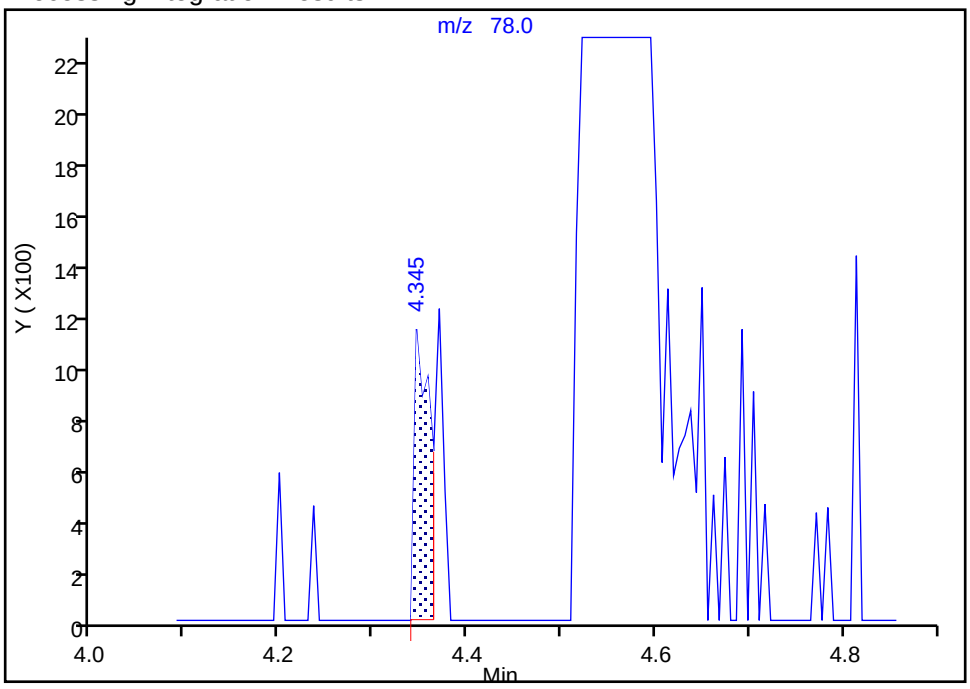
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1291.d
Injection Date: 31-Oct-2024 22:36:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AD ALS Bottle#: 32 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

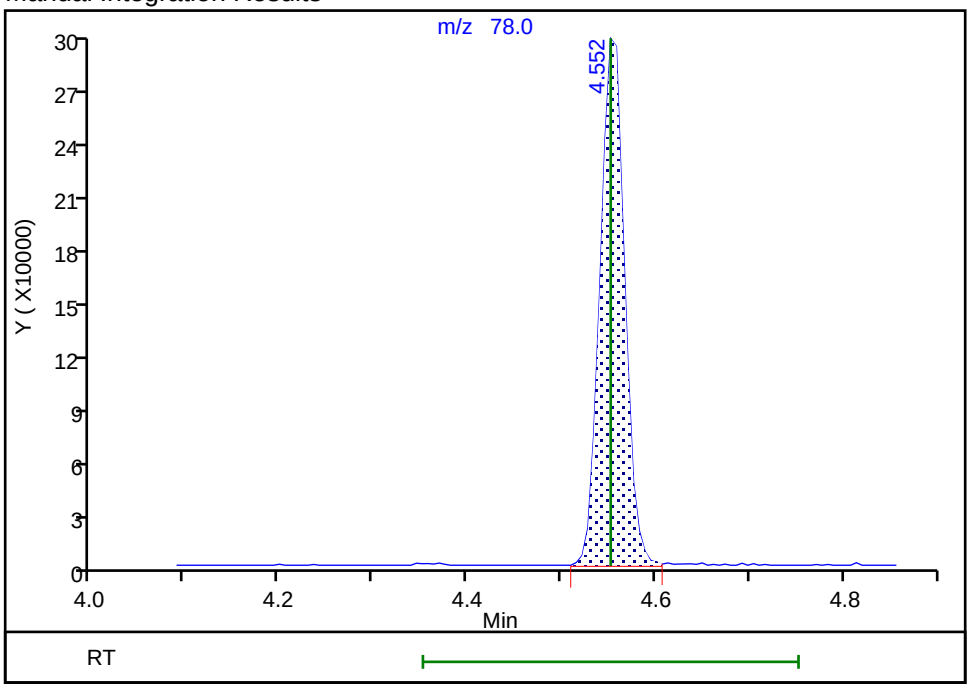
Processing Integration Results

RT: 4.35
Area: 1309
Amount: 0.054472
Amount Units: ug/L



Manual Integration Results

RT: 4.55
Area: 531801
Amount: 22.129873
Amount Units: ug/L



Reviewer: HF3K, 01-Nov-2024 10:00:11 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0901.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 24-Oct-2024 14:11:30 ALS Bottle#: 10 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0120783-011
Operator ID: LH/AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 13:11:25 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 25-Oct-2024 13:11:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.296	4.296	0.000	0	250067	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

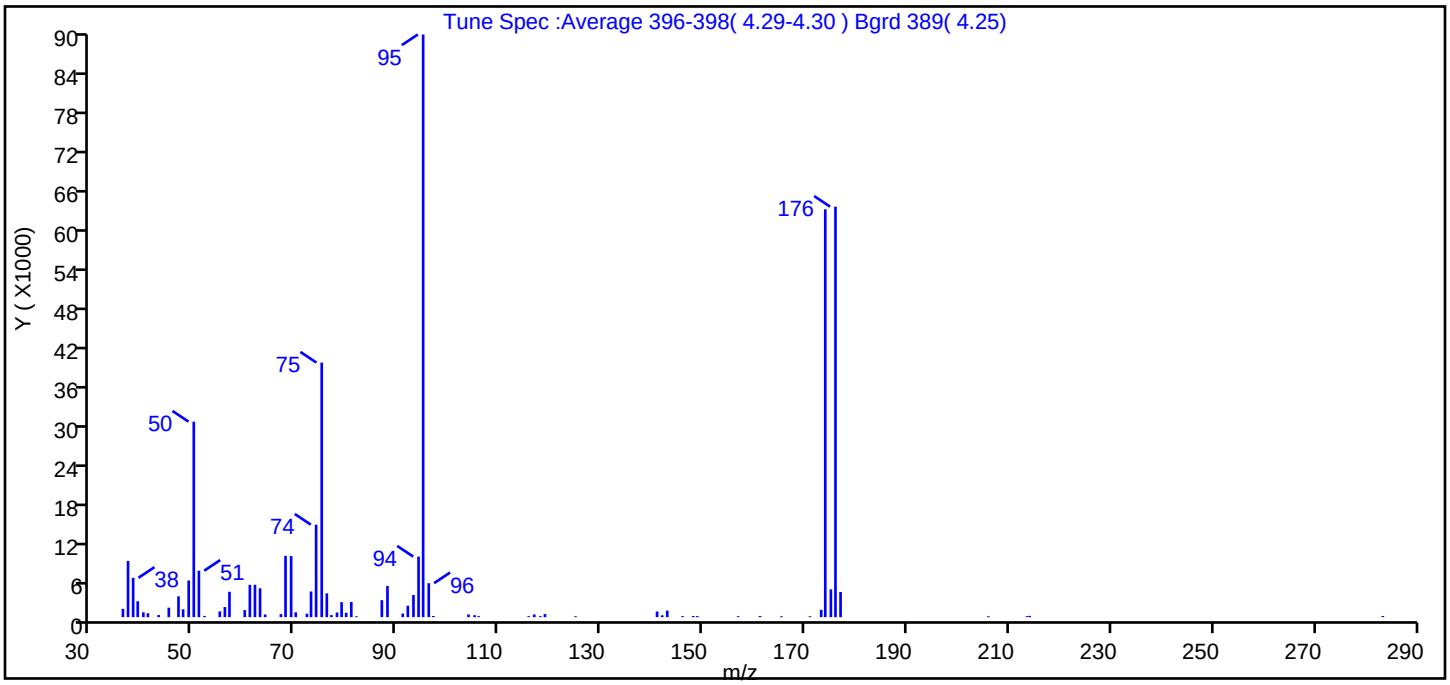
BFB_WRK_00167 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0901.d
Injection Date: 24-Oct-2024 14:11:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: LH/AD ALS Bottle#: 10 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	33.6
75	30 to 60% of m/z 95	43.7
96	5 to 9% of m/z 95	5.8
173	Less than 2% of m/z 174	1.3 (1.8)
174	50 to 120% of m/z 95	70.0
175	5 to 9% of m/z 174	4.8 (6.8)
176	Greater than 95% but less than 101% of m/z 174	70.4 (100.6)
177	5 to 9% of m/z 176	4.3 (6.1)

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0901.d\N-8260.rslt\spectra.d
Injection Date: 24-Oct-2024 14:11:30
Spectrum: Tune Spec :Average 396-398(4.29-4.30) Bgrd 389(4.25)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1269	62.00	4958	88.00	4773	146.00	155
37.00	8599	63.00	4413	91.00	550	148.00	182
38.00	6021	64.00	403	92.00	1755	149.00	159
39.00	2434	67.00	458	93.00	3394	157.00	142
40.00	740	68.00	9389	94.00	9268	161.00	177
41.00	597	69.00	9350	95.00	89208	165.00	137
43.00	320	70.00	741	96.00	5199	171.00	137
45.00	1450	72.00	532	97.00	178	173.00	1120
47.00	3187	73.00	3935	104.00	409	174.00	62440
48.00	1202	74.00	14164	105.00	298	175.00	4251
49.00	5607	75.00	38976	106.00	151	176.00	62840
50.00	29936	76.00	3639	116.00	143	177.00	3846
51.00	7108	77.00	309	117.00	409	206.00	139
52.00	187	78.00	714	118.00	147	214.00	147
55.00	875	79.00	2294	119.00	476	214.00	198
56.00	1547	80.00	662	125.00	141	283.00	176
57.00	3881	81.00	2320	141.00	859		
60.00	1075	82.00	134	142.00	283		
61.00	4948	87.00	2598	143.00	1006		

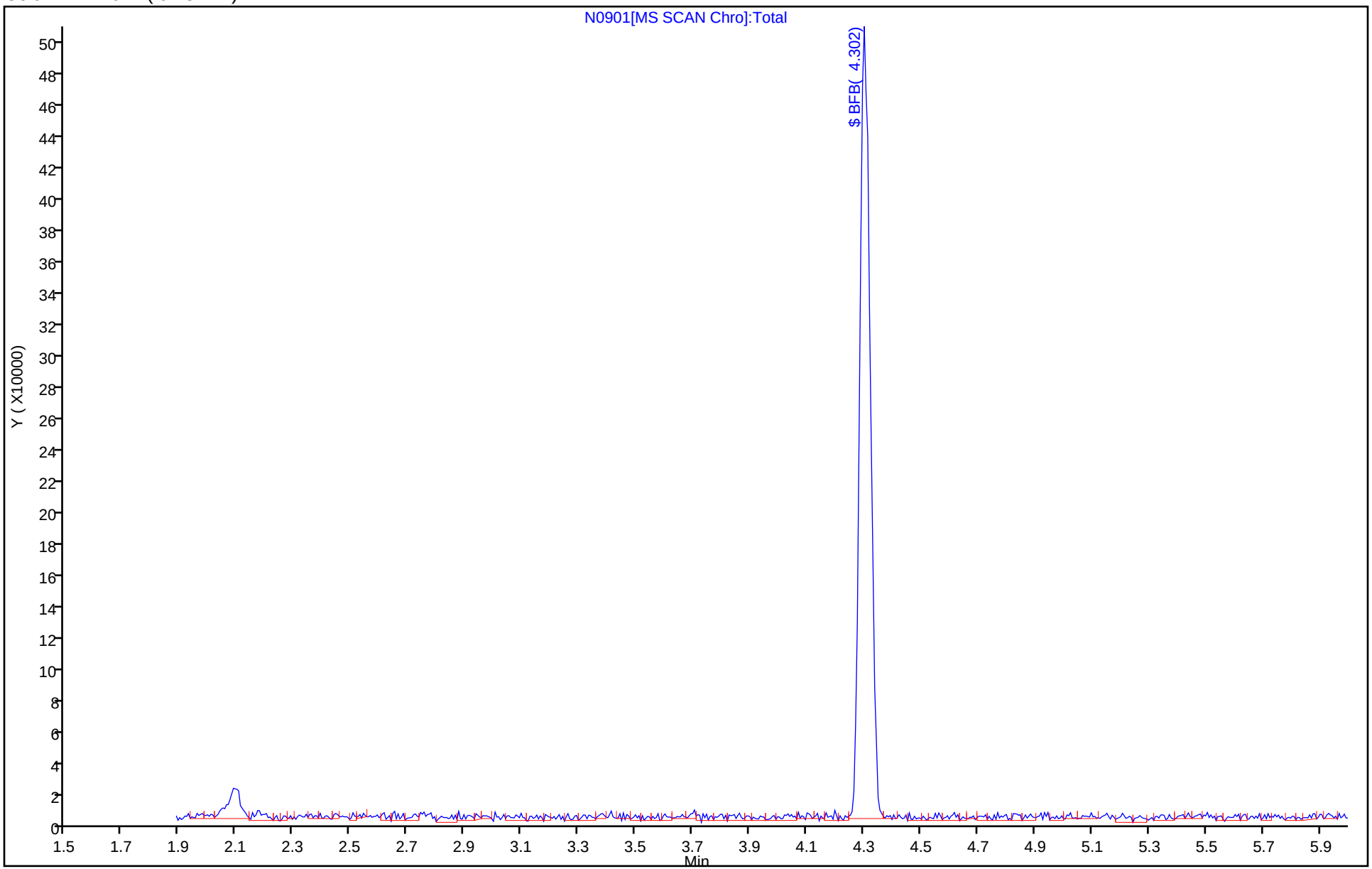
Report Date: 25-Oct-2024 13:11:26 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0901.d

Injection Date:	24-Oct-2024 14:11:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	BFB			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1236.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 31-Oct-2024 01:09:30 ALS Bottle#: 36 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0120932-003
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 09:46:46 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 09:46:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.412	4.412	0.000	84	842973	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

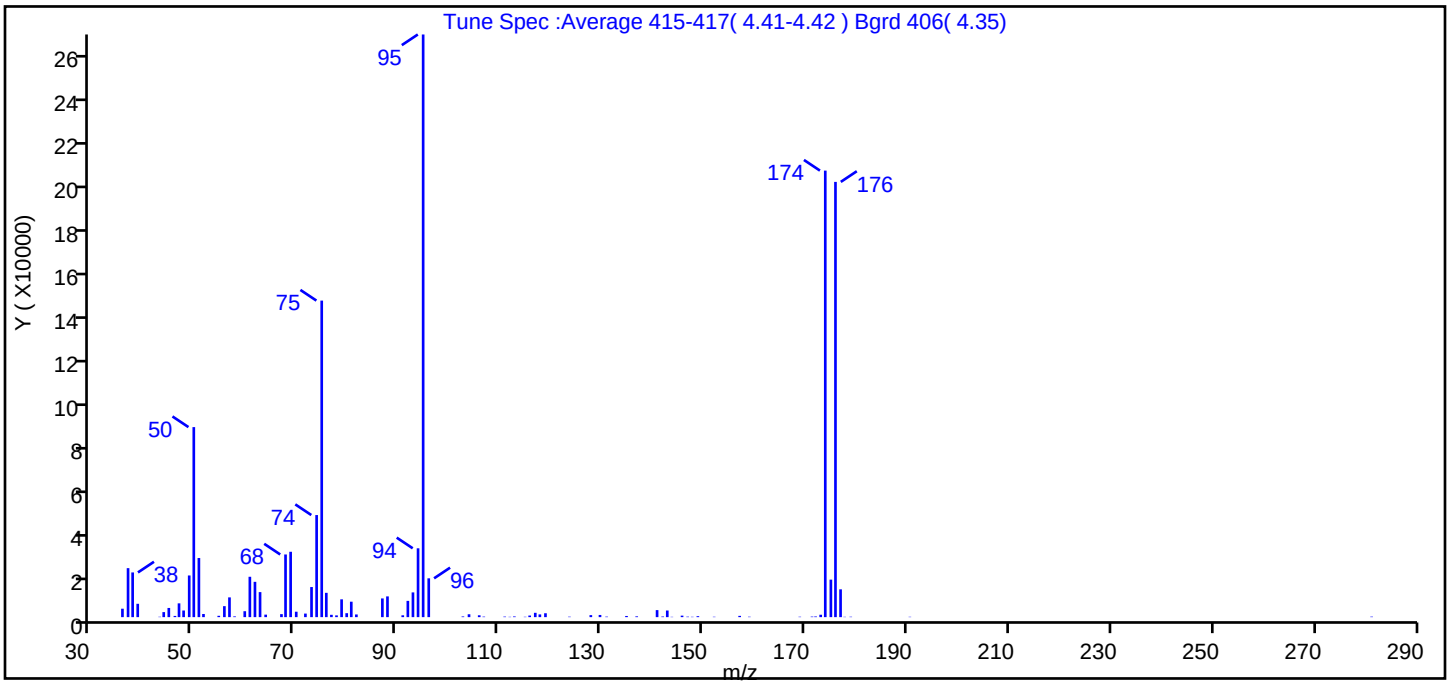
BFB_WRK_00167 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1236.d
Injection Date: 31-Oct-2024 01:09:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: AD ALS Bottle#: 36 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	32.6
75	30 to 60% of m/z 95	54.3
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	76.6
175	5 to 9% of m/z 174	6.4 (8.4)
176	Greater than 95% but less than 101% of m/z 174	74.7 (97.5)
177	5 to 9% of m/z 176	4.8 (6.4)

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1236.d\N-8260.rslt\spectra.d
Injection Date: 31-Oct-2024 01:09:30
Spectrum: Tune Spec :Average 415-417(4.41-4.42) Bgrd 406(4.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3779	64.00	1124	95.00	261056	143.00	2971
37.00	21952	67.00	1349	96.00	17392	144.00	141
38.00	20032	68.00	28080	103.00	307	146.00	674
39.00	5980	69.00	29288	104.00	1290	147.00	217
43.00	168	70.00	2434	106.00	832	148.00	157
44.00	2255	72.00	1598	107.00	230	149.00	430
45.00	4116	73.00	13484	111.00	242	152.00	171
46.00	546	74.00	45744	112.00	143	157.00	571
47.00	6178	75.00	141824	113.00	311	159.00	192
48.00	2974	76.00	10893	115.00	160	169.00	186
49.00	18672	77.00	1046	116.00	715	171.00	244
50.00	85144	78.00	790	117.00	1940	172.00	299
51.00	26488	79.00	7981	118.00	1225	173.00	1075
52.00	1411	80.00	1768	119.00	1745	174.00	200064
55.00	601	81.00	6921	124.00	205	175.00	16808
56.00	4921	82.00	1204	128.00	901	176.00	195008
57.00	8855	87.00	8382	130.00	978	177.00	12465
58.00	334	88.00	9295	131.00	226	178.00	145
60.00	2657	91.00	826	135.00	520	179.00	184
61.00	18088	92.00	7286	137.00	355	190.00	155
62.00	15823	93.00	11085	141.00	3151	281.00	222
63.00	11217	94.00	30848	142.00	279		

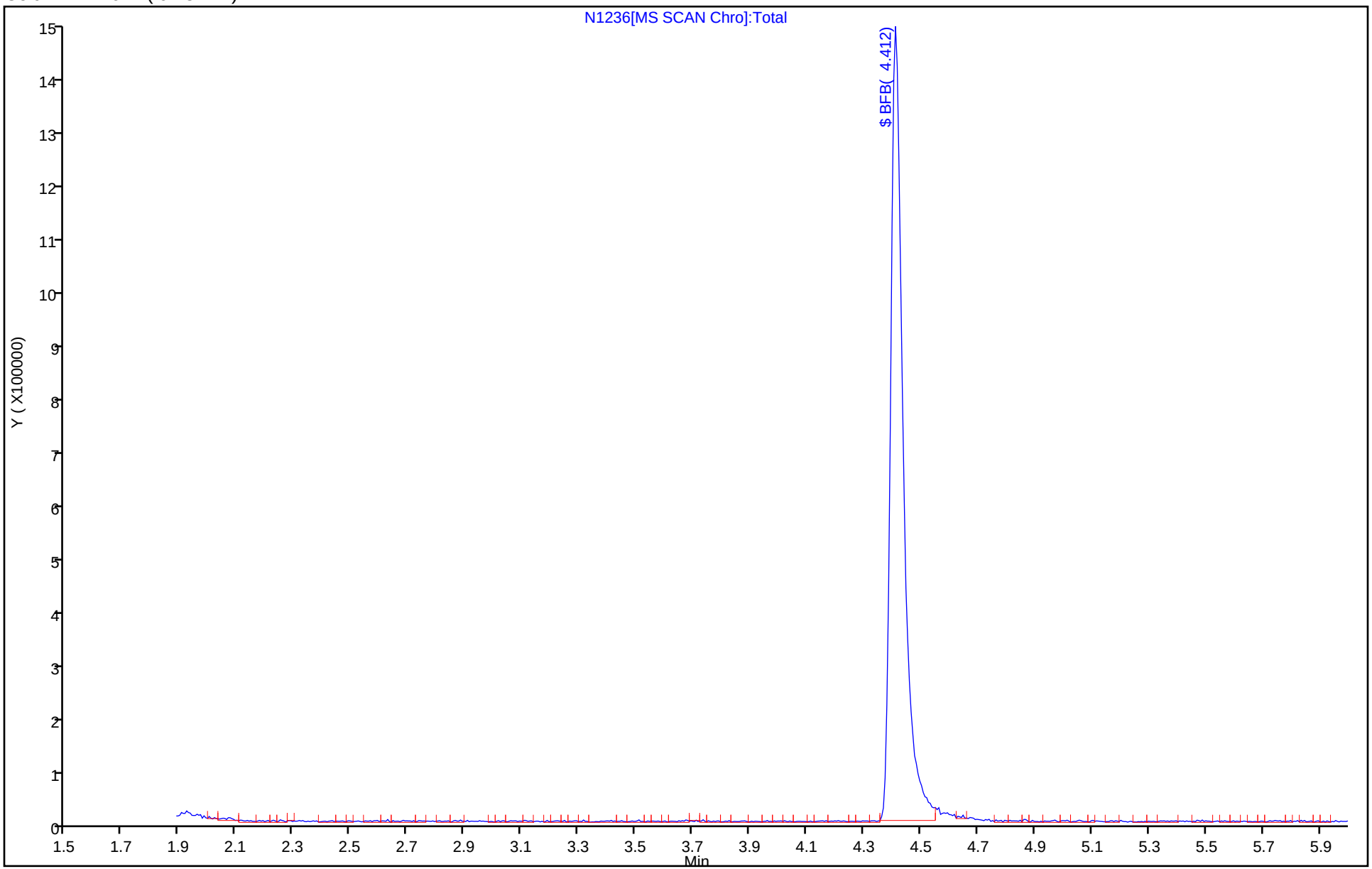
Report Date: 31-Oct-2024 09:46:46 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1236.d

Injection Date:	31-Oct-2024 01:09:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1290.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 31-Oct-2024 22:14:30 ALS Bottle#: 31 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0120960-003
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:00:00 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:00:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.418	4.418	0.000	81	897230	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

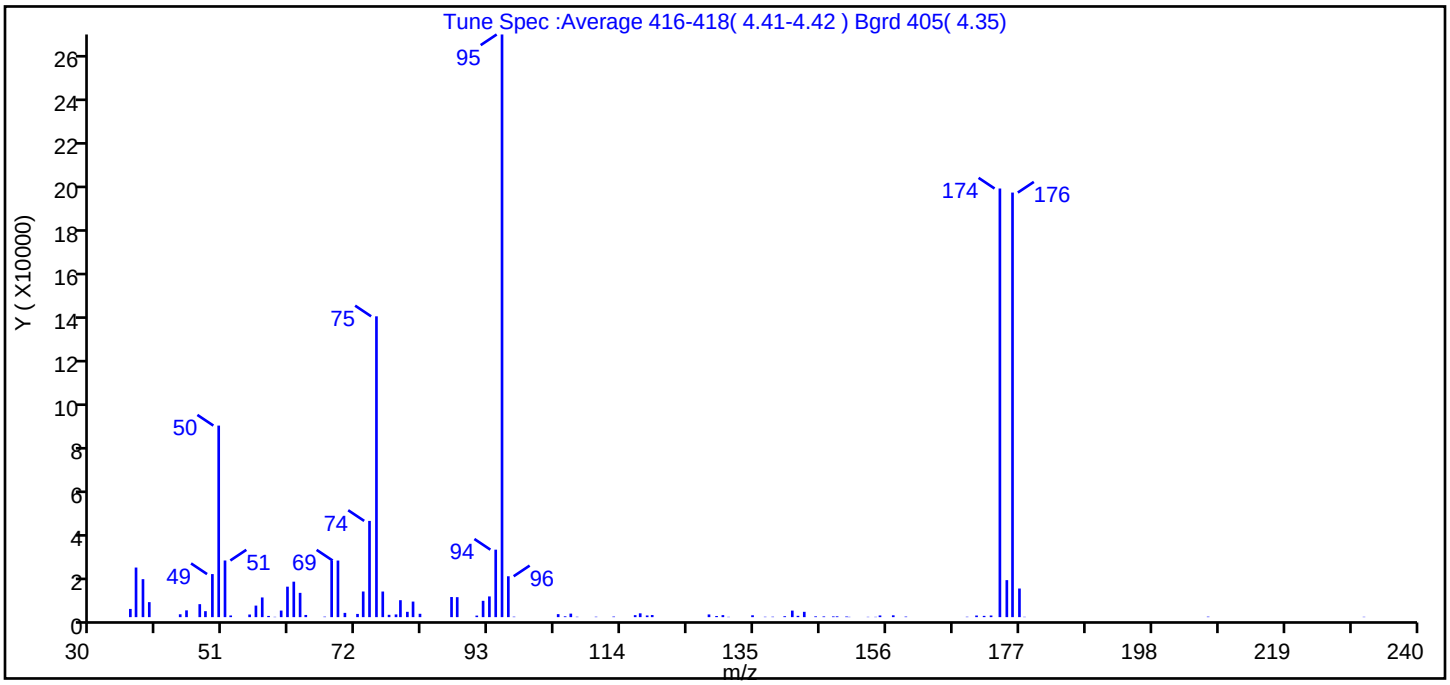
BFB_WRK_00167 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1290.d
Injection Date: 31-Oct-2024 22:14:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: AD ALS Bottle#: 31 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	32.9
75	30 to 60% of m/z 95	51.6
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	73.6
175	5 to 9% of m/z 174	6.4 (8.6)
176	Greater than 95% but less than 101% of m/z 174	72.9 (99.1)
177	5 to 9% of m/z 176	4.9 (6.7)

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1290.d\N-8260.rslt\spectra.d
Injection Date: 31-Oct-2024 22:14:30
Spectrum: Tune Spec :Average 416-418(4.41-4.42) Bgrd 405(4.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3769	68.00	25888	104.00	1378	148.00	330
37.00	22752	69.00	25960	105.00	382	148.00	371
38.00	17424	70.00	1958	106.00	1616	150.00	292
39.00	6882	72.00	1479	107.00	176	150.00	138
44.00	1310	73.00	11764	110.00	194	153.00	142
45.00	3106	74.00	44144	113.00	263	154.00	141
47.00	5957	75.00	137984	116.00	908	155.00	776
48.00	2736	76.00	11751	117.00	1754	157.00	842
49.00	19752	77.00	1072	118.00	769	159.00	257
50.00	87864	78.00	1245	119.00	969	169.00	182
51.00	25984	79.00	7775	128.00	1237	170.00	742
52.00	764	80.00	2443	129.00	529	171.00	588
55.00	1202	81.00	7142	130.00	927	172.00	752
56.00	5296	82.00	1538	131.00	139	174.00	196608
57.00	9036	87.00	9229	135.00	856	175.00	16976
58.00	554	88.00	9161	137.00	178	176.00	194752
59.00	142	91.00	711	138.00	200	177.00	13131
60.00	3018	92.00	7494	140.00	424	178.00	146
61.00	13979	93.00	9506	141.00	3006	207.00	221
62.00	16270	94.00	30952	142.00	601	232.00	150
63.00	11138	95.00	267264	143.00	2441		
64.00	1002	96.00	18752	145.00	364		
67.00	224	97.00	210	146.00	328		

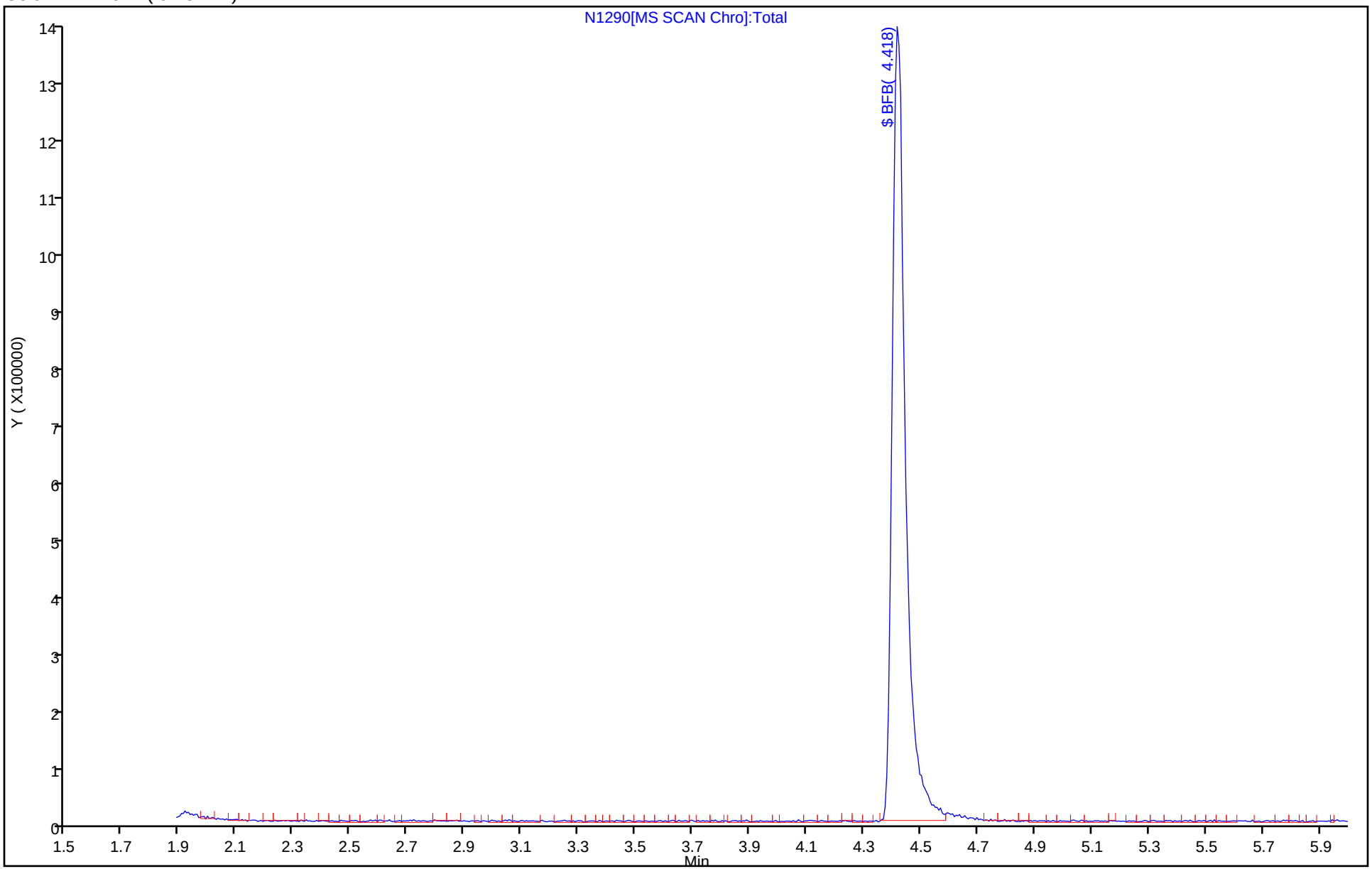
Report Date: 01-Nov-2024 10:00:00 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1290.d

Injection Date:	31-Oct-2024 22:14:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730495/8

Matrix: Water | Lab File ID: N1241.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 03:02

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730495/8

Matrix: Water | Lab File ID: N1241.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 03:02

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	90		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1241.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 31-Oct-2024 03:02:30 ALS Bottle#: 41 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120932-008
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 10:07:35 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 10:07:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	146365	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	92	476444	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	255580	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	149915	25.0	22.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	237708	25.0	24.0	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	97	554371	25.0	25.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	187531	25.0	27.3	
11 Dichlorodifluoromethane	85		1.048					ND	
12 Chlorodifluoromethane	51		1.060					ND	
13 Chloromethane	50		1.188					ND	
14 Vinyl chloride	62		1.261					ND	
144 Butadiene	54		1.267					ND	
15 Bromomethane	94		1.511					ND	
16 Chloroethane	64		1.565					ND	
18 Trichlorofluoromethane	101		1.742					ND	
17 Dichlorofluoromethane	67		1.748					ND	
19 Ethyl ether	59		1.985					ND	
141 Ethanol	45		1.991					ND	
81 Propene oxide	58		2.058					ND	
20 Acrolein	56		2.143					ND	
22 1,1-Dichloroethene	96		2.174					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180					ND	
23 Acetone	43		2.289					ND	
24 Iodomethane	142		2.320					ND	
25 Carbon disulfide	76		2.350					ND	
26 Isopropyl alcohol	45		2.472					ND	
27 3-Chloro-1-propene	41		2.520					ND	
28 Methyl acetate	43		2.563					ND	
29 Acetonitrile	40		2.569					ND	
30 Methylene Chloride	84	2.654	2.654	0.000	83	2335		0.2362	Ma
31 2-Methyl-2-propanol	59		2.837					ND	

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		2.849					ND	
33 trans-1,2-Dichloroethene	96		2.867					ND	
34 Acrylonitrile	53		2.922					ND	
35 Hexane	57		3.056					ND	
36 1,1-Dichloroethane	63		3.263					ND	
37 Isopropyl ether	45		3.287					ND	
38 2-Chloro-1,3-butadiene	53		3.317					ND	
39 Vinyl acetate	43		3.323					ND	
40 1,1-Dimethoxyethane	75		3.354					ND	
41 Tert-butyl ethyl ether	59		3.609					ND	
42 2,2-Dichloropropane	77		3.761					ND	
43 cis-1,2-Dichloroethene	96		3.798					ND	
44 2-Butanone (MEK)	43		3.841					ND	
45 Ethyl acetate	43		3.877					ND	
46 Propionitrile	54		3.932					ND	
47 Chlorobromomethane	128		4.023					ND	
48 Methacrylonitrile	67		4.041					ND	
49 Tetrahydrofuran	42		4.041					ND	
50 Chloroform	83	4.096	4.096	-0.012	1	1592		0.1407	a
51 1,1,1-Trichloroethane	97		4.206					ND	
52 Cyclohexane	56		4.212					ND	
53 Carbon tetrachloride	117		4.339					ND	
54 1,1-Dichloropropene	75		4.358					ND	
55 Benzene	78		4.552					ND	
146 Isooctane	57		4.558					ND	
56 Isobutyl alcohol	43		4.607					ND	
57 1,2-Dichloroethane	62		4.619					ND	
58 Tert-amyl methyl ether	73		4.644					ND	
140 t-Amyl alcohol	59		4.662					ND	
59 n-Heptane	43		4.747					ND	
1 1,4-Difluorobenzene	114		4.936					ND	
60 Trichloroethene	95		5.155					ND	
61 n-Butanol	56		5.222					ND	
62 Methylcyclohexane	83		5.270					ND	
145 Ethyl acrylate	55		5.301					ND	
63 1,2-Dichloropropane	63		5.386					ND	
65 Methyl methacrylate	41		5.507					ND	
64 Dibromomethane	93		5.520					ND	
66 1,4-Dioxane	88		5.544					ND	
67 Dichlorobromomethane	83		5.684					ND	
68 2-Nitropropane	43		5.933					ND	
69 2-Chloroethyl vinyl ether	63		5.970					ND	
70 Epichlorohydrin	57		6.055					ND	
71 cis-1,3-Dichloropropene	75		6.098					ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250					ND	
73 Toluene	92		6.371					ND	
74 2-Methylthiophene	97		6.505					ND	
75 trans-1,3-Dichloropropene	75		6.663					ND	
76 3-Methylthiophene	97		6.669					ND	
77 Ethyl methacrylate	69		6.724					ND	
78 1,1,2-Trichloroethane	83		6.846					ND	
79 Tetrachloroethene	166		6.895					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 1,3-Dichloropropane	76		7.004					ND	
82 2-Hexanone	43		7.083					ND	
149 n-Butyl acetate	43		7.205					ND	
83 Chlorodibromomethane	129		7.229					ND	
84 Ethylene Dibromide	107		7.326					ND	
139 1-Chlorohexane	55		7.771					ND	U
86 3-Chlorobenzotrifluoride	180		7.795					ND	
85 Chlorobenzene	112		7.801					ND	
87 4-Chlorobenzotrifluoride	180		7.856					ND	
88 Ethylbenzene	91		7.898					ND	
89 1,1,1,2-Tetrachloroethane	131		7.904					ND	
90 m-Xylene & p-Xylene	106		8.020					ND	
91 o-Xylene	106		8.440					ND	
92 Styrene	104		8.476					ND	
93 Bromoform	173		8.714					ND	
94 2-Chlorobenzotrifluoride	180		8.762					ND	
95 Isopropylbenzene	105		8.829					ND	
96 Cyclohexanone	55		8.987					ND	U
97 Bromobenzene	156		9.176					ND	
98 1,1,2,2-Tetrachloroethane	83		9.261					ND	
100 N-Propylbenzene	91		9.273					ND	
99 1,2,3-Trichloropropane	110		9.279					ND	
101 trans-1,4-Dichloro-2-butene	53		9.304					ND	
102 2-Chlorotoluene	126		9.371					ND	
103 3-Chlorotoluene	126		9.444					ND	
104 1,3,5-Trimethylbenzene	105		9.468					ND	
105 4-Chlorotoluene	91		9.492					ND	
106 tert-Butylbenzene	134		9.802					ND	
107 Pentachloroethane	167		9.857					ND	
108 1,2,4-Trimethylbenzene	105		9.857					ND	
109 sec-Butylbenzene	105		10.021					ND	
110 1,3-Dichlorobenzene	146		10.149					ND	
111 4-Isopropyltoluene	119		10.174					ND	
112 Dicyclopentadiene	66		10.210					ND	U
113 1,4-Dichlorobenzene	146		10.240					ND	
114 1,2,3-Trimethylbenzene	105		10.277					ND	
143 Benzyl chloride	126		10.399					ND	
115 n-Butylbenzene	91		10.569					ND	
116 1,2-Dichlorobenzene	146		10.599					ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354					ND	
118 1,3,5-Trichlorobenzene	180		11.494					ND	
119 1,2,4-Trichlorobenzene	180		12.035					ND	
120 Hexachlorobutadiene	225		12.157					ND	
121 Naphthalene	128		12.248					ND	
122 1,2,3-Trichlorobenzene	180		12.455					ND	
142 2-Methylnaphthalene	142		13.173					ND	
138 1-Bromopropane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
133 Halothane	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	7
S 124 1,2-Dichloroethene, Total	1		30.000					ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 Total BTEX	1		30.000					ND	7
S 126 Xylenes, Total	1		30.000					ND	7
S 151 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

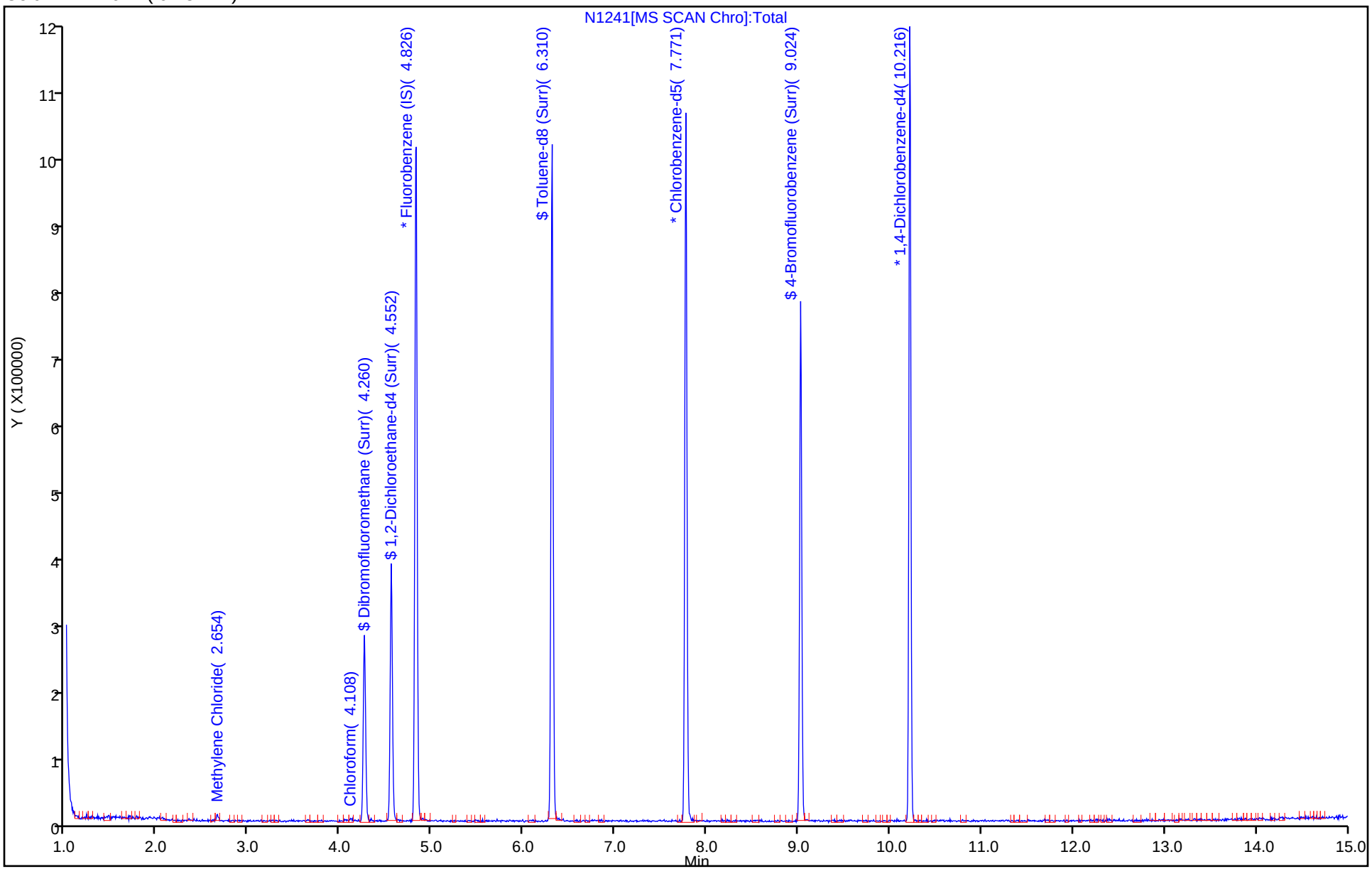
Report Date: 31-Oct-2024 10:07:36 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1241.d

Injection Date:	31-Oct-2024 03:02:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	41
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1241.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 31-Oct-2024 03:02:30 ALS Bottle#: 41 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120932-008
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 10:07:35 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 10:07:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	22.5	90.17
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.0	96.10
$ 6 Toluene-d8 (Surr)	25.0	25.4	101.69
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.3	109.07

Manual Integration/User Assign Peak Report

Eurofins Buffalo

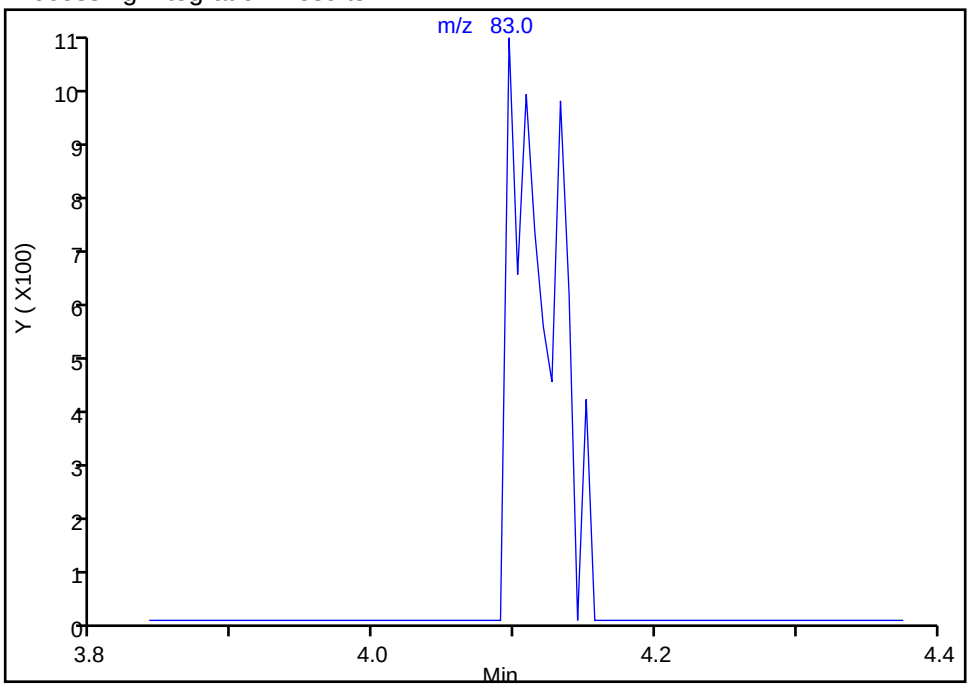
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1241.d
Injection Date: 31-Oct-2024 03:02:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: AD ALS Bottle#: 41 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

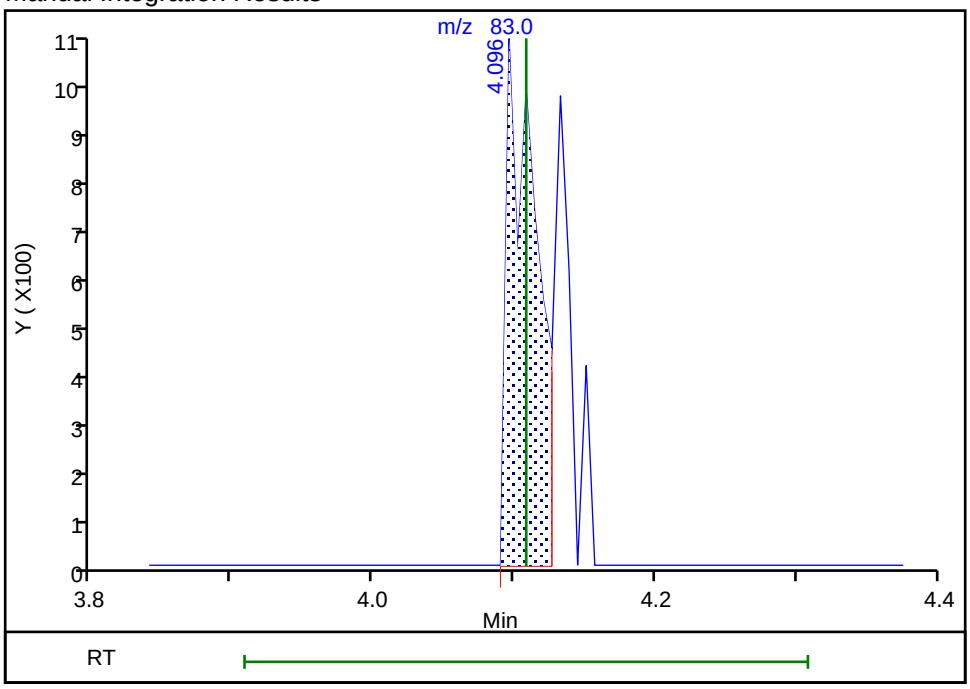
Not Detected
Expected RT: 4.11

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 1592
Amount: 0.140690
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 10:01:10 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

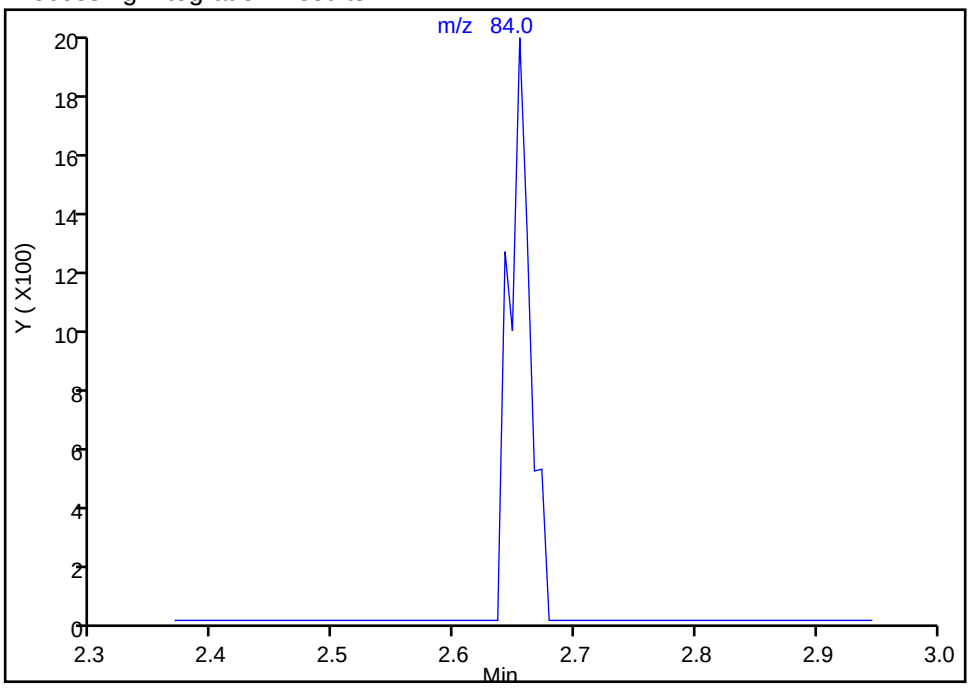
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1241.d
Injection Date: 31-Oct-2024 03:02:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: AD ALS Bottle#: 41 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

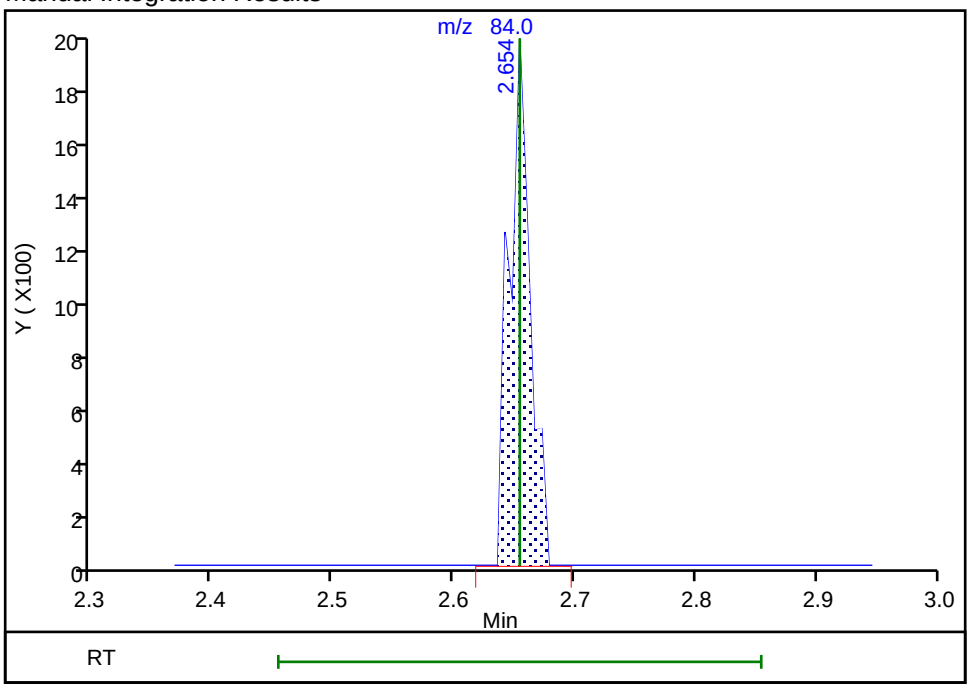
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.65
Area: 2335
Amount: 0.236196
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 10:00:56 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730696/8

Matrix: Water | Lab File ID: N1295.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 00:06

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.: 730696 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730696/8

Matrix: Water | Lab File ID: N1295.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 00:06

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.: 730696 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1295.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Nov-2024 00:06:30 ALS Bottle#: 36 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120960-008
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:06:03 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:06:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	132118	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	94	443683	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	257542	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.260	-0.006	91	145646	25.0	24.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	95	225137	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	509367	25.0	25.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	178819	25.0	27.9	
11 Dichlorodifluoromethane	85		1.048					ND	
12 Chlorodifluoromethane	51		1.067					ND	
13 Chloromethane	50		1.188					ND	
14 Vinyl chloride	62		1.261					ND	
144 Butadiene	54		1.273					ND	
15 Bromomethane	94		1.511					ND	
16 Chloroethane	64		1.571					ND	
18 Trichlorofluoromethane	101		1.748					ND	
17 Dichlorofluoromethane	67		1.748					ND	
19 Ethyl ether	59		1.985					ND	
141 Ethanol	45		1.997					ND	
81 Propene oxide	58		2.064					ND	
20 Acrolein	56		2.149					ND	
22 1,1-Dichloroethene	96		2.180					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.186					ND	
23 Acetone	43		2.289					ND	
24 Iodomethane	142		2.320					ND	
25 Carbon disulfide	76		2.350					ND	
26 Isopropyl alcohol	45		2.472					ND	
27 3-Chloro-1-propene	41		2.520					ND	
28 Methyl acetate	43		2.569					ND	
29 Acetonitrile	40		2.575					ND	
30 Methylene Chloride	84	2.660	2.660	0.006	85	3058		0.4104	Ma
31 2-Methyl-2-propanol	59		2.831					ND	

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		2.855					ND	
33 trans-1,2-Dichloroethene	96		2.867					ND	
34 Acrylonitrile	53		2.922					ND	
35 Hexane	57		3.056					ND	
36 1,1-Dichloroethane	63		3.269					ND	
37 Isopropyl ether	45		3.287					ND	
39 Vinyl acetate	43		3.323					ND	
38 2-Chloro-1,3-butadiene	53		3.324					ND	7
40 1,1-Dimethoxyethane	75		3.360					ND	
41 Tert-butyl ethyl ether	59		3.622					ND	
42 2,2-Dichloropropane	77		3.761					ND	
43 cis-1,2-Dichloroethene	96		3.804					ND	
44 2-Butanone (MEK)	43		3.834					ND	
45 Ethyl acetate	43		3.877					ND	7
46 Propionitrile	54		3.938					ND	
47 Chlorobromomethane	128		4.029					ND	
49 Tetrahydrofuran	42		4.041					ND	
48 Methacrylonitrile	67		4.047					ND	
50 Chloroform	83		4.108					ND	
52 Cyclohexane	56		4.212					ND	
51 1,1,1-Trichloroethane	97		4.212					ND	
53 Carbon tetrachloride	117		4.339					ND	
54 1,1-Dichloropropene	75		4.358					ND	
55 Benzene	78		4.552					ND	
146 Isooctane	57		4.559					ND	
56 Isobutyl alcohol	43		4.613					ND	
57 1,2-Dichloroethane	62		4.625					ND	
58 Tert-amyl methyl ether	73		4.644					ND	
140 t-Amyl alcohol	59		4.662					ND	
59 n-Heptane	43		4.747					ND	
1 1,4-Difluorobenzene	114		4.942					ND	
60 Trichloroethene	95		5.155					ND	
61 n-Butanol	56		5.222					ND	
62 Methylcyclohexane	83		5.270					ND	
145 Ethyl acrylate	55		5.301					ND	
63 1,2-Dichloropropane	63		5.392					ND	
65 Methyl methacrylate	41		5.514					ND	
64 Dibromomethane	93		5.520					ND	
66 1,4-Dioxane	88		5.538					ND	
67 Dichlorobromomethane	83		5.684					ND	
68 2-Nitropropane	43		5.933					ND	
69 2-Chloroethyl vinyl ether	63		5.970					ND	
70 Epichlorohydrin	57		6.055					ND	
71 cis-1,3-Dichloropropene	75		6.098					ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250					ND	
73 Toluene	92		6.371					ND	
74 2-Methylthiophene	97		6.505					ND	
75 trans-1,3-Dichloropropene	75		6.663					ND	
76 3-Methylthiophene	97		6.670					ND	
77 Ethyl methacrylate	69		6.724					ND	
78 1,1,2-Trichloroethane	83		6.846					ND	
79 Tetrachloroethene	166		6.895					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 1,3-Dichloropropane	76		6.998					ND	
82 2-Hexanone	43		7.083					ND	
149 n-Butyl acetate	43		7.205					ND	
83 Chlorodibromomethane	129		7.235					ND	
84 Ethylene Dibromide	107		7.326					ND	
139 1-Chlorohexane	55		7.771					ND	U
86 3-Chlorobenzotrifluoride	180		7.795					ND	
85 Chlorobenzene	112		7.801					ND	
87 4-Chlorobenzotrifluoride	180		7.856					ND	
88 Ethylbenzene	91		7.898					ND	
89 1,1,1,2-Tetrachloroethane	131		7.904					ND	
90 m-Xylene & p-Xylene	106		8.026					ND	
91 o-Xylene	106		8.440					ND	
92 Styrene	104		8.476					ND	
93 Bromoform	173		8.714					ND	
94 2-Chlorobenzotrifluoride	180		8.762					ND	
95 Isopropylbenzene	105		8.829					ND	
96 Cyclohexanone	55		8.993					ND	
97 Bromobenzene	156		9.170					ND	
98 1,1,2,2-Tetrachloroethane	83		9.261					ND	
100 N-Propylbenzene	91		9.273					ND	
99 1,2,3-Trichloropropane	110		9.279					ND	
101 trans-1,4-Dichloro-2-butene	53		9.310					ND	
102 2-Chlorotoluene	126		9.377					ND	
103 3-Chlorotoluene	126		9.444					ND	
104 1,3,5-Trimethylbenzene	105		9.468					ND	
105 4-Chlorotoluene	91		9.492					ND	
106 tert-Butylbenzene	134		9.802					ND	
107 Pentachloroethane	167		9.851					ND	
108 1,2,4-Trimethylbenzene	105		9.857					ND	
109 sec-Butylbenzene	105		10.021					ND	
110 1,3-Dichlorobenzene	146		10.149					ND	
111 4-Isopropyltoluene	119		10.174					ND	
112 Dicyclopentadiene	66		10.210					ND	
113 1,4-Dichlorobenzene	146		10.240					ND	
114 1,2,3-Trimethylbenzene	105		10.277					ND	
143 Benzyl chloride	126		10.399					ND	
115 n-Butylbenzene	91		10.569					ND	
116 1,2-Dichlorobenzene	146		10.599					ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354					ND	
118 1,3,5-Trichlorobenzene	180		11.488					ND	
119 1,2,4-Trichlorobenzene	180		12.035					ND	
120 Hexachlorobutadiene	225		12.157					ND	
121 Naphthalene	128		12.248					ND	
122 1,2,3-Trichlorobenzene	180		12.455					ND	
142 2-Methylnaphthalene	142		13.173					ND	
138 1-Bromopropane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
133 Halothane	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	7
S 124 1,2-Dichloroethene, Total	1		30.000					ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 Total BTEX	1		30.000					ND	7
S 126 Xylenes, Total	1		30.000					ND	7
S 151 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

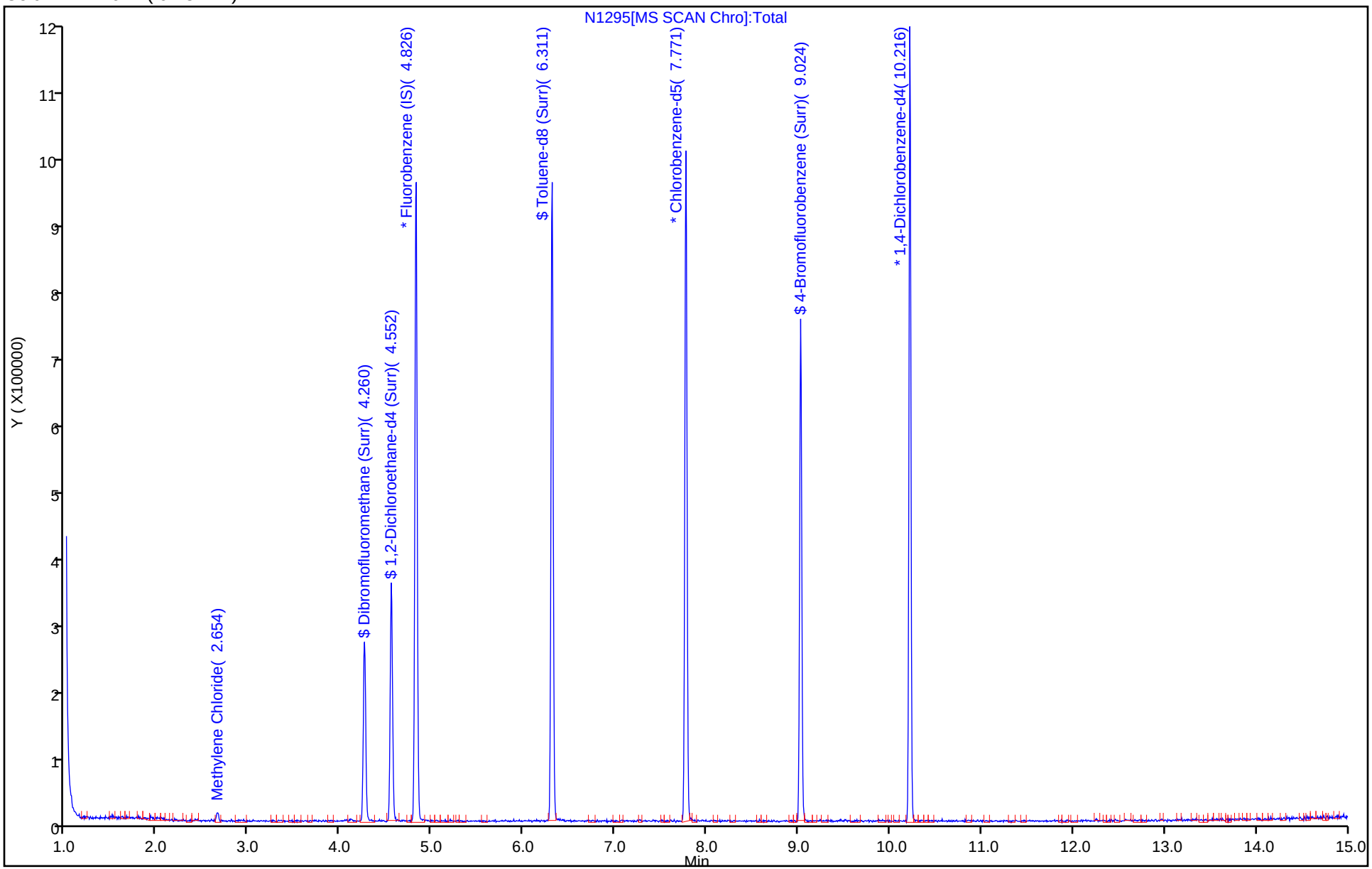
Report Date: 01-Nov-2024 10:06:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1295.d

Injection Date:	01-Nov-2024 00:06:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1295.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Nov-2024 00:06:30 ALS Bottle#: 36 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120960-008
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:06:03 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:06:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.3	97.04
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.2	100.84
$ 6 Toluene-d8 (Surr)	25.0	25.1	100.33
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.9	111.68

Manual Integration/User Assign Peak Report

Eurofins Buffalo

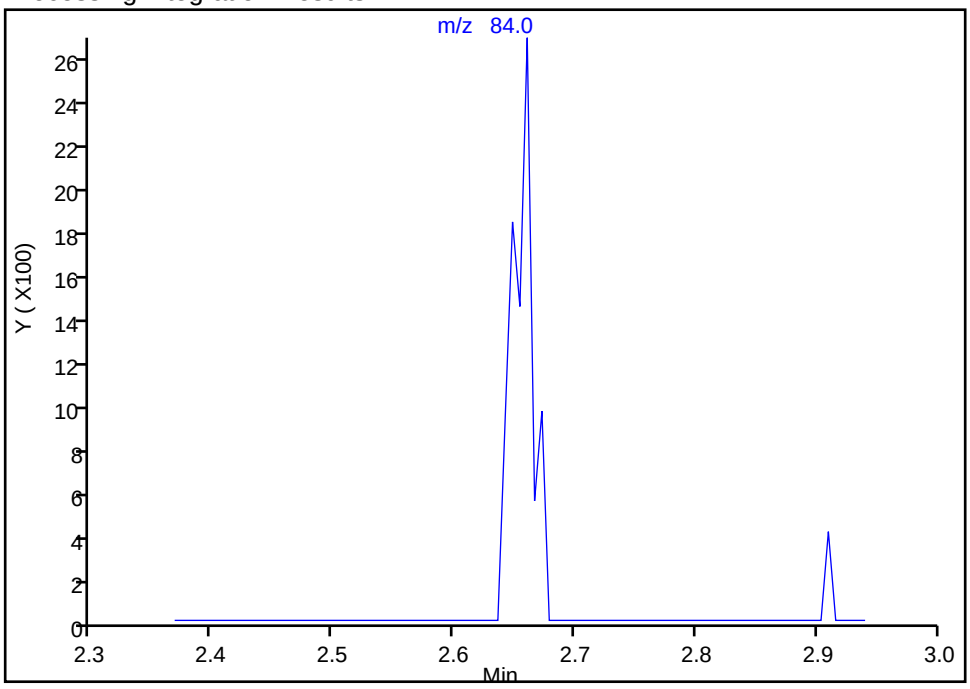
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1295.d
Injection Date: 01-Nov-2024 00:06:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: AD ALS Bottle#: 36 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

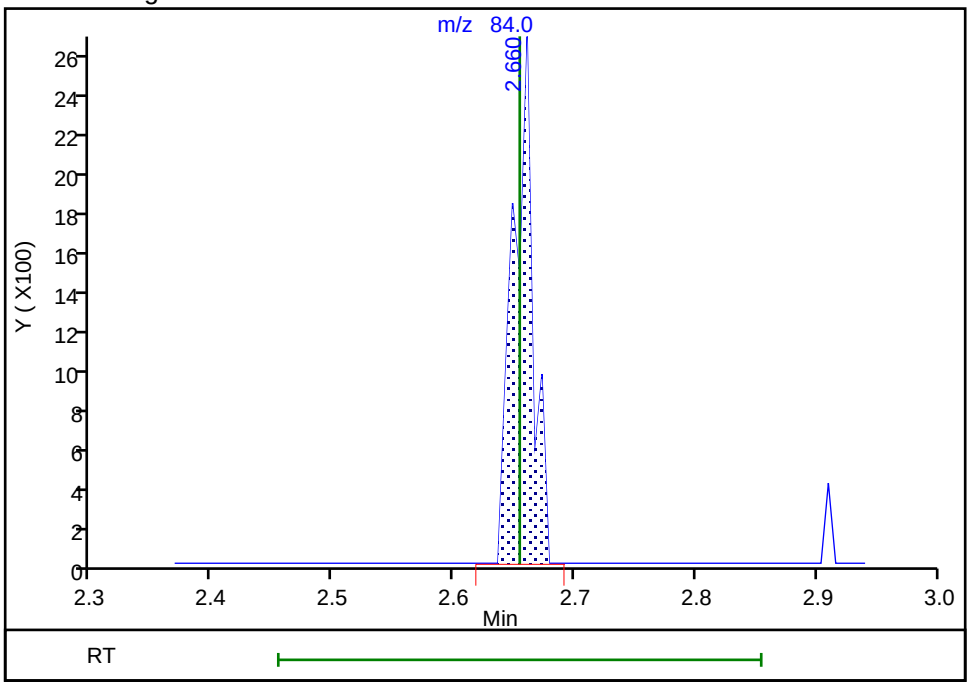
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.66
Area: 3058
Amount: 0.410419
Amount Units: ug/L



Reviewer: HF3K, 01-Nov-2024 10:05:11 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730495/6

Matrix: Water | Lab File ID: N1239.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 02:17

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	21.6		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.5		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.2		1.0	0.31
75-34-3	1,1-Dichloroethane	23.4		1.0	0.38
75-35-4	1,1-Dichloroethene	23.0		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	22.5		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	23.5		1.0	0.39
106-93-4	1,2-Dibromoethane	24.1		1.0	0.73
95-50-1	1,2-Dichlorobenzene	21.9		1.0	0.79
107-06-2	1,2-Dichloroethane	25.0		1.0	0.21
78-87-5	1,2-Dichloropropane	23.2		1.0	0.72
541-73-1	1,3-Dichlorobenzene	21.8		1.0	0.78
106-46-7	1,4-Dichlorobenzene	21.3		1.0	0.84
591-78-6	2-Hexanone	116		5.0	1.2
78-93-3	2-Butanone (MEK)	115		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	116		5.0	2.1
67-64-1	Acetone	115		10	3.0
71-43-2	Benzene	22.9		1.0	0.41
75-27-4	Bromodichloromethane	26.2		1.0	0.39
75-25-2	Bromoform	24.9		1.0	0.26
74-83-9	Bromomethane	19.3		1.0	0.69
75-15-0	Carbon disulfide	21.2		1.0	0.19
56-23-5	Carbon tetrachloride	23.7		1.0	0.27
108-90-7	Chlorobenzene	24.6		1.0	0.75
124-48-1	Dibromochloromethane	24.7		1.0	0.32
75-00-3	Chloroethane	18.5		1.0	0.32
67-66-3	Chloroform	23.0		1.0	0.34
74-87-3	Chloromethane	21.8		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	23.4		1.0	0.36
110-82-7	Cyclohexane	23.1		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730495/6

Matrix: Water | Lab File ID: N1239.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 02:17

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	22.7		1.0	0.68
100-41-4	Ethylbenzene	25.2		1.0	0.74
98-82-8	Isopropylbenzene	22.0		1.0	0.79
79-20-9	Methyl acetate	42.1		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.0		1.0	0.16
108-87-2	Methylcyclohexane	24.4		1.0	0.16
75-09-2	Methylene Chloride	23.0		1.0	0.44
100-42-5	Styrene	22.6		1.0	0.73
127-18-4	Tetrachloroethene	23.0		1.0	0.36
108-88-3	Toluene	25.1		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.9		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.1		1.0	0.37
79-01-6	Trichloroethene	23.7		1.0	0.46
75-69-4	Trichlorofluoromethane	22.9		1.0	0.88
75-01-4	Vinyl chloride	20.1		1.0	0.90
1330-20-7	Xylenes, Total	46.5		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	93		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1239.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Oct-2024 02:17:30 ALS Bottle#: 39 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0120932-006
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 09:48:49 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 09:48:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	148109	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.770	7.771	-0.001	91	500296	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	266361	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	93	156944	25.0	23.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	67	238112	25.0	23.8	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	95	561241	25.0	24.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.030	9.024	0.006	89	190954	25.0	26.4	
11 Dichlorodifluoromethane	85	1.048	1.048	0.000	97	165591	25.0	22.7	
13 Chloromethane	50	1.188	1.188	0.000	99	327297	25.0	21.8	
14 Vinyl chloride	62	1.261	1.261	0.000	97	158795	25.0	20.1	
144 Butadiene	54	1.273	1.267	0.006	95	346209	25.0	27.3	
15 Bromomethane	94	1.510	1.511	-0.001	92	86908	25.0	19.3	
16 Chloroethane	64	1.565	1.565	0.000	94	102647	25.0	18.5	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	72	224581	25.0	22.9	
17 Dichlorofluoromethane	67	1.748	1.748	0.000	93	269234	25.0	21.3	
19 Ethyl ether	59	1.985	1.985	0.000	93	177189	25.0	22.0	
20 Acrolein	56	2.149	2.143	0.006	96	118578	125.0	95.9	
22 1,1-Dichloroethene	96	2.180	2.174	0.006	92	116164	25.0	23.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.186	2.180	0.006	57	115274	25.0	22.2	
23 Acetone	43	2.289	2.289	0.000	98	619006	125.0	115.2	
24 Iodomethane	142	2.320	2.320	0.000	99	213404	25.0	22.3	
25 Carbon disulfide	76	2.350	2.350	0.000	97	387554	25.0	21.2	
27 3-Chloro-1-propene	41	2.520	2.520	0.000	87	435395	25.0	20.5	
28 Methyl acetate	43	2.569	2.563	0.006	99	605414	50.0	42.1	
30 Methylene Chloride	84	2.654	2.654	0.000	85	141598	25.0	23.0	
31 2-Methyl-2-propanol	59	2.837	2.837	0.000	97	292125	250.0	212.0	
32 Methyl tert-butyl ether	73	2.855	2.849	0.006	92	504169	25.0	23.0	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	90	146196	25.0	23.9	
34 Acrylonitrile	53	2.922	2.922	0.000	100	1476764	250.0	223.9	
35 Hexane	57	3.062	3.056	0.006	94	290799	25.0	21.3	
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	330716	25.0	23.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.323	3.323	0.000	96	1145050	50.0	41.0	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	85	196454	25.0	23.1	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	87	155329	25.0	23.2	
44 2-Butanone (MEK)	43	3.834	3.841	-0.007	96	1009580	125.0	115.0	
47 Chlorobromomethane	128	4.023	4.023	0.000	81	75556	25.0	22.8	
49 Tetrahydrofuran	42	4.041	4.041	0.000	91	274688	50.0	42.8	
50 Chloroform	83	4.108	4.108	0.000	94	263708	25.0	23.0	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	94	238152	25.0	25.3	
52 Cyclohexane	56	4.212	4.212	0.000	94	405012	25.0	23.1	
53 Carbon tetrachloride	117	4.339	4.339	0.000	95	208478	25.0	23.7	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	85	201401	25.0	25.2	
55 Benzene	78	4.552	4.552	0.000	88	548043	25.0	22.9	a
56 Isobutyl alcohol	43	4.613	4.607	0.006	94	437067	625.0	560.0	
57 1,2-Dichloroethane	62	4.625	4.619	0.006	95	307676	25.0	25.0	
59 n-Heptane	43	4.747	4.747	0.000	95	393957	25.0	22.4	
60 Trichloroethene	95	5.161	5.155	0.006	90	146422	25.0	23.7	
62 Methylcyclohexane	83	5.270	5.270	0.000	92	245261	25.0	24.4	
63 1,2-Dichloropropane	63	5.386	5.386	0.000	84	175939	25.0	23.2	
64 Dibromomethane	93	5.526	5.520	0.006	96	99881	25.0	22.9	
66 1,4-Dioxane	88	5.538	5.544	-0.006	84	36862	500.0	640.6	
67 Dichlorobromomethane	83	5.684	5.684	0.000	94	194777	25.0	26.2	
69 2-Chloroethyl vinyl ether	63	5.976	5.970	0.006	82	126447	25.0	24.0	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	83	230742	25.0	23.4	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	637648	125.0	115.8	
73 Toluene	92	6.377	6.371	0.006	96	343042	25.0	25.1	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	92	204792	25.0	24.1	
77 Ethyl methacrylate	69	6.724	6.724	0.000	87	205960	25.0	24.3	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	92	108441	25.0	25.5	
79 Tetrachloroethene	166	6.894	6.895	-0.001	92	131638	25.0	23.0	
80 1,3-Dichloropropane	76	6.998	7.004	-0.006	88	217946	25.0	24.9	
82 2-Hexanone	43	7.083	7.083	0.000	97	1432003	125.0	116.2	
83 Chlorodibromomethane	129	7.229	7.229	0.000	87	138289	25.0	24.7	
84 Ethylene Dibromide	107	7.326	7.326	0.000	93	135362	25.0	24.1	
85 Chlorobenzene	112	7.801	7.801	0.000	90	367859	25.0	24.6	
88 Ethylbenzene	91	7.898	7.898	0.000	98	656900	25.0	25.2	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	64	143864	25.0	25.1	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	97	239538	25.0	23.4	
91 o-Xylene	106	8.440	8.440	0.000	98	236656	25.0	23.1	
92 Styrene	104	8.476	8.476	0.000	91	377717	25.0	22.6	
93 Bromoform	173	8.707	8.714	-0.007	94	91130	25.0	24.9	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	581546	25.0	22.0	
97 Bromobenzene	156	9.170	9.176	-0.006	90	155000	25.0	22.7	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.261	-0.006	97	182948	25.0	21.6	
100 N-Propylbenzene	91	9.273	9.273	0.000	99	739606	25.0	23.6	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	92	60868	25.0	21.3	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	81	28393	25.0	6.27	
102 2-Chlorotoluene	126	9.370	9.371	-0.001	94	142561	25.0	21.7	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	94	526146	25.0	22.7	
105 4-Chlorotoluene	91	9.492	9.492	0.000	99	523441	25.0	23.3	
106 tert-Butylbenzene	134	9.796	9.802	-0.006	95	121822	25.0	24.6	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	533408	25.0	21.6	
109 sec-Butylbenzene	105	10.021	10.021	0.000	96	673376	25.0	23.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	96	273847	25.0	21.8	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	97	583842	25.0	22.2	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	91	276171	25.0	21.3	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	517859	25.0	23.0	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	93	278607	25.0	21.9	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	71	43853	25.0	23.5	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	206068	25.0	22.5	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	96	104498	25.0	22.9	
121 Naphthalene	128	12.248	12.248	0.000	97	610230	25.0	21.5	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	94	203492	25.0	22.8	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
GAS CORP mix_00647	Amount Added:	12.50	Units: uL	
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

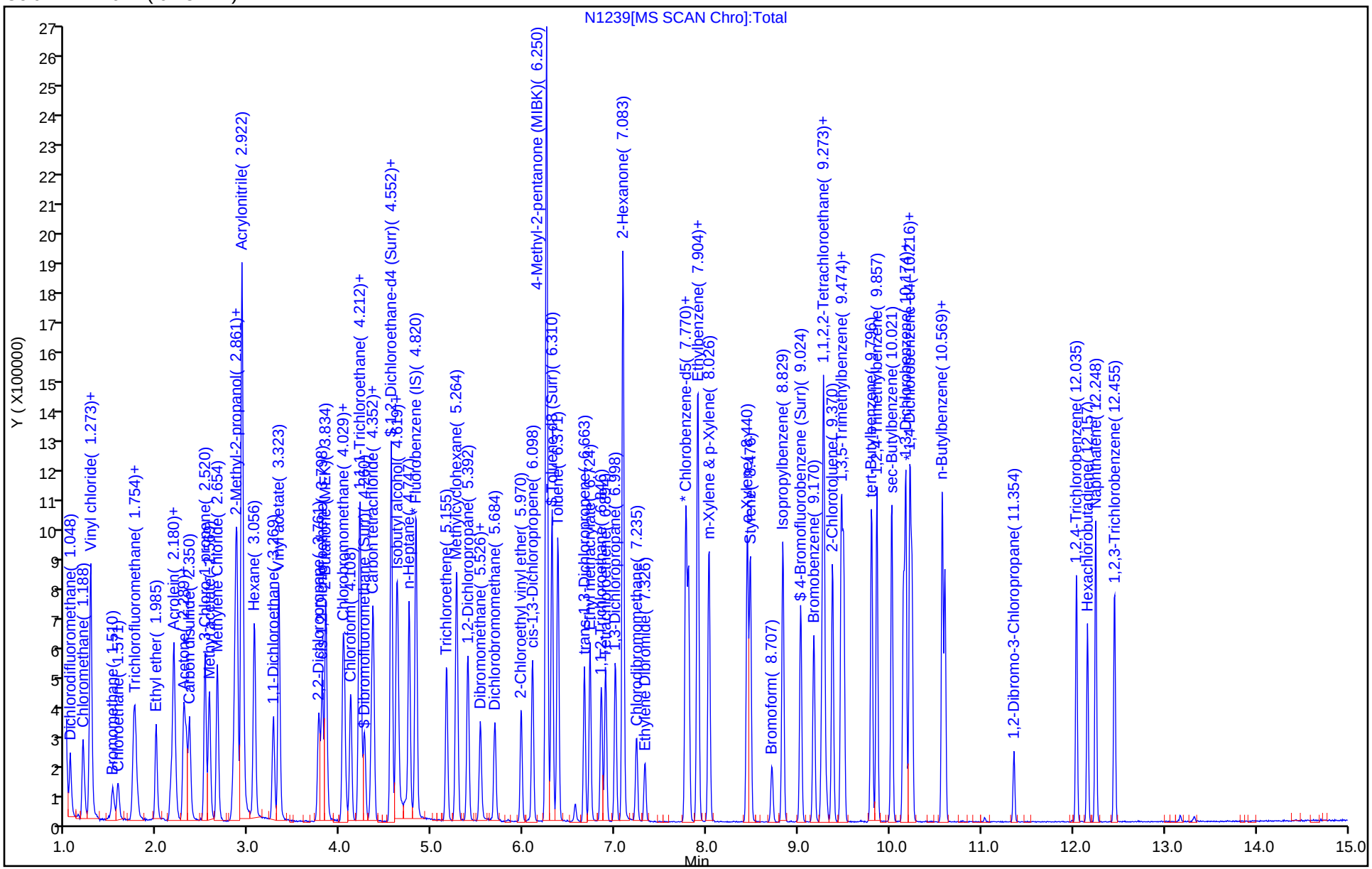
Report Date: 31-Oct-2024 09:48:51 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1239.d

Injection Date:	31-Oct-2024 02:17:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1239.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Oct-2024 02:17:30 ALS Bottle#: 39 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0120932-006
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 09:48:49 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 09:48:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.3	93.28
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.8	95.13
$ 6 Toluene-d8 (Surr)	25.0	24.5	98.04
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.4	105.76

Manual Integration/User Assign Peak Report

Eurofins Buffalo

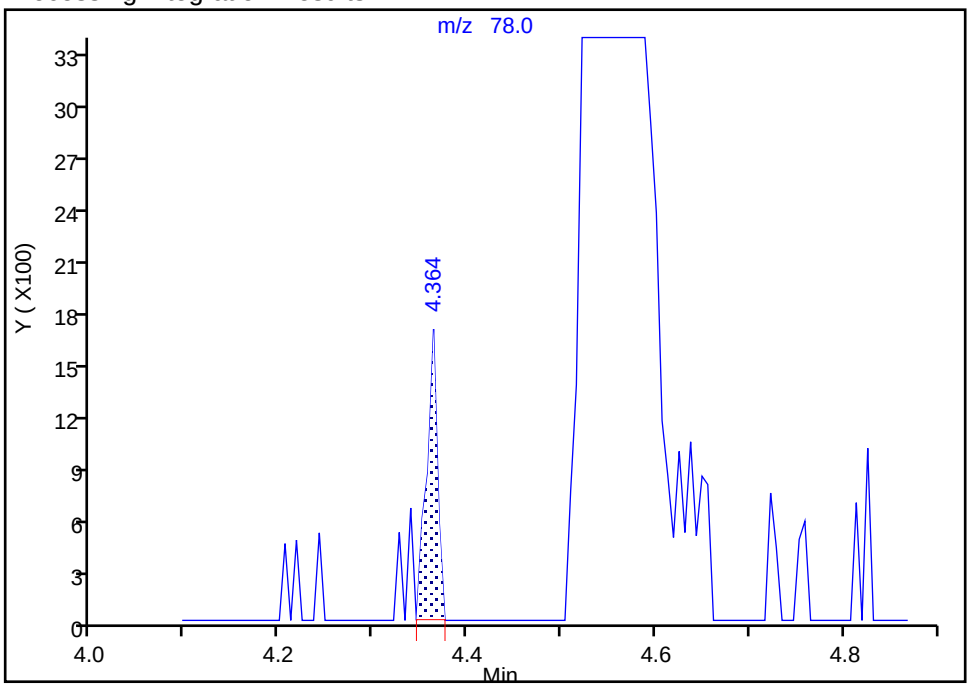
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1239.d
Injection Date: 31-Oct-2024 02:17:30 Instrument ID: HP5973N
Lims ID: LCS
Client ID:
Operator ID: AD ALS Bottle#: 39 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

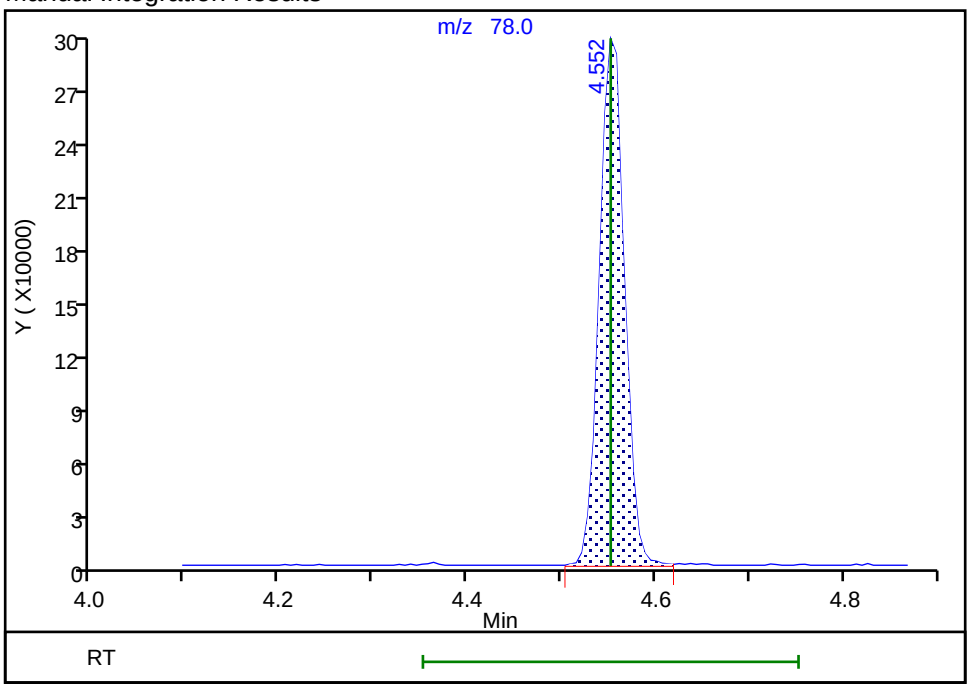
Processing Integration Results

RT: 4.36
Area: 1325
Amount: 0.055361
Amount Units: ug/L



Manual Integration Results

RT: 4.55
Area: 548043
Amount: 22.898140
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 09:48:09 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730696/6

Matrix: Water | Lab File ID: N1293.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 23:22

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.: 730696 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	24.1		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	21.9		1.0	0.21
79-00-5	1,1,2-Trichloroethane	24.2		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20.5		1.0	0.31
75-34-3	1,1-Dichloroethane	21.6		1.0	0.38
75-35-4	1,1-Dichloroethene	20.7		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	21.6		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	24.4		1.0	0.39
106-93-4	1,2-Dibromoethane	23.0		1.0	0.73
95-50-1	1,2-Dichlorobenzene	21.8		1.0	0.79
107-06-2	1,2-Dichloroethane	24.2		1.0	0.21
78-87-5	1,2-Dichloropropane	22.8		1.0	0.72
541-73-1	1,3-Dichlorobenzene	22.6		1.0	0.78
106-46-7	1,4-Dichlorobenzene	21.4		1.0	0.84
591-78-6	2-Hexanone	126		5.0	1.2
78-93-3	2-Butanone (MEK)	122		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	121		5.0	2.1
67-64-1	Acetone	119		10	3.0
71-43-2	Benzene	21.5		1.0	0.41
75-27-4	Bromodichloromethane	25.2		1.0	0.39
75-25-2	Bromoform	24.8		1.0	0.26
74-83-9	Bromomethane	17.7		1.0	0.69
75-15-0	Carbon disulfide	19.3		1.0	0.19
56-23-5	Carbon tetrachloride	22.8		1.0	0.27
108-90-7	Chlorobenzene	24.4		1.0	0.75
124-48-1	Dibromochloromethane	23.3		1.0	0.32
75-00-3	Chloroethane	17.7		1.0	0.32
67-66-3	Chloroform	21.5		1.0	0.34
74-87-3	Chloromethane	19.8		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	22.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	22.7		1.0	0.36
110-82-7	Cyclohexane	21.4		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730696/6

Matrix: Water | Lab File ID: N1293.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 23:22

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.: 730696 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	21.9		1.0	0.68
100-41-4	Ethylbenzene	24.3		1.0	0.74
98-82-8	Isopropylbenzene	21.8		1.0	0.79
79-20-9	Methyl acetate	42.8		2.5	1.3
1634-04-4	Methyl tert-butyl ether	22.6		1.0	0.16
108-87-2	Methylcyclohexane	22.8		1.0	0.16
75-09-2	Methylene Chloride	22.9		1.0	0.44
100-42-5	Styrene	22.7		1.0	0.73
127-18-4	Tetrachloroethene	22.6		1.0	0.36
108-88-3	Toluene	24.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	20.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.3		1.0	0.37
79-01-6	Trichloroethene	22.6		1.0	0.46
75-69-4	Trichlorofluoromethane	22.9		1.0	0.88
75-01-4	Vinyl chloride	19.6		1.0	0.90
1330-20-7	Xylenes, Total	45.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120
1868-53-7	Dibromofluoromethane (Surr)	93		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1293.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Oct-2024 23:22:30 ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0120960-006
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:02:09 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:02:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	147082	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	91	503636	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	263557	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	155747	25.0	23.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	68	232152	25.0	23.3	
$ 6 Toluene-d8 (Surr)	98	6.311	6.311	-0.001	97	580013	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.030	9.024	0.006	91	203274	25.0	28.0	
11 Dichlorodifluoromethane	85	1.048	1.048	0.000	98	158340	25.0	21.9	
13 Chloromethane	50	1.188	1.188	0.000	99	295250	25.0	19.8	
14 Vinyl chloride	62	1.261	1.261	0.000	50	153929	25.0	19.6	
144 Butadiene	54	1.273	1.273	0.000	94	321647	25.0	25.6	
15 Bromomethane	94	1.511	1.511	0.000	90	79086	25.0	17.7	
16 Chloroethane	64	1.571	1.571	0.000	94	97273	25.0	17.7	
18 Trichlorofluoromethane	101	1.754	1.748	0.006	72	222958	25.0	22.9	
17 Dichlorofluoromethane	67	1.748	1.748	0.000	94	253959	25.0	20.2	
19 Ethyl ether	59	1.985	1.985	0.000	90	165915	25.0	20.7	
20 Acrolein	56	2.143	2.149	-0.006	99	119611	125.0	97.4	
22 1,1-Dichloroethene	96	2.180	2.180	0.000	90	103867	25.0	20.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.186	2.186	0.000	59	105354	25.0	20.5	
23 Acetone	43	2.289	2.289	0.000	97	635077	125.0	119.0	
24 Iodomethane	142	2.320	2.320	0.000	97	192952	25.0	20.3	
25 Carbon disulfide	76	2.350	2.350	0.000	98	350084	25.0	19.3	
27 3-Chloro-1-propene	41	2.520	2.520	0.000	86	396937	25.0	18.8	
28 Methyl acetate	43	2.563	2.569	-0.006	99	610897	50.0	42.8	
30 Methylene Chloride	84	2.654	2.654	0.000	86	140236	25.0	22.9	
31 2-Methyl-2-propanol	59	2.831	2.831	0.000	98	336253	250.0	245.7	
32 Methyl tert-butyl ether	73	2.861	2.855	0.006	94	491485	25.0	22.6	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	89	124901	25.0	20.6	
34 Acrylonitrile	53	2.922	2.922	0.000	97	1481291	250.0	226.2	
35 Hexane	57	3.056	3.056	0.000	96	284090	25.0	21.0	
36 1,1-Dichloroethane	63	3.263	3.269	-0.006	96	303395	25.0	21.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.323	3.323	0.000	96	1180784	50.0	42.6	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	86	177787	25.0	21.1	
43 cis-1,2-Dichloroethene	96	3.798	3.804	-0.006	86	149052	25.0	22.4	
44 2-Butanone (MEK)	43	3.841	3.834	0.007	96	1064840	125.0	122.2	
47 Chlorobromomethane	128	4.029	4.029	0.000	83	71983	25.0	21.9	
49 Tetrahydrofuran	42	4.041	4.041	0.000	91	280581	50.0	44.0	
50 Chloroform	83	4.108	4.108	0.000	94	244612	25.0	21.5	
52 Cyclohexane	56	4.212	4.212	0.000	93	372520	25.0	21.4	
51 1,1,1-Trichloroethane	97	4.206	4.212	-0.006	95	225721	25.0	24.1	
53 Carbon tetrachloride	117	4.339	4.339	0.000	95	199510	25.0	22.8	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	83	191984	25.0	24.2	
55 Benzene	78	4.552	4.552	0.000	87	511871	25.0	21.5	a
56 Isobutyl alcohol	43	4.613	4.613	0.000	94	483954	625.0	624.4	
57 1,2-Dichloroethane	62	4.625	4.625	0.000	95	295286	25.0	24.2	
59 n-Heptane	43	4.747	4.747	0.000	94	355268	25.0	20.3	
60 Trichloroethene	95	5.161	5.155	0.006	93	138498	25.0	22.6	
62 Methylcyclohexane	83	5.270	5.270	0.000	91	227641	25.0	22.8	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	87	172047	25.0	22.8	
64 Dibromomethane	93	5.520	5.520	0.000	95	96790	25.0	22.4	
66 1,4-Dioxane	88	5.538	5.538	0.000	88	40196	500.0	693.9	
67 Dichlorobromomethane	83	5.684	5.684	0.000	94	185650	25.0	25.2	
69 2-Chloroethyl vinyl ether	63	5.976	5.970	0.006	86	136736	25.0	26.1	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	81	222244	25.0	22.7	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	669856	125.0	120.9	
73 Toluene	92	6.371	6.371	0.000	96	342225	25.0	24.9	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	91	216785	25.0	25.3	
77 Ethyl methacrylate	69	6.724	6.724	0.000	85	205080	25.0	24.0	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	93	103710	25.0	24.2	
79 Tetrachloroethene	166	6.895	6.895	0.000	89	130201	25.0	22.6	
80 1,3-Dichloropropane	76	6.998	6.998	0.000	86	221004	25.0	25.1	
82 2-Hexanone	43	7.083	7.083	0.000	97	1568746	125.0	126.4	
83 Chlorodibromomethane	129	7.235	7.235	0.000	91	131399	25.0	23.3	
84 Ethylene Dibromide	107	7.326	7.326	0.000	97	129911	25.0	23.0	
85 Chlorobenzene	112	7.801	7.801	0.000	90	366965	25.0	24.4	
88 Ethylbenzene	91	7.904	7.898	0.006	98	636927	25.0	24.3	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	45	138253	25.0	24.0	
90 m-Xylene & p-Xylene	106	8.026	8.026	0.000	96	230863	25.0	22.4	
91 o-Xylene	106	8.446	8.440	0.006	97	239729	25.0	23.2	
92 Styrene	104	8.476	8.476	0.000	93	382340	25.0	22.7	
93 Bromoform	173	8.714	8.714	0.000	95	91367	25.0	24.8	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	569450	25.0	21.8	
97 Bromobenzene	156	9.170	9.170	0.000	90	158780	25.0	23.5	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	95	183626	25.0	21.9	
100 N-Propylbenzene	91	9.273	9.273	0.000	97	719292	25.0	23.2	
99 1,2,3-Trichloropropane	110	9.285	9.279	0.006	89	63483	25.0	22.4	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.310	-0.006	69	36576	25.0	8.16	
102 2-Chlorotoluene	126	9.371	9.377	-0.006	94	145248	25.0	22.4	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	95	507484	25.0	22.1	
105 4-Chlorotoluene	91	9.492	9.492	0.000	99	516630	25.0	23.2	
106 tert-Butylbenzene	134	9.802	9.802	0.000	94	115593	25.0	23.6	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	524450	25.0	21.5	
109 sec-Butylbenzene	105	10.021	10.021	0.000	96	644655	25.0	22.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	95	280832	25.0	22.6	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	97	560606	25.0	21.6	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	90	274665	25.0	21.4	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	511001	25.0	22.9	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	95	274600	25.0	21.8	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	73	45023	25.0	24.4	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	195987	25.0	21.6	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	95	103419	25.0	22.9	
121 Naphthalene	128	12.248	12.248	0.000	97	599766	25.0	21.3	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	95	184238	25.0	20.9	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
GAS CORP mix_00647	Amount Added:	12.50	Units: uL	
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

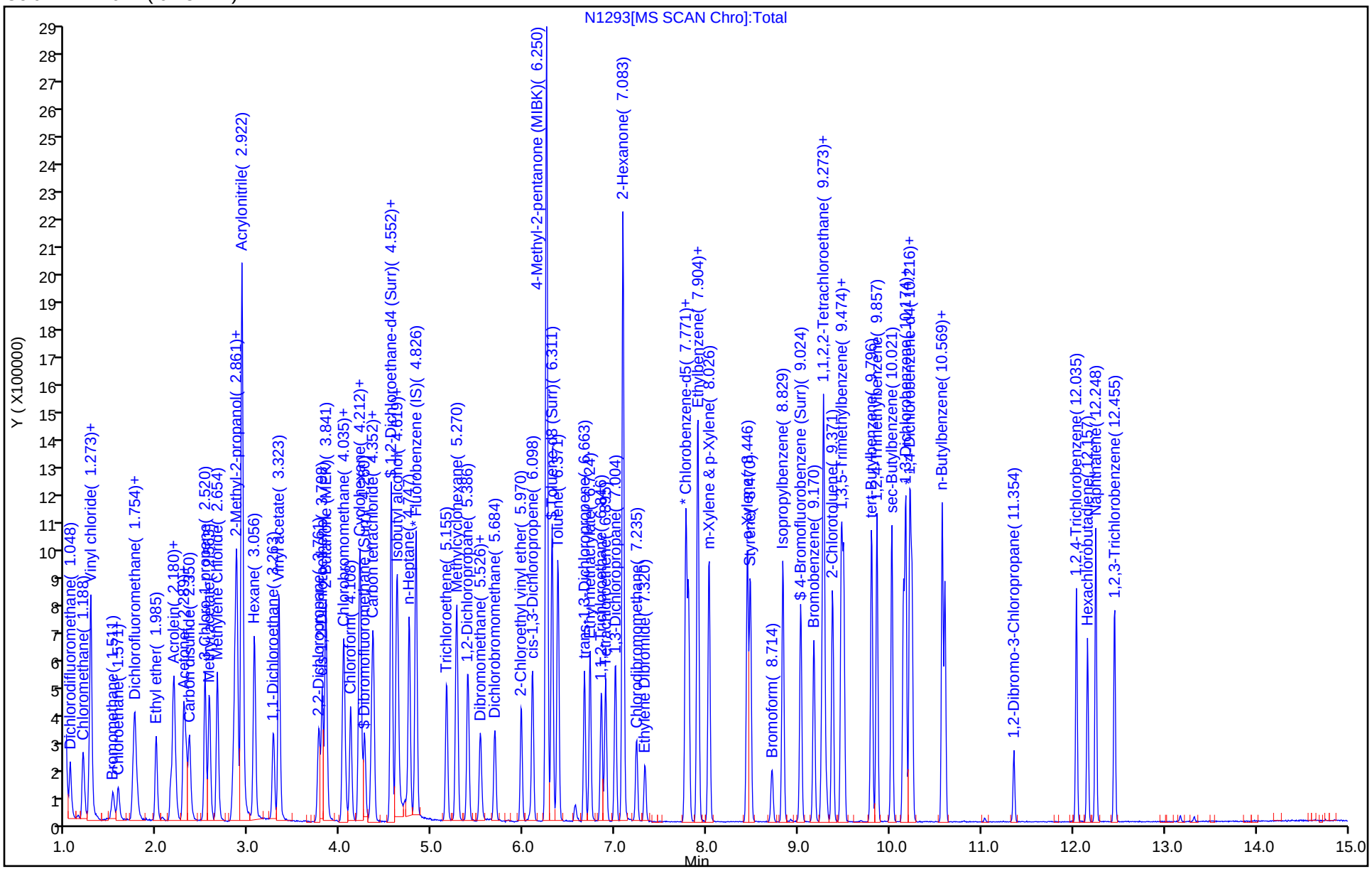
Report Date: 01-Nov-2024 10:02:10 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1293.d

Injection Date:	31-Oct-2024 23:22:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1293.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Oct-2024 23:22:30 ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0120960-006
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:02:09 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:02:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.3	93.22
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.3	93.40
$ 6 Toluene-d8 (Surr)	25.0	25.2	100.64
$ 7 4-Bromofluorobenzene (Surr)	25.0	28.0	111.84

Manual Integration/User Assign Peak Report

Eurofins Buffalo

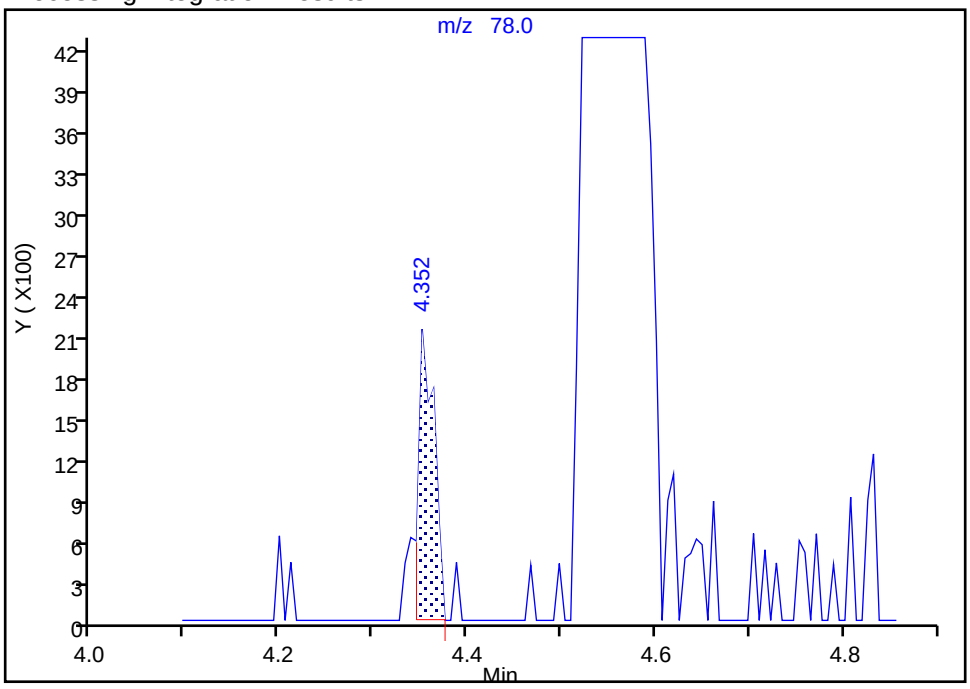
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1293.d
Injection Date: 31-Oct-2024 23:22:30 Instrument ID: HP5973N
Lims ID: LCS
Client ID:
Operator ID: AD ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

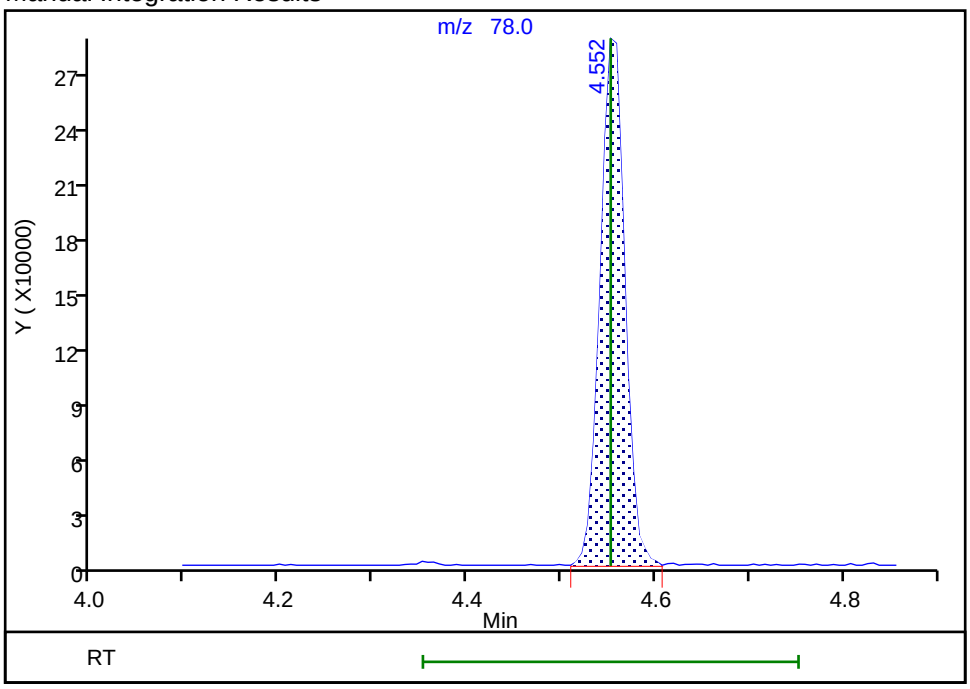
Processing Integration Results

RT: 4.35
Area: 2420
Amount: 0.101818
Amount Units: ug/L



Manual Integration Results

RT: 4.55
Area: 511871
Amount: 21.536148
Amount Units: ug/L



Reviewer: HF3K, 01-Nov-2024 10:01:46 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 MS | Lab Sample ID: 480-224869-9 MS

Matrix: Water | Lab File ID: N1258.d

Analysis Method: 8260C | Date Collected: 10/25/2024 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 09:24

Soil Aliquot Vol: | Dilution Factor: 100

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2550		100	82
79-34-5	1,1,2,2-Tetrachloroethane	2080		100	21
79-00-5	1,1,2-Trichloroethane	2500		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2230		100	31
75-34-3	1,1-Dichloroethane	2430		100	38
75-35-4	1,1-Dichloroethene	2300		100	29
120-82-1	1,2,4-Trichlorobenzene	2220		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	2310		100	39
106-93-4	1,2-Dibromoethane	2250		100	73
95-50-1	1,2-Dichlorobenzene	2210		100	79
107-06-2	1,2-Dichloroethane	2500		100	21
78-87-5	1,2-Dichloropropane	2410		100	72
541-73-1	1,3-Dichlorobenzene	2200		100	78
106-46-7	1,4-Dichlorobenzene	2120		100	84
591-78-6	2-Hexanone	11600		500	120
78-93-3	2-Butanone (MEK)	11400		1000	130
108-10-1	4-Methyl-2-pentanone (MIBK)	11900		500	210
67-64-1	Acetone	10700		1000	300
71-43-2	Benzene	5000		100	41
75-27-4	Bromodichloromethane	2540		100	39
75-25-2	Bromoform	2390		100	26
74-83-9	Bromomethane	2130		100	69
75-15-0	Carbon disulfide	2190		100	19
56-23-5	Carbon tetrachloride	2530		100	27
108-90-7	Chlorobenzene	2580		100	75
124-48-1	Dibromochloromethane	2430		100	32
75-00-3	Chloroethane	2020		100	32
67-66-3	Chloroform	2330		100	34
74-87-3	Chloromethane	2280		100	35
156-59-2	cis-1,2-Dichloroethene	2330		100	81
10061-01-5	cis-1,3-Dichloropropene	2260		100	36
110-82-7	Cyclohexane	2380		100	18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 MS | Lab Sample ID: 480-224869-9 MS

Matrix: Water | Lab File ID: N1258.d

Analysis Method: 8260C | Date Collected: 10/25/2024 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 09:24

Soil Aliquot Vol: | Dilution Factor: 100

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	2510		100	68
100-41-4	Ethylbenzene	2570		100	74
98-82-8	Isopropylbenzene	2190		100	79
79-20-9	Methyl acetate	4300		250	130
1634-04-4	Methyl tert-butyl ether	2330		100	16
108-87-2	Methylcyclohexane	2400		100	16
75-09-2	Methylene Chloride	2500		100	44
100-42-5	Styrene	2430		100	73
127-18-4	Tetrachloroethene	2450		100	36
108-88-3	Toluene	3520		100	51
156-60-5	trans-1,2-Dichloroethene	2410		100	90
10061-02-6	trans-1,3-Dichloropropene	2550		100	37
79-01-6	Trichloroethene	2470		100	46
75-69-4	Trichlorofluoromethane	2420		100	88
75-01-4	Vinyl chloride	2030		100	90
1330-20-7	Xylenes, Total	5320		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	92		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1258.d
Lims ID: 480-224869-G-9 MS
Client ID:
Sample Type: MS
Inject. Date: 31-Oct-2024 09:24:30 ALS Bottle#: 58 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224869-G-9 MS
Misc. Info.: 480-0120932-025
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 16:01:33 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 16:01:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	144881	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	92	494753	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	94	272021	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	150867	25.0	22.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	55	244995	25.0	25.0	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	96	573178	25.0	25.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	196856	25.0	27.6	
11 Dichlorodifluoromethane	85	1.048	1.048	0.000	96	179439	25.0	25.1	
13 Chloromethane	50	1.188	1.188	0.000	99	334176	25.0	22.8	
14 Vinyl chloride	62	1.261	1.255	0.000	98	157436	25.0	20.3	
15 Bromomethane	94	1.511	1.498	0.000	92	93595	25.0	21.3	
16 Chloroethane	64	1.565	1.565	0.000	93	109385	25.0	20.2	
18 Trichlorofluoromethane	101	1.748	1.742	0.006	94	232193	25.0	24.2	
22 1,1-Dichloroethene	96	2.180	2.180	0.006	88	113547	25.0	23.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.186	2.167	0.006	57	112895	25.0	22.3	
23 Acetone	43	2.289	2.289	0.000	97	560359	125.0	106.6	
25 Carbon disulfide	76	2.350	2.356	0.000	97	392017	25.0	21.9	
28 Methyl acetate	43	2.563	2.569	0.000	99	605129	50.0	43.0	
30 Methylene Chloride	84	2.654	2.648	0.000	86	150351	25.0	25.0	
32 Methyl tert-butyl ether	73	2.855	2.849	0.006	92	499374	25.0	23.3	
33 trans-1,2-Dichloroethene	96	2.873	2.867	0.006	88	144002	25.0	24.1	
36 1,1-Dichloroethane	63	3.269	3.263	0.006	96	337316	25.0	24.3	
43 cis-1,2-Dichloroethene	96	3.804	3.798	0.006	88	152575	25.0	23.3	
44 2-Butanone (MEK)	43	3.841	3.840	0.000	95	977290	125.0	113.8	
50 Chloroform	83	4.114	4.108	0.006	94	261422	25.0	23.3	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	93	234433	25.0	25.5	
52 Cyclohexane	56	4.212	4.212	0.000	94	408191	25.0	23.8	
53 Carbon tetrachloride	117	4.346	4.358	0.007	93	217770	25.0	25.3	
55 Benzene	78	4.552	4.552	0.000	90	1169758	25.0	50.0	a
57 1,2-Dichloroethane	62	4.625	4.619	0.006	95	301549	25.0	25.0	
60 Trichloroethene	95	5.155	5.148	0.000	92	149317	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.270	5.270	0.000	91	236515	25.0	24.0	
63 1,2-Dichloropropane	63	5.392	5.386	0.006	87	178932	25.0	24.1	
67 Dichlorobromomethane	83	5.690	5.684	0.006	94	184904	25.0	25.4	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	78	217806	25.0	22.6	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	646333	125.0	118.7	
73 Toluene	92	6.371	6.365	0.000	97	474954	25.0	35.2	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	91	214731	25.0	25.5	
78 1,1,2-Trichloroethane	83	6.846	6.852	0.000	91	105041	25.0	25.0	
79 Tetrachloroethene	166	6.895	6.895	0.000	90	138774	25.0	24.5	
82 2-Hexanone	43	7.083	7.095	0.000	97	1413979	125.0	116.0	
83 Chlorodibromomethane	129	7.229	7.229	0.000	87	134902	25.0	24.3	
84 Ethylene Dibromide	107	7.321	7.326	-0.005	99	124933	25.0	22.5	
85 Chlorobenzene	112	7.801	7.801	0.000	89	381603	25.0	25.8	
88 Ethylbenzene	91	7.898	7.898	0.000	98	660780	25.0	25.7	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	96	276830		27.3	
91 o-Xylene	106	8.440	8.434	0.000	98	262782		25.9	
92 Styrene	104	8.476	8.470	0.000	92	401337	25.0	24.3	
93 Bromoform	173	8.714	8.714	0.000	95	86571	25.0	23.9	
95 Isopropylbenzene	105	8.829	8.835	0.000	96	589422	25.0	21.9	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.261	-0.006	96	179448	25.0	20.8	
110 1,3-Dichlorobenzene	146	10.149	10.241	0.000	94	282252	25.0	22.0	
113 1,4-Dichlorobenzene	146	10.241	10.240	0.001	90	280149	25.0	21.2	
116 1,2-Dichlorobenzene	146	10.600	10.599	0.001	94	287914	25.0	22.1	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	73	43868	25.0	23.1	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	95	208075	25.0	22.2	
S 126 Xylenes, Total	1				0			53.2	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

GAS CORP mix_00647	Amount Added:	12.50	Units: uL	
8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

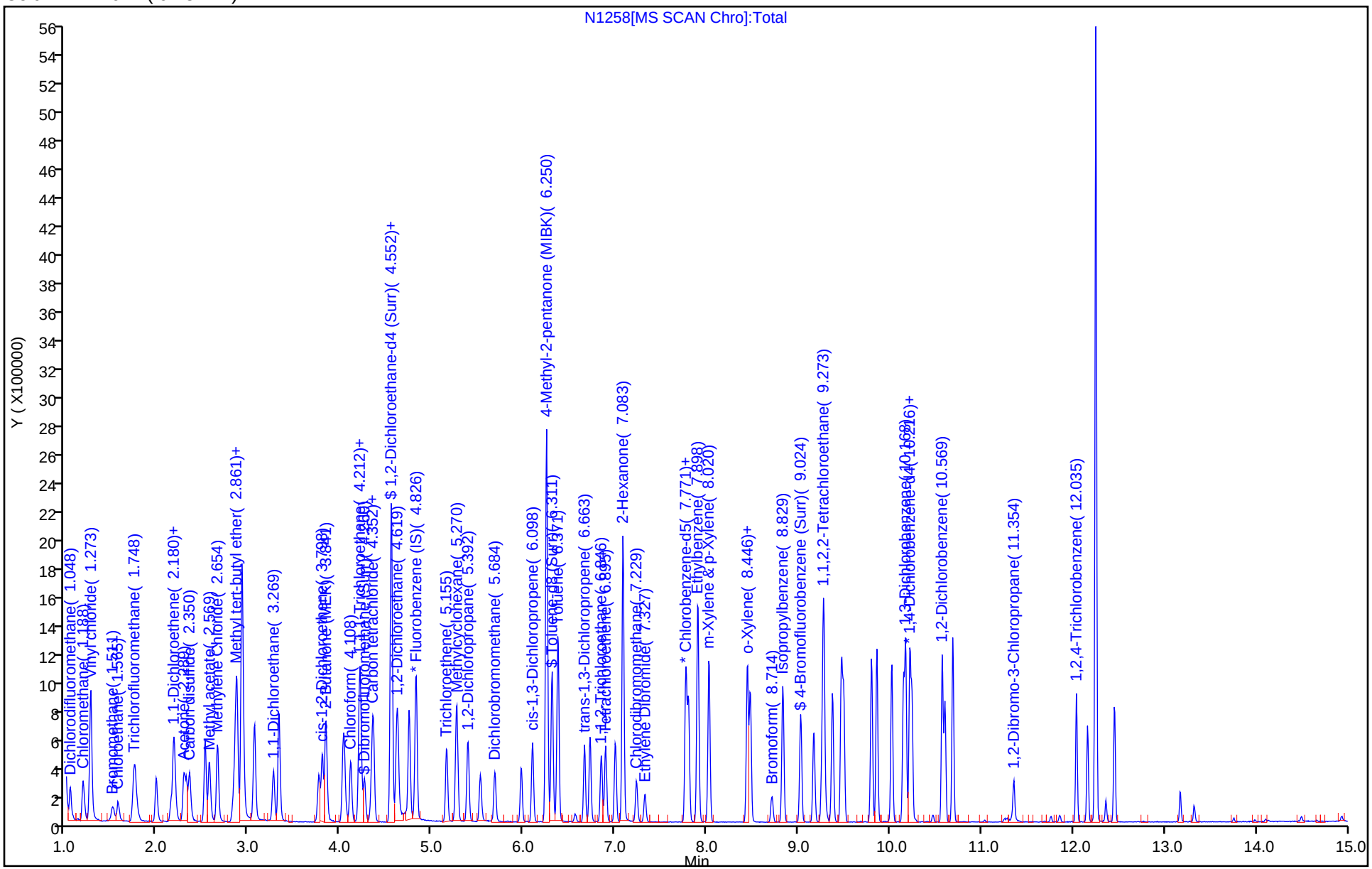
Report Date: 31-Oct-2024 16:01:33 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1258.d

Injection Date:	31-Oct-2024 09:24:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-9 MS			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	100.0000	ALS Bottle#:	58
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1258.d
Lims ID: 480-224869-G-9 MS
Client ID:
Sample Type: MS
Inject. Date: 31-Oct-2024 09:24:30 ALS Bottle#: 58 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224869-G-9 MS
Misc. Info.: 480-0120932-025
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 16:01:33 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 16:01:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	22.9	91.67
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.0	100.06
$ 6 Toluene-d8 (Surr)	25.0	25.3	101.24
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.6	110.25

Manual Integration/User Assign Peak Report

Eurofins Buffalo

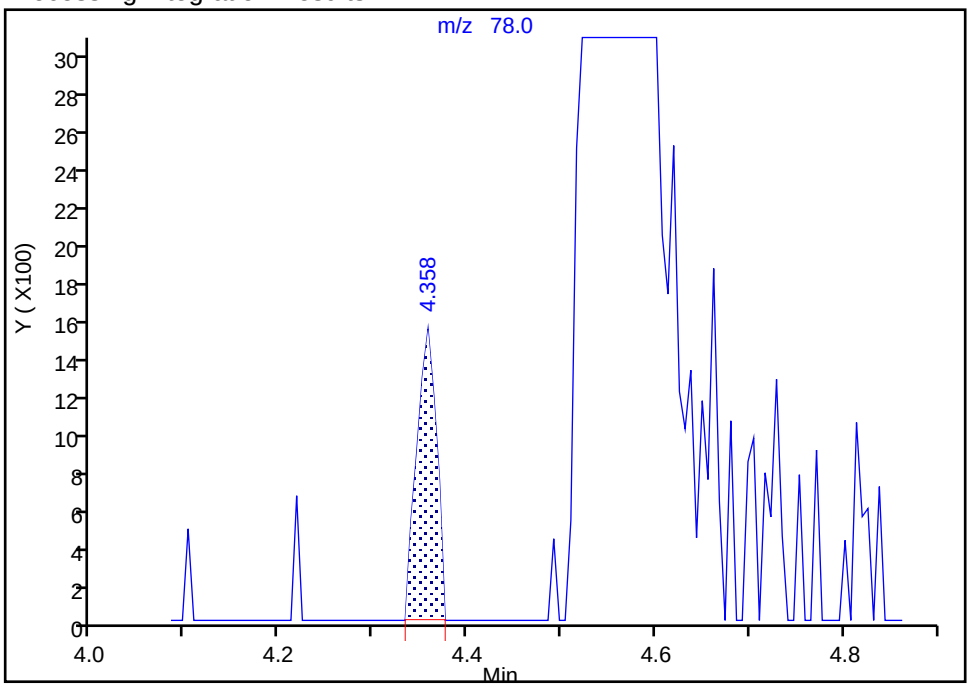
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1258.d
Injection Date: 31-Oct-2024 09:24:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-9 MS
Client ID:
Operator ID: AD ALS Bottle#: 58 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

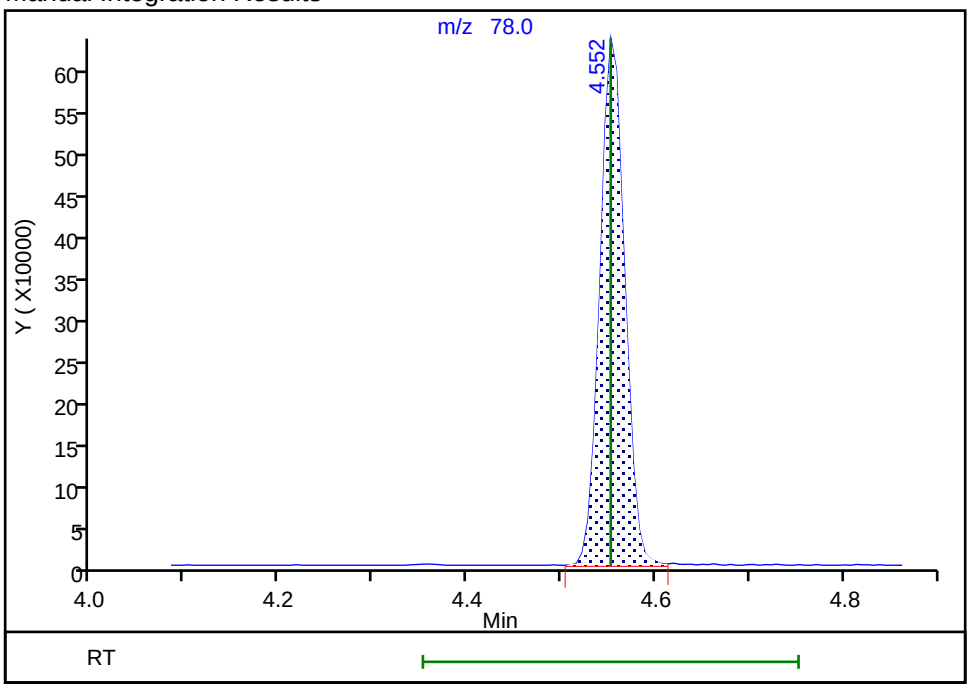
Processing Integration Results

RT: 4.36
Area: 2229
Amount: 0.095206
Amount Units: ug/L



Manual Integration Results

RT: 4.55
Area: 1169758
Amount: 49.963358
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 16:01:17 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 MSD | Lab Sample ID: 480-224869-9 MSD

Matrix: Water | Lab File ID: N1259.d

Analysis Method: 8260C | Date Collected: 10/25/2024 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 09:46

Soil Aliquot Vol: | Dilution Factor: 100

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2530		100	82
79-34-5	1,1,2,2-Tetrachloroethane	2190		100	21
79-00-5	1,1,2-Trichloroethane	2350		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2300		100	31
75-34-3	1,1-Dichloroethane	2430		100	38
75-35-4	1,1-Dichloroethene	2360		100	29
120-82-1	1,2,4-Trichlorobenzene	2250		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	2490		100	39
106-93-4	1,2-Dibromoethane	2230		100	73
95-50-1	1,2-Dichlorobenzene	2210		100	79
107-06-2	1,2-Dichloroethane	2560		100	21
78-87-5	1,2-Dichloropropane	2360		100	72
541-73-1	1,3-Dichlorobenzene	2250		100	78
106-46-7	1,4-Dichlorobenzene	2190		100	84
591-78-6	2-Hexanone	11200		500	120
78-93-3	2-Butanone (MEK)	11000		1000	130
108-10-1	4-Methyl-2-pentanone (MIBK)	11300		500	210
67-64-1	Acetone	11100		1000	300
71-43-2	Benzene	4910		100	41
75-27-4	Bromodichloromethane	2570		100	39
75-25-2	Bromoform	2470		100	26
74-83-9	Bromomethane	2080		100	69
75-15-0	Carbon disulfide	2170		100	19
56-23-5	Carbon tetrachloride	2490		100	27
108-90-7	Chlorobenzene	2510		100	75
124-48-1	Dibromochloromethane	2420		100	32
75-00-3	Chloroethane	2080		100	32
67-66-3	Chloroform	2270		100	34
74-87-3	Chloromethane	2270		100	35
156-59-2	cis-1,2-Dichloroethene	2370		100	81
10061-01-5	cis-1,3-Dichloropropene	2260		100	36
110-82-7	Cyclohexane	2420		100	18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 MSD | Lab Sample ID: 480-224869-9 MSD

Matrix: Water | Lab File ID: N1259.d

Analysis Method: 8260C | Date Collected: 10/25/2024 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 09:46

Soil Aliquot Vol: | Dilution Factor: 100

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	2560		100	68
100-41-4	Ethylbenzene	2570		100	74
98-82-8	Isopropylbenzene	2240		100	79
79-20-9	Methyl acetate	4180		250	130
1634-04-4	Methyl tert-butyl ether	2360		100	16
108-87-2	Methylcyclohexane	2430		100	16
75-09-2	Methylene Chloride	2690		100	44
100-42-5	Styrene	2380		100	73
127-18-4	Tetrachloroethene	2270		100	36
108-88-3	Toluene	3330		100	51
156-60-5	trans-1,2-Dichloroethene	2350		100	90
10061-02-6	trans-1,3-Dichloropropene	2450		100	37
79-01-6	Trichloroethene	2470		100	46
75-69-4	Trichlorofluoromethane	2420		100	88
75-01-4	Vinyl chloride	2030		100	90
1330-20-7	Xylenes, Total	5170		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	95		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1259.d
Lims ID: 480-224869-G-9 MSD
Client ID:
Sample Type: MSD
Inject. Date: 31-Oct-2024 09:46:30 ALS Bottle#: 59 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224869-G-9 MSD
Misc. Info.: 480-0120932-026
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 16:01:33 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 16:01:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	144405	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	-0.001	92	501558	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	94	263137	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	155171	25.0	23.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.558	4.552	0.006	55	236712	25.0	24.2	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	96	573638	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	86	193028	25.0	26.7	
11 Dichlorodifluoromethane	85	1.042	1.048	-0.006	97	182192	25.0	25.6	
13 Chloromethane	50	1.182	1.188	-0.006	99	331477	25.0	22.7	
14 Vinyl chloride	62	1.255	1.255	-0.006	97	156905	25.0	20.3	
15 Bromomethane	94	1.511	1.498	-0.001	93	91226	25.0	20.8	
16 Chloroethane	64	1.565	1.565	0.000	93	112408	25.0	20.8	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	71	230928	25.0	24.2	
22 1,1-Dichloroethene	96	2.174	2.180	0.000	89	116089	25.0	23.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.167	0.000	58	116154	25.0	23.0	
23 Acetone	43	2.289	2.289	0.000	97	582709	125.0	111.2	
25 Carbon disulfide	76	2.350	2.356	0.000	97	386753	25.0	21.7	
28 Methyl acetate	43	2.563	2.569	0.000	99	586059	50.0	41.8	
30 Methylene Chloride	84	2.654	2.648	0.000	87	161008	25.0	26.9	
32 Methyl tert-butyl ether	73	2.855	2.849	0.006	94	505416	25.0	23.6	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	87	139778	25.0	23.5	
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	335091	25.0	24.3	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	86	154853	25.0	23.7	
44 2-Butanone (MEK)	43	3.834	3.840	-0.007	96	945140	125.0	110.5	
50 Chloroform	83	4.108	4.108	0.000	93	253486	25.0	22.7	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	76	232608	25.0	25.3	
52 Cyclohexane	56	4.212	4.212	0.000	91	412412	25.0	24.2	
53 Carbon tetrachloride	117	4.339	4.358	0.000	95	213743	25.0	24.9	
55 Benzene	78	4.552	4.552	0.000	90	1145868	25.0	49.1	
57 1,2-Dichloroethane	62	4.625	4.619	0.006	95	306828	25.0	25.6	
60 Trichloroethene	95	5.161	5.148	0.006	93	148649	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.270	5.270	0.000	92	237929	25.0	24.3	
63 1,2-Dichloropropane	63	5.392	5.386	0.006	86	174736	25.0	23.6	
67 Dichlorobromomethane	83	5.684	5.684	0.000	94	186561	25.0	25.7	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	81	217465	25.0	22.6	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	621028	125.0	112.5	
73 Toluene	92	6.371	6.365	0.000	96	456547	25.0	33.3	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	90	208824	25.0	24.5	
78 1,1,2-Trichloroethane	83	6.846	6.852	0.000	93	100068	25.0	23.5	
79 Tetrachloroethene	166	6.894	6.895	-0.001	91	130312	25.0	22.7	
82 2-Hexanone	43	7.083	7.095	0.000	97	1388072	125.0	112.3	
83 Chlorodibromomethane	129	7.229	7.229	0.000	89	135879	25.0	24.2	
84 Ethylene Dibromide	107	7.326	7.326	0.000	99	125393	25.0	22.3	
85 Chlorobenzene	112	7.801	7.801	0.000	91	375116	25.0	25.1	
88 Ethylbenzene	91	7.898	7.898	0.000	98	670089	25.0	25.7	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	97	273453		26.6	
91 o-Xylene	106	8.440	8.434	0.000	98	257653		25.1	
92 Styrene	104	8.470	8.470	-0.006	90	397841	25.0	23.8	
93 Bromoform	173	8.713	8.714	-0.001	95	90614	25.0	24.7	
95 Isopropylbenzene	105	8.829	8.835	0.000	97	584631	25.0	22.4	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.261	-0.006	97	183028	25.0	21.9	
110 1,3-Dichlorobenzene	146	10.149	10.241	0.000	95	279775	25.0	22.5	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	91	280435	25.0	21.9	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	95	278159	25.0	22.1	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	75	45868	25.0	24.9	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	203692	25.0	22.5	
S 126 Xylenes, Total	1				0			51.6	

QC Flag Legend

Processing Flags

Reagents:

GAS CORP mix_00647	Amount Added:	12.50	Units: uL	
8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

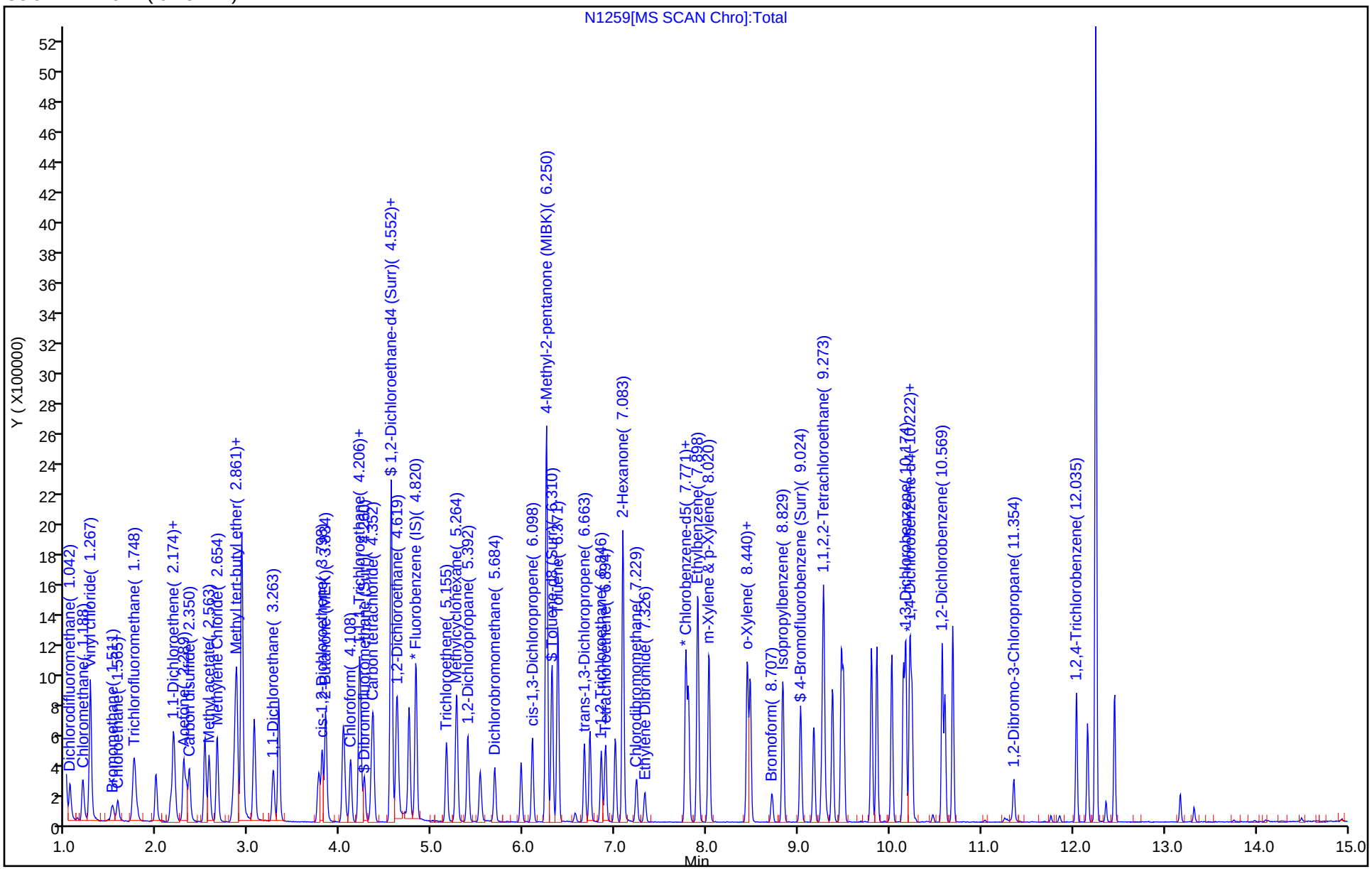
Report Date: 31-Oct-2024 16:01:55 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1259.d

Injection Date:	31-Oct-2024 09:46:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-9 MSD			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	100.0000	ALS Bottle#:	59
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1259.d
Lims ID: 480-224869-G-9 MSD
Client ID:
Sample Type: MSD
Inject. Date: 31-Oct-2024 09:46:30 ALS Bottle#: 59 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224869-G-9 MSD
Misc. Info.: 480-0120932-026
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 16:01:33 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 16:01:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.6	94.59
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.2	97.00
$ 6 Toluene-d8 (Surr)	25.0	25.0	99.95
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.7	106.64

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: HP5973N Start Date: 10/24/2024 14:11

Analysis Batch Number: 729617 End Date: 10/24/2024 23:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-729617/11		10/24/2024 14:11	1	N0901.d	ZB-624 (20) 0.18(mm)
IC 480-729617/13		10/24/2024 15:19	1	N0904.d	ZB-624 (20) 0.18(mm)
IC 480-729617/14		10/24/2024 15:41	1	N0905.d	ZB-624 (20) 0.18(mm)
IC 480-729617/15		10/24/2024 16:04	1	N0906.d	ZB-624 (20) 0.18(mm)
IC 480-729617/16		10/24/2024 16:27	1	N0907.d	ZB-624 (20) 0.18(mm)
IC 480-729617/17		10/24/2024 16:49	1	N0908.d	ZB-624 (20) 0.18(mm)
ICIS 480-729617/18		10/24/2024 17:11	1	N0909.d	ZB-624 (20) 0.18(mm)
IC 480-729617/19		10/24/2024 17:34	1	N0910.d	ZB-624 (20) 0.18(mm)
IC 480-729617/20		10/24/2024 17:56	1	N0911.d	ZB-624 (20) 0.18(mm)
ZZZZZ (QC)		10/24/2024 18:41	1		ZB-624 (20) 0.18(mm)
ZZZZZ (QC)		10/24/2024 19:03	1		ZB-624 (20) 0.18(mm)
IC 480-729617/25		10/24/2024 19:48	1		ZB-624 (20) 0.18(mm)
IC 480-729617/26		10/24/2024 20:10	1		ZB-624 (20) 0.18(mm)
IC 480-729617/27		10/24/2024 20:32	1		ZB-624 (20) 0.18(mm)
IC 480-729617/28		10/24/2024 20:55	1		ZB-624 (20) 0.18(mm)
IC 480-729617/29		10/24/2024 21:17	1		ZB-624 (20) 0.18(mm)
IC 480-729617/30		10/24/2024 21:40	1		ZB-624 (20) 0.18(mm)
IC 480-729617/31		10/24/2024 22:03	1		ZB-624 (20) 0.18(mm)
ZZZZZ (QC)		10/24/2024 22:48	1		ZB-624 (20) 0.18(mm)
ICV 480-729617/34		10/24/2024 23:10	1	N0925.d	ZB-624 (20) 0.18(mm)
ICV 480-729617/35		10/24/2024 23:33	1	N0926.d	ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: HP5973N Start Date: 10/31/2024 01:09

Analysis Batch Number: 730495 End Date: 10/31/2024 09:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-730495/3		10/31/2024 01:09	1	N1236.d	ZB-624 (20) 0.18(mm)
CCVIS 480-730495/4		10/31/2024 01:32	1	N1237.d	ZB-624 (20) 0.18(mm)
CCV 480-730495/5		10/31/2024 01:54	1		ZB-624 (20) 0.18(mm)
LCS 480-730495/6		10/31/2024 02:17	1	N1239.d	ZB-624 (20) 0.18(mm)
RL 480-730495/7		10/31/2024 02:39	1		ZB-624 (20) 0.18(mm)
MB 480-730495/8		10/31/2024 03:02	1	N1241.d	ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/31/2024 03:24	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/31/2024 03:47	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/31/2024 04:09	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/31/2024 04:32	10		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/31/2024 04:54	1		ZB-624 (20) 0.18(mm)
480-224869-1	MW-BCP-09A-10252024	10/31/2024 05:16	1	N1247.d	ZB-624 (20) 0.18(mm)
480-224869-3	MW-BCP-10A-10242024	10/31/2024 05:39	5	N1248.d	ZB-624 (20) 0.18(mm)
480-224869-5	MW-BCP-11A-10242024	10/31/2024 06:01	1	N1249.d	ZB-624 (20) 0.18(mm)
480-224869-7	MW-BCP-12A-10242024	10/31/2024 06:23	1	N1250.d	ZB-624 (20) 0.18(mm)
480-224869-9	MW-BCP-13A-10252024	10/31/2024 06:46	100	N1251.d	ZB-624 (20) 0.18(mm)
480-224869-10	MW-BCP-13B-10252024	10/31/2024 07:08	2	N1252.d	ZB-624 (20) 0.18(mm)
480-224869-11	MW-BCP-24A-10252024	10/31/2024 07:31	1	N1253.d	ZB-624 (20) 0.18(mm)
480-224869-12	MW-BCP-25A-10252024	10/31/2024 07:54	1	N1254.d	ZB-624 (20) 0.18(mm)
480-224869-13	MW-BCP-19B-10252024	10/31/2024 08:16	1	N1255.d	ZB-624 (20) 0.18(mm)
480-224869-18	MW-BCP-21A-10252024	10/31/2024 08:39	1	N1256.d	ZB-624 (20) 0.18(mm)
480-224869-19	MW-BCP-19A-10252024	10/31/2024 09:01	8	N1257.d	ZB-624 (20) 0.18(mm)
480-224869-9 MS	MW-BCP-13A-10252024 MS	10/31/2024 09:24	100	N1258.d	ZB-624 (20) 0.18(mm)
480-224869-9 MSD	MW-BCP-13A-10252024 MSD	10/31/2024 09:46	100	N1259.d	ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: HP5973N Start Date: 10/31/2024 22:14

Analysis Batch Number: 730696 End Date: 11/01/2024 07:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-730696/3		10/31/2024 22:14	1	N1290.d	ZB-624 (20) 0.18(mm)
CCVIS 480-730696/4		10/31/2024 22:36	1	N1291.d	ZB-624 (20) 0.18(mm)
CCV 480-730696/5		10/31/2024 22:59	1		ZB-624 (20) 0.18(mm)
LCS 480-730696/6		10/31/2024 23:22	1	N1293.d	ZB-624 (20) 0.18(mm)
RL 480-730696/7		10/31/2024 23:44	1		ZB-624 (20) 0.18(mm)
MB 480-730696/8		11/01/2024 00:06	1	N1295.d	ZB-624 (20) 0.18(mm)
480-224869-3 DL	MW-BCP-10A-10242024 DL	11/01/2024 00:29	50	N1296.d	ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 00:51	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 01:15	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 01:35	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 01:58	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 02:20	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 02:43	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 03:05	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 03:27	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 03:50	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 04:12	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 04:35	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 04:58	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 05:20	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 05:42	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 06:04	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 06:26	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 06:48	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 07:10	1		ZB-624 (20) 0.18(mm)
ZZZZZ (QC)		11/01/2024 07:33	1		ZB-624 (20) 0.18(mm)
ZZZZZ (QC)		11/01/2024 07:55	1		ZB-624 (20) 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 729617 Batch Start Date: 10/24/24 14:11 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	8260 CORP mix 00260	BFB_WRK 00167	GAS CORP mix 00646	N 8260 IS 00282
BFB 480-729617/11		8260C			1 uL	1 uL		1 uL		
IC 480-729617/13		8260C			5 mL	5 mL	0.5 uL		0.5 uL	1 uL
IC 480-729617/14		8260C			5 mL	5 mL	1 uL		1 uL	1 uL
IC 480-729617/15		8260C			5 mL	5 mL	2 uL		2 uL	1 uL
IC 480-729617/16		8260C			5 mL	5 mL	5 uL		5 uL	1 uL
IC 480-729617/17		8260C			5 mL	5 mL	5 uL		5 uL	1 uL
ICIS 480-729617/18		8260C			5 mL	5 mL	12.5 uL		12.5 uL	1 uL
IC 480-729617/19		8260C			5 mL	5 mL	25 uL		25 uL	1 uL
IC 480-729617/20		8260C			5 mL	5 mL	50 uL		50 uL	1 uL
ICV 480-729617/34		8260C			5 mL	5 mL				1 uL
ICV 480-729617/35		8260C			5 mL	5 mL				1 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	N_8260_Surr 00475	SS 8260 CORP 00117	SS ADD CORP 00094	SS GAS CORP 00599		
BFB 480-729617/11		8260C								
IC 480-729617/13		8260C			1 uL					
IC 480-729617/14		8260C			1 uL					
IC 480-729617/15		8260C			1 uL					
IC 480-729617/16		8260C			1 uL					
IC 480-729617/17		8260C			1 uL					
ICIS 480-729617/18		8260C			1 uL					
IC 480-729617/19		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 729617 Batch Start Date: 10/24/24 14:11 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	N_8260_Surr 00475	SS 8260 CORP 00117	SS ADD CORP 00094	SS GAS CORP 00599		
IC 480-729617/20		8260C			1 uL					
ICV 480-729617/34		8260C			1 uL	12.5 uL		12.5 uL		
ICV 480-729617/35		8260C			1 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.: 480-224869-1

SDG No.:

Batch Number: 730495 Batch Start Date: 10/31/24 01:09 Batch Analyst: Daniels, Aiden

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00259	BFB_WRK 00167	GAS CORP mix 00647
BFB 480-730495/3		8260C			1 uL	1 uL			1 uL	
CCVIS 480-730495/4		8260C			5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-730495/6		8260C			5 mL	5 mL		12.5 uL		12.5 uL
MB 480-730495/8		8260C			5 mL	5 mL				
480-224869-G-1	MW-BCP-09A-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-3	MW-BCP-10A-1024 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-5	MW-BCP-11A-1024 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-7	MW-BCP-12A-1024 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-9	MW-BCP-13A-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-10	MW-BCP-13B-1025 2024	8260C	Water	T	5 mL	5 mL	7 SU			
480-224869-G-11	MW-BCP-24A-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-12	MW-BCP-25A-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-E-13	MW-BCP-19B-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-18	MW-BCP-21A-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-E-19	MW-BCP-19A-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-9 MS	MW-BCP-13A-1025 2024	8260C		T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL
480-224869-G-9 MSD	MW-BCP-13A-1025 2024	8260C		T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	N 8260 IS 00282	N_8260_Surr 00477	AnalysisComment			
BFB 480-730495/3		8260C								
CCVIS 480-730495/4		8260C			1 uL	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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730495 Batch Start Date: 10/31/24 01:09 Batch Analyst: Daniels, Aiden

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	N 8260 IS 00282	N_8260_Surr 00477	AnalysisComment			
LCS 480-730495/6		8260C			1 uL	1 uL				
MB 480-730495/8		8260C			1 uL	1 uL				
480-224869-G-1	MW-BCP-09A-1025 2024	8260C	Water	T	1 uL	1 uL				
480-224869-G-3	MW-BCP-10A-1024 2024	8260C	Water	T	1 uL	1 uL	ReRun @50x (eFlag), Target			
480-224869-G-5	MW-BCP-11A-1024 2024	8260C	Water	T	1 uL	1 uL				
480-224869-G-7	MW-BCP-12A-1024 2024	8260C	Water	T	1 uL	1 uL				
480-224869-G-9	MW-BCP-13A-1025 2024	8260C	Water	T	1 uL	1 uL	Target			
480-224869-G-10	MW-BCP-13B-1025 2024	8260C	Water	T	1 uL	1 uL	Preserved, Target			
480-224869-G-11	MW-BCP-24A-1025 2024	8260C	Water	T	1 uL	1 uL				
480-224869-G-12	MW-BCP-25A-1025 2024	8260C	Water	T	1 uL	1 uL				
480-224869-E-13	MW-BCP-19B-1025 2024	8260C	Water	T	1 uL	1 uL				
480-224869-G-18	MW-BCP-21A-1025 2024	8260C	Water	T	1 uL	1 uL				
480-224869-E-19	MW-BCP-19A-1025 2024	8260C	Water	T	1 uL	1 uL	Target			
480-224869-G-9 MS	MW-BCP-13A-1025 2024	8260C		T	1 uL	1 uL				
480-224869-G-9 MSD	MW-BCP-13A-1025 2024	8260C		T	1 uL	1 uL				

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730696 Batch Start Date: 10/31/24 22:14 Batch Analyst: Daniels, Aiden

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00259	BFB_WRK 00167	GAS CORP mix 00647
BFB 480-730696/3		8260C			1 uL	1 uL			1 uL	
CCVIS 480-730696/4		8260C			5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-730696/6		8260C			5 mL	5 mL		12.5 uL		12.5 uL
MB 480-730696/8		8260C			5 mL	5 mL				
480-224869-H-3	MW-BCP-10A-102420 24	8260C	Water	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	N 8260 IS 00282	N_8260_Surr 00477	AnalysisComment			
BFB 480-730696/3		8260C								
CCVIS 480-730696/4		8260C			1 uL	1 uL				
LCS 480-730696/6		8260C			1 uL	1 uL				
MB 480-730696/8		8260C			1 uL	1 uL				
480-224869-H-3	MW-BCP-10A-102420 24	8260C	Water	T	1 uL	1 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.

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
MW-BCP-09A-10252024	480-224869-1	56	41	77	68	66	40
MW-BCP-10A-10242024	480-224869-3	0 S1-	44	73	71	93	66
MW-BCP-10A-10242024 DL	480-224869-3 DL	0 S1-	0 S1-	129	75	0 S1-	66
MW-BCP-11A-10242024	480-224869-5	63	46	91	82	79	79
MW-BCP-12A-10242024	480-224869-7	61	43	84	78	86	69
MW-BCP-13A-10252024	480-224869-9	0 S1-	0 S1-	0 S1-	74	0 S1-	0 S1-
MW-BCP-13B-10252024	480-224869-10	58	48	61	78	84	51
MW-BCP-13B-10252024 DL	480-224869-10 DL	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
MW-BCP-24A-10252024	480-224869-11	73	55	104	94	86	83
MW-BCP-25A-10252024	480-224869-12	70	53	95	86	84	69
MW-BCP-19B-10252024	480-224869-13	69	51	100	91	97	70
MW-BCP-19B-10252024 DL	480-224869-13 DL	67	49	94	86	83	69
MW-BCP-21A-10252024	480-224869-18	70	52	100	89	93	48
MW-BCP-19A-10252024	480-224869-19	0 S1-	0 S1-	0 S1-	88	0 S1-	58
	MB 480-730138/1-A	56	43	83	70	71	91
	LCS 480-730138/2-A	67	53	91	85	89	93

	QC LIMITS
2FP = 2-Fluorophenol	24-120
PHL = Phenol-d5	10-120
NBZ = Nitrobenzene-d5	29-129
FBP = 2-Fluorobiphenyl	53-126
TBP = 2,4,6-Tribromophenol	25-144
TPHd14 = p-Terphenyl-d14	33-132

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Y04576.D

Lab ID: LCS 480-730138/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Biphenyl	32.0	26.6	83	59-120	
bis (2-chloroisopropyl) ether	32.0	36.3	114	21-136	
2,4,5-Trichlorophenol	32.0	29.7	93	65-126	
2,4,6-Trichlorophenol	32.0	28.2	88	64-120	
2,4-Dichlorophenol	32.0	27.0	84	63-120	
2,4-Dimethylphenol	32.0	30.8	96	47-120	
2,4-Dinitrophenol	64.0	63.2	99	31-137	
2,4-Dinitrotoluene	32.0	31.9	100	69-120	
2,6-Dinitrotoluene	32.0	30.3	95	68-120	
2-Chloronaphthalene	32.0	26.5	83	58-120	
2-Chlorophenol	32.0	26.5	83	48-120	
2-Methylnaphthalene	32.0	25.4	80	59-120	
2-Methylphenol	32.0	27.5	86	39-120	
2-Nitroaniline	32.0	38.6	121	54-127	
2-Nitrophenol	32.0	28.0	88	52-125	
3,3'-Dichlorobenzidine	32.0	22.7	71	49-135	
3-Nitroaniline	32.0	23.7	74	51-120	
4,6-Dinitro-2-methylphenol	64.0	66.1	103	46-136	
4-Bromophenyl phenyl ether	32.0	27.3	85	65-120	
4-Chloro-3-methylphenol	32.0	31.7	99	61-123	
4-Chloroaniline	32.0	18.5	58	30-120	
4-Chlorophenyl phenyl ether	32.0	27.8	87	62-120	
4-Methylphenol	32.0	28.1	88	29-131	
4-Nitroaniline	32.0	29.5	92	65-120	
4-Nitrophenol	64.0	81.5	127	45-120	*+
Acenaphthene	32.0	29.0	91	60-120	
Acenaphthylene	32.0	30.0	94	63-120	
Acetophenone	32.0	30.9	97	45-120	
Anthracene	32.0	32.4	101	67-120	
Atrazine	64.0	73.5	115	71-130	E
Benzaldehyde	64.0	63.8	100	10-140	
Benzo(a)anthracene	32.0	31.8	99	70-121	
Benzo(a)pyrene	32.0	31.1	97	60-123	
Benzo(b)fluoranthene	32.0	30.9	97	66-126	
Benzo(g,h,i)perylene	32.0	32.1	100	66-150	
Benzo(k)fluoranthene	32.0	30.4	95	65-124	
Bis(2-chloroethoxy)methane	32.0	28.1	88	50-128	
Bis(2-chloroethyl)ether	32.0	29.8	93	44-120	
Bis(2-ethylhexyl) phthalate	32.0	38.1	119	63-139	
Butyl benzyl phthalate	32.0	37.8	118	70-129	
Caprolactam	64.0	23.5	37	22-120	
Carbazole	32.0	30.7	96	66-123	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Y04576.D

Lab ID: LCS 480-730138/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chrysene	32.0	31.2	98	69-120	
Di-n-butyl phthalate	32.0	36.7	115	69-131	
Di-n-octyl phthalate	32.0	37.3	116	63-140	
Dibenz(a,h)anthracene	32.0	31.8	99	65-135	
Dibenzofuran	32.0	28.8	90	66-120	
Diethyl phthalate	32.0	36.1	113	59-127	
Dimethyl phthalate	32.0	32.4	101	68-120	
Fluoranthene	32.0	32.1	100	69-126	
Fluorene	32.0	29.1	91	66-120	
Hexachlorobenzene	32.0	28.1	88	61-120	
Hexachlorobutadiene	32.0	19.7	62	35-120	
Hexachlorocyclopentadiene	32.0	10.1	31	31-120	
Hexachloroethane	32.0	25.1	78	33-120	
Indeno(1,2,3-cd)pyrene	32.0	32.2	101	69-146	
Isophorone	32.0	31.7	99	55-120	
N-Nitrosodi-n-propylamine	32.0	32.0	100	32-140	
N-Nitrosodiphenylamine	32.0	30.4	95	61-120	
Naphthalene	32.0	25.2	79	57-120	
Nitrobenzene	32.0	31.0	97	53-123	
Pentachlorophenol	64.0	52.6	82	10-136	
Phenanthrene	32.0	31.8	99	68-120	
Phenol	32.0	18.1	57	17-120	
Pyrene	32.0	33.4	104	70-125	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: Y04575.D Lab Sample ID: MB 480-730138/1-A

Matrix: Water Date Extracted: 10/28/2024 14:16

Instrument ID: HP5973Y Date Analyzed: 10/29/2024 13:06

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-730138/2-A	Y04576.D	10/29/2024 13:33
MW-BCP-09A-10252024	480-224869-1	Y04588.D	10/29/2024 19:01
MW-BCP-10A-10242024	480-224869-3	Y04589.D	10/29/2024 19:29
MW-BCP-11A-10242024	480-224869-5	Y04590.D	10/29/2024 19:56
MW-BCP-12A-10242024	480-224869-7	Y04591.D	10/29/2024 20:23
MW-BCP-13B-10252024	480-224869-10	Y04593.D	10/29/2024 21:18
MW-BCP-24A-10252024	480-224869-11	Y04594.D	10/29/2024 21:45
MW-BCP-25A-10252024	480-224869-12	Y04595.D	10/29/2024 22:13
MW-BCP-19B-10252024	480-224869-13	Y04596.D	10/29/2024 22:40
MW-BCP-21A-10252024	480-224869-18	Y04597.D	10/29/2024 23:07
MW-BCP-10A-10242024 DL	480-224869-3 DL	Y04604.D	10/30/2024 11:12
MW-BCP-13A-10252024	480-224869-9	Y04605.D	10/30/2024 11:40
MW-BCP-19B-10252024 DL	480-224869-13 DL	Y04606.D	10/30/2024 12:07
MW-BCP-19A-10252024	480-224869-19	Y04607.D	10/30/2024 12:34
MW-BCP-13B-10252024 DL	480-224869-10 DL	Y04614.D	10/30/2024 15:46

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: Y04074.D DFTPP Injection Date: 10/10/2024

Instrument ID: HP5973Y DFTPP Injection Time: 14:20

Analysis Batch No.: 727763

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	39.8	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	42.0	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	47.8	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	28.1	
365	Greater than 1% of mass 198	3.6	
441	present but less than 24% of mass 442	14.3	(16.6) 2
442	Greater than 50% of mass 198	86.3	
443	15-24% of mass 442	17.9	(20.7) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-727763/3	Y04075.D	10/10/2024	14:47
	IC 480-727763/4	Y04076.D	10/10/2024	15:14
	IC 480-727763/5	Y04077.D	10/10/2024	15:42
	IC 480-727763/6	Y04078.D	10/10/2024	16:10
	ICIS 480-727763/7	Y04079.D	10/10/2024	16:37
	IC 480-727763/8	Y04080.D	10/10/2024	17:05
	IC 480-727763/9	Y04081.D	10/10/2024	17:32
	IC 480-727763/10	Y04082.D	10/10/2024	18:00
	ICV 480-727763/11	Y04083.D	10/10/2024	18:27

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: Y04571.D DFTPP Injection Date: 10/29/2024

Instrument ID: HP5973Y DFTPP Injection Time: 11:16

Analysis Batch No.: 730212

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	70.7
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	64.3
70	Less than 2% of mass 69	0.3 (0.5) 1
127	10-80% of Base Peak	63.0
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	7.0
275	10-60% of Base Peak	28.0
365	Greater than 1% of mass 198	5.4
441	present but less than 24% of mass 442	12.4 (16.2) 2
442	Greater than 50% of mass 198	76.7
443	15-24% of mass 442	15.2 (19.8) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-730212/3	Y04572.D	10/29/2024	11:44
	MB 480-730138/1-A	Y04575.D	10/29/2024	13:06
	LCS 480-730138/2-A	Y04576.D	10/29/2024	13:33
MW-BCP-09A-10252024	480-224869-1	Y04588.D	10/29/2024	19:01
MW-BCP-10A-10242024	480-224869-3	Y04589.D	10/29/2024	19:29
MW-BCP-11A-10242024	480-224869-5	Y04590.D	10/29/2024	19:56
MW-BCP-12A-10242024	480-224869-7	Y04591.D	10/29/2024	20:23
MW-BCP-13B-10252024	480-224869-10	Y04593.D	10/29/2024	21:18
MW-BCP-24A-10252024	480-224869-11	Y04594.D	10/29/2024	21:45
MW-BCP-25A-10252024	480-224869-12	Y04595.D	10/29/2024	22:13
MW-BCP-19B-10252024	480-224869-13	Y04596.D	10/29/2024	22:40
MW-BCP-21A-10252024	480-224869-18	Y04597.D	10/29/2024	23:07

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: Y04601.D DFTPP Injection Date: 10/30/2024

Instrument ID: HP5973Y DFTPP Injection Time: 09:51

Analysis Batch No.: 730403

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	67.3
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	57.5
70	Less than 2% of mass 69	0.4 (0.6) 1
127	10-80% of Base Peak	59.5
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	7.0
275	10-60% of Base Peak	28.4
365	Greater than 1% of mass 198	6.5
441	present but less than 24% of mass 442	15.0 (17.5) 2
442	Greater than 50% of mass 198	85.4
443	15-24% of mass 442	18.6 (21.8) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-730403/3	Y04602.D	10/30/2024	10:18
MW-BCP-10A-10242024 DL	480-224869-3 DL	Y04604.D	10/30/2024	11:12
MW-BCP-13A-10252024	480-224869-9	Y04605.D	10/30/2024	11:40
MW-BCP-19B-10252024 DL	480-224869-13 DL	Y04606.D	10/30/2024	12:07
MW-BCP-19A-10252024	480-224869-19	Y04607.D	10/30/2024	12:34
MW-BCP-13B-10252024 DL	480-224869-10 DL	Y04614.D	10/30/2024	15:46

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: ICIS 480-727763/7 Date Analyzed: 10/10/2024 16:37

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y04079.D Heated Purge: (Y/N) N

Calibration ID: 47387

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		213896	6.02	773798	7.22	455089	8.78
UPPER LIMIT		427792	6.52	1547596	7.72	910178	9.28
LOWER LIMIT		106948	5.52	386899	6.72	227545	8.28
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-727763/11		197997	6.02	729067	7.22	430428	8.78
CCVIS 480-730212/3		175464	5.89	686874	7.09	395738	8.65
CCVIS 480-730403/3		153871	5.88	563716	7.09	329934	8.65

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: ICIS 480-727763/7 Date Analyzed: 10/10/2024 16:37

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y04079.D Heated Purge: (Y/N) N

Calibration ID: 47387

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		755758	10.06	695335	12.95	758890	14.66
UPPER LIMIT		1511516	10.56	1390670	13.45	1517780	15.16
LOWER LIMIT		377879	9.56	347668	12.45	379445	14.16
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-727763/11		722244	10.05	659917	12.94	725946	14.66
CCVIS 480-730212/3		671113	9.93	562758	12.77	639845	14.46
CCVIS 480-730403/3		565127	9.93	468318	12.78	537948	14.46

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: CCVIS 480-730212/3 Date Analyzed: 10/29/2024 11:44

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y04572.D Heated Purge: (Y/N) N

Calibration ID: 47393

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		175464	5.89	686874	7.09	395738	8.65
UPPER LIMIT		350928	6.39	1373748	7.59	791476	9.15
LOWER LIMIT		87732	5.39	343437	6.59	197869	8.15
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-730138/1-A		174744	5.89	654428	7.09	374380	8.65
LCS 480-730138/2-A		174253	5.89	656574	7.09	379955	8.65
480-224869-1	MW-BCP-09A-10252024	162844	5.89	605409	7.09	332522	8.65
480-224869-3	MW-BCP-10A-10242024	168787	5.89	704460	7.10	379486	8.65
480-224869-5	MW-BCP-11A-10242024	162319	5.89	604078	7.09	349640	8.65
480-224869-7	MW-BCP-12A-10242024	162631	5.89	615840	7.09	350501	8.65
480-224869-10	MW-BCP-13B-10252024	170437	5.89	929237	7.13	370485	8.65
480-224869-11	MW-BCP-24A-10252024	164815	5.89	611843	7.09	343501	8.65
480-224869-12	MW-BCP-25A-10252024	162551	5.89	611626	7.08	342410	8.65
480-224869-13	MW-BCP-19B-10252024	163000	5.89	610447	7.09	347940	8.65
480-224869-18	MW-BCP-21A-10252024	166540	5.89	603903	7.09	344558	8.65

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: CCVIS 480-730212/3 Date Analyzed: 10/29/2024 11:44

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y04572.D Heated Purge: (Y/N) N

Calibration ID: 47393

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		671113	9.93	562758	12.77	639845	14.46
UPPER LIMIT		1342226	10.43	1125516	13.27	1279690	14.96
LOWER LIMIT		335557	9.43	281379	12.27	319923	13.96
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-730138/1-A		601911	9.92	508252	12.77	581726	14.46
LCS 480-730138/2-A		643789	9.93	555925	12.78	607785	14.47
480-224869-1	MW-BCP-09A-10252024	609672	9.92	513065	12.77	562087	14.46
480-224869-3	MW-BCP-10A-10242024	619131	9.92	535337	12.78	593065	14.47
480-224869-5	MW-BCP-11A-10242024	591859	9.92	494590	12.77	548241	14.46
480-224869-7	MW-BCP-12A-10242024	606653	9.93	520031	12.77	589136	14.47
480-224869-10	MW-BCP-13B-10252024	637231	9.92	544295	12.77	610821	14.46
480-224869-11	MW-BCP-24A-10252024	608481	9.92	488725	12.77	564966	14.46
480-224869-12	MW-BCP-25A-10252024	598636	9.92	496149	12.78	566199	14.46
480-224869-13	MW-BCP-19B-10252024	594796	9.93	521486	12.78	575292	14.47
480-224869-18	MW-BCP-21A-10252024	600706	9.92	510087	12.77	595588	14.47

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: CCVIS 480-730403/3 Date Analyzed: 10/30/2024 10:18

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y04602.D Heated Purge: (Y/N) N

Calibration ID: 47393

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		153871	5.88	563716	7.09	329934	8.65
UPPER LIMIT		307742	6.38	1127432	7.59	659868	9.15
LOWER LIMIT		76936	5.38	281858	6.59	164967	8.15
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-224869-3 DL	MW-BCP-10A-10242024 DL	152823	5.89	584265	7.09	323918	8.65
480-224869-9	MW-BCP-13A-10252024	151473	5.89	592087	7.09	327316	8.65
480-224869-13 DL	MW-BCP-19B-10252024 DL	152701	5.89	578547	7.09	328376	8.65
480-224869-19	MW-BCP-19A-10252024	149305	5.89	580517	7.09	313224	8.65
480-224869-10 DL	MW-BCP-13B-10252024 DL	152688	5.89	569595	7.09	325934	8.65

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: CCVIS 480-730403/3 Date Analyzed: 10/30/2024 10:18

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y04602.D Heated Purge: (Y/N) N

Calibration ID: 47393

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		565127	9.93	468318	12.78	537948	14.46
UPPER LIMIT		1130254	10.43	936636	13.28	1075896	14.96
LOWER LIMIT		282564	9.43	234159	12.28	268974	13.96
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-224869-3 DL	MW-BCP-10A-10242024 DL	552317	9.92	447683	12.78	506286	14.46
480-224869-9	MW-BCP-13A-10252024	566110	9.92	445952	12.78	521236	14.46
480-224869-13 DL	MW-BCP-19B-10252024 DL	513338	9.92	456316	12.77	509986	14.46
480-224869-19	MW-BCP-19A-10252024	551205	9.92	448752	12.77	508008	14.46
480-224869-10 DL	MW-BCP-13B-10252024 DL	499406	9.92	442099	12.77	508795	14.46

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-09A-10252024 | Lab Sample ID: 480-224869-1

Matrix: Water | Lab File ID: Y04588.D

Analysis Method: 8270D | Date Collected: 10/25/2024 16:30

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 19:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.2	0.68
108-60-1	bis (2-chloroisopropyl) ether	ND		5.2	0.54
95-95-4	2,4,5-Trichlorophenol	ND		5.2	0.50
88-06-2	2,4,6-Trichlorophenol	ND		5.2	0.64
120-83-2	2,4-Dichlorophenol	ND		5.2	0.53
105-67-9	2,4-Dimethylphenol	ND		5.2	0.52
51-28-5	2,4-Dinitrophenol	ND		10	2.3
121-14-2	2,4-Dinitrotoluene	ND		5.2	0.47
606-20-2	2,6-Dinitrotoluene	ND		5.2	0.42
91-58-7	2-Chloronaphthalene	ND		5.2	0.48
95-57-8	2-Chlorophenol	ND		5.2	0.55
91-57-6	2-Methylnaphthalene	ND		5.2	0.63
95-48-7	2-Methylphenol	ND		5.2	0.42
88-74-4	2-Nitroaniline	ND		10	0.44
88-75-5	2-Nitrophenol	ND		5.2	0.50
91-94-1	3,3'-Dichlorobenzidine	ND		5.2	0.42
99-09-2	3-Nitroaniline	ND		10	0.50
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.3
101-55-3	4-Bromophenyl phenyl ether	ND		5.2	0.47
59-50-7	4-Chloro-3-methylphenol	ND		5.2	0.47
106-47-8	4-Chloroaniline	ND		5.2	0.61
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.2	0.36
106-44-5	4-Methylphenol	ND		10	0.38
100-01-6	4-Nitroaniline	ND		10	0.26
100-02-7	4-Nitrophenol	ND	*+	10	1.6
83-32-9	Acenaphthene	ND		5.2	0.43
208-96-8	Acenaphthylene	ND		5.2	0.40
98-86-2	Acetophenone	ND		5.2	0.56
120-12-7	Anthracene	ND		5.2	0.29
1912-24-9	Atrazine	ND		5.2	0.48
100-52-7	Benzaldehyde	ND		5.2	0.28

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-09A-10252024 | Lab Sample ID: 480-224869-1

Matrix: Water | Lab File ID: Y04588.D

Analysis Method: 8270D | Date Collected: 10/25/2024 16:30

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 19:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		5.2	0.38
50-32-8	Benzo(a)pyrene	ND		5.2	0.49
205-99-2	Benzo(b)fluoranthene	ND		5.2	0.35
191-24-2	Benzo(g,h,i)perylene	ND		5.2	0.36
207-08-9	Benzo(k)fluoranthene	ND		5.2	0.76
111-91-1	Bis(2-chloroethoxy)methane	ND		5.2	0.36
111-44-4	Bis(2-chloroethyl)ether	ND		5.2	0.42
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.2	2.3
85-68-7	Butyl benzyl phthalate	ND		5.2	1.0
105-60-2	Caprolactam	ND		5.2	2.3
86-74-8	Carbazole	ND		5.2	0.31
218-01-9	Chrysene	ND		5.2	0.34
84-74-2	Di-n-butyl phthalate	ND		5.2	0.32
117-84-0	Di-n-octyl phthalate	ND		5.2	0.49
53-70-3	Dibenz(a,h)anthracene	ND		5.2	0.44
132-64-9	Dibenzofuran	ND		10	0.53
84-66-2	Diethyl phthalate	ND		5.2	0.23
131-11-3	Dimethyl phthalate	ND		5.2	0.38
206-44-0	Fluoranthene	ND		5.2	0.42
86-73-7	Fluorene	ND		5.2	0.38
118-74-1	Hexachlorobenzene	ND		5.2	0.53
87-68-3	Hexachlorobutadiene	ND		5.2	0.71
77-47-4	Hexachlorocyclopentadiene	ND		5.2	0.61
67-72-1	Hexachloroethane	ND		5.2	0.61
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.2	0.49
78-59-1	Isophorone	ND		5.2	0.45
621-64-7	N-Nitrosodi-n-propylamine	ND		5.2	0.56
86-30-6	N-Nitrosodiphenylamine	ND		5.2	0.53
91-20-3	Naphthalene	ND		5.2	0.79
98-95-3	Nitrobenzene	ND		5.2	0.30
87-86-5	Pentachlorophenol	ND		10	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-09A-10252024 | Lab Sample ID: 480-224869-1

Matrix: Water | Lab File ID: Y04588.D

Analysis Method: 8270D | Date Collected: 10/25/2024 16:30

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 19:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		5.2	0.46
108-95-2	Phenol	ND		5.2	0.41
129-00-0	Pyrene	ND		5.2	0.35

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	66		25-144
321-60-8	2-Fluorobiphenyl	68		53-126
367-12-4	2-Fluorophenol	56		24-120
4165-60-0	Nitrobenzene-d5	77		29-129
1718-51-0	p-Terphenyl-d14	40		33-132
4165-62-2	Phenol-d5	41		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D
Lims ID: 480-224869-B-1-A
Client ID: MW-BCP-09A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 19:01:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-019
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:04:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.000	95	162844	4.00	
* 2 Naphthalene-d8	136	7.089	7.089	0.000	99	605409	4.00	
* 3 Acenaphthene-d10	164	8.648	8.648	0.000	95	332522	4.00	
* 4 Phenanthrene-d10	188	9.923	9.929	-0.006	97	609672	4.00	
* 5 Chrysene-d12	240	12.774	12.774	0.000	99	513065	4.00	
* 6 Perylene-d12	264	14.463	14.463	0.000	97	562087	4.00	
$ 7 2-Fluorophenol	112	4.671	4.644	0.030	92	226742	4.52	
$ 8 Phenol-d5	99	5.530	5.527	0.006	88	203545	3.28	
$ 9 Nitrobenzene-d5	82	6.413	6.410	-0.001	96	359255	6.18	
$ 10 2-Fluorobiphenyl	172	8.038	8.040	0.000	99	620451	5.43	
$ 11 2,4,6-Tribromophenol	330	9.330	9.327	0.000	83	78965	5.25	
$ 12 p-Terphenyl-d14	244	11.482	11.484	0.000	97	449487	3.23	
35 Benzaldehyde	77		5.471				ND	
37 Phenol	94		5.536				ND	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108		6.111				ND	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108		6.254				ND	
52 Acetophenone	105		6.265				ND	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107		6.751				ND	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.107	7.113	0.000	92	5263	0.0329	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113	7.457	7.462	-0.006	71	1197	0.1482	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142		7.730				ND	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154		8.133				ND	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152		8.530				ND	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153		8.678				ND	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	
115 Dibenzofuran	168		8.826				ND	
120 Diethyl phthalate	149	8.962	8.968	-0.006	68	2139	0.0205	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166		9.123				ND	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.946	9.946	-0.001	89	3870	0.0230	
152 Anthracene	178		9.988				ND	
153 Carbazole	167		10.118				ND	
157 Di-n-butyl phthalate	149	10.355	10.352	-0.001	97	7950	0.0412	
164 Fluoranthene	202	11.108	11.104	0.000	74	4659	0.0260	
167 Pyrene	202	11.369	11.366	0.000	94	3833	0.0223	
174 Butyl benzyl phthalate	149	12.009	12.012	0.000	91	4625	0.1453	
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228		12.762				ND	
182 Chrysene	228		12.810				ND	
184 Di-n-octyl phthalate	149		13.420				ND	U
186 Benzo[b]fluoranthene	252		14.007				ND	
187 Benzo[k]fluoranthene	252		14.037				ND	
189 Benzo[a]pyrene	252	14.404	14.401	0.006	57	1932	0.0346	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.945				ND	
195 Benzo[g,h,i]perylene	276		16.396				ND	

QC Flag Legend

Processing Flags

Review Flags
U - Marked Undetected

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

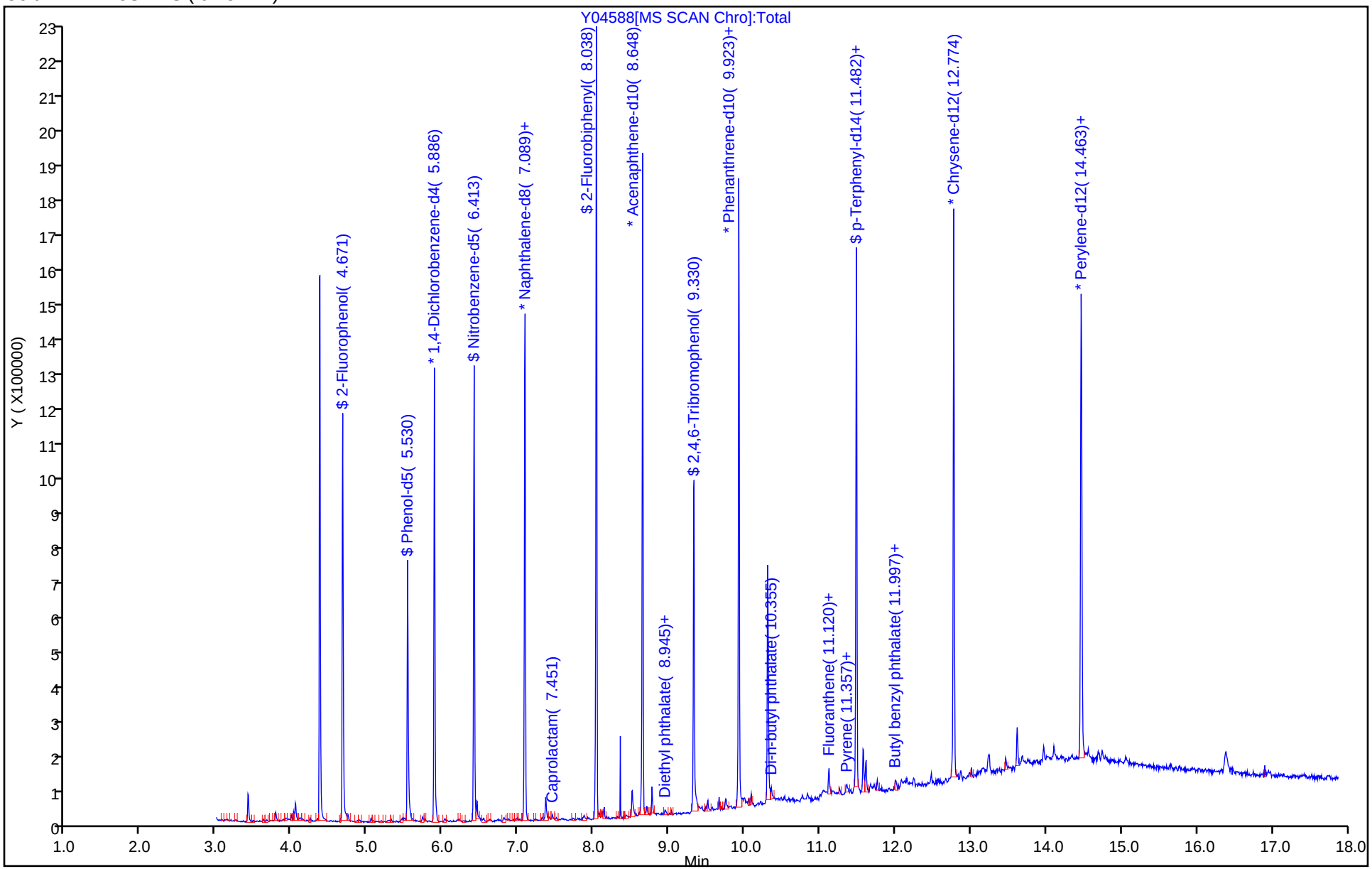
Report Date: 30-Oct-2024 15:16:58 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D

Injection Date:	29-Oct-2024 19:01:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-1-A	Lab Sample ID:	480-224869-1	Worklist Smp#:	19
Client ID:	MW-BCP-09A-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D
Lims ID: 480-224869-B-1-A
Client ID: MW-BCP-09A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 19:01:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-019
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:04:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	4.52	56.49
$ 8 Phenol-d5	8.00	3.28	41.04
$ 9 Nitrobenzene-d5	8.00	6.18	77.19
$ 10 2-Fluorobiphenyl	8.00	5.43	67.86
$ 11 2,4,6-Tribromophenol	8.00	5.25	65.68
$ 12 p-Terphenyl-d14	8.00	3.23	40.40

Manual Integration/User Assign Peak Report

Eurofins Buffalo

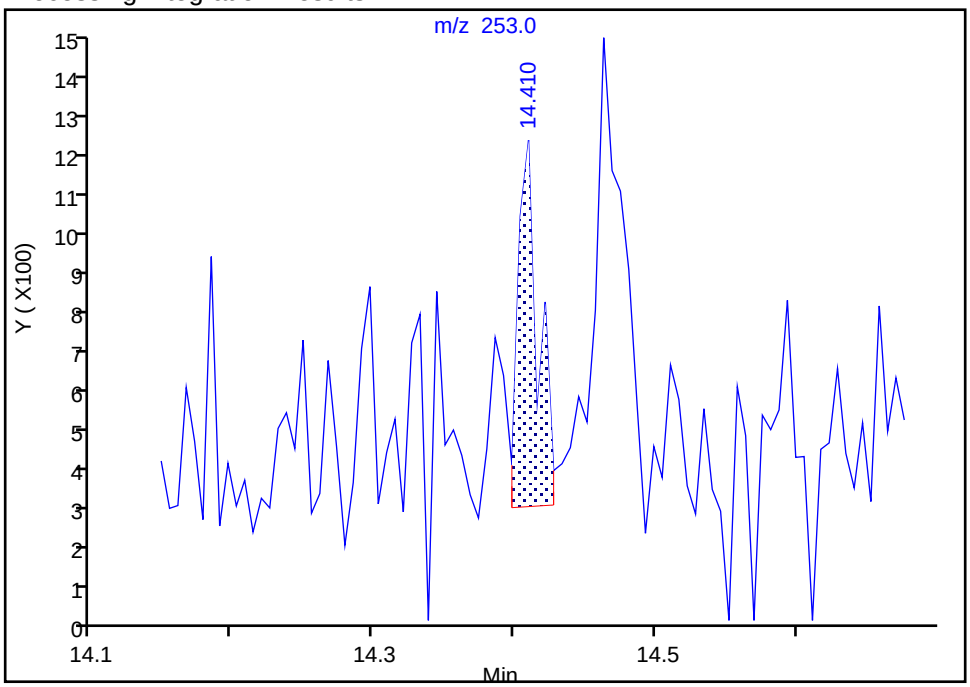
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D				
Injection Date:	29-Oct-2024 19:01:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-1-A	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	JM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

189 Benzo[a]pyrene, CAS: 50-32-8

Signal: 2

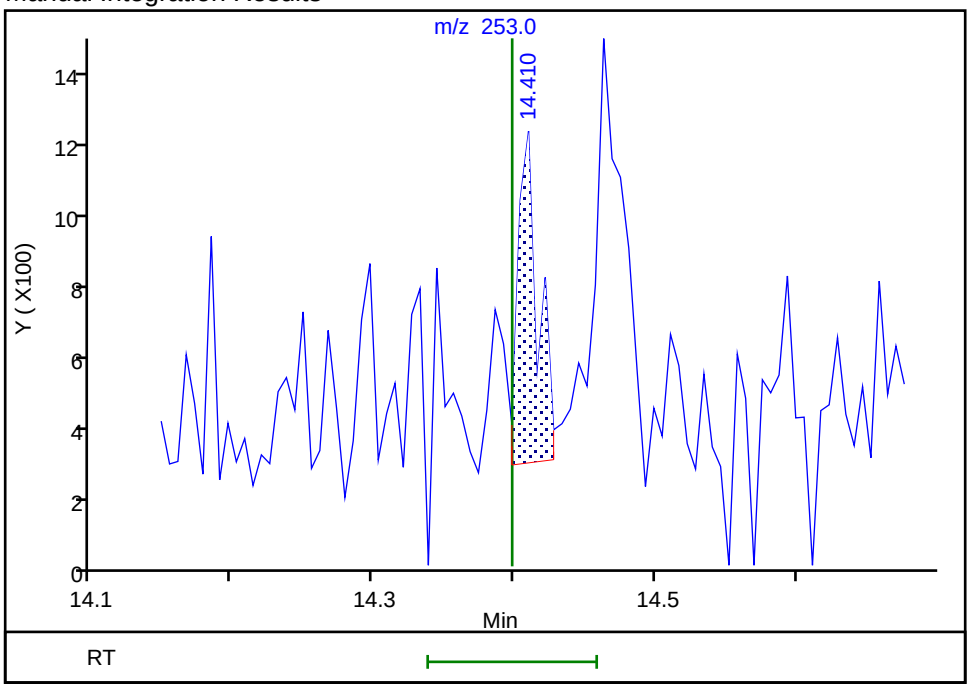
Processing Integration Results

RT: 14.41
Area: 914
Amount: 0.034550
Amount Units: ng/uL



Manual Integration Results

RT: 14.41
Area: 914
Amount: 0.034550
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:04:31 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

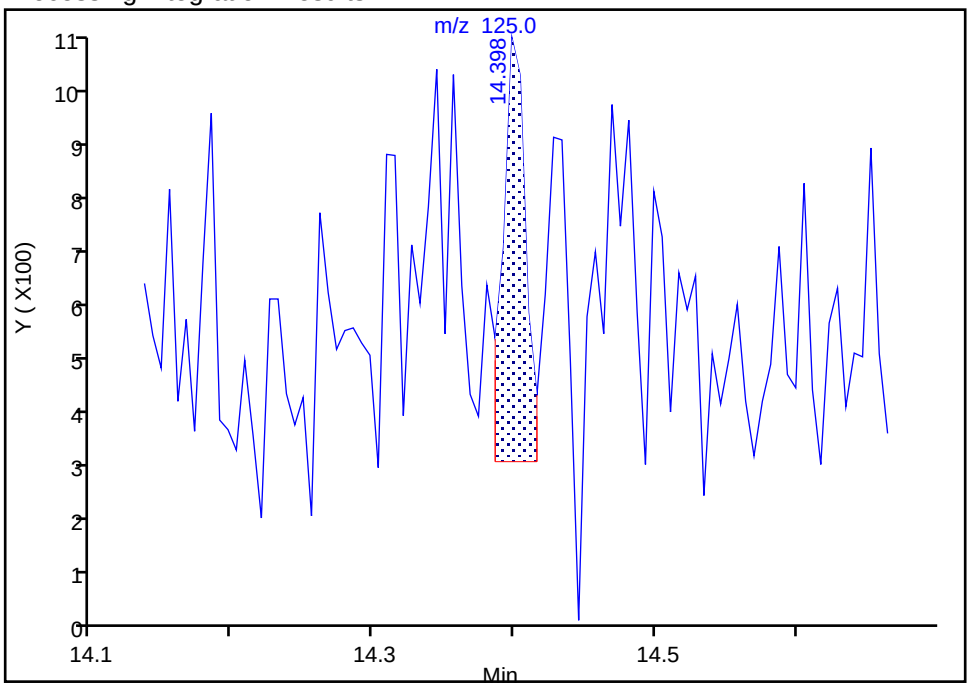
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D				
Injection Date:	29-Oct-2024 19:01:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-1-A	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	JM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

189 Benzo[a]pyrene, CAS: 50-32-8

Signal: 3

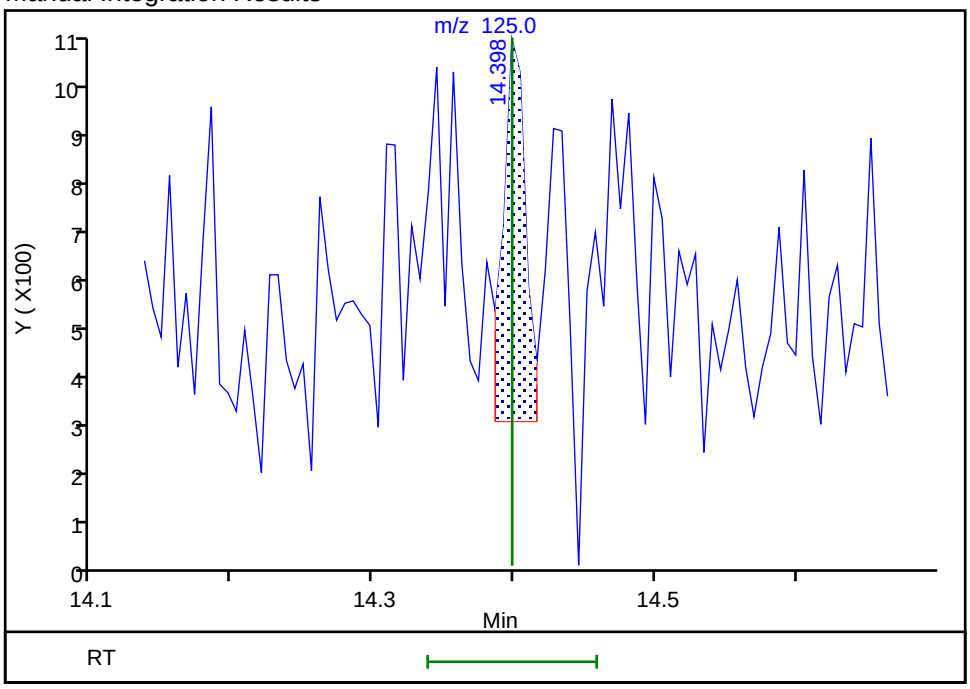
Processing Integration Results

RT: 14.40
Area: 904
Amount: 0.034550
Amount Units: ng/uL



Manual Integration Results

RT: 14.40
Area: 904
Amount: 0.034550
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:04:31 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

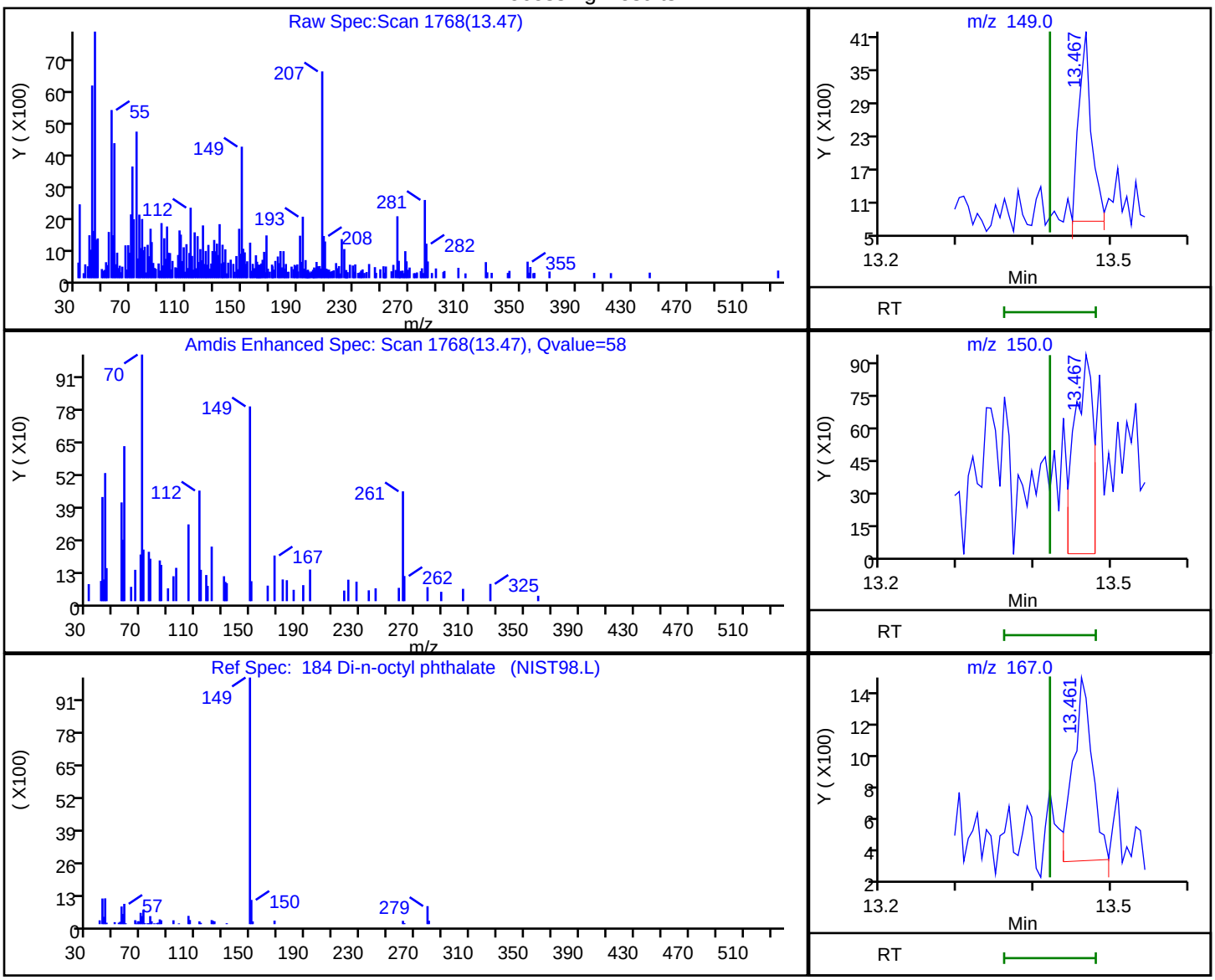
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D				
Injection Date:	29-Oct-2024 19:01:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-1-A	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	JM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

184 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
13.47	149.00	3828	0.099530
13.47	150.00	1610	
13.46	167.00	2019	

Reviewer: IZ8L, 30-Oct-2024 15:04:28 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

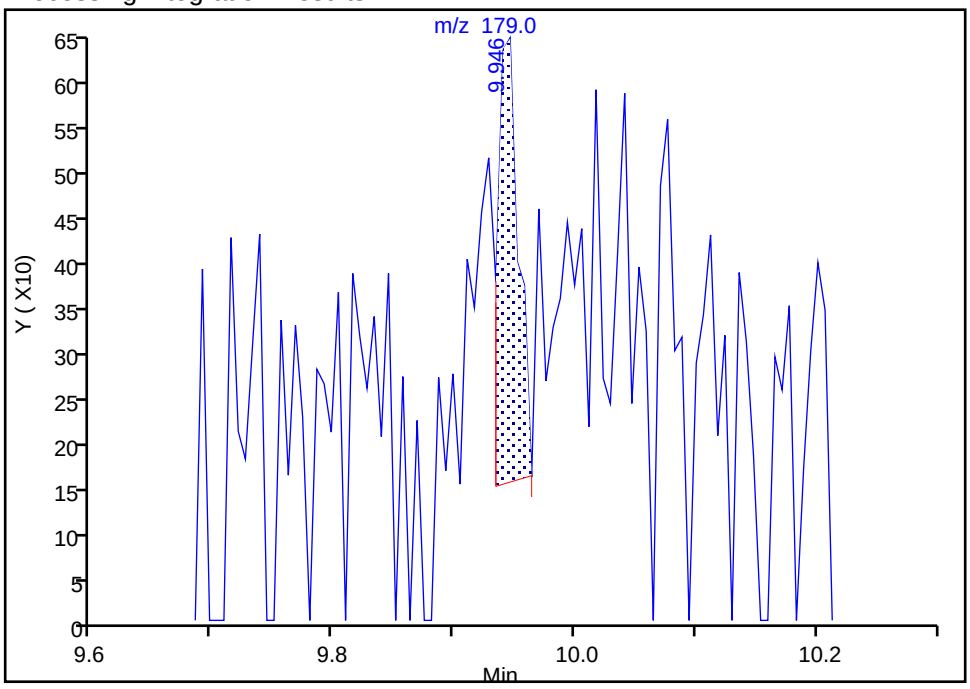
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D				
Injection Date:	29-Oct-2024 19:01:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-1-A	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	JM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

151 Phenanthrene, CAS: 85-01-8

Signal: 2

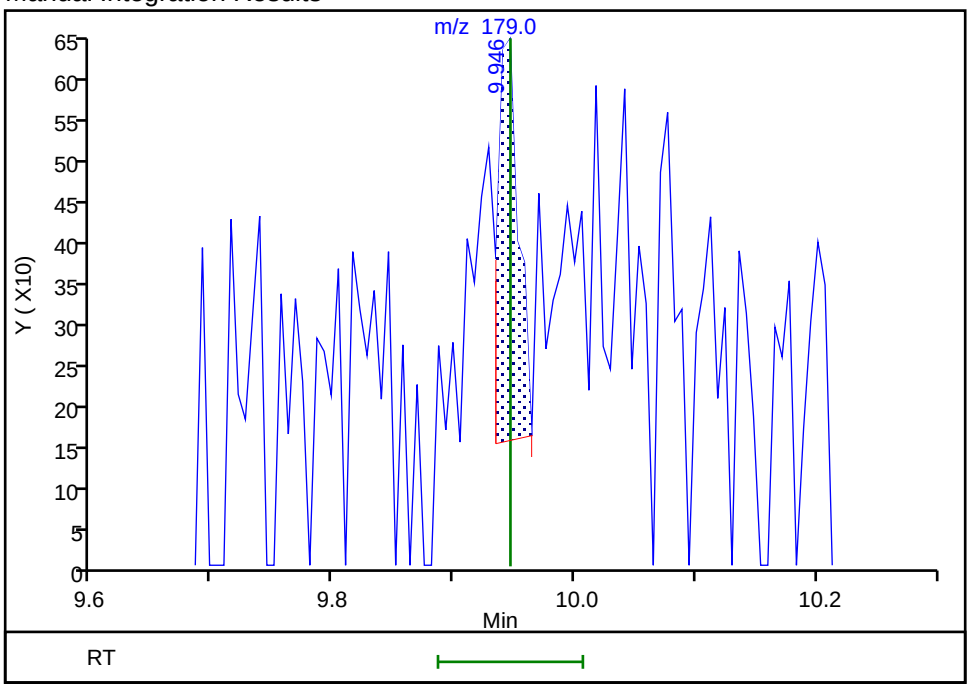
Processing Integration Results

RT: 9.95
Area: 592
Amount: 0.022962
Amount Units: ng/uL



Manual Integration Results

RT: 9.95
Area: 592
Amount: 0.022962
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:04:22 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

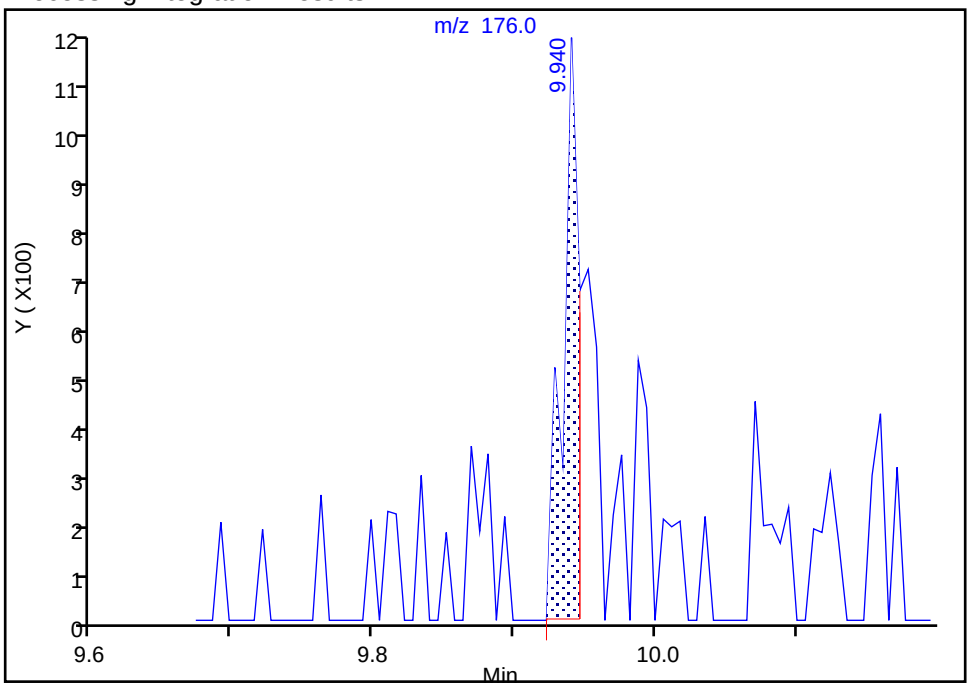
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D				
Injection Date:	29-Oct-2024 19:01:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-1-A	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	JM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

151 Phenanthrene, CAS: 85-01-8

Signal: 3

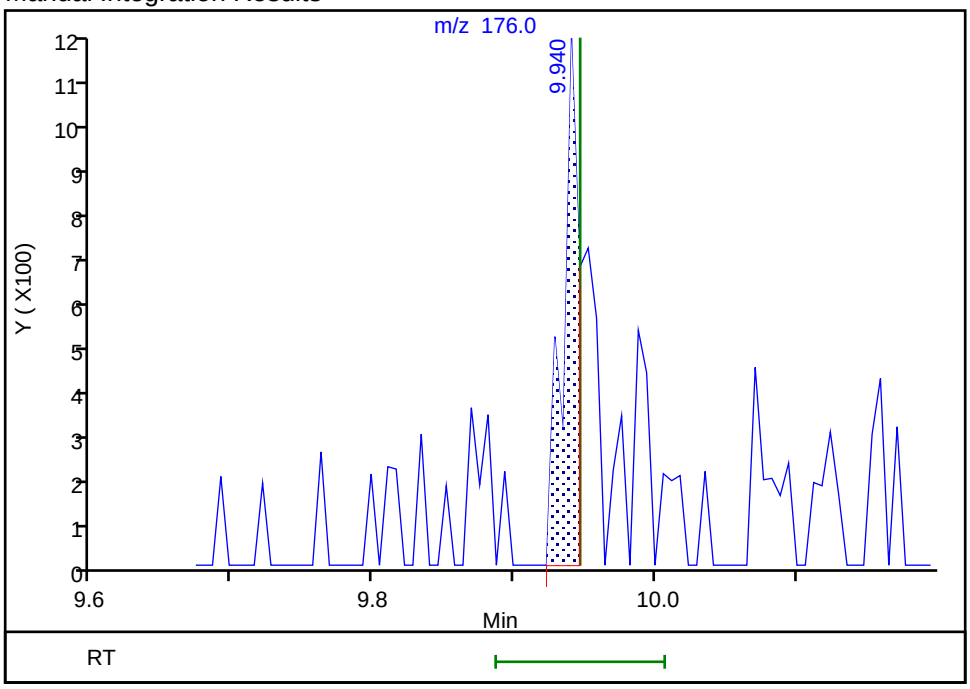
Processing Integration Results

RT: 9.94
Area: 908
Amount: 0.022962
Amount Units: ng/uL



Manual Integration Results

RT: 9.94
Area: 908
Amount: 0.022962
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:04:22 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 | Lab Sample ID: 480-224869-3

Matrix: Water | Lab File ID: Y04589.D

Analysis Method: 8270D | Date Collected: 10/24/2024 10:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 50(mL) | Date Analyzed: 10/29/2024 19:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	86	J	250	33
108-60-1	bis (2-chloroisopropyl) ether	ND		250	26
95-95-4	2,4,5-Trichlorophenol	ND		250	24
88-06-2	2,4,6-Trichlorophenol	ND		250	31
120-83-2	2,4-Dichlorophenol	ND		250	26
105-67-9	*2,4-Dimethylphenol*	*5300*	*E*	*250*	*25*
51-28-5	2,4-Dinitrophenol	ND		500	110
121-14-2	2,4-Dinitrotoluene	ND		250	22
606-20-2	2,6-Dinitrotoluene	ND		250	20
91-58-7	2-Chloronaphthalene	ND		250	23
95-57-8	2-Chlorophenol	ND		250	27
91-57-6	2-Methylnaphthalene	1000		250	30
95-48-7	*2-Methylphenol*	*6500*	*E*	*250*	*20*
88-74-4	2-Nitroaniline	ND		500	21
88-75-5	2-Nitrophenol	ND		250	24
91-94-1	3,3'-Dichlorobenzidine	ND		250	20
99-09-2	3-Nitroaniline	ND		500	24
534-52-1	4,6-Dinitro-2-methylphenol	ND		500	110
101-55-3	4-Bromophenyl phenyl ether	ND		250	23
59-50-7	4-Chloro-3-methylphenol	ND		250	23
106-47-8	4-Chloroaniline	ND		250	30
7005-72-3	4-Chlorophenyl phenyl ether	ND		250	18
106-44-5	*4-Methylphenol*	*7500*	*E*	*500*	*18*
100-01-6	4-Nitroaniline	ND		500	13
100-02-7	4-Nitrophenol	ND	*+	500	76
83-32-9	Acenaphthene	40	J	250	21
208-96-8	Acenaphthylene	720		250	19
98-86-2	Acetophenone	ND		250	27
120-12-7	Anthracene	100	J	250	14
1912-24-9	Atrazine	ND		250	23
100-52-7	Benzaldehyde	ND		250	13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 | Lab Sample ID: 480-224869-3

Matrix: Water | Lab File ID: Y04589.D

Analysis Method: 8270D | Date Collected: 10/24/2024 10:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 50(mL) | Date Analyzed: 10/29/2024 19:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	73	J	250	18
50-32-8	Benzo(a)pyrene	49	J	250	24
205-99-2	Benzo(b)fluoranthene	62	J	250	17
191-24-2	Benzo(g,h,i)perylene	25	J	250	18
207-08-9	Benzo(k)fluoranthene	ND		250	37
111-91-1	Bis(2-chloroethoxy)methane	ND		250	18
111-44-4	Bis(2-chloroethyl)ether	ND		250	20
117-81-7	Bis(2-ethylhexyl) phthalate	ND		250	110
85-68-7	Butyl benzyl phthalate	ND		250	50
105-60-2	Caprolactam	ND		250	110
86-74-8	Carbazole	530		250	15
218-01-9	Chrysene	68	J	250	17
84-74-2	Di-n-butyl phthalate	ND		250	16
117-84-0	Di-n-octyl phthalate	ND		250	24
53-70-3	Dibenz(a,h)anthracene	ND		250	21
132-64-9	Dibenzofuran	210	J	500	26
84-66-2	Diethyl phthalate	ND		250	11
131-11-3	Dimethyl phthalate	ND		250	18
206-44-0	Fluoranthene	190	J	250	20
86-73-7	Fluorene	280		250	18
118-74-1	Hexachlorobenzene	ND		250	26
87-68-3	Hexachlorobutadiene	ND		250	34
77-47-4	Hexachlorocyclopentadiene	ND		250	30
67-72-1	Hexachloroethane	ND		250	30
193-39-5	Indeno(1,2,3-cd)pyrene	24	J	250	24
78-59-1	Isophorone	ND		250	22
621-64-7	N-Nitrosodi-n-propylamine	ND		250	27
86-30-6	N-Nitrosodiphenylamine	ND		250	26
91-20-3	*Naphthalene*	*13000*	*E*	*250*	*38*
98-95-3	Nitrobenzene	ND		250	15
87-86-5	Pentachlorophenol	ND		500	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 | Lab Sample ID: 480-224869-3

Matrix: Water | Lab File ID: Y04589.D

Analysis Method: 8270D | Date Collected: 10/24/2024 10:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 50(mL) | Date Analyzed: 10/29/2024 19:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	420		250	22
108-95-2	Phenol	3100		250	20
129-00-0	Pyrene	130	J	250	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	93		25-144
321-60-8	2-Fluorobiphenyl	71		53-126
367-12-4	2-Fluorophenol	0	S1-	24-120
4165-60-0	Nitrobenzene-d5	73		29-129
1718-51-0	p-Terphenyl-d14	66		33-132
4165-62-2	Phenol-d5	44		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D
Lims ID: 480-224869-B-3-A
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 29-Oct-2024 19:29:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 480-0120882-020
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 08:00:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.887	5.886	0.001	96	168787	4.00	
* 2 Naphthalene-d8	136	7.097	7.089	0.008	99	704460	4.00	
* 3 Acenaphthene-d10	164	8.650	8.648	0.002	93	379486	4.00	
* 4 Phenanthrene-d10	188	9.924	9.929	-0.005	98	619131	4.00	
* 5 Chrysene-d12	240	12.775	12.774	0.001	99	535337	4.00	
* 6 Perylene-d12	264	14.465	14.463	0.002	97	593065	4.00	
$ 7 2-Fluorophenol	112		4.641				ND	
$ 8 Phenol-d5	99	5.526	5.527	0.002	86	22500	0.3502	
$ 9 Nitrobenzene-d5	82	6.415	6.410	0.001	96	36431	0.5819	
$ 10 2-Fluorobiphenyl	172	8.033	8.040	-0.005	97	74223	0.5691	
$ 11 2,4,6-Tribromophenol	330	9.331	9.327	0.001	86	9043	0.7472	
$ 12 p-Terphenyl-d14	244	11.483	11.484	0.001	97	76704	0.5286	
35 Benzaldehyde	77		5.471				ND	U
37 Phenol	94	5.538	5.538	0.002	93	1002331	15.3	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108	6.113	6.111	0.002	96	1613819	32.6	E
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.261	6.314	0.007	84	1942503	37.7	E
52 Acetophenone	105		6.265				ND	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107	6.759	6.751	0.008	95	1612881	26.3	E
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.114	7.113	0.007	97	11799015	63.4	Ee
76 4-Chloroaniline	127		7.149				ND	U
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113		7.463				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	U
87 2-Methylnaphthalene	142	7.731	7.726	0.001	90	601791	5.24	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154	8.128	8.132	-0.005	98	59938	0.4305	
97 2-Chloronaphthalene	162		8.162				ND	U
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152	8.531	8.532	0.001	98	606975	3.61	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153	8.679	8.675	0.001	95	22719	0.2019	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	U
115 Dibenzofuran	168	8.822	8.829	-0.004	95	160135	1.05	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166	9.118	9.125	-0.005	95	176786	1.39	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	U
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.948	9.946	0.001	98	363437	2.12	
152 Anthracene	178	9.989	10.001	0.001	95	87638	0.5117	a
153 Carbazole	167	10.120	10.149	0.002	97	406150	2.67	
157 Di-n-butyl phthalate	149		10.356				ND	
164 Fluoranthene	202	11.110	11.104	0.002	98	176739	0.9727	
167 Pyrene	202	11.371	11.366	0.002	97	117974	0.6580	
174 Butyl benzyl phthalate	149		12.009				ND	U
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228	12.758	12.764	-0.004	99	66447	0.3625	
182 Chrysene	228	12.805	12.809	-0.005	97	57357	0.3425	
184 Di-n-octyl phthalate	149		13.420				ND	
186 Benzo[b]fluoranthene	252	14.014	14.019	0.007	97	55409	0.3109	
187 Benzo[k]fluoranthene	252	14.038	14.037	0.001	90	24413	0.1284	Ma
189 Benzo[a]pyrene	252	14.400	14.401	0.002	80	38037	0.2468	
194 Dibenz(a,h)anthracene	278	15.935	15.941	-0.004	83	8808	0.0748	
193 Indeno[1,2,3-cd]pyrene	276	15.953	15.942	0.008	93	20927	0.1204	
195 Benzo[g,h,i]perylene	276	16.403	16.417	0.007	94	17776	0.1254	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284	Amount Added:	20.00	Units: uL	Run Reagent

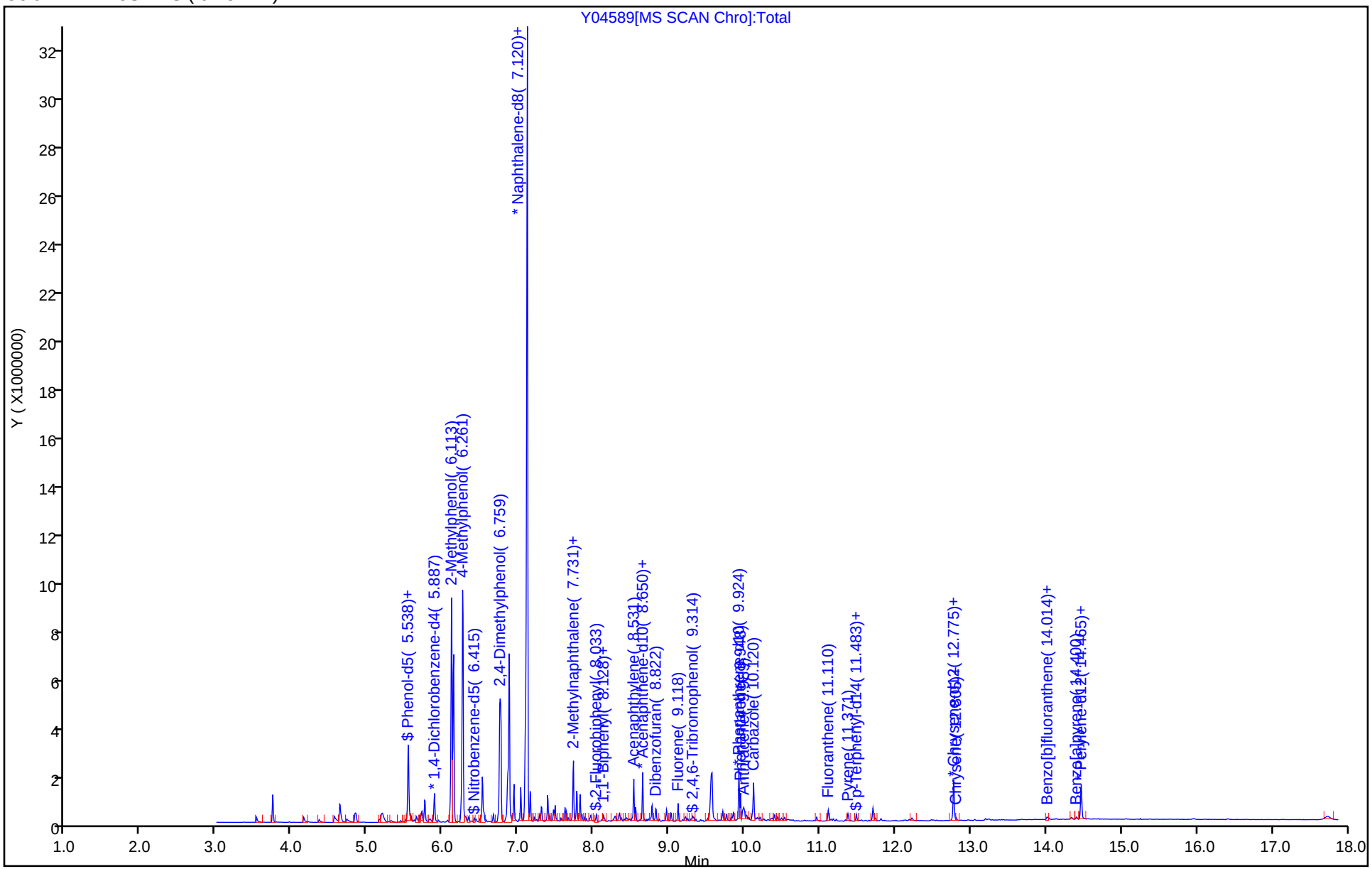
Report Date: 30-Oct-2024 15:17:02 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3	Worklist Smp#:	20
Client ID:	MW-BCP-10A-10242024				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	20
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D
Lims ID: 480-224869-B-3-A
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 29-Oct-2024 19:29:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 480-0120882-020
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 08:00:45

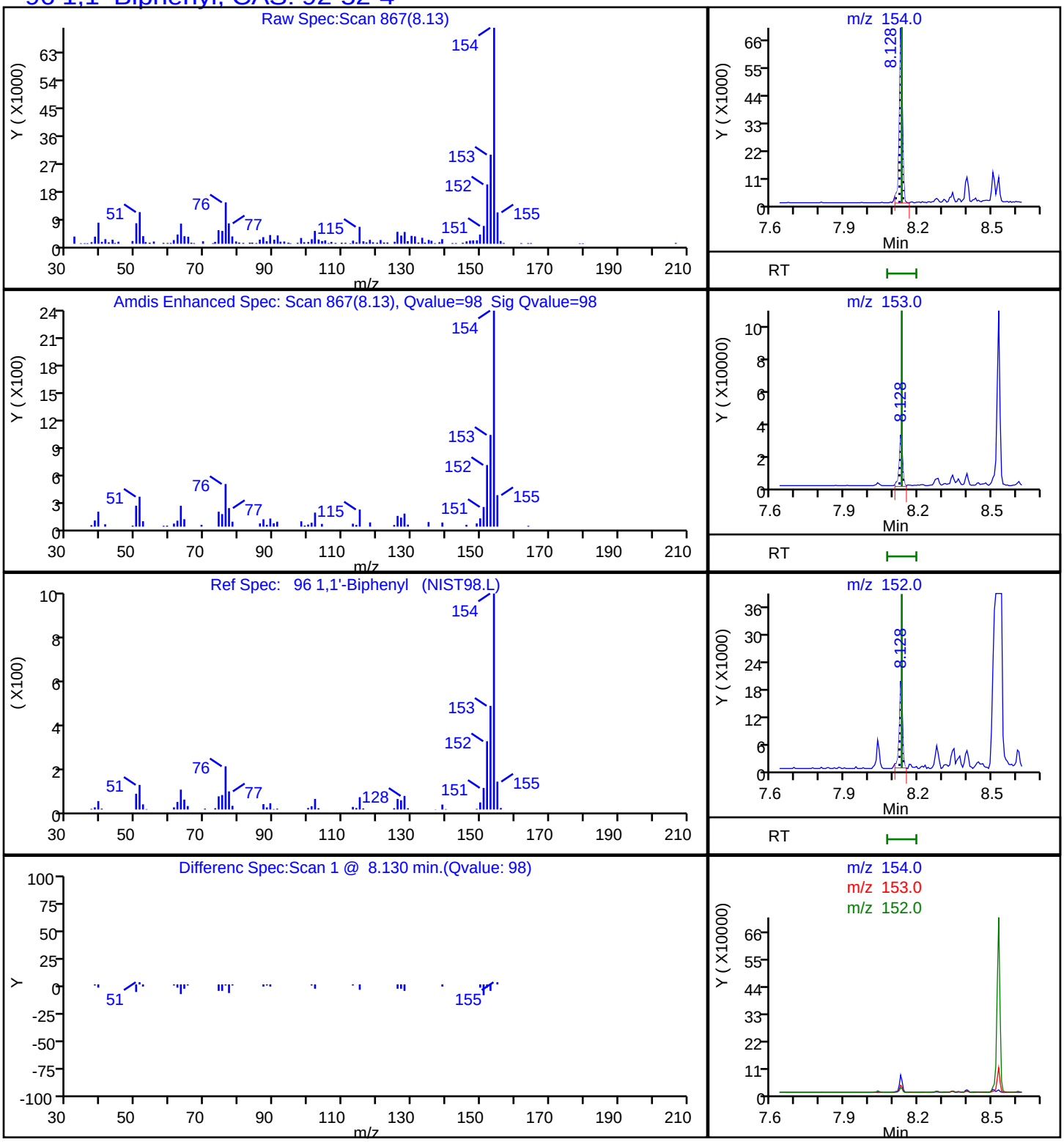
Compound	Amount Added	Amount Recovered	% Rec.
$ 8 Phenol-d5	8.00	0.3502	43.77
$ 9 Nitrobenzene-d5	8.00	0.5819	72.74
$ 10 2-Fluorobiphenyl	8.00	0.5691	71.13
$ 11 2,4,6-Tribromophenol	8.00	0.7472	93.40
$ 12 p-Terphenyl-d14	8.00	0.5286	66.07

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

96 1,1'-Biphenyl, CAS: 92-52-4



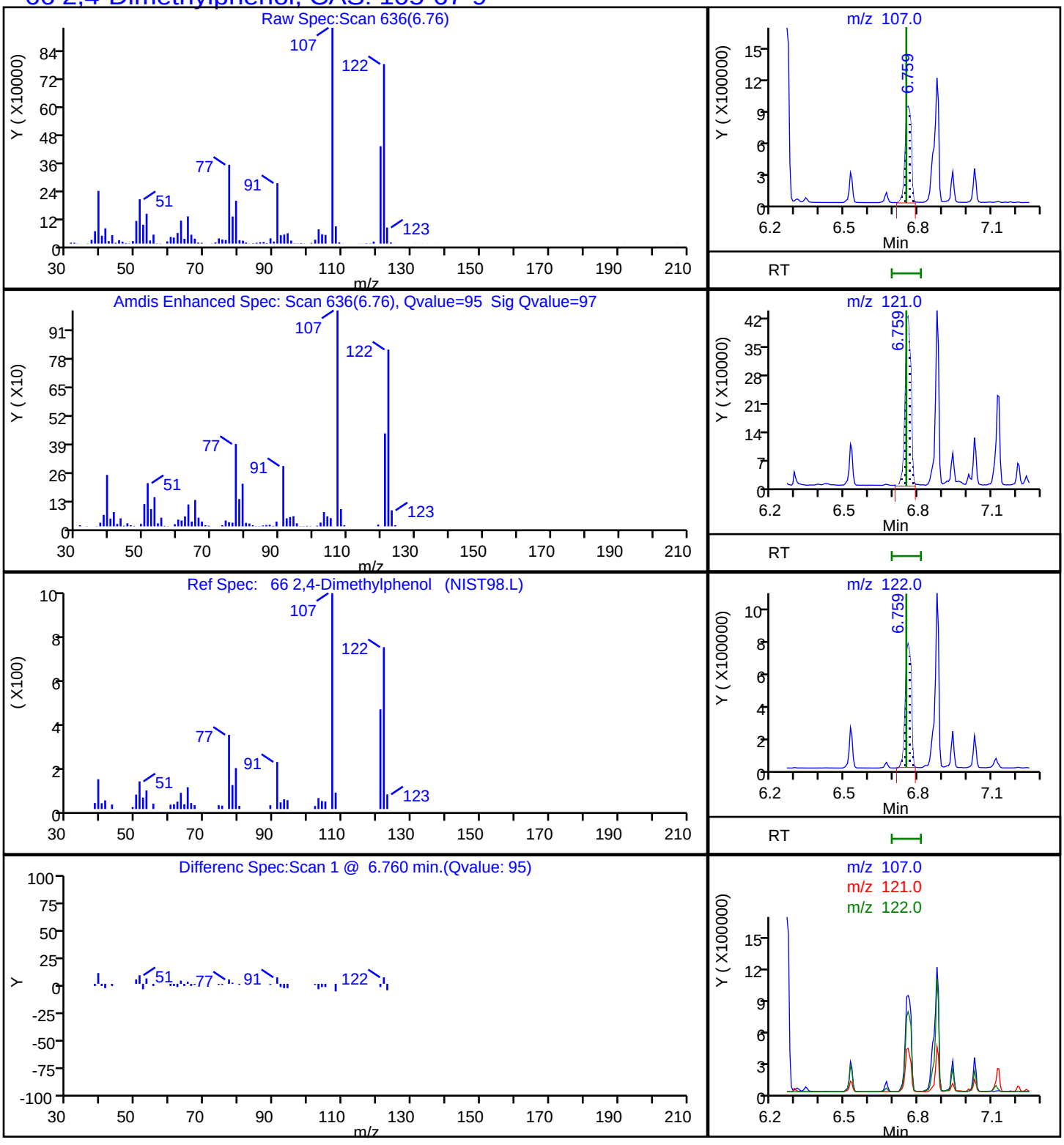
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dimethylphenol, CAS: 105-67-9

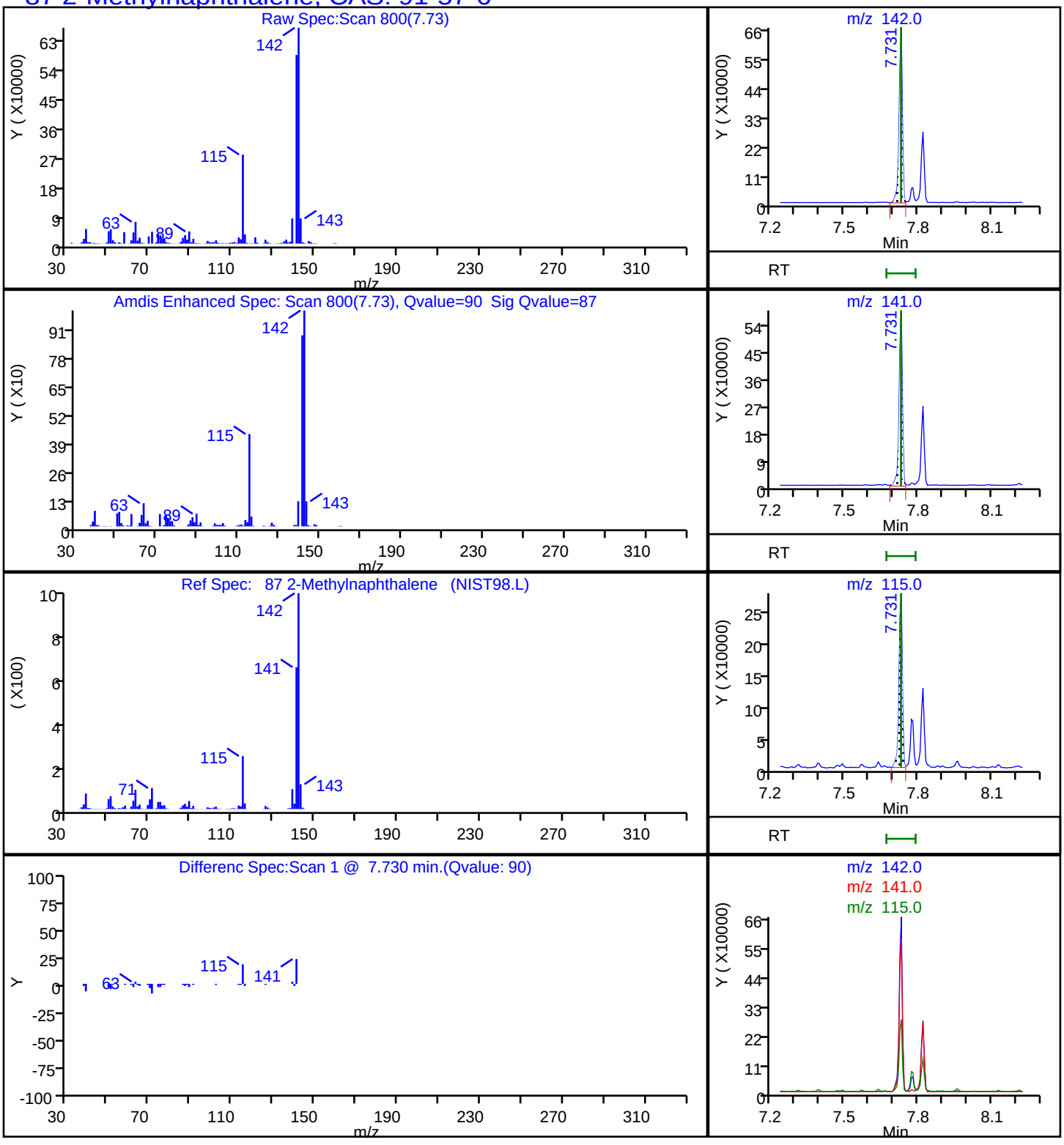


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

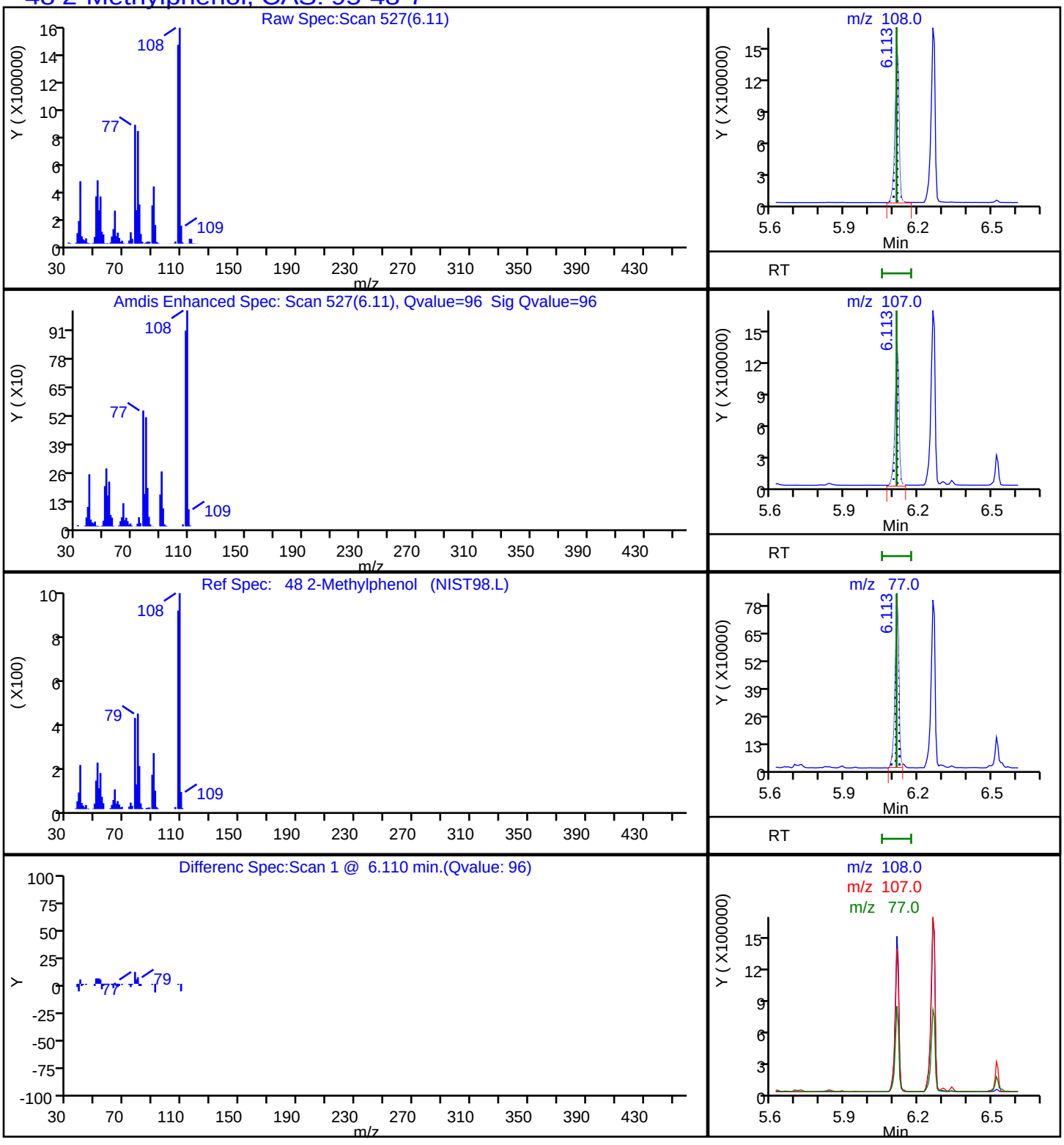
87 2-Methylnaphthalene, CAS: 91-57-6



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D
Injection Date: 29-Oct-2024 19:29:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-3-A Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: JM ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

48 2-Methylphenol, CAS: 95-48-7



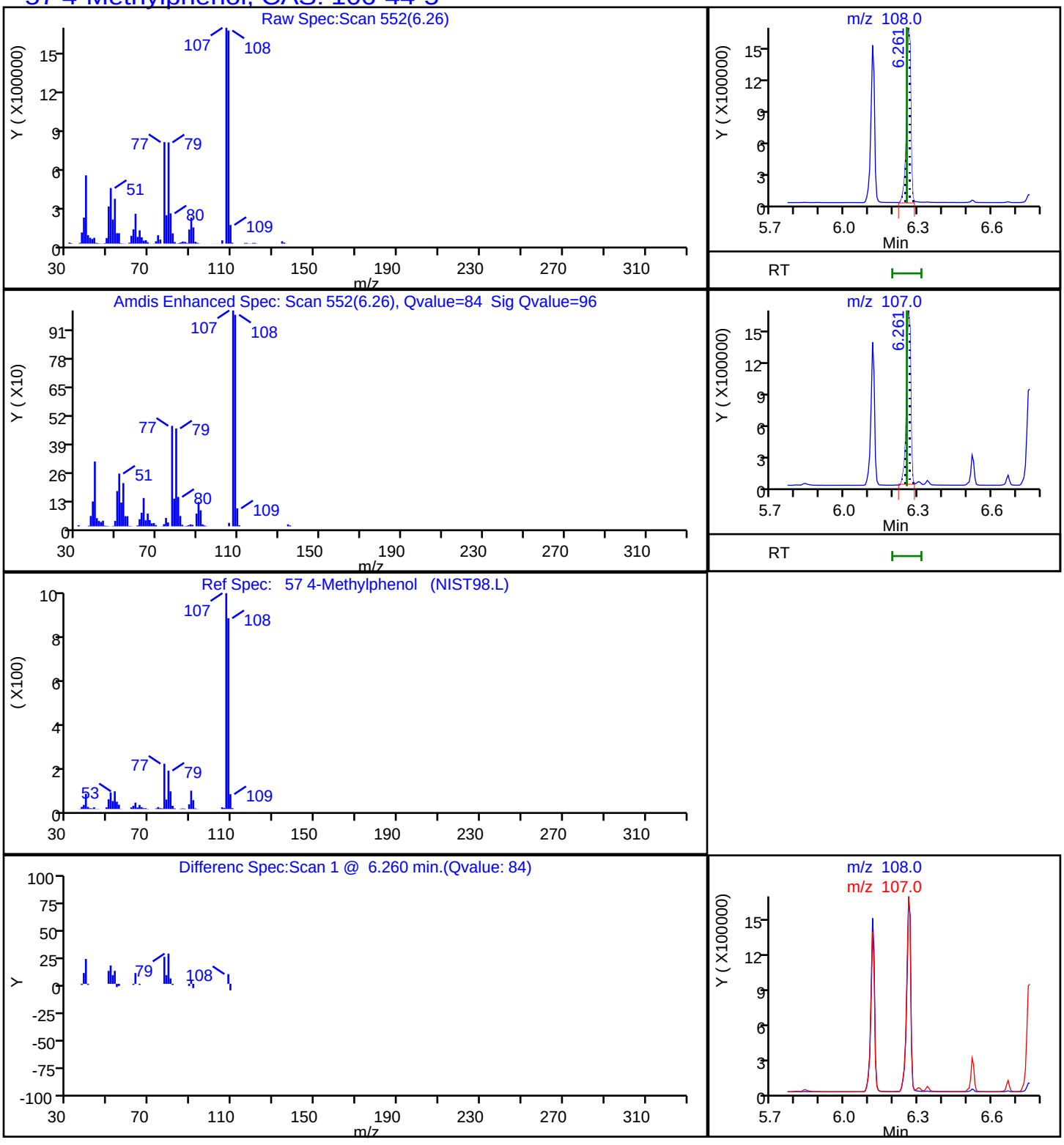
Report Date: 30-Oct-2024 15:17:02 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

57 4-Methylphenol, CAS: 106-44-5



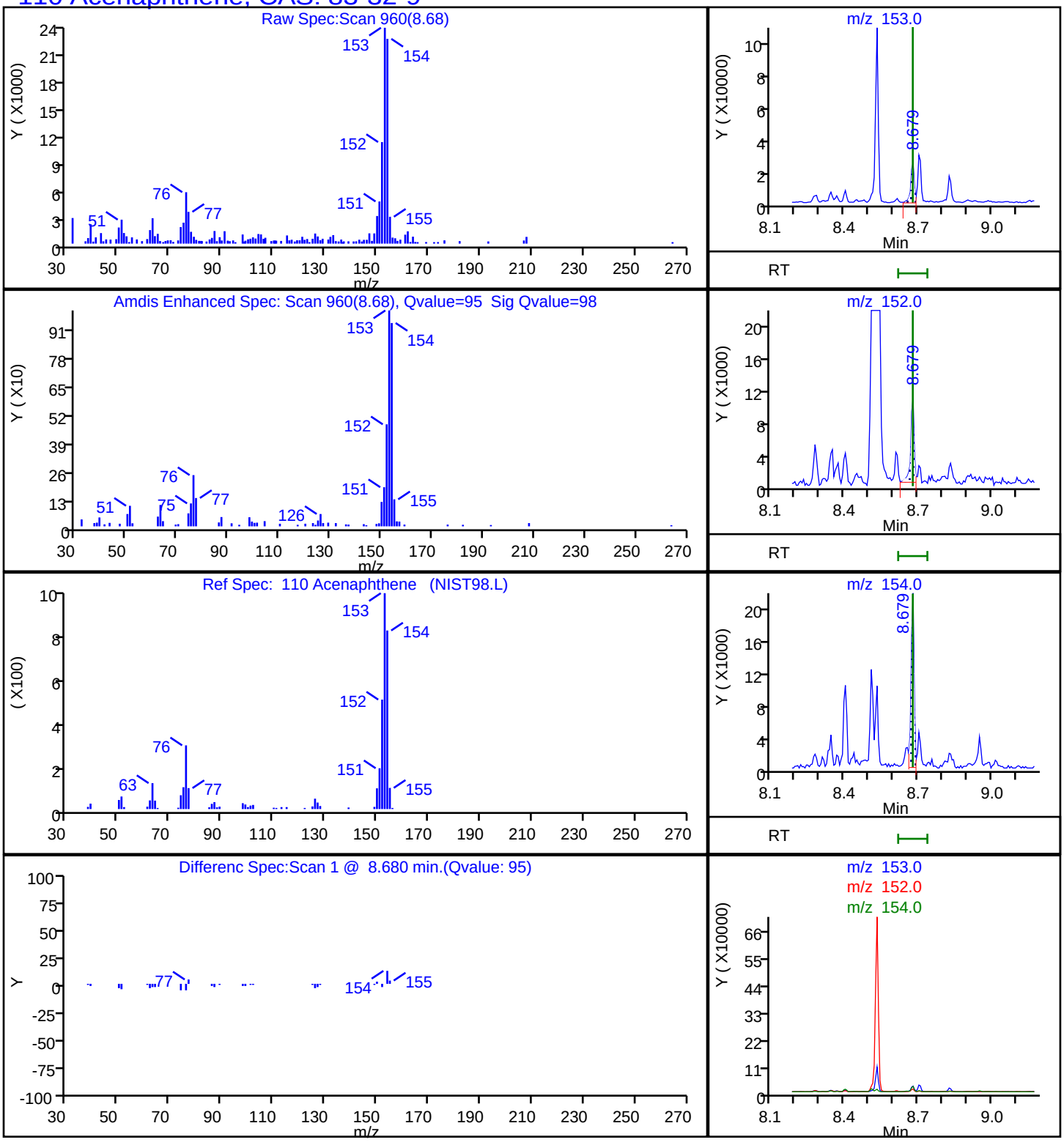
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

110 Acenaphthene, CAS: 83-32-9



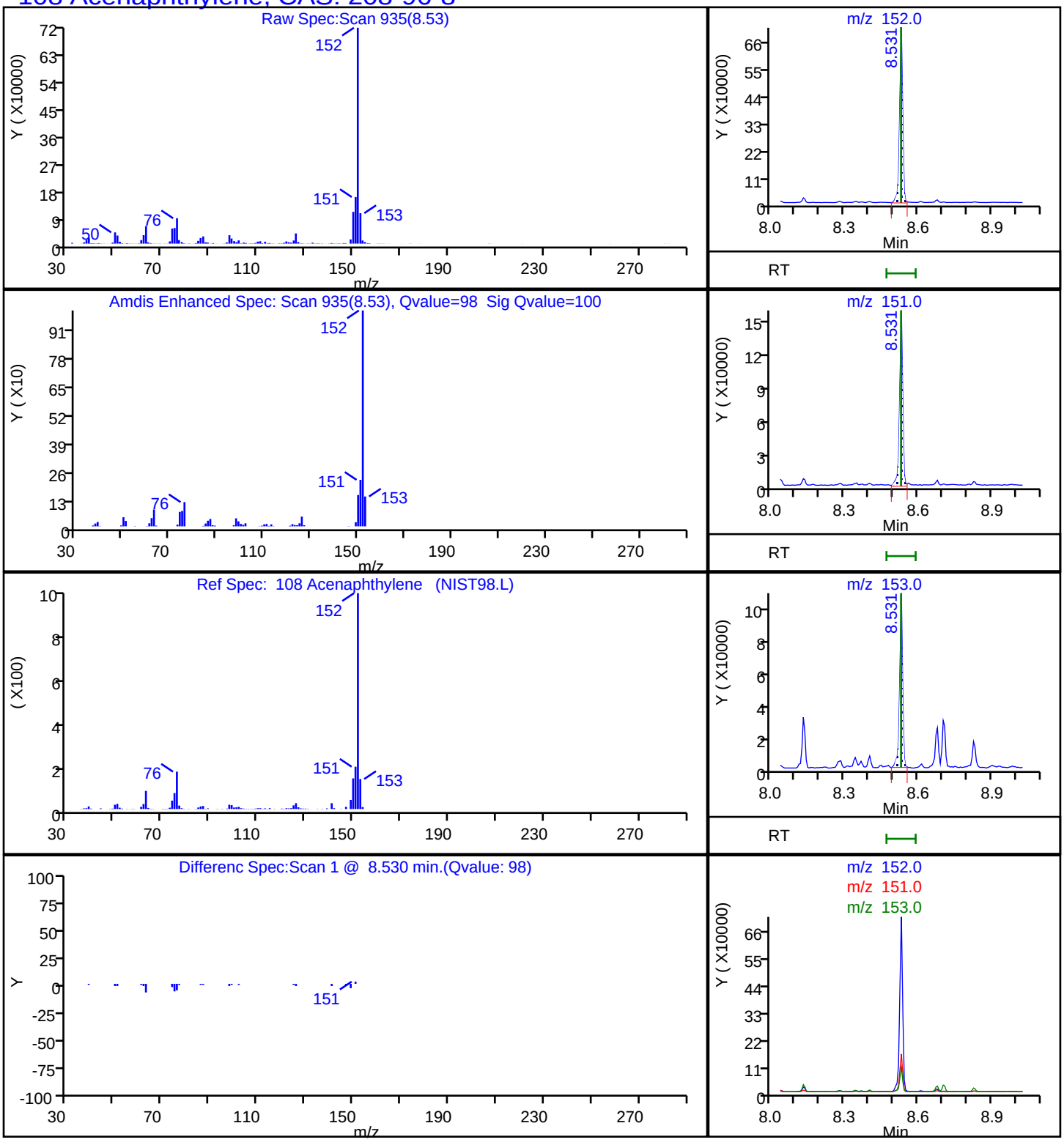
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

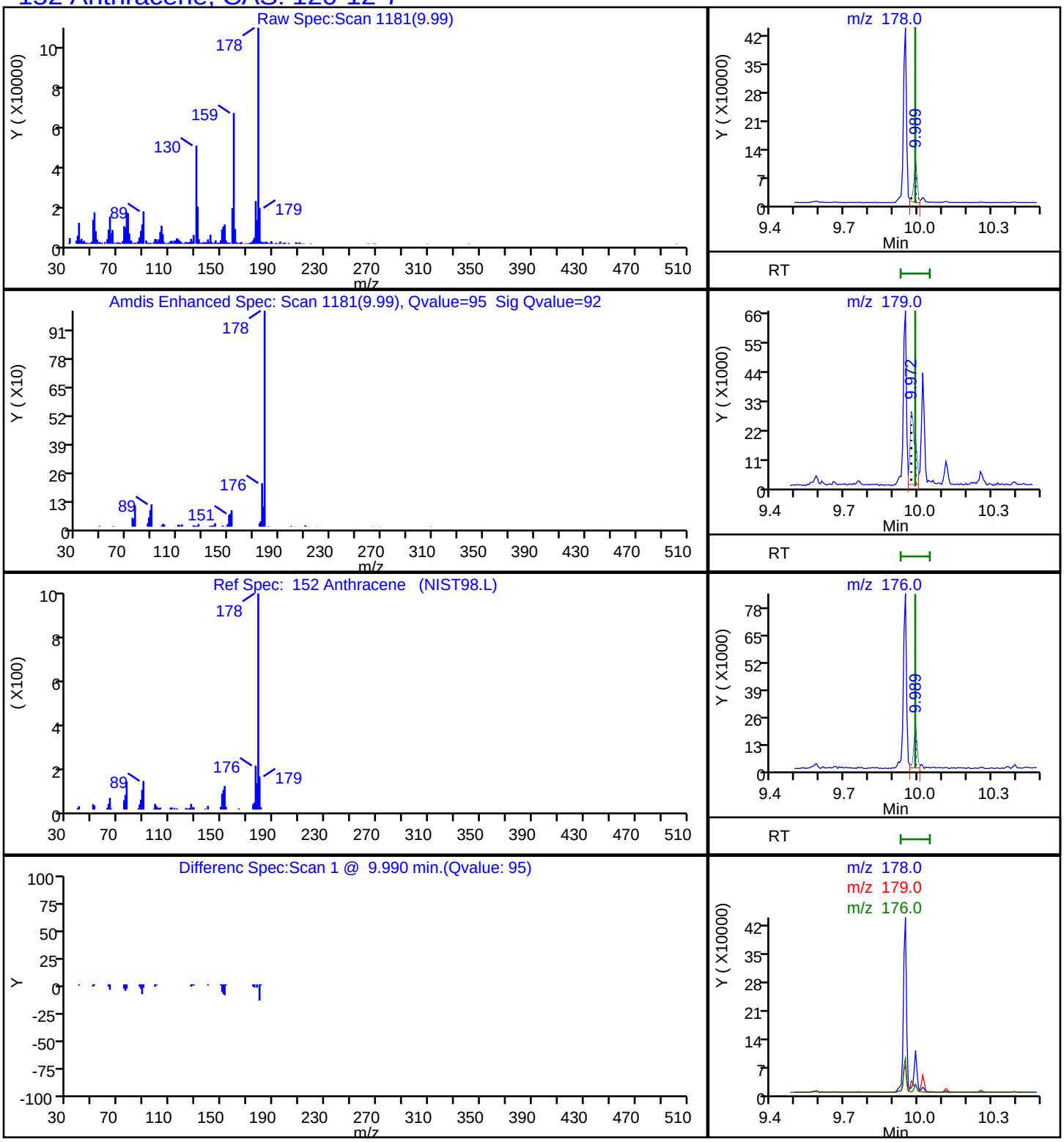
108 Acenaphthylene, CAS: 208-96-8



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D
Injection Date: 29-Oct-2024 19:29:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-3-A Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: JM ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

152 Anthracene, CAS: 120-12-7



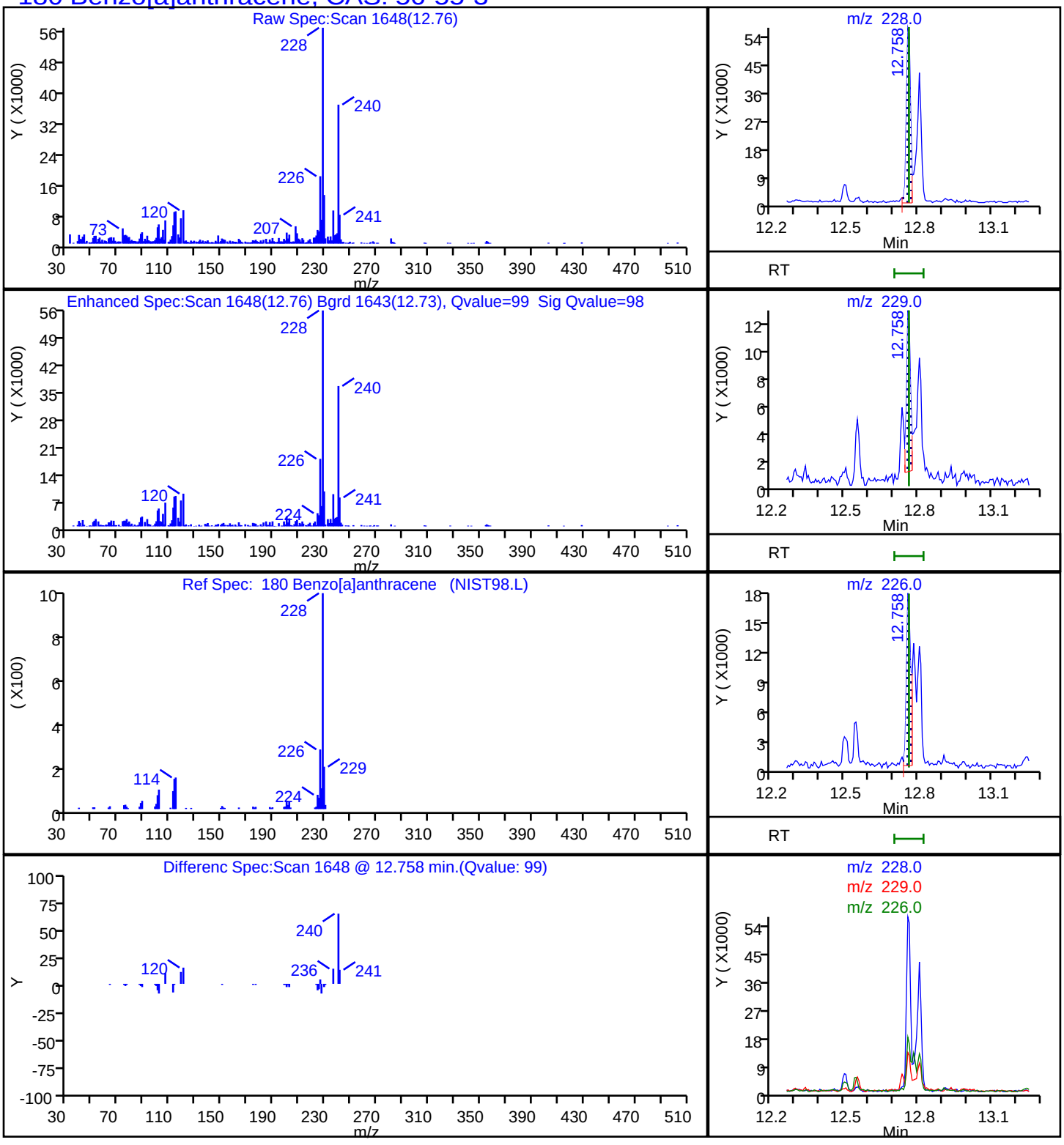
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

180 Benzo[a]anthracene, CAS: 56-55-3



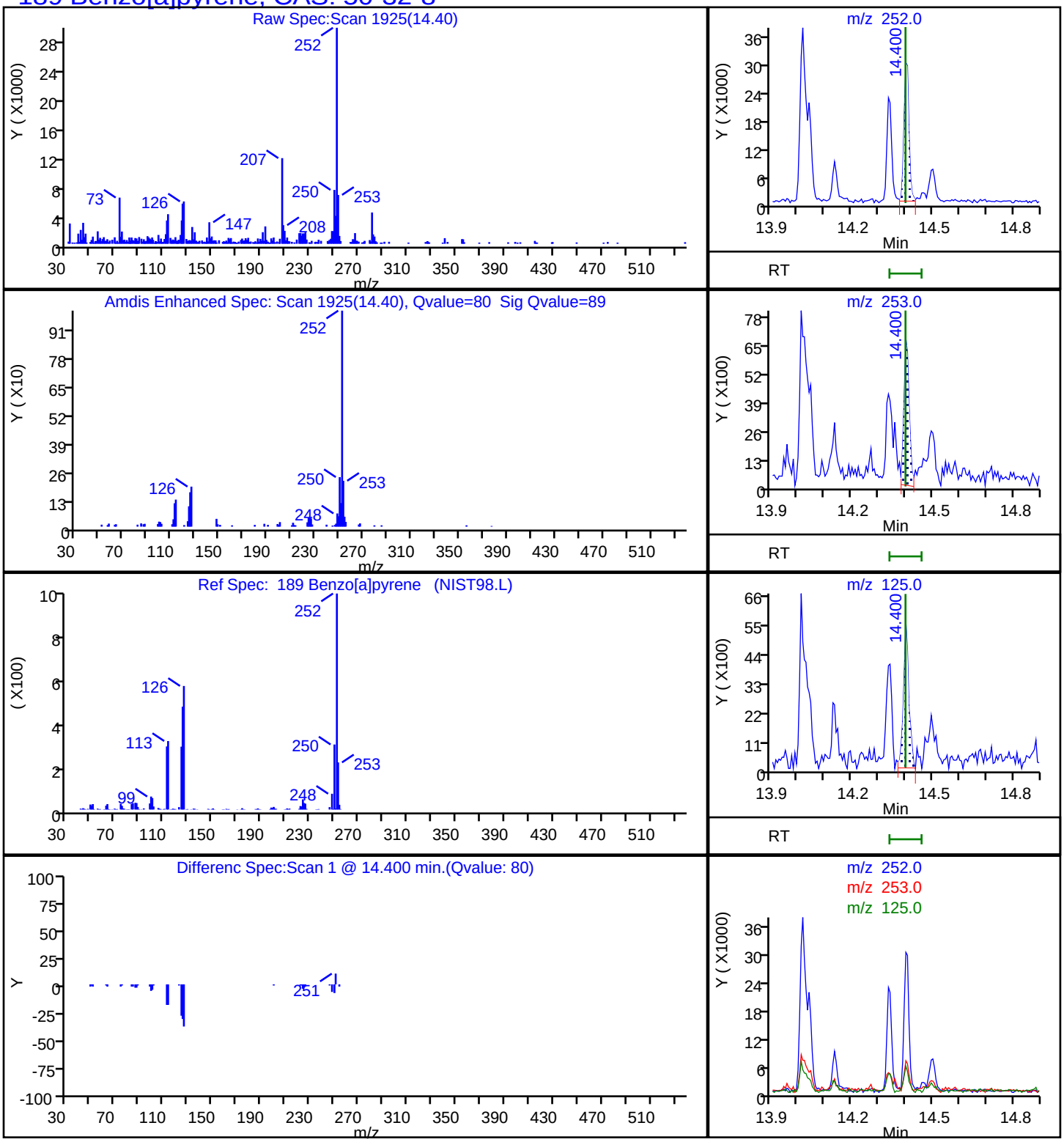
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

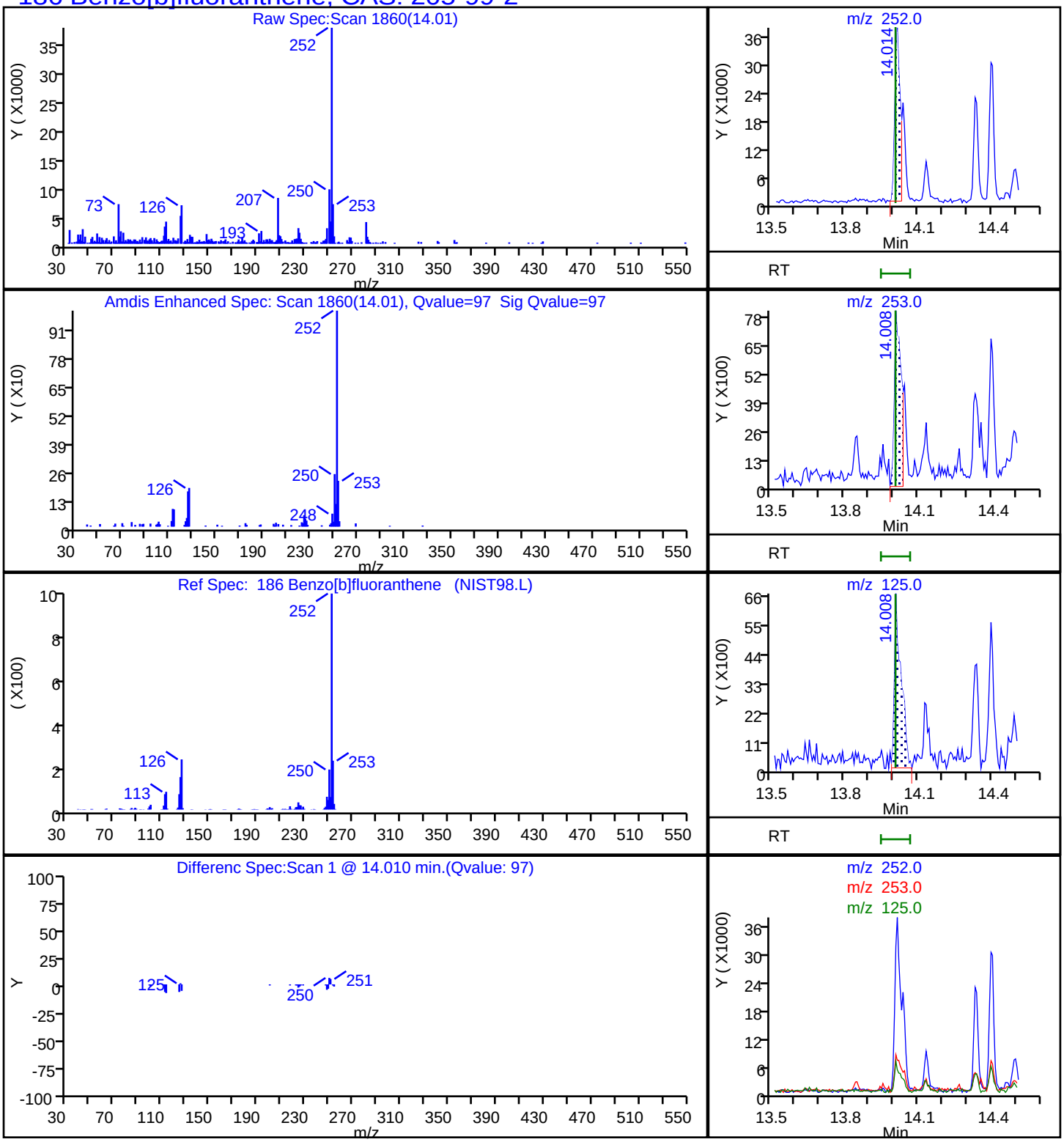
189 Benzo[a]pyrene, CAS: 50-32-8



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

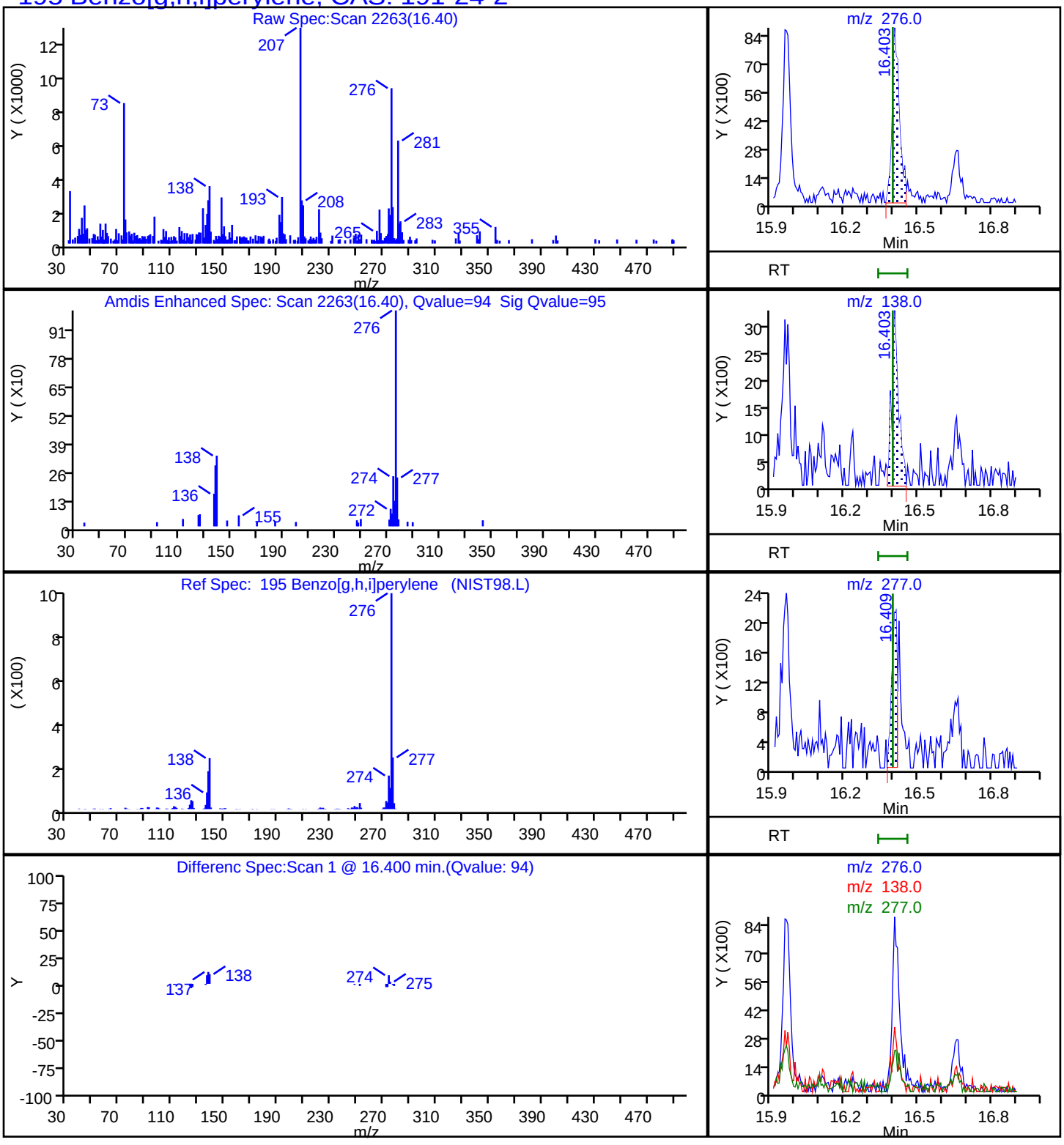
186 Benzo[b]fluoranthene, CAS: 205-99-2



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D
Injection Date: 29-Oct-2024 19:29:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-3-A Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: JM ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

195 Benzo[g,h,i]perylene, CAS: 191-24-2



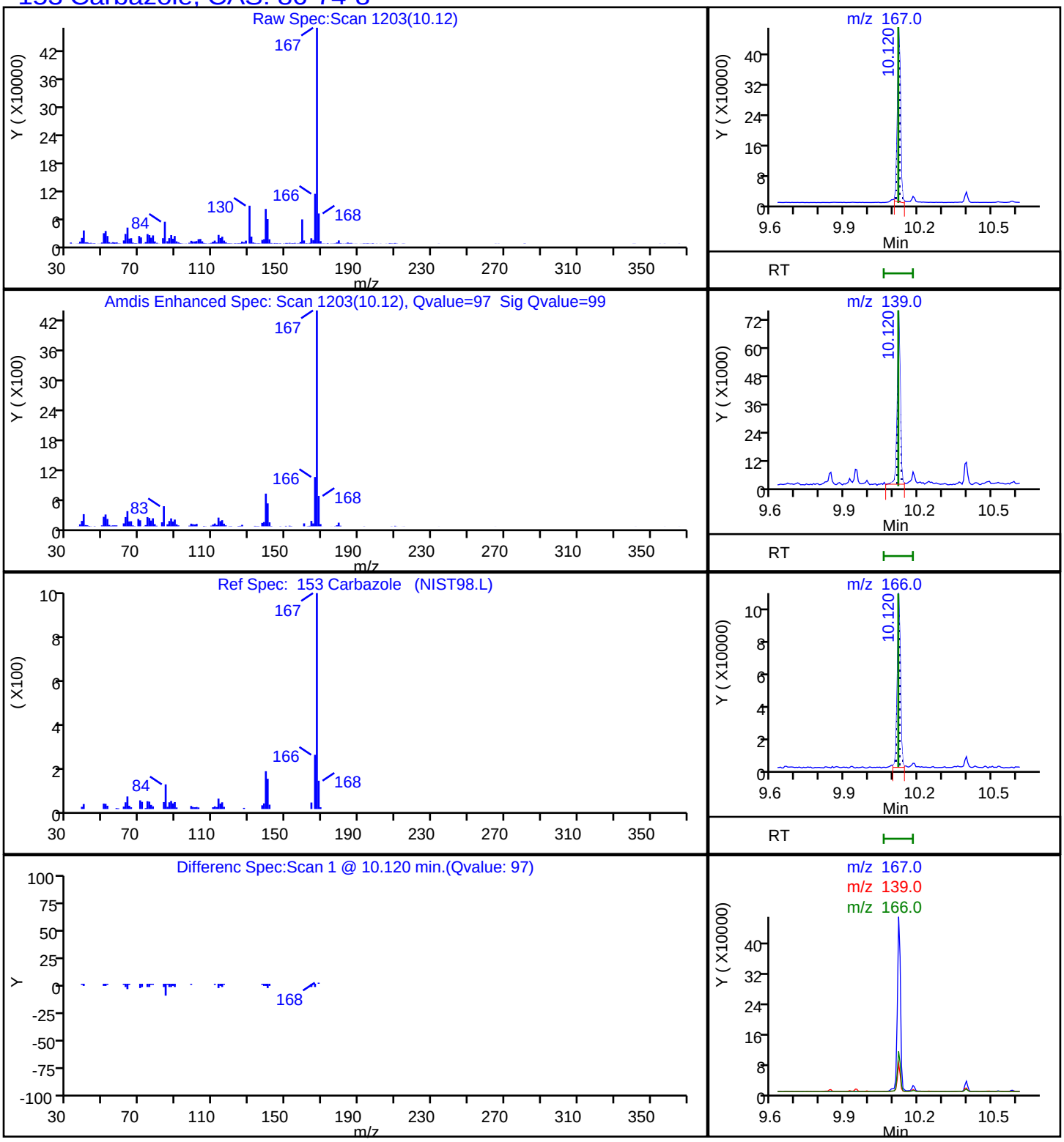
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

153 Carbazole, CAS: 86-74-8

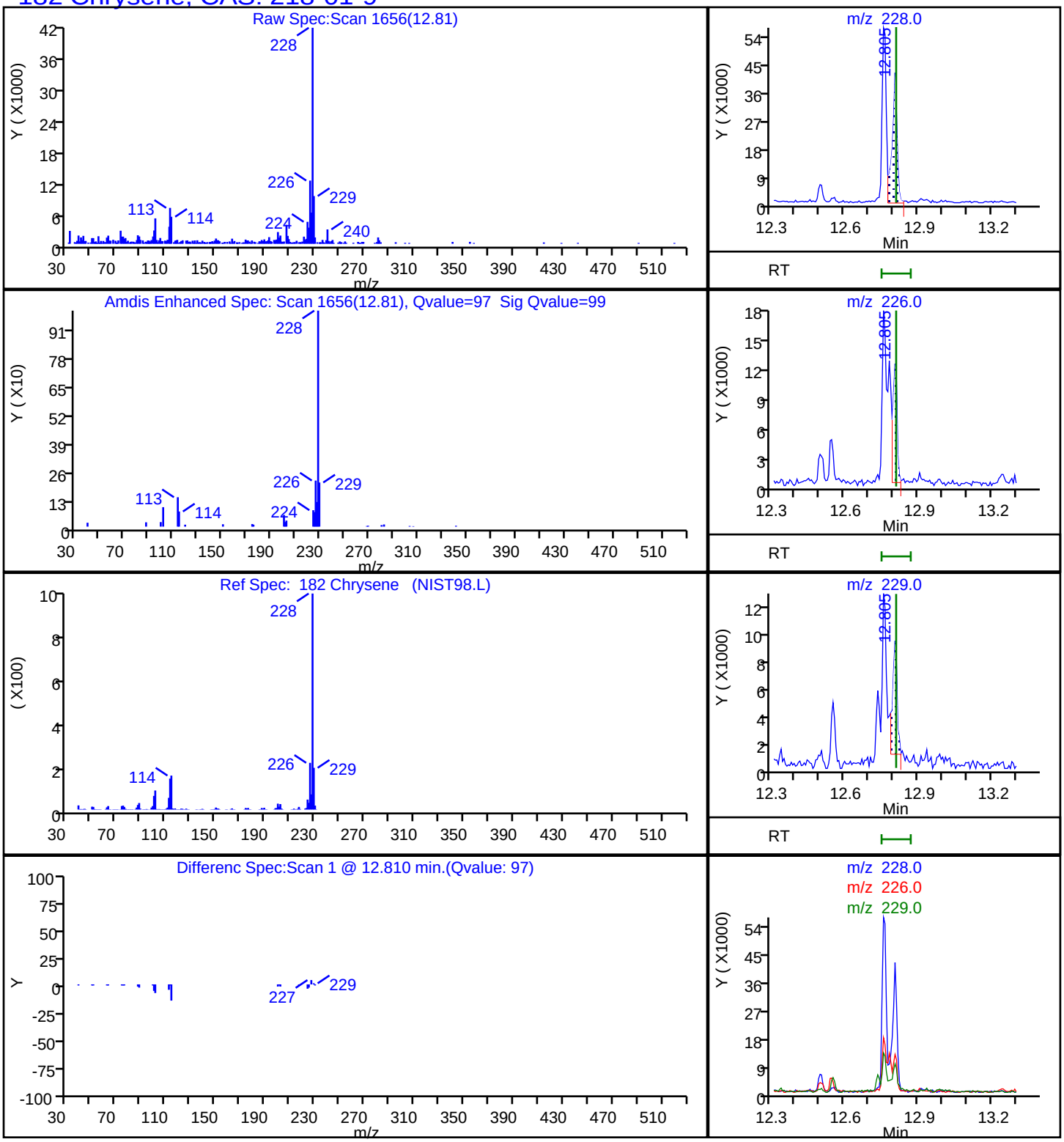


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

182 Chrysene, CAS: 218-01-9

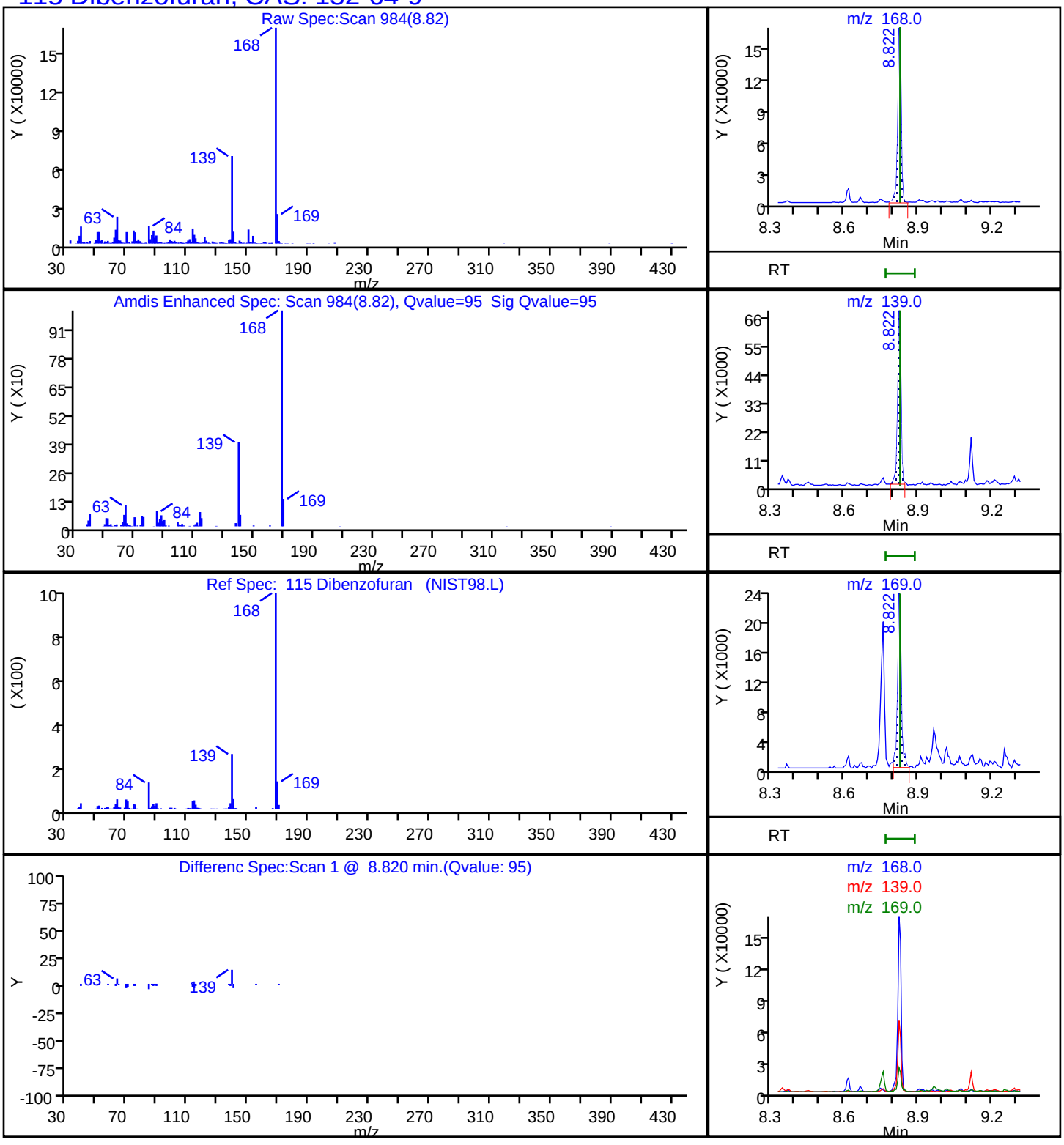


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

115 Dibenzofuran, CAS: 132-64-9



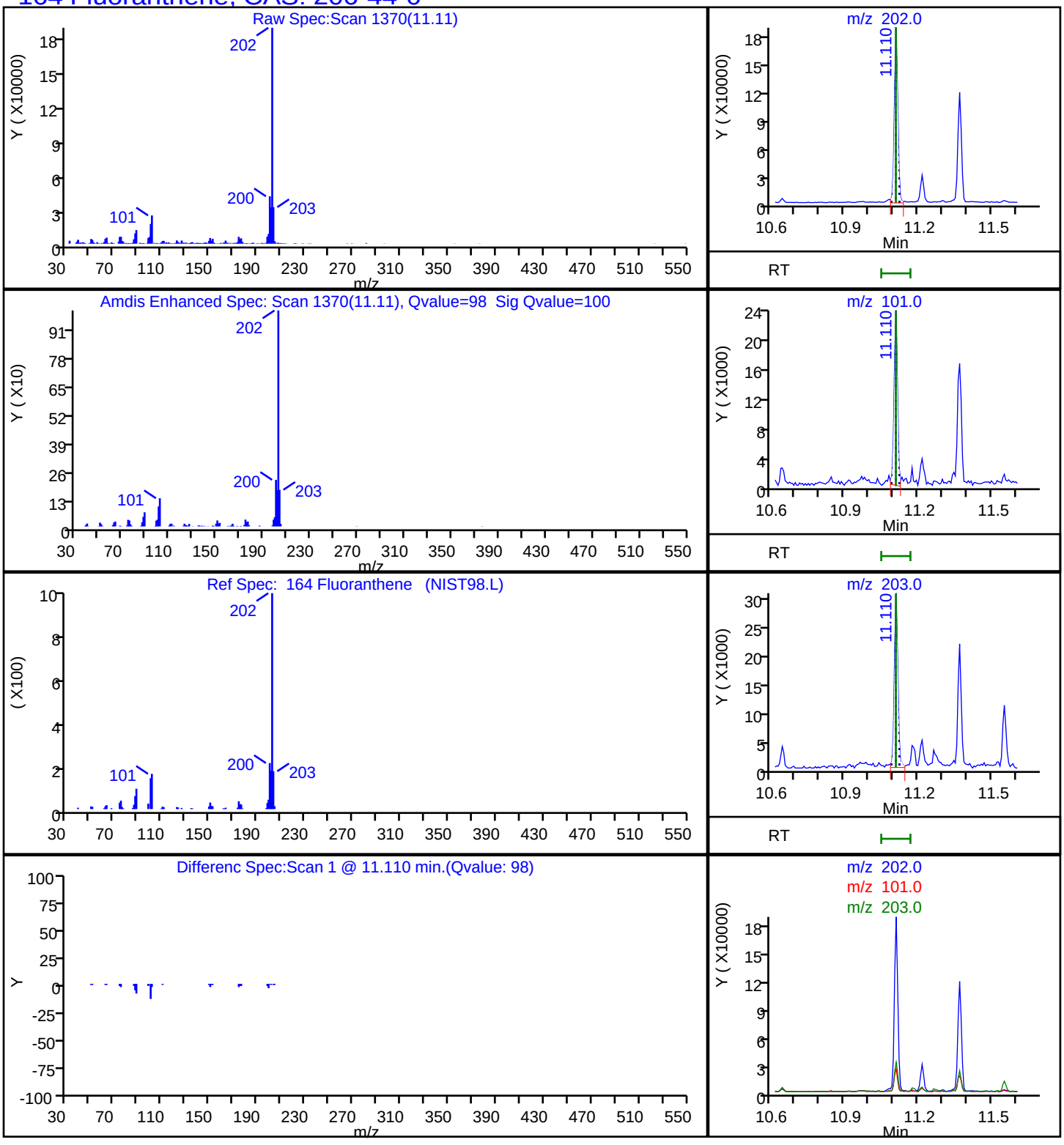
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

164 Fluoranthene, CAS: 206-44-0



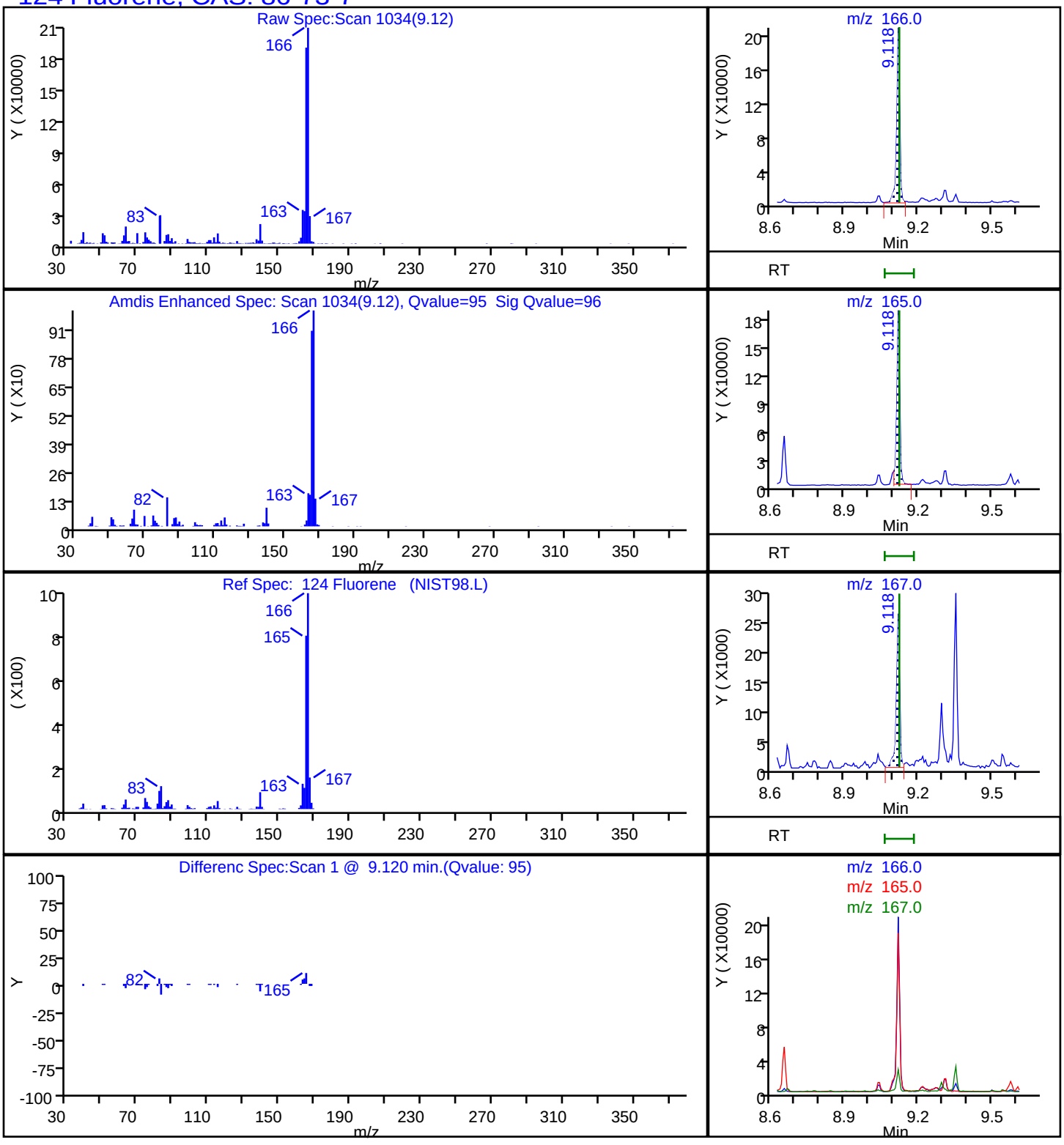
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

124 Fluorene, CAS: 86-73-7



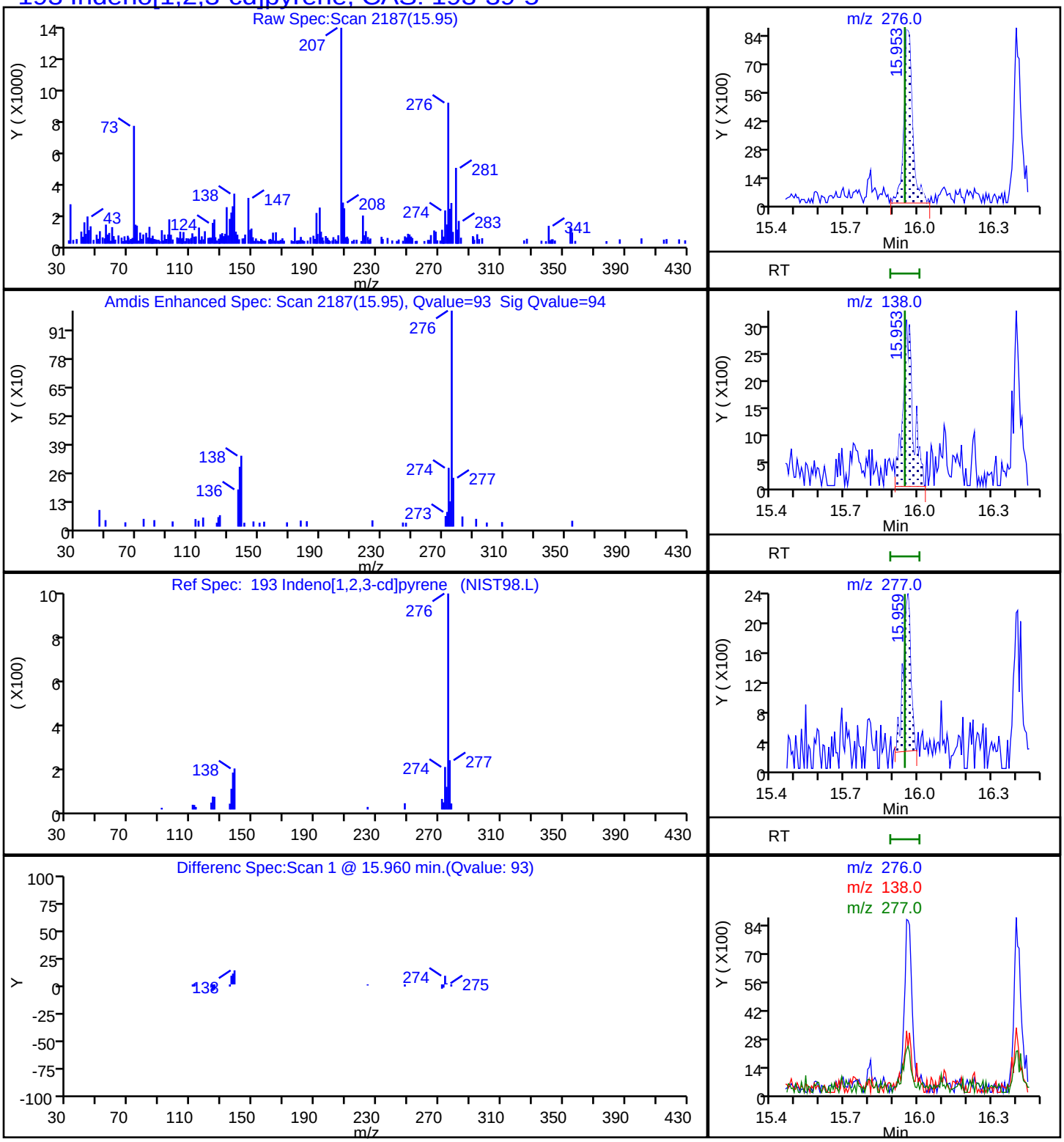
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

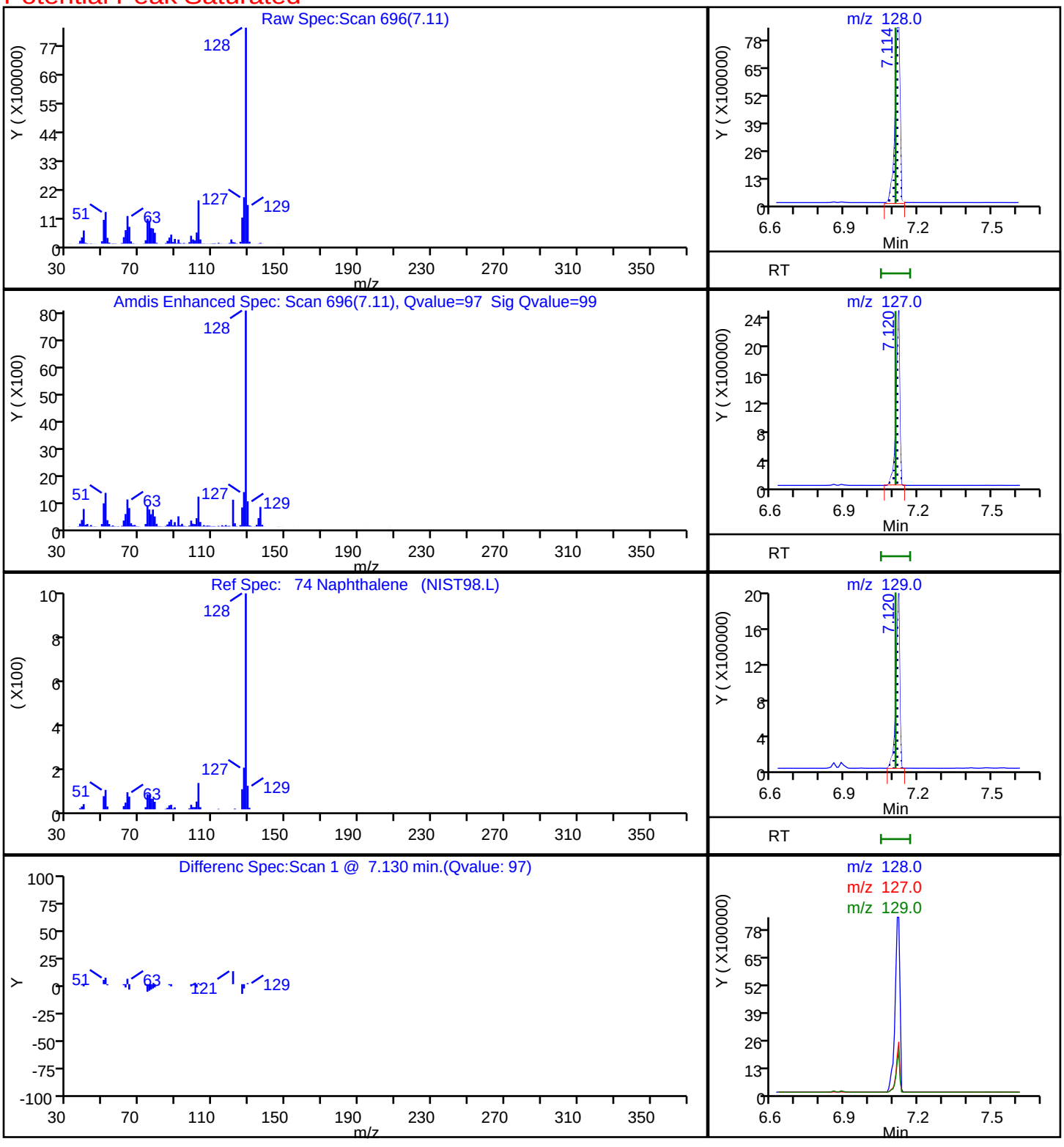
Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3

Potential Peak Saturated



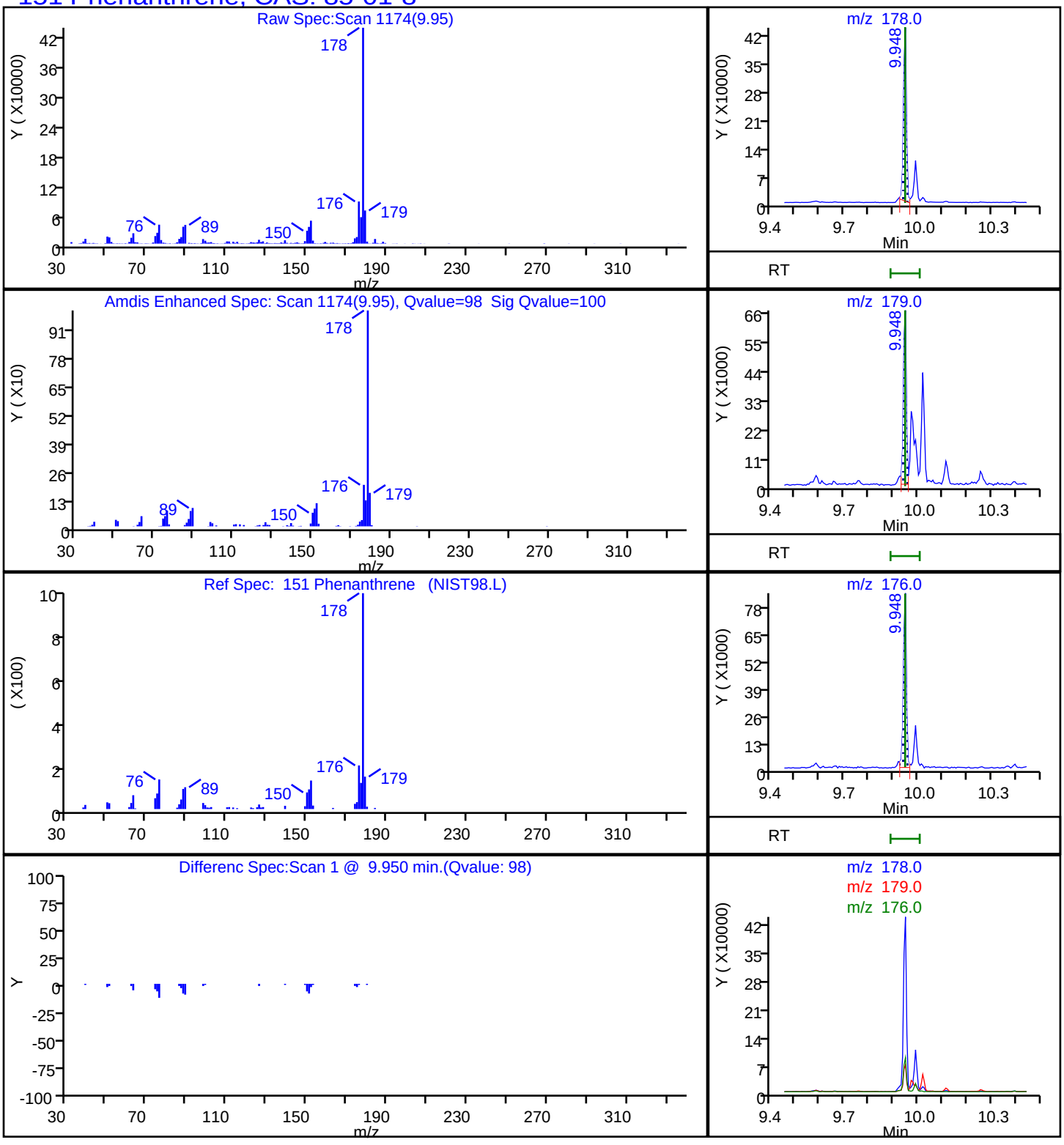
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

151 Phenanthrene, CAS: 85-01-8



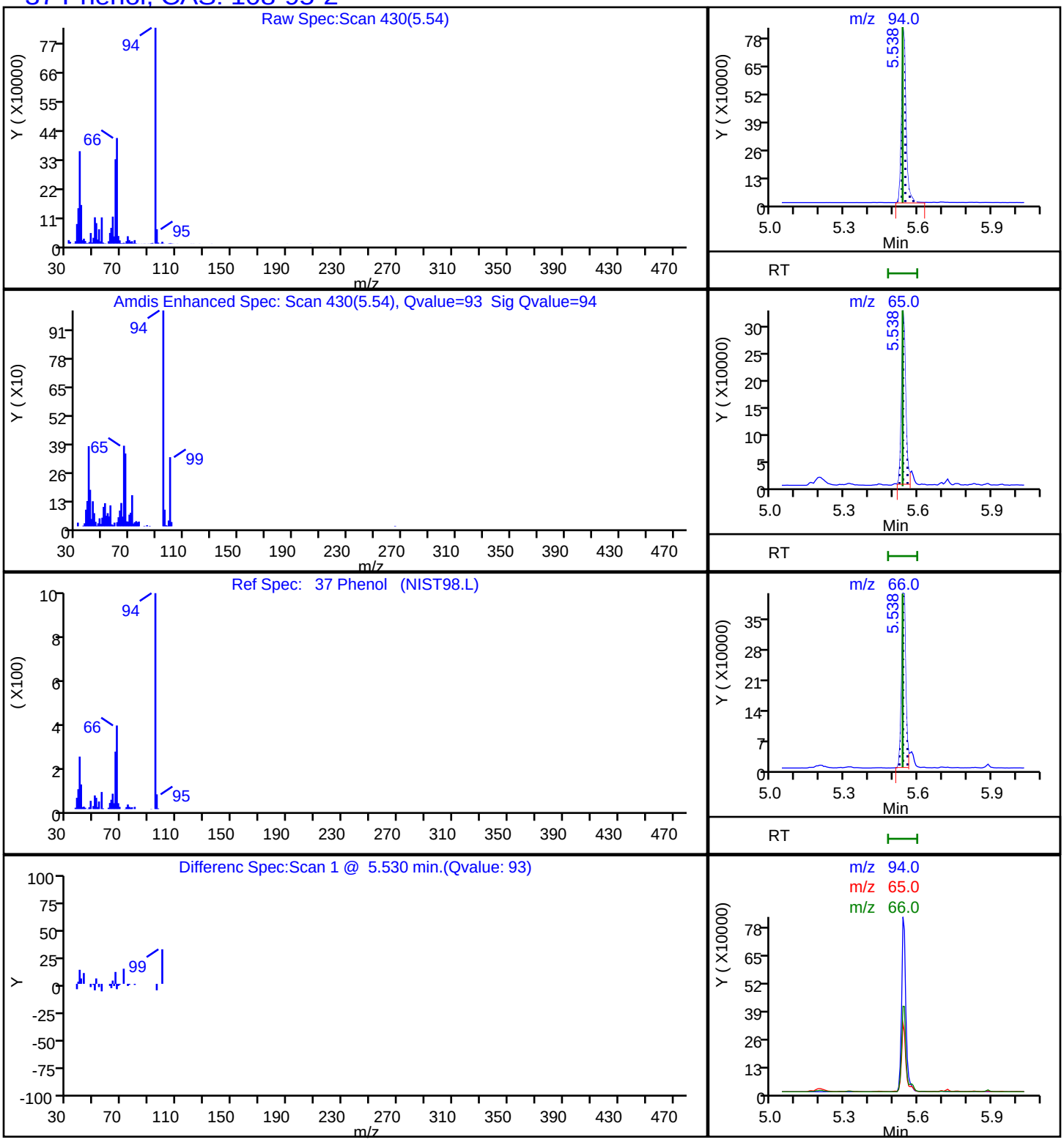
Report Date: 30-Oct-2024 15:17:02 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

37 Phenol, CAS: 108-95-2



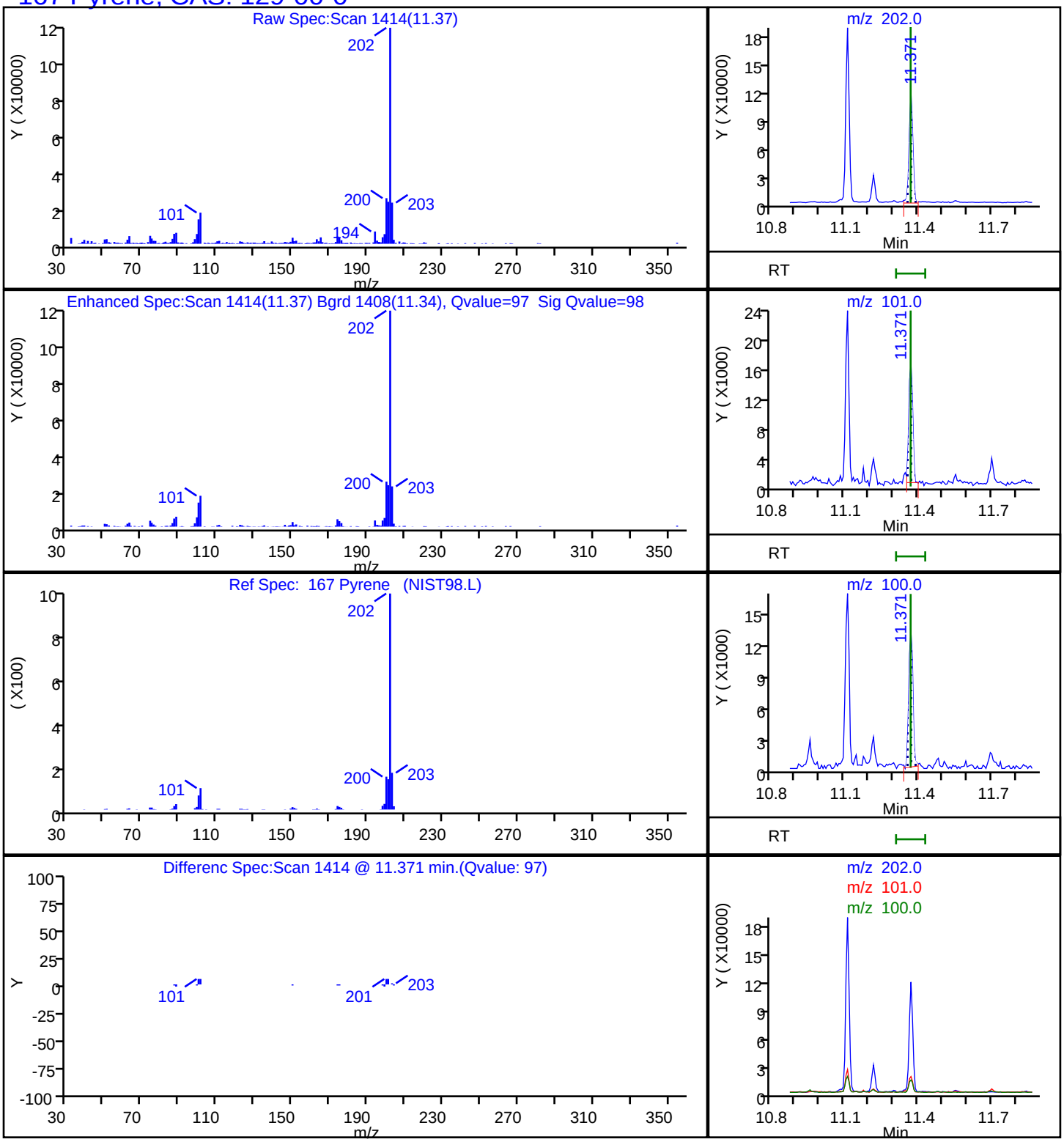
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

167 Pyrene, CAS: 129-00-0



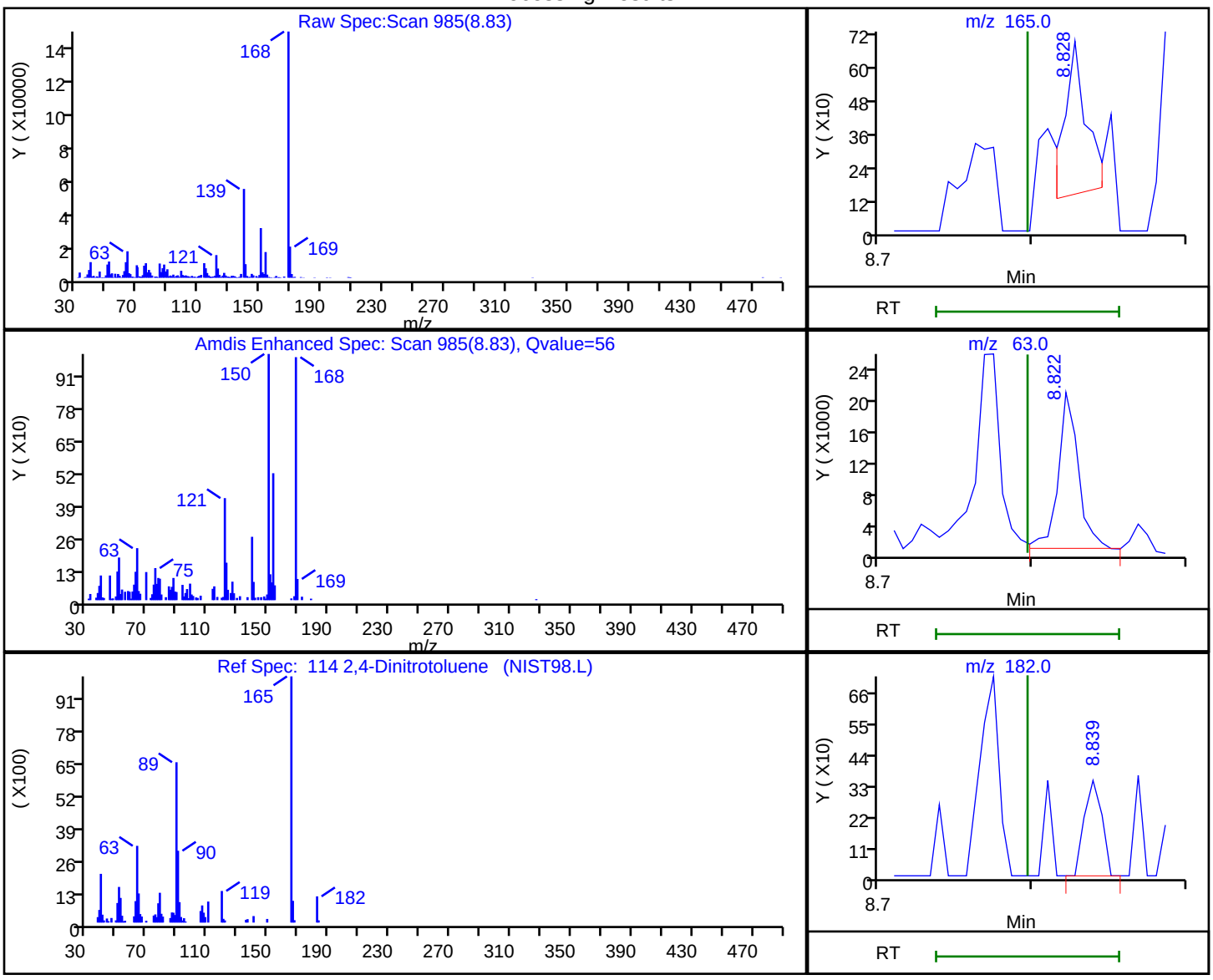
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

114 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
8.83	165.00	565	0.136016
8.82	63.00	18332	
8.84	182.00	274	

Reviewer: IZ8L, 30-Oct-2024 15:05:13 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

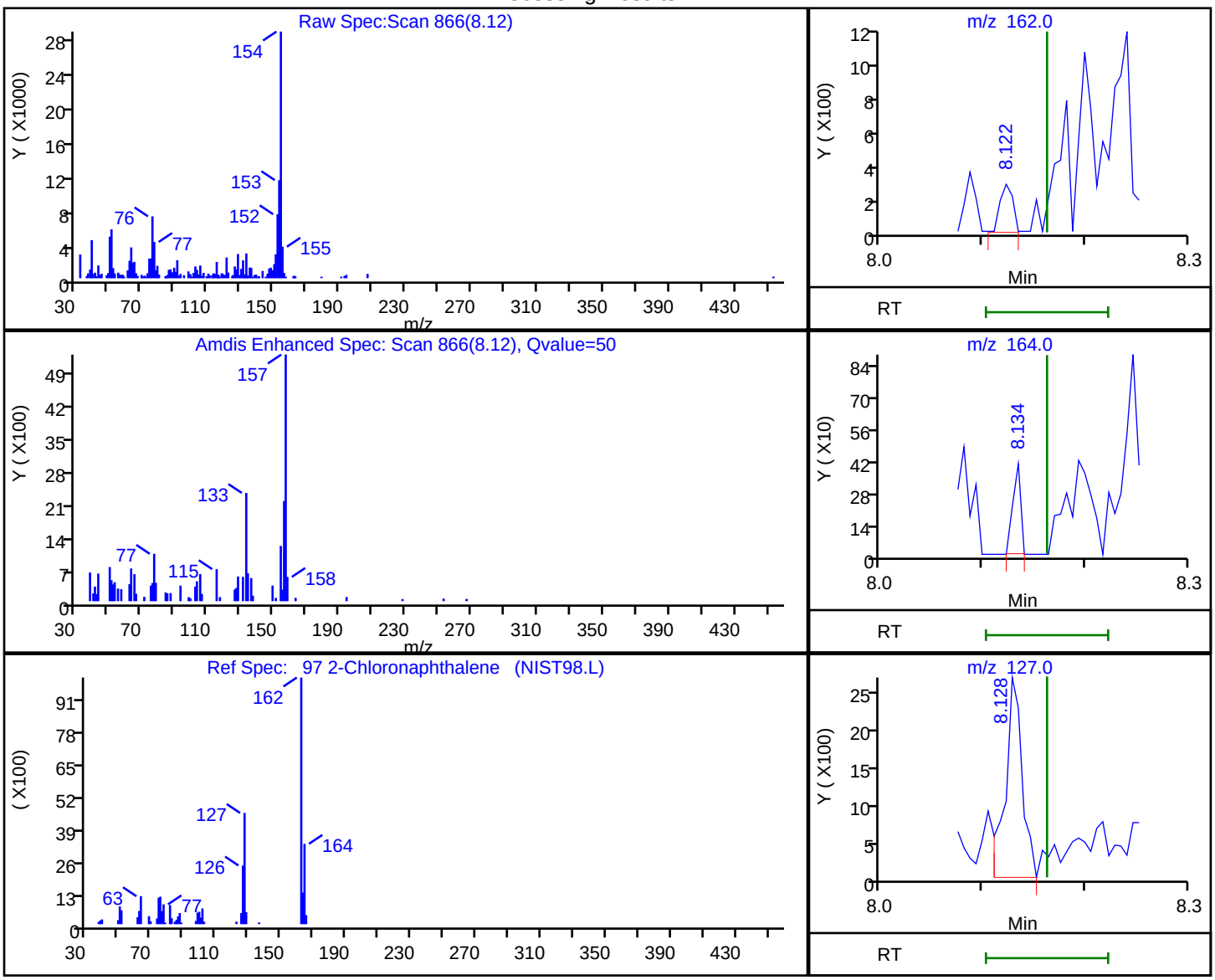
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

97 2-Chloronaphthalene, CAS: 91-58-7

Processing Results



RT	Mass	Response	Amount
8.12	162.00	238	0.002139
8.13	164.00	218	
8.13	127.00	3073	

Reviewer: IZ8L, 30-Oct-2024 15:05:07 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

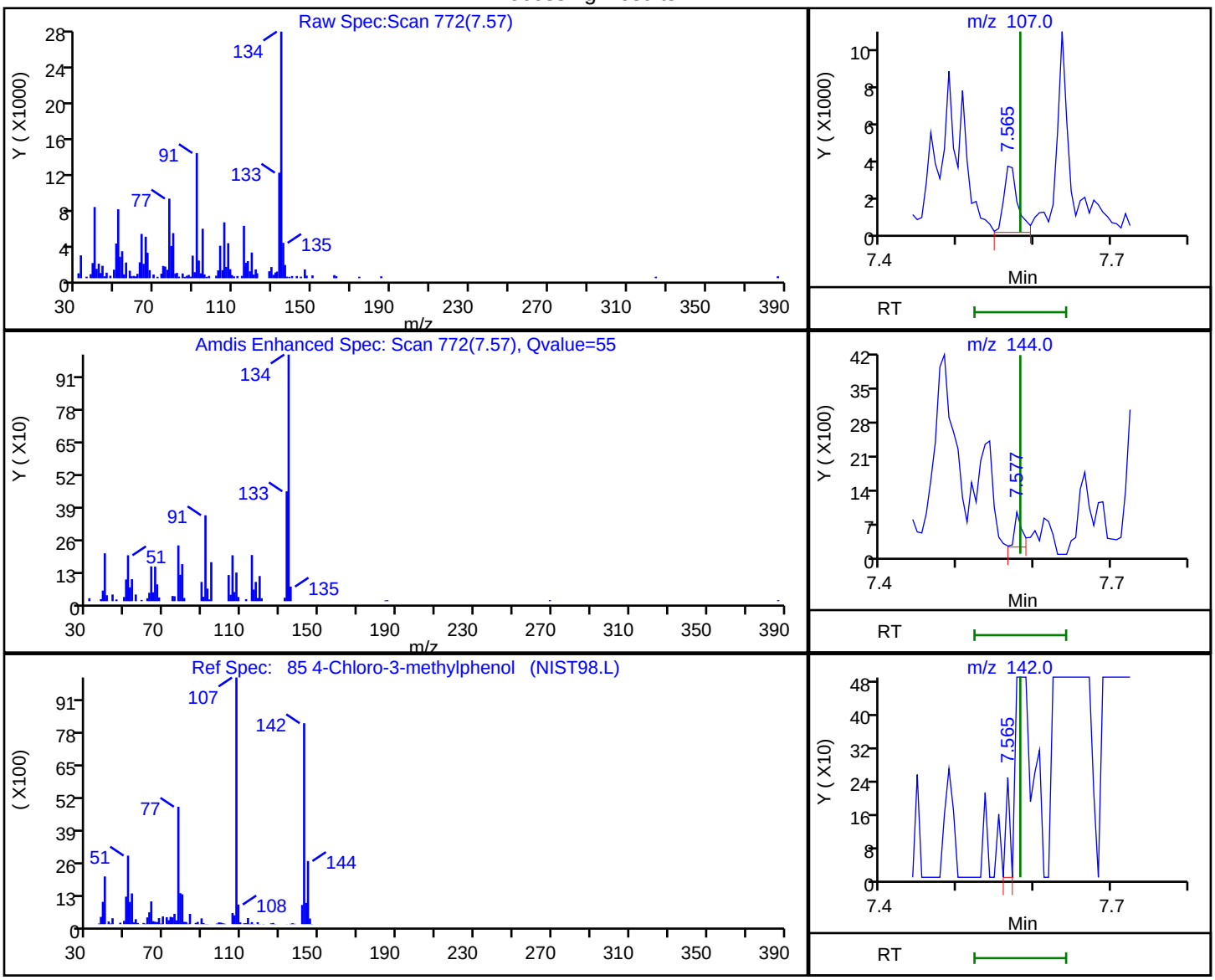
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

85 4-Chloro-3-methylphenol, CAS: 59-50-7

Processing Results



RT	Mass	Response	Amount
7.57	107.00	4089	0.157195
7.58	144.00	501	
7.57	142.00	86	

Reviewer: IZ8L, 30-Oct-2024 15:05:03 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

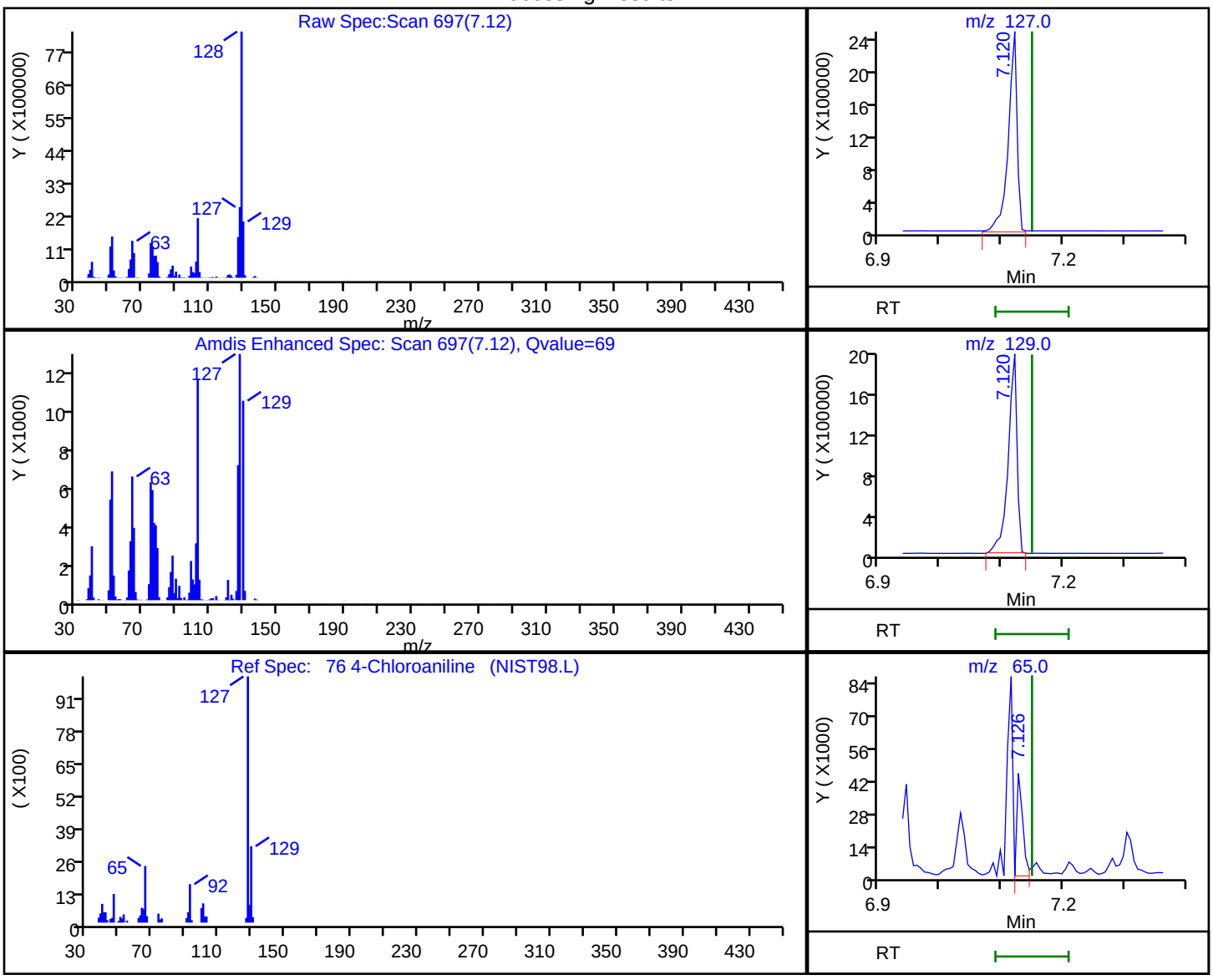
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D
Injection Date: 29-Oct-2024 19:29:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-3-A Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: JM ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

76 4-Chloroaniline, CAS: 106-47-8

Processing Results



RT	Mass	Response	Amount
7.12	127.00	2366770	33.269989
7.12	129.00	1927326	
7.13	65.00	29356	

Reviewer: IZ8L, 30-Oct-2024 15:04:59 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

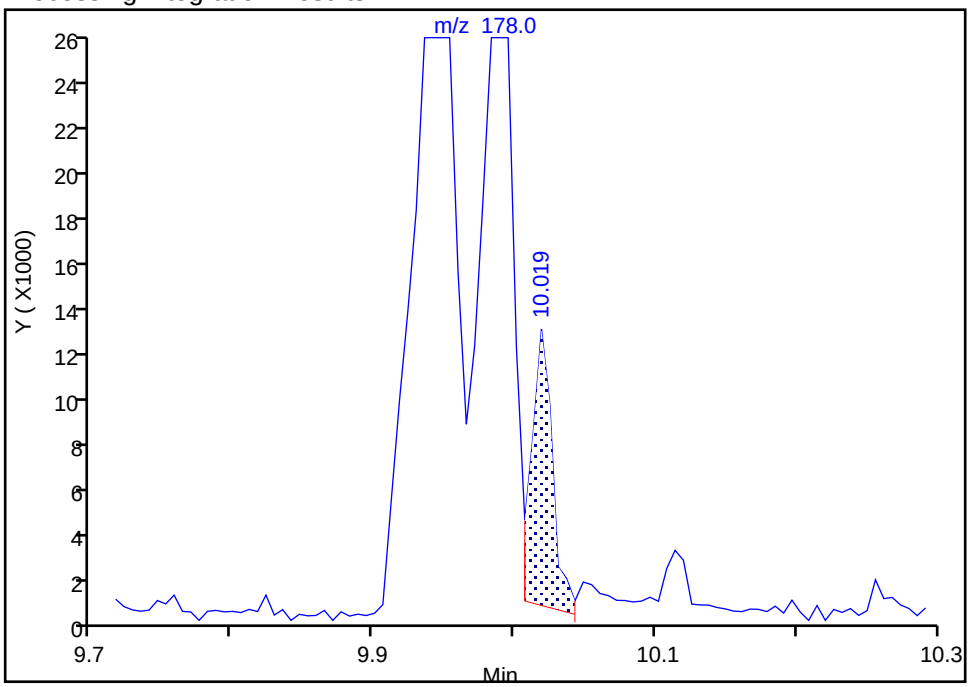
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

152 Anthracene, CAS: 120-12-7

Signal: 1

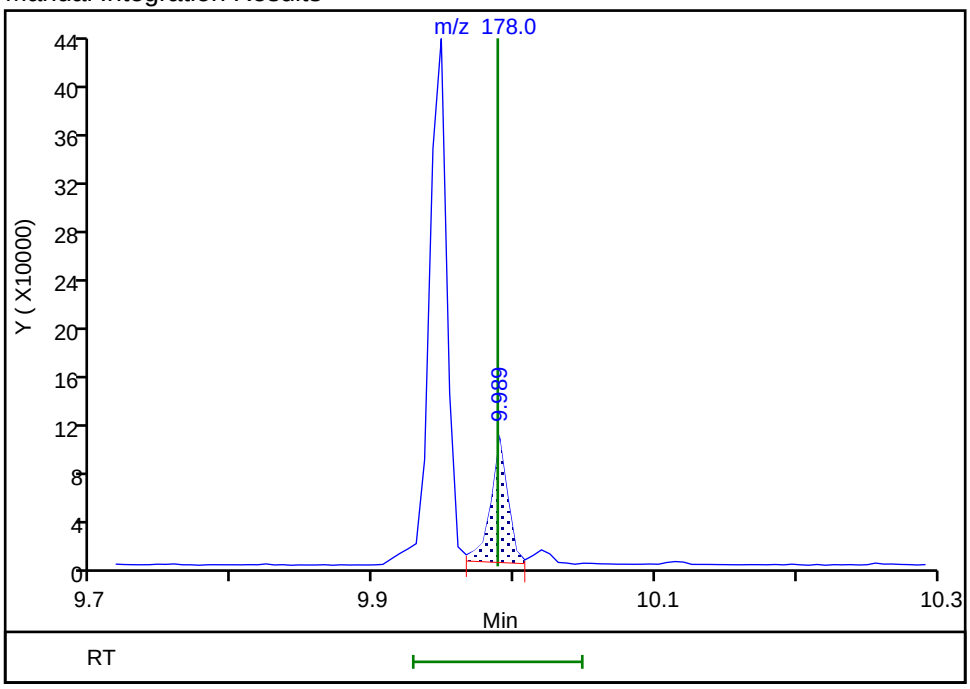
Processing Integration Results

RT: 10.02
Area: 12618
Amount: 0.073681
Amount Units: ng/uL



Manual Integration Results

RT: 9.99
Area: 87638
Amount: 0.511747
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:05:23 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Split Peak

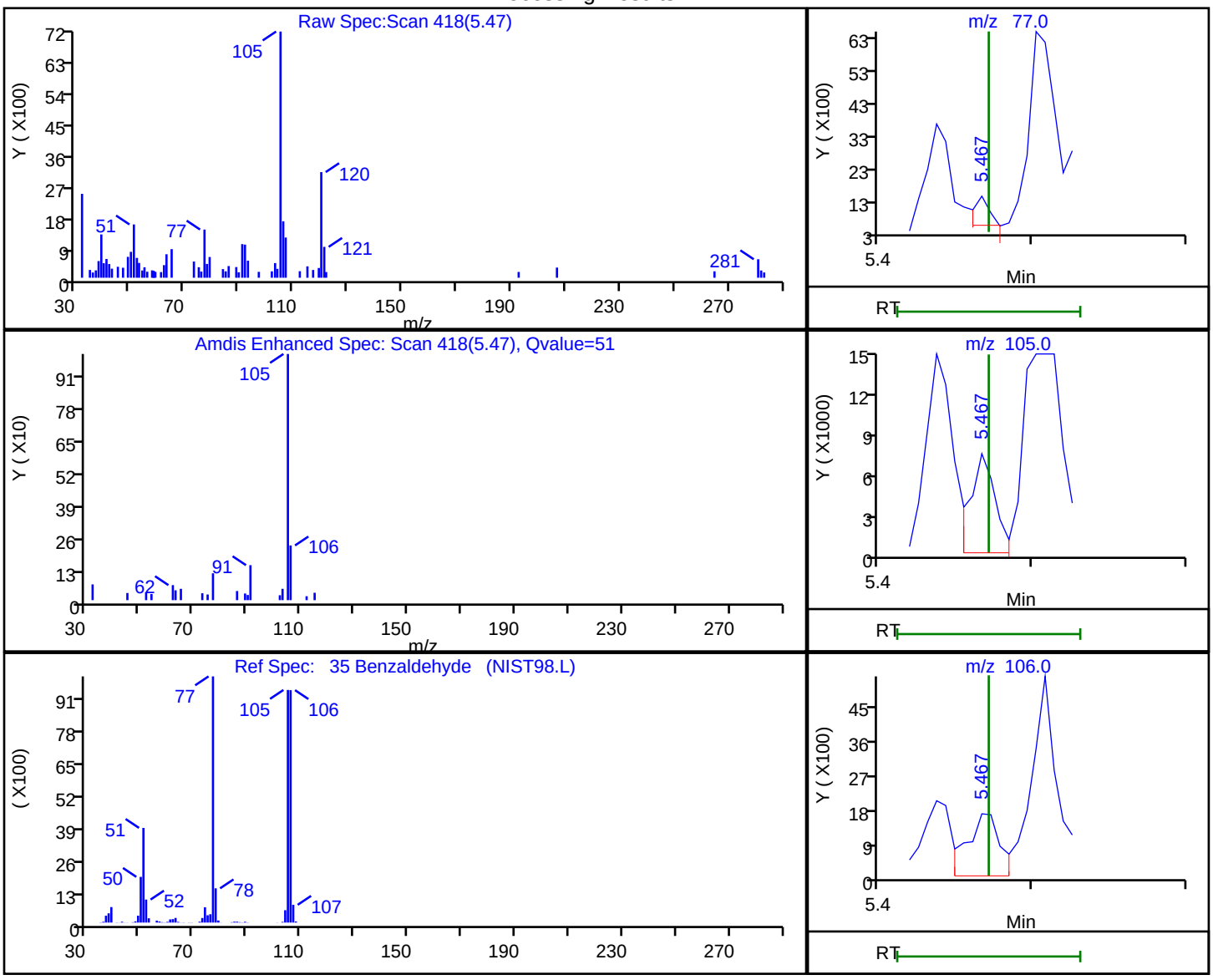
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

35 Benzaldehyde, CAS: 100-52-7

Processing Results



RT	Mass	Response	Amount
5.47	77.00	643	-0.106891
5.47	105.00	8297	
5.47	106.00	2515	

Reviewer: IZ8L, 30-Oct-2024 15:04:48 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

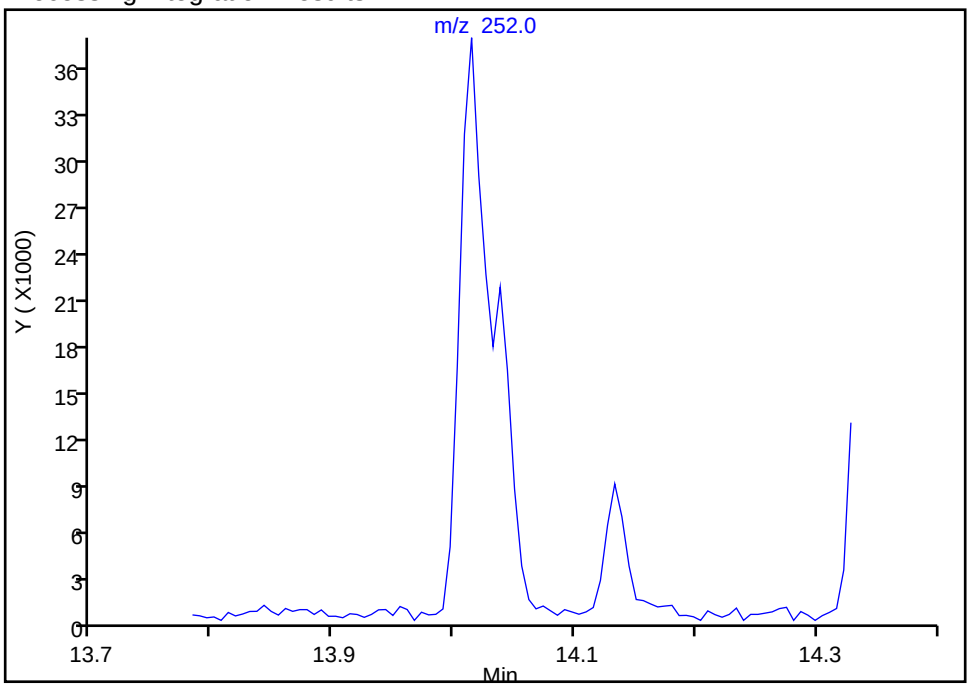
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

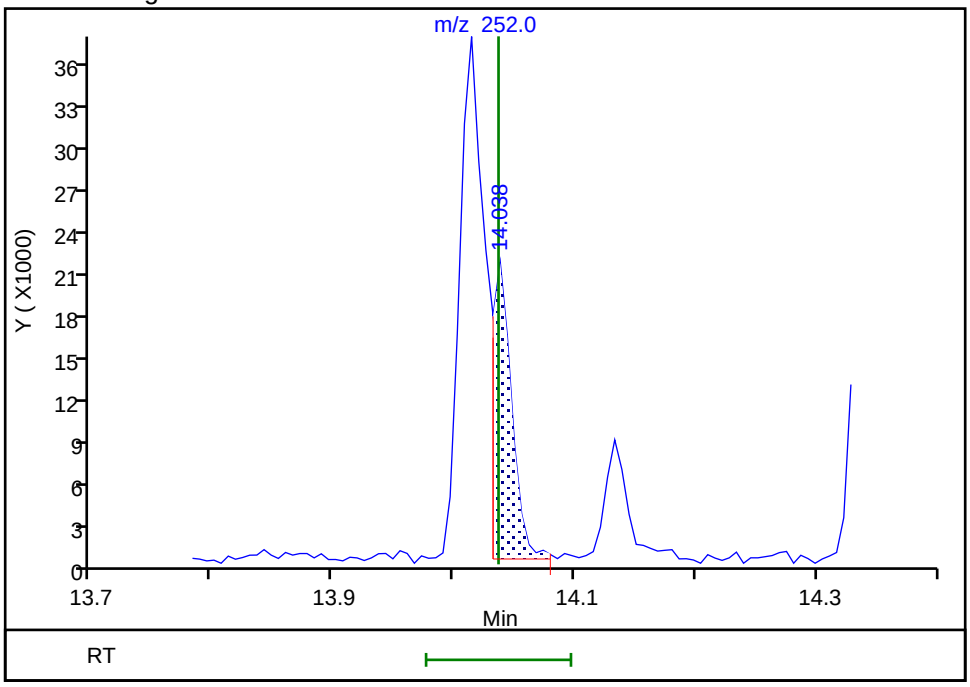
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 24413
Amount: 0.128384
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:05:41 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

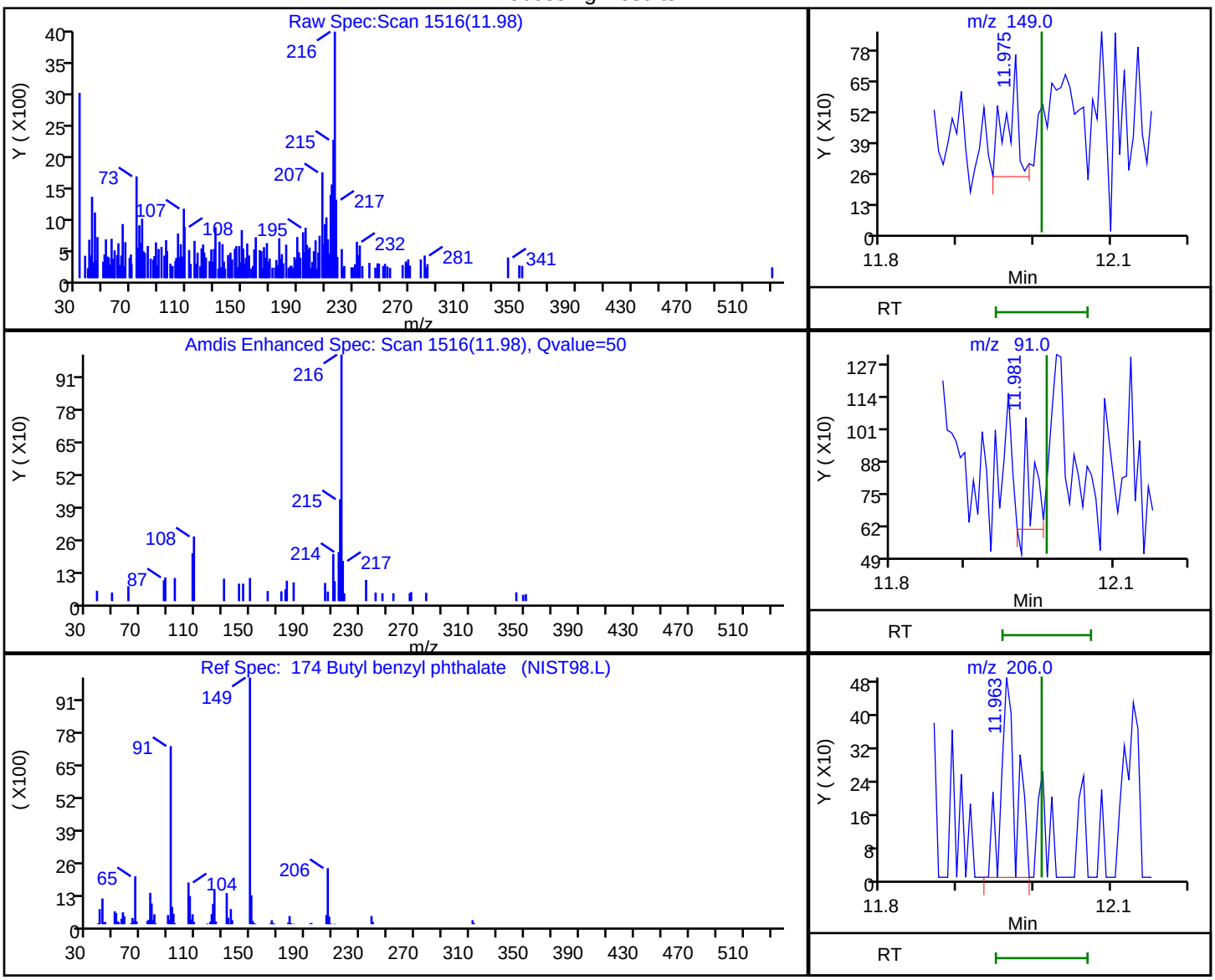
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

174 Butyl benzyl phthalate, CAS: 85-68-7

Processing Results



RT	Mass	Response	Amount
11.98	149.00	545	0.095572
11.98	91.00	309	
11.96	206.00	650	

Reviewer: IZ8L, 30-Oct-2024 15:05:29 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

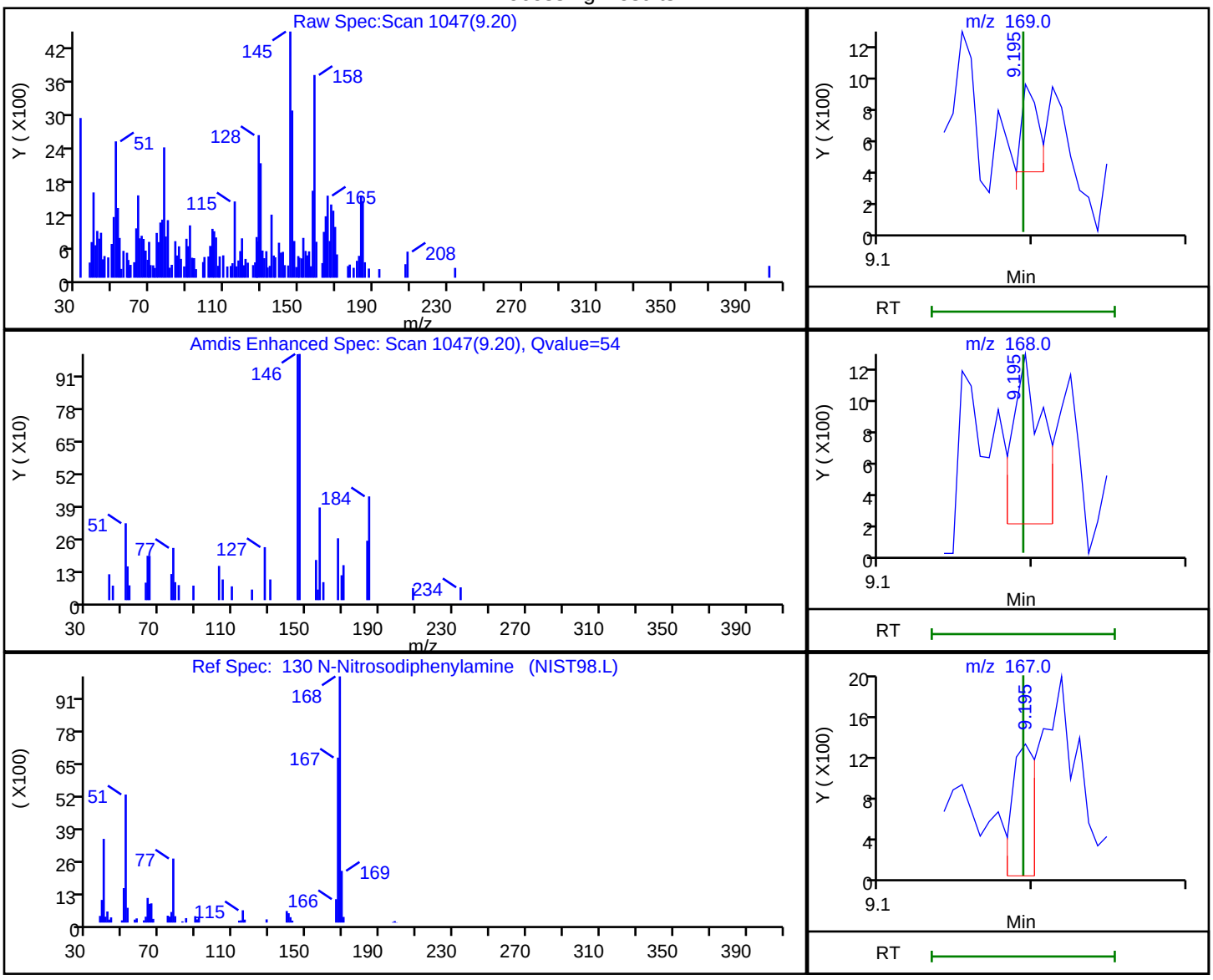
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

130 N-Nitrosodiphenylamine, CAS: 86-30-6

Processing Results



RT	Mass	Response	Amount
9.20	169.00	409	0.004775
9.20	168.00	1372	
9.20	167.00	1438	

Reviewer: IZ8L, 30-Oct-2024 15:05:18 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 DL | Lab Sample ID: 480-224869-3 DL

Matrix: Water | Lab File ID: Y04604.D

Analysis Method: 8270D | Date Collected: 10/24/2024 10:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 50(mL) | Date Analyzed: 10/30/2024 11:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 100

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	*Biphenyl*	*ND*		*2500*	*330*
108-60-1	*bis (2-chloroisopropyl) ether*	*ND*		*2500*	*260*
95-95-4	*2,4,5-Trichlorophenol*	*ND*		*2500*	*240*
88-06-2	*2,4,6-Trichlorophenol*	*ND*		*2500*	*310*
120-83-2	*2,4-Dichlorophenol*	*ND*		*2500*	*260*
105-67-9	2,4-Dimethylphenol	5300		2500	250
51-28-5	*2,4-Dinitrophenol*	*ND*		*5000*	*1100*
121-14-2	*2,4-Dinitrotoluene*	*ND*		*2500*	*220*
606-20-2	*2,6-Dinitrotoluene*	*ND*		*2500*	*200*
91-58-7	*2-Chloronaphthalene*	*ND*		*2500*	*230*
95-57-8	*2-Chlorophenol*	*ND*		*2500*	*270*
91-57-6	*2-Methylnaphthalene*	*1100*	*J*	*2500*	*300*
95-48-7	2-Methylphenol	5900		2500	200
88-74-4	*2-Nitroaniline*	*ND*		*5000*	*210*
88-75-5	*2-Nitrophenol*	*ND*		*2500*	*240*
91-94-1	*3,3'-Dichlorobenzidine*	*ND*		*2500*	*200*
99-09-2	*3-Nitroaniline*	*ND*		*5000*	*240*
534-52-1	*4,6-Dinitro-2-methylphenol*	*ND*		*5000*	*1100*
101-55-3	*4-Bromophenyl phenyl ether*	*ND*		*2500*	*230*
59-50-7	*4-Chloro-3-methylphenol*	*ND*		*2500*	*230*
106-47-8	*4-Chloroaniline*	*ND*		*2500*	*300*
7005-72-3	*4-Chlorophenyl phenyl ether*	*ND*		*2500*	*180*
106-44-5	4-Methylphenol	7200		5000	180
100-01-6	*4-Nitroaniline*	*ND*		*5000*	*130*
100-02-7	*4-Nitrophenol*	*ND*	**+*	*5000*	*760*
83-32-9	*Acenaphthene*	*ND*		*2500*	*210*
208-96-8	*Acenaphthylene*	*660*	*J*	*2500*	*190*
98-86-2	*Acetophenone*	*ND*		*2500*	*270*
120-12-7	*Anthracene*	*ND*		*2500*	*140*
1912-24-9	*Atrazine*	*ND*		*2500*	*230*
100-52-7	*Benzaldehyde*	*ND*		*2500*	*130*

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 DL | Lab Sample ID: 480-224869-3 DL

Matrix: Water | Lab File ID: Y04604.D

Analysis Method: 8270D | Date Collected: 10/24/2024 10:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 50(mL) | Date Analyzed: 10/30/2024 11:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 100

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		2500	180
50-32-8	Benzo(a)pyrene	ND		2500	240
205-99-2	Benzo(b)fluoranthene	ND		2500	170
191-24-2	Benzo(g,h,i)perylene	ND		2500	180
207-08-9	Benzo(k)fluoranthene	ND		2500	370
111-91-1	Bis(2-chloroethoxy)methane	ND		2500	180
111-44-4	Bis(2-chloroethyl)ether	ND		2500	200
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2500	1100
85-68-7	Butyl benzyl phthalate	ND		2500	500
105-60-2	Caprolactam	ND		2500	1100
86-74-8	Carbazole	500	J	2500	150
218-01-9	Chrysene	ND		2500	170
84-74-2	Di-n-butyl phthalate	ND		2500	160
117-84-0	Di-n-octyl phthalate	ND		2500	240
53-70-3	Dibenz(a,h)anthracene	ND		2500	210
132-64-9	Dibenzofuran	ND		5000	260
84-66-2	Diethyl phthalate	ND		2500	110
131-11-3	Dimethyl phthalate	ND		2500	180
206-44-0	Fluoranthene	ND		2500	200
86-73-7	Fluorene	280	J	2500	180
118-74-1	Hexachlorobenzene	ND		2500	260
87-68-3	Hexachlorobutadiene	ND		2500	340
77-47-4	Hexachlorocyclopentadiene	ND		2500	300
67-72-1	Hexachloroethane	ND		2500	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2500	240
78-59-1	Isophorone	ND		2500	220
621-64-7	N-Nitrosodi-n-propylamine	ND		2500	270
86-30-6	N-Nitrosodiphenylamine	ND		2500	260
91-20-3	Naphthalene	17000		2500	380
98-95-3	Nitrobenzene	ND		2500	150
87-86-5	Pentachlorophenol	ND		5000	1100

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 DL | Lab Sample ID: 480-224869-3 DL

Matrix: Water | Lab File ID: Y04604.D

Analysis Method: 8270D | Date Collected: 10/24/2024 10:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 50(mL) | Date Analyzed: 10/30/2024 11:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 100

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	*Phenanthrene*	*420*	*J*	*2500*	*220*
108-95-2	*Phenol*	*2900*		*2500*	*200*
129-00-0	*Pyrene*	*ND*		*2500*	*170*

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	S1-	25-144
321-60-8	2-Fluorobiphenyl	75		53-126
367-12-4	2-Fluorophenol	0	S1-	24-120
4165-60-0	Nitrobenzene-d5	129		29-129
1718-51-0	p-Terphenyl-d14	66		33-132
4165-62-2	Phenol-d5	0	S1-	10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D
Lims ID: 480-224869-B-3-A
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 30-Oct-2024 11:12:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 100.0000
Sample Info: 480-0120914-005
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:59:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.887	5.883	0.004	97	152823	4.00	
* 2 Naphthalene-d8	136	7.090	7.086	0.004	99	584265	4.00	
* 3 Acenaphthene-d10	164	8.649	8.651	-0.002	94	323918	4.00	
* 4 Phenanthrene-d10	188	9.923	9.926	-0.003	97	552317	4.00	
* 5 Chrysene-d12	240	12.775	12.777	-0.002	99	447683	4.00	
* 6 Perylene-d12	264	14.464	14.460	0.004	97	506286	4.00	
$ 7 2-Fluorophenol	112		4.638				ND	
$ 8 Phenol-d5	99		5.521				ND	
$ 9 Nitrobenzene-d5	82	6.414	6.410	0.004	90	3149	0.1036	
$ 10 2-Fluorobiphenyl	172	8.038	8.035	0.003	96	6673	0.0599	
$ 11 2,4,6-Tribromophenol	330		9.327				ND	
$ 12 p-Terphenyl-d14	244	11.482	11.485	-0.003	96	6453	0.0532	a
35 Benzaldehyde	77		5.474				ND	
37 Phenol	94	5.537	5.533	0.004	88	84599	1.43	
39 Bis(2-chloroethyl)ether	93		5.604				ND	
40 2-Chlorophenol	128		5.699				ND	
48 2-Methylphenol	108	6.112	6.108	0.004	96	133247	2.97	
49 2,2'-oxybis[1-chloropropane]	45		6.120				ND	
53 N-Nitrosodi-n-propylamine	70		6.244				ND	
57 4-Methylphenol	108	6.254	6.256	-0.002	83	168236	3.61	
52 Acetophenone	105		6.262				ND	
58 Hexachloroethane	117		6.375				ND	
59 Nitrobenzene	77		6.434				ND	
62 Isophorone	82		6.647				ND	
64 2-Nitrophenol	139		6.730				ND	
66 2,4-Dimethylphenol	107	6.752	6.748	0.004	96	134669	2.65	
69 Bis(2-chloroethoxy)methane	93		6.819				ND	
72 2,4-Dichlorophenol	162		6.962				ND	
74 Naphthalene	128	7.108	7.110	-0.002	98	1273837	8.25	
76 4-Chloroaniline	127		7.145				ND	
79 Hexachlorobutadiene	225		7.205				ND	
84 Caprolactam	113		7.466				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.578				ND	
87 2-Methylnaphthalene	142	7.730	7.726	0.004	91	51959	0.5458	
90 Hexachlorocyclopentadiene	237		7.869				ND	
93 2,4,6-Trichlorophenol	196		7.981				ND	
94 2,4,5-Trichlorophenol	196		8.023				ND	
96 1,1'-Biphenyl	154	8.133	8.129	0.004	95	5497	0.0463	
97 2-Chloronaphthalene	162		8.165				ND	
100 2-Nitroaniline	65		8.248				ND	
105 Dimethyl phthalate	163		8.372				ND	
107 2,6-Dinitrotoluene	165		8.438				ND	
108 Acenaphthylene	152	8.530	8.533	-0.002	98	47090	0.3282	
109 3-Nitroaniline	138		8.598				ND	
110 Acenaphthene	153	8.679	8.681	-0.002	81	1861	0.0194	
111 2,4-Dinitrophenol	184		8.693				ND	
112 4-Nitrophenol	109		8.752				ND	
114 2,4-Dinitrotoluene	165		8.799				ND	
115 Dibenzofuran	168	8.827	8.823	0.004	96	13731	0.1057	
120 Diethyl phthalate	149		8.965				ND	
123 4-Chlorophenyl phenyl ether	204		9.090				ND	
124 Fluorene	166	9.117	9.119	-0.002	97	14049	0.1413	
126 4-Nitroaniline	138		9.131				ND	
127 4,6-Dinitro-2-methylphenol	198		9.155				ND	
130 N-Nitrosodiphenylamine	169		9.190				ND	
139 4-Bromophenyl phenyl ether	248		9.511				ND	
140 Hexachlorobenzene	284		9.605				ND	
143 Atrazine	200		9.617				ND	
145 Pentachlorophenol	266		9.765				ND	
151 Phenanthrene	178	9.947	9.943	0.004	95	32197	0.2109	
152 Anthracene	178	9.989	9.991	-0.002	90	7581	0.0496	
153 Carbazole	167	10.119	10.121	-0.002	96	34218	0.2521	
157 Di-n-butyl phthalate	149		10.358				ND	
164 Fluoranthene	202	11.109	11.111	-0.002	97	13528	0.0835	
167 Pyrene	202	11.370	11.372	-0.002	96	10307	0.0687	
174 Butyl benzyl phthalate	149		12.006				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.664				ND	
179 3,3'-Dichlorobenzidine	252		12.700				ND	
180 Benzo[a]anthracene	228		12.765				ND	
182 Chrysene	228		12.806				ND	
184 Di-n-octyl phthalate	149		13.417				ND	
186 Benzo[b]fluoranthene	252	14.014	14.010	0.004	91	4305	0.0457	
187 Benzo[k]fluoranthene	252	14.043	14.039	0.004	1	3069	0.0189	Ma
189 Benzo[a]pyrene	252	14.405	14.395	0.010	73	3194	0.0446	
194 Dibenz(a,h)anthracene	278		15.936				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.948				ND	
195 Benzo[g,h,i]perylene	276		16.393				ND	

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

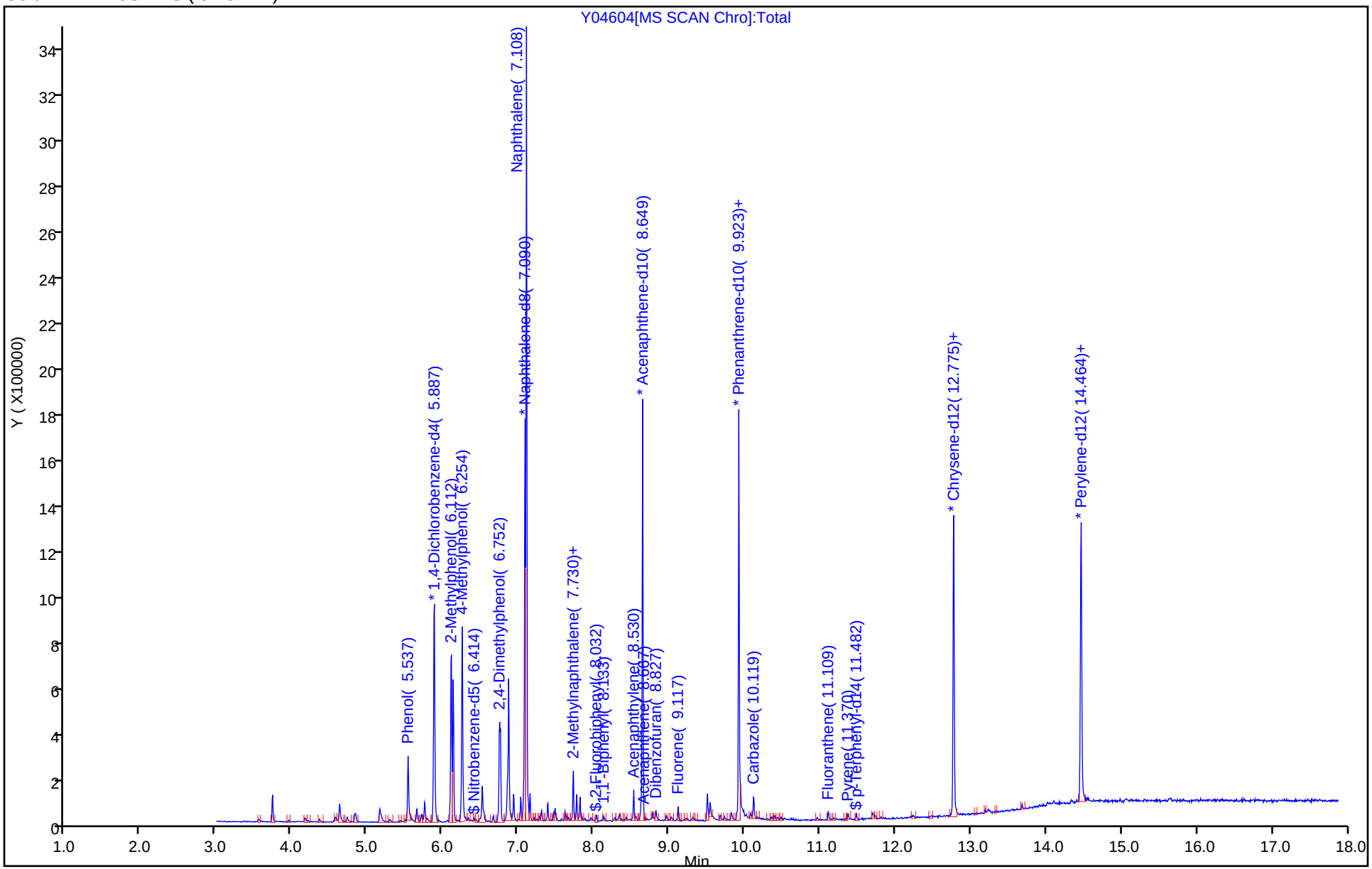
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3	Worklist Smp#:	5
Client ID:	MW-BCP-10A-10242024				
Injection Vol:	2.0 ul	Dil. Factor:	100.0000	ALS Bottle#:	5
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D
Lims ID: 480-224869-B-3-A
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 30-Oct-2024 11:12:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 100.0000
Sample Info: 480-0120914-005
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:59:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 Nitrobenzene-d5	8.00	0.1036	129.48
$ 10 2-Fluorobiphenyl	8.00	0.0599	74.92
$ 12 p-Terphenyl-d14	8.00	0.0532	66.47

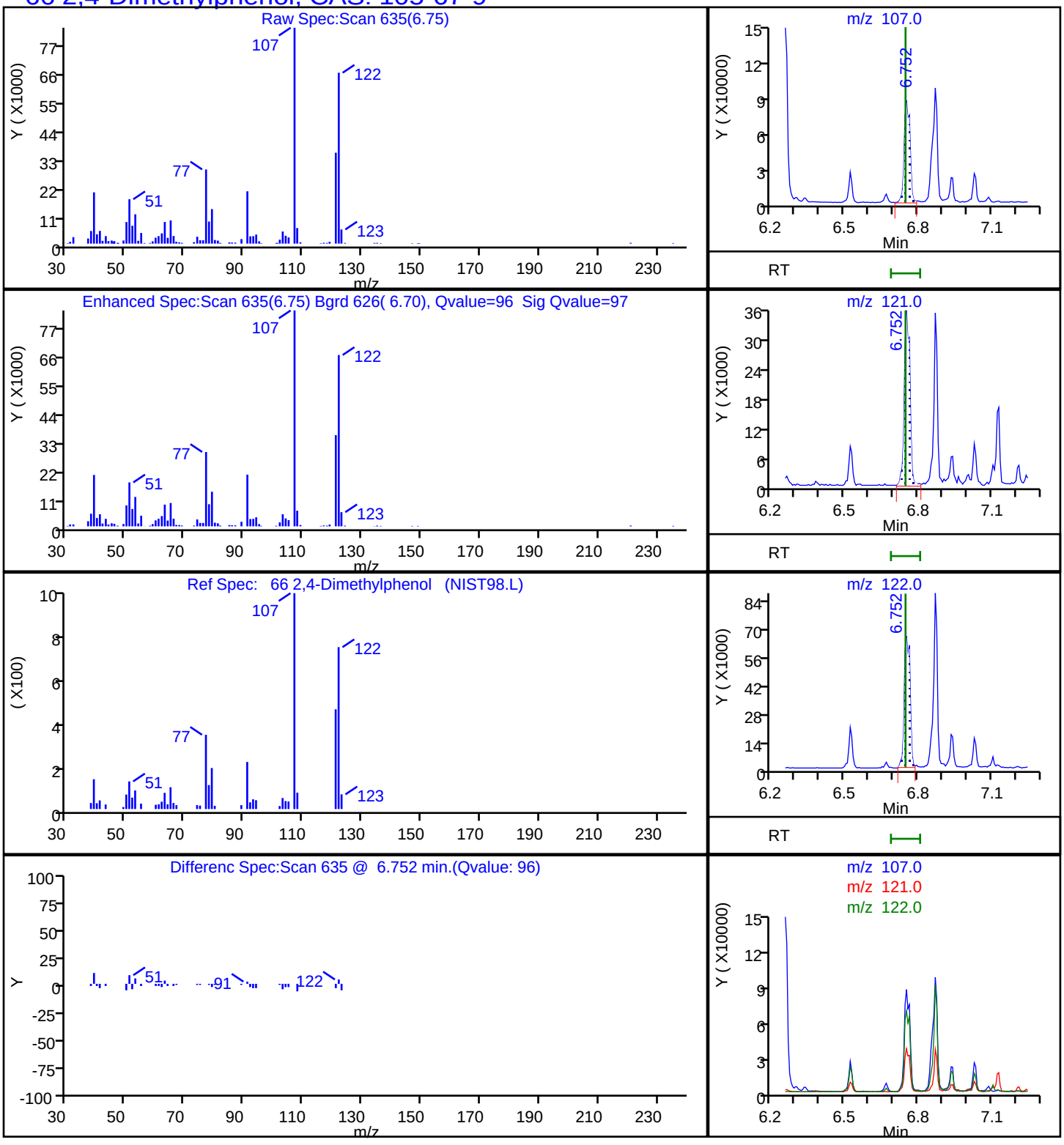
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dimethylphenol, CAS: 105-67-9



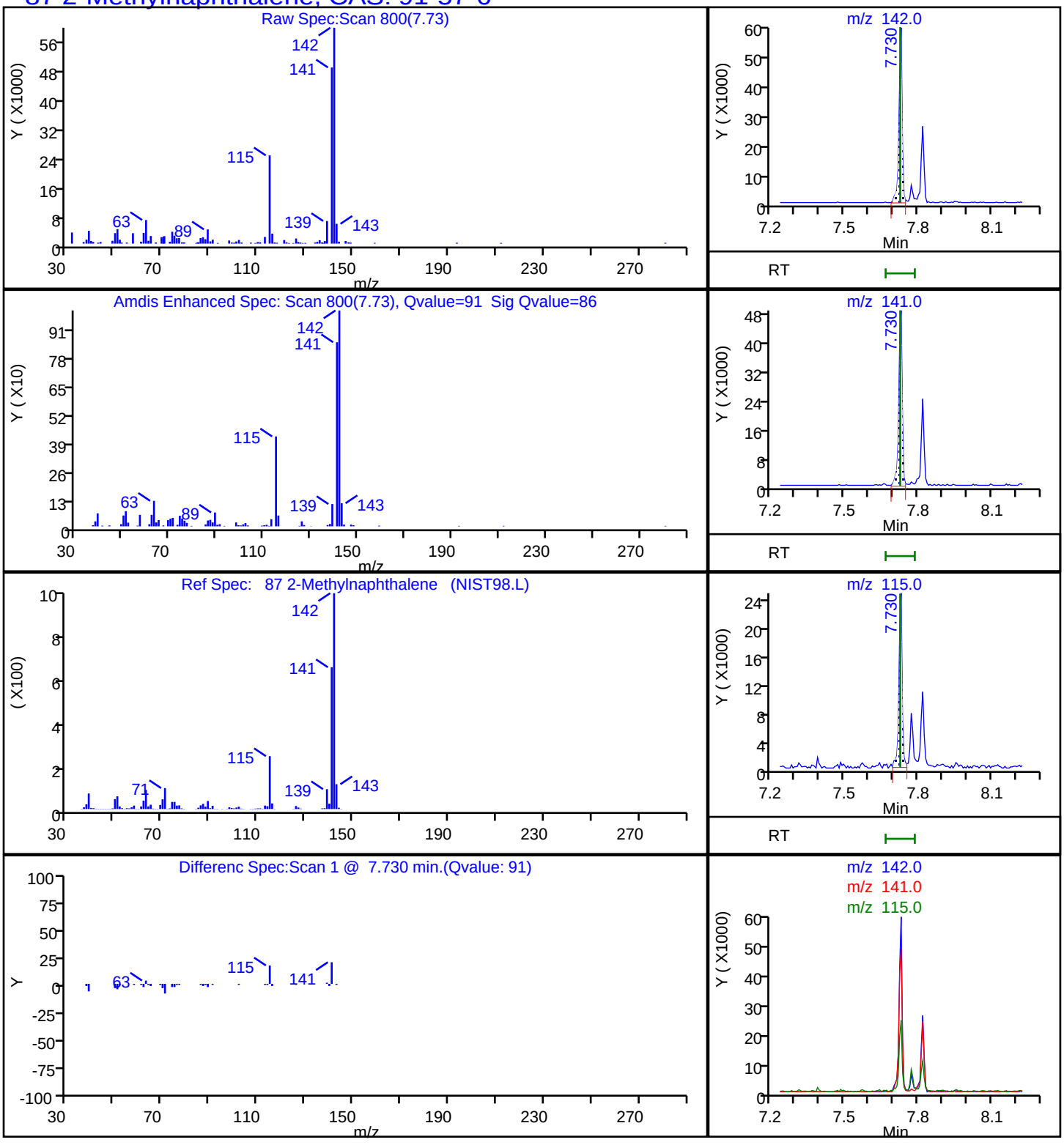
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

87 2-Methylnaphthalene, CAS: 91-57-6



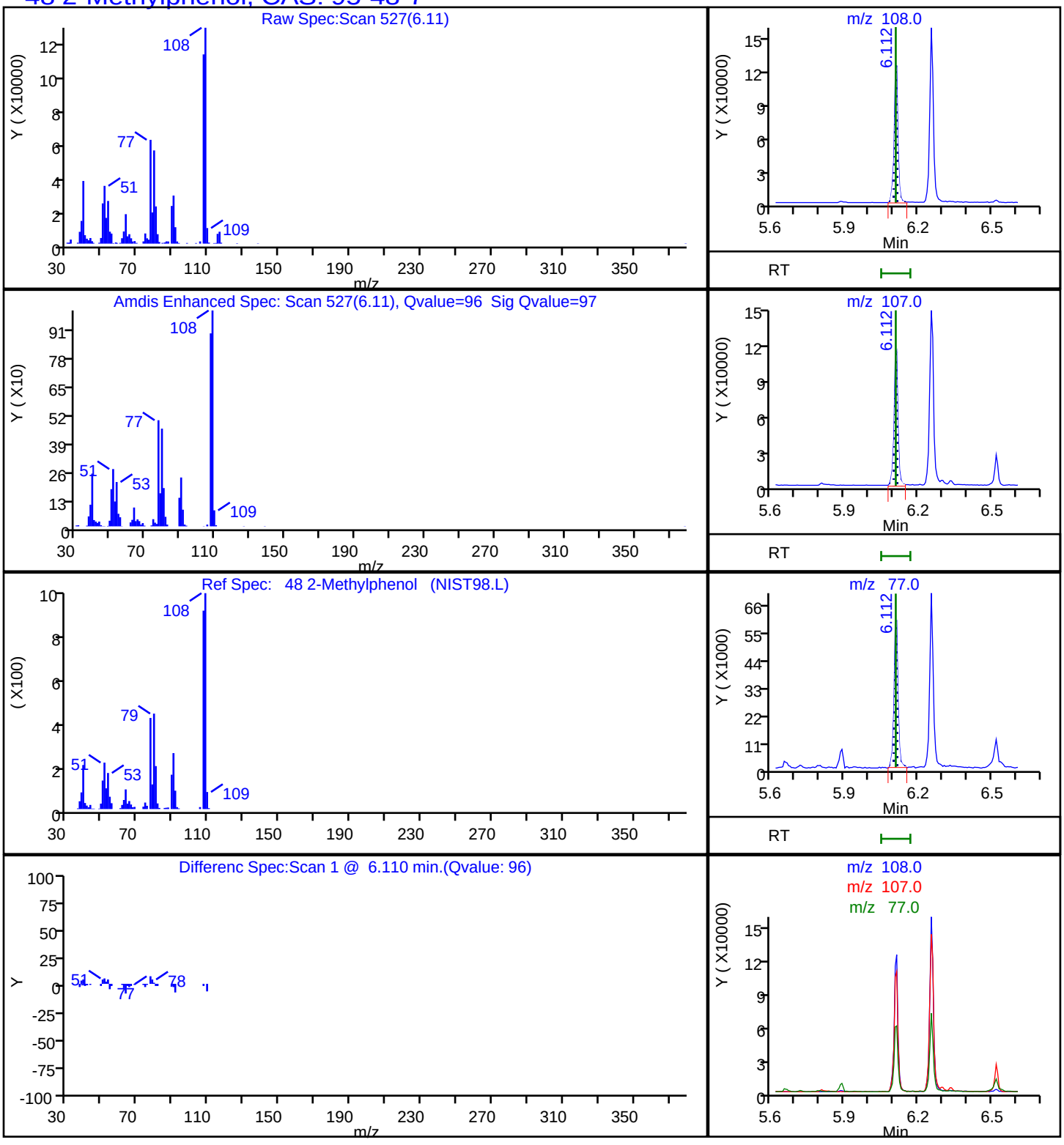
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

48 2-Methylphenol, CAS: 95-48-7



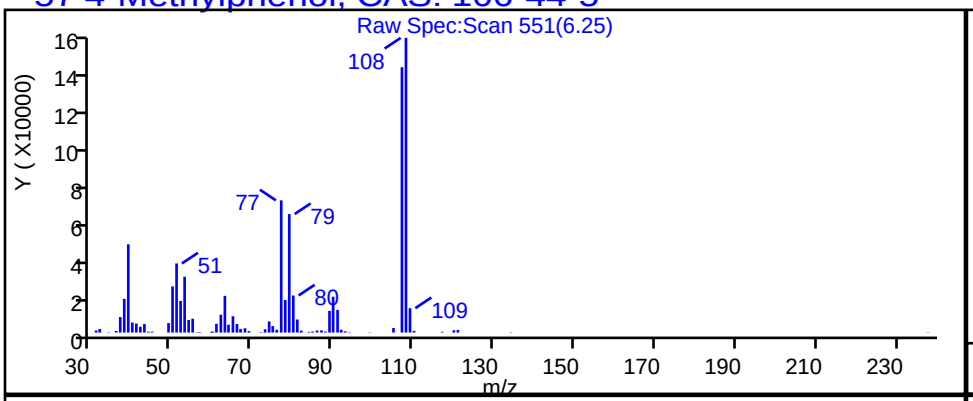
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

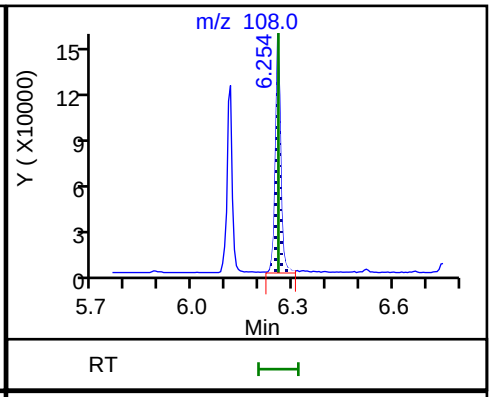
Eurofins Buffalo

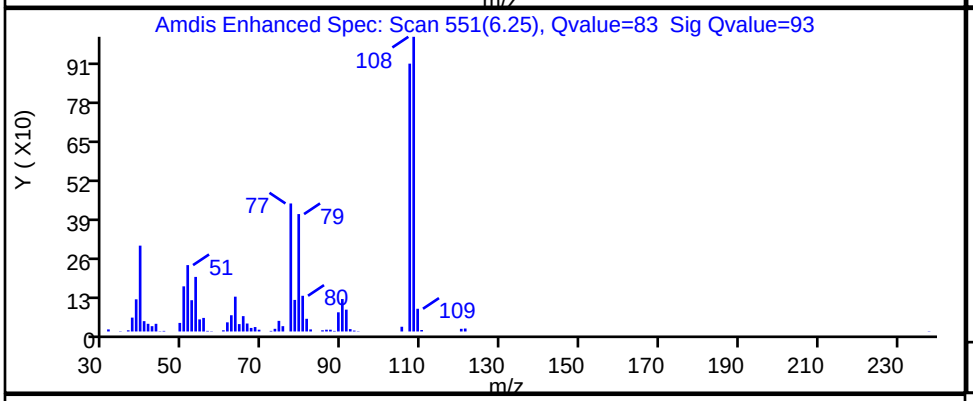
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

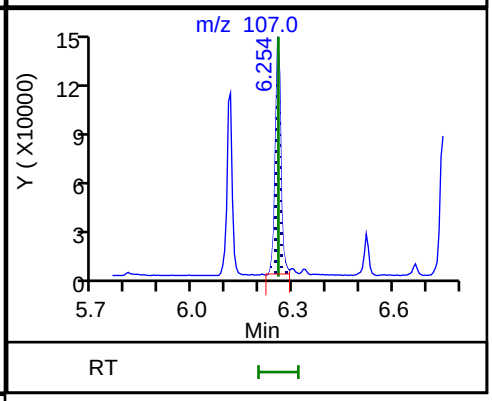
Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

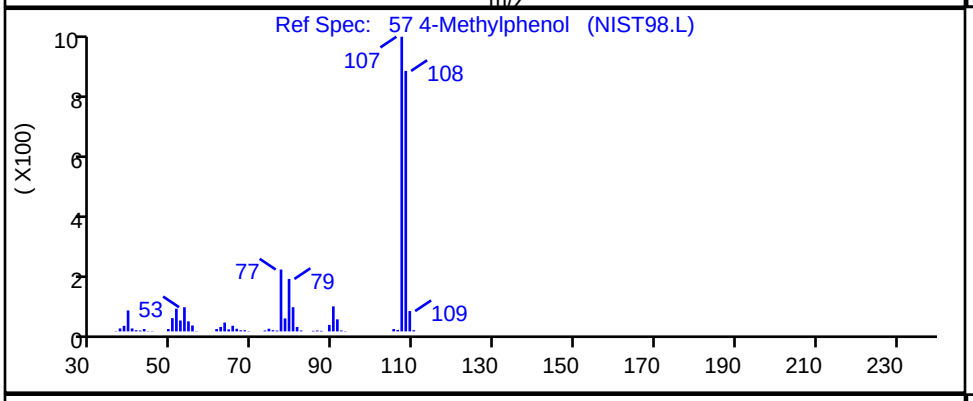
57 4-Methylphenol, CAS: 106-44-5

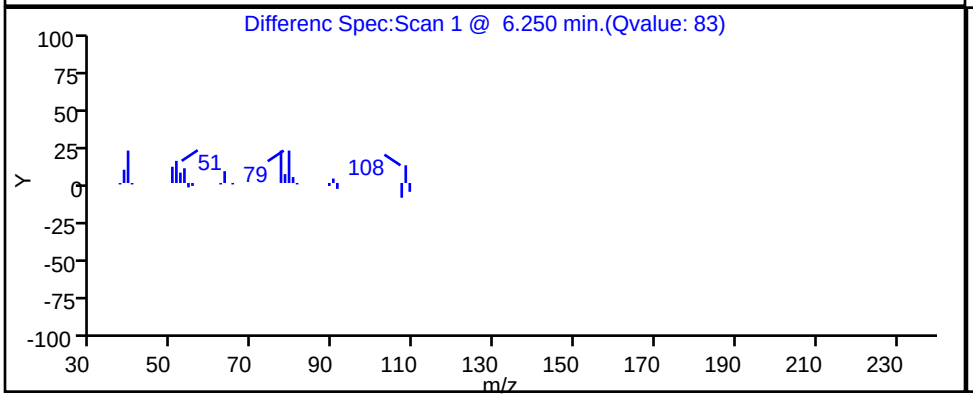


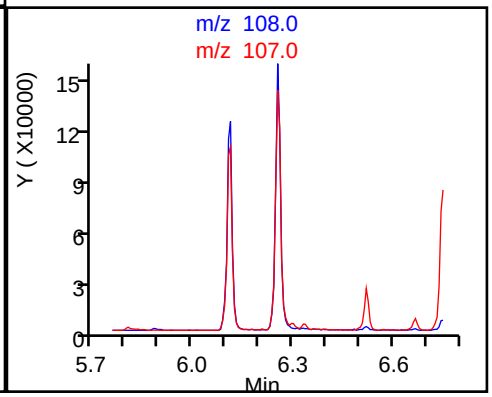












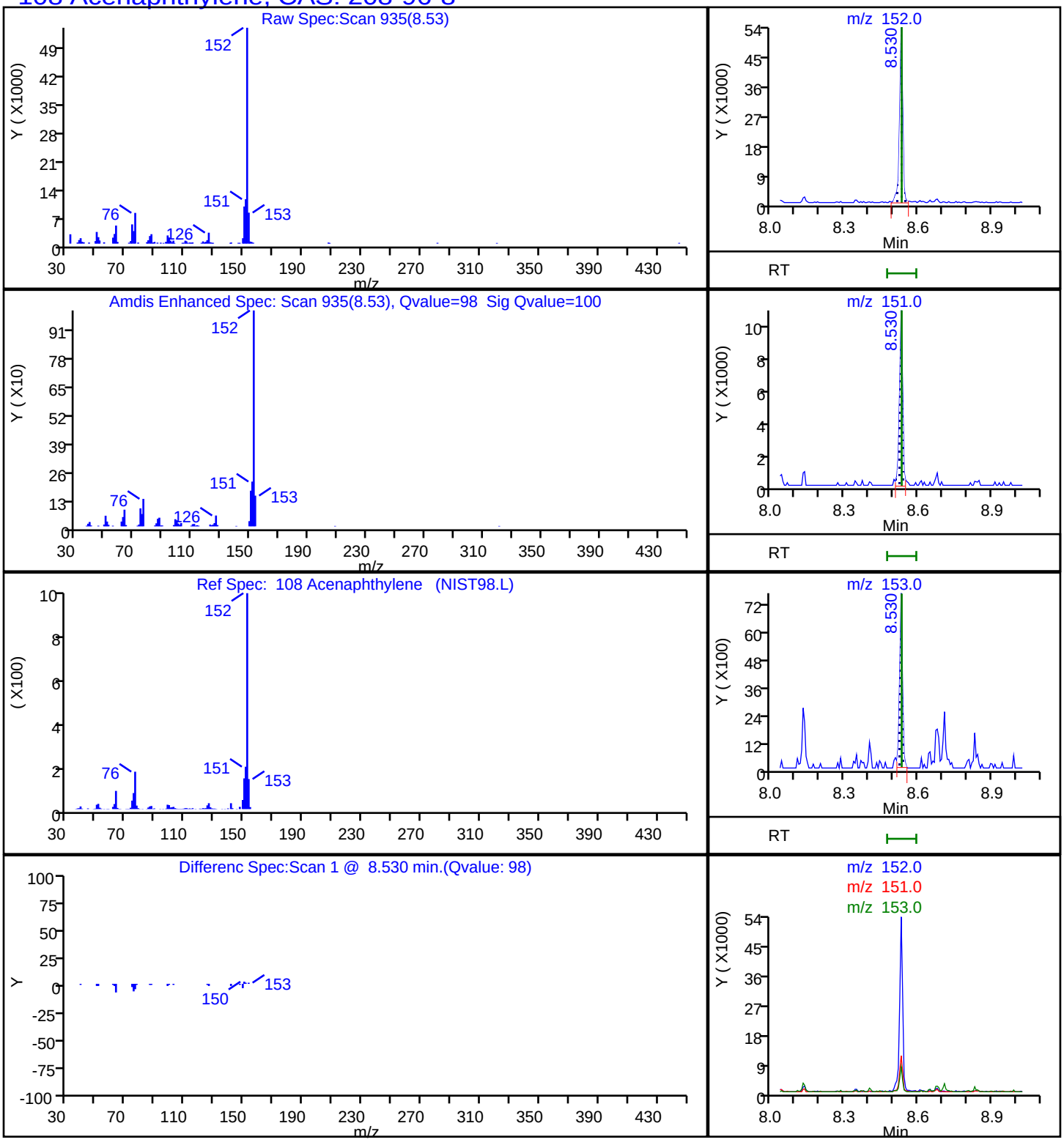
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

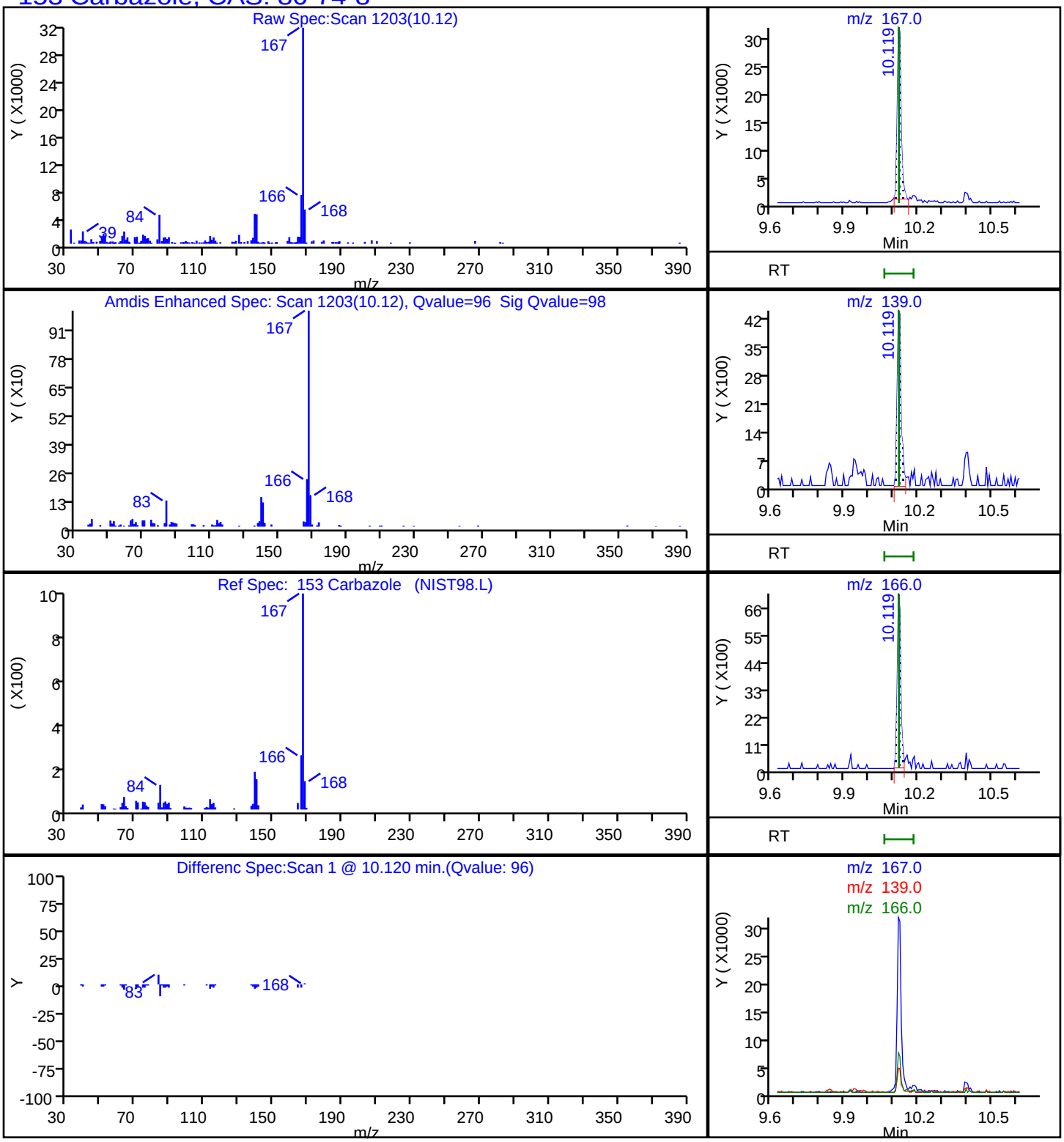
108 Acenaphthylene, CAS: 208-96-8



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D		
Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

153 Carbazole, CAS: 86-74-8



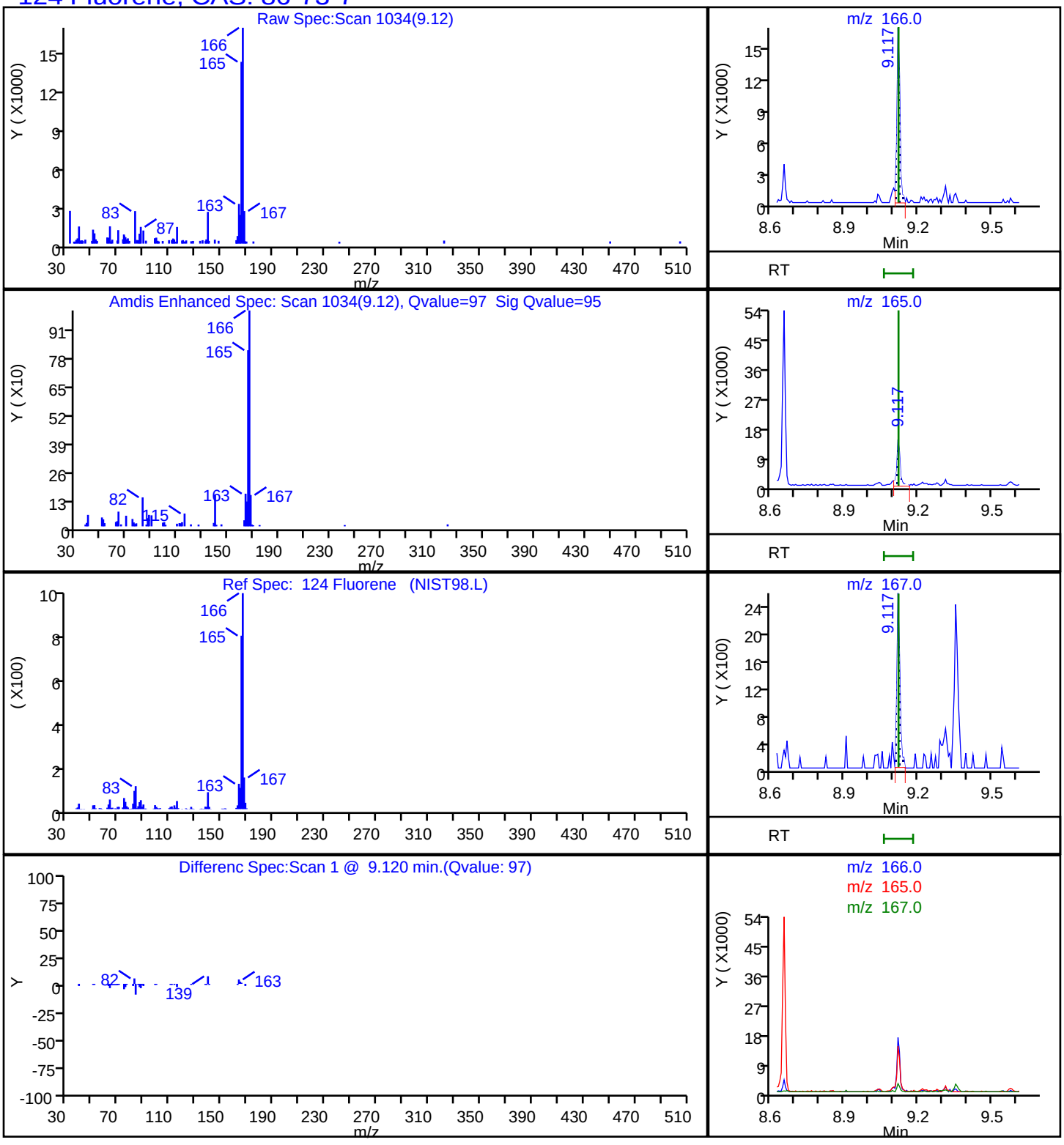
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

124 Fluorene, CAS: 86-73-7



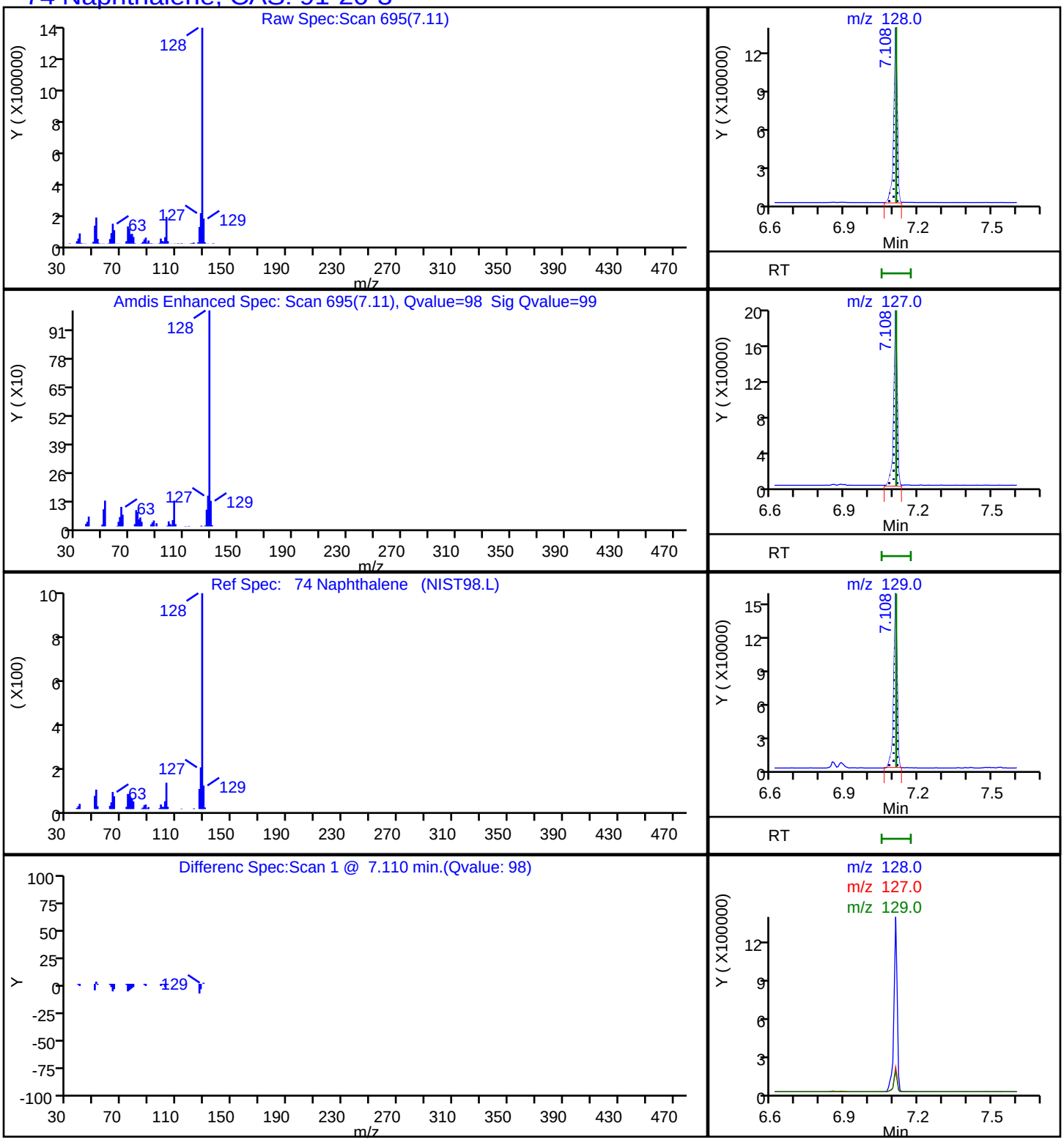
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

74 Naphthalene, CAS: 91-20-3



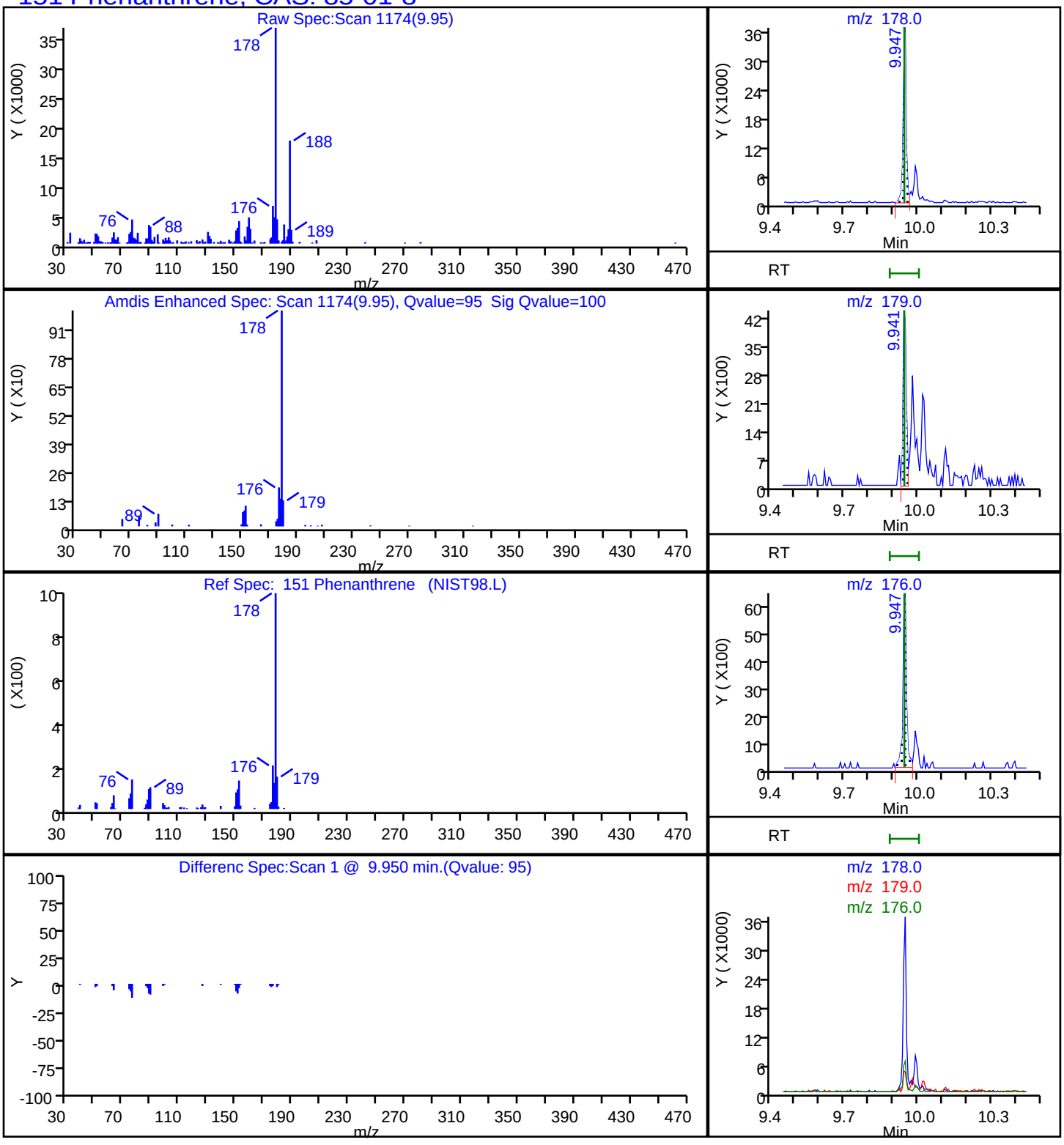
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

151 Phenanthrene, CAS: 85-01-8



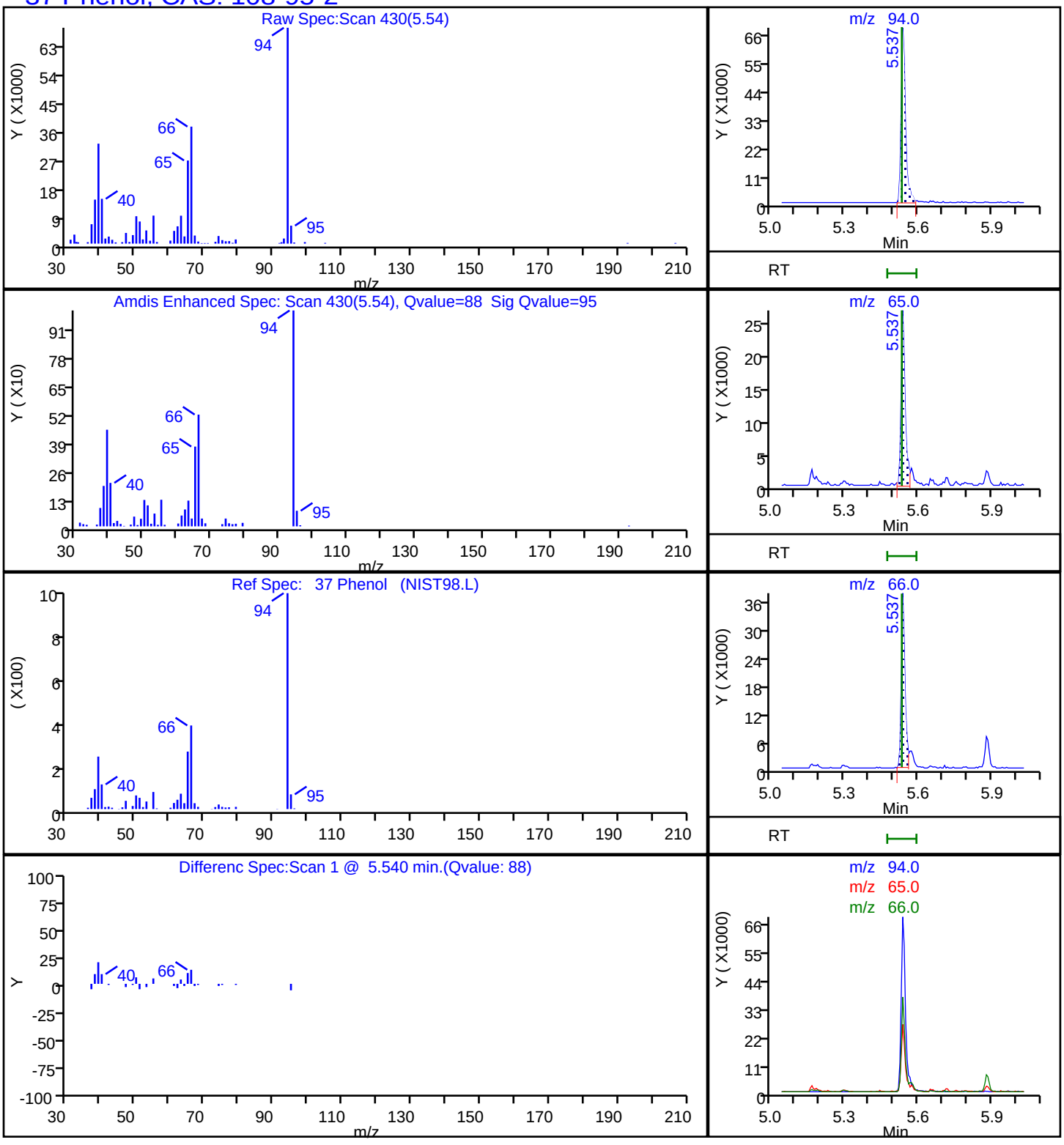
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

37 Phenol, CAS: 108-95-2



Manual Integration/User Assign Peak Report

Eurofins Buffalo

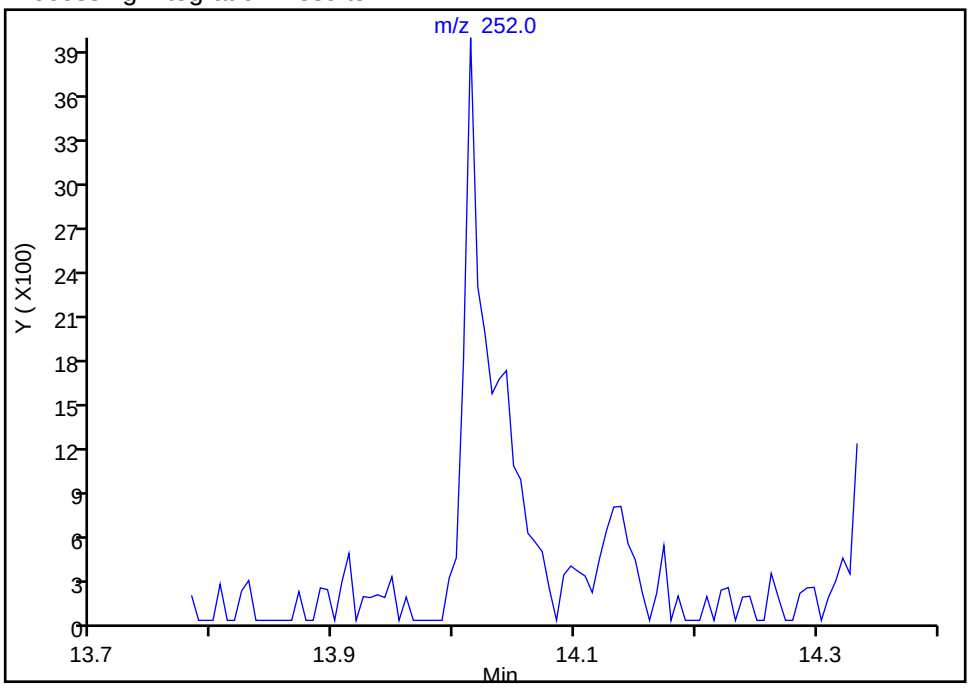
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D				
Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

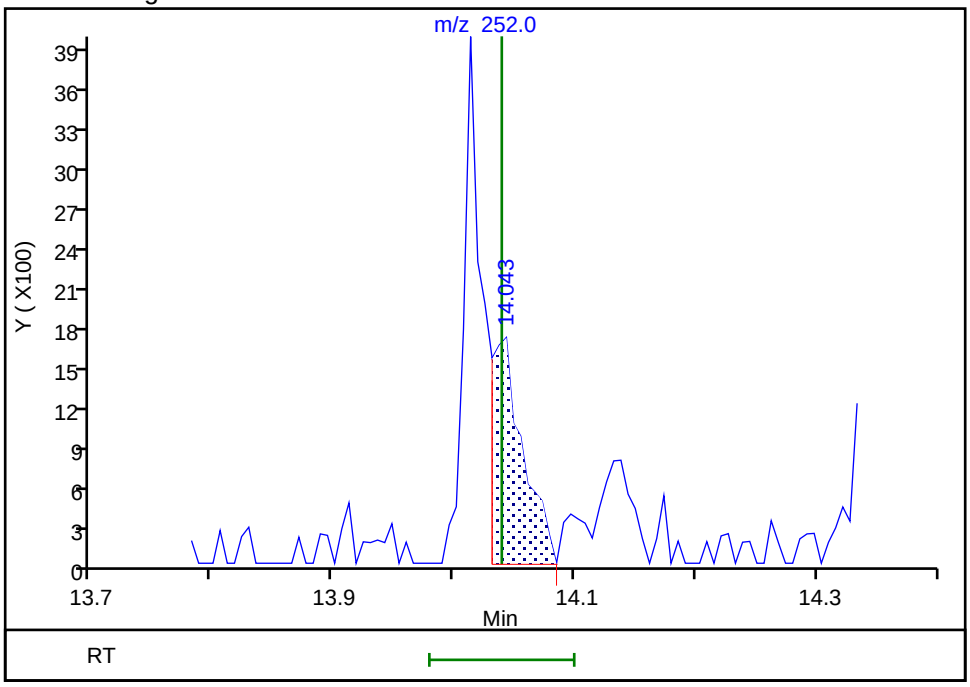
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 3069
Amount: 0.018906
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:59:26 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

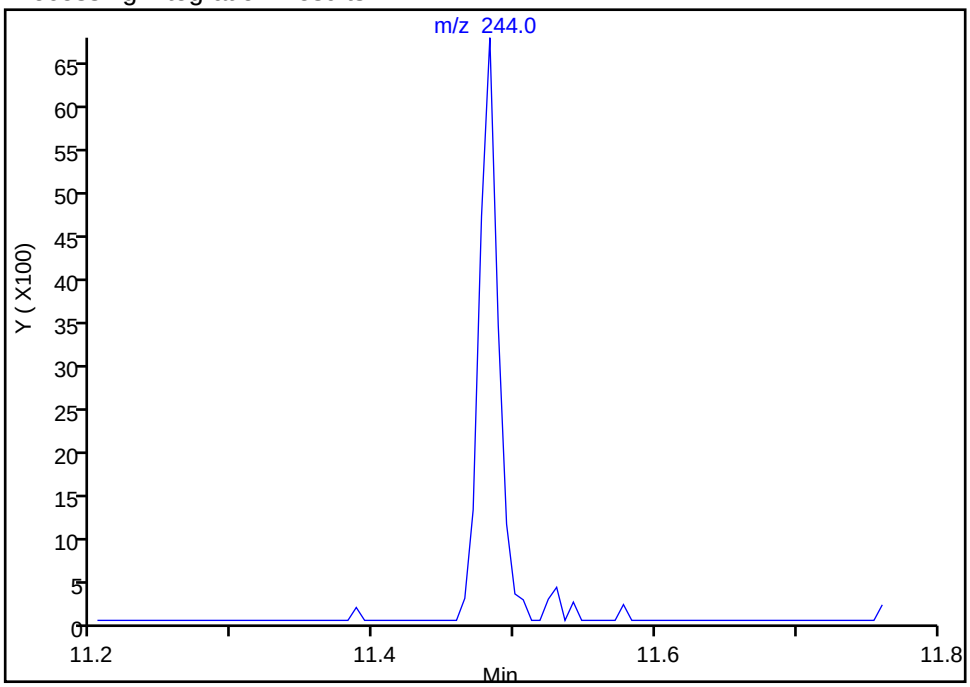
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D				
Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

$ 12 p-Terphenyl-d14, CAS: 1718-51-0

Signal: 1

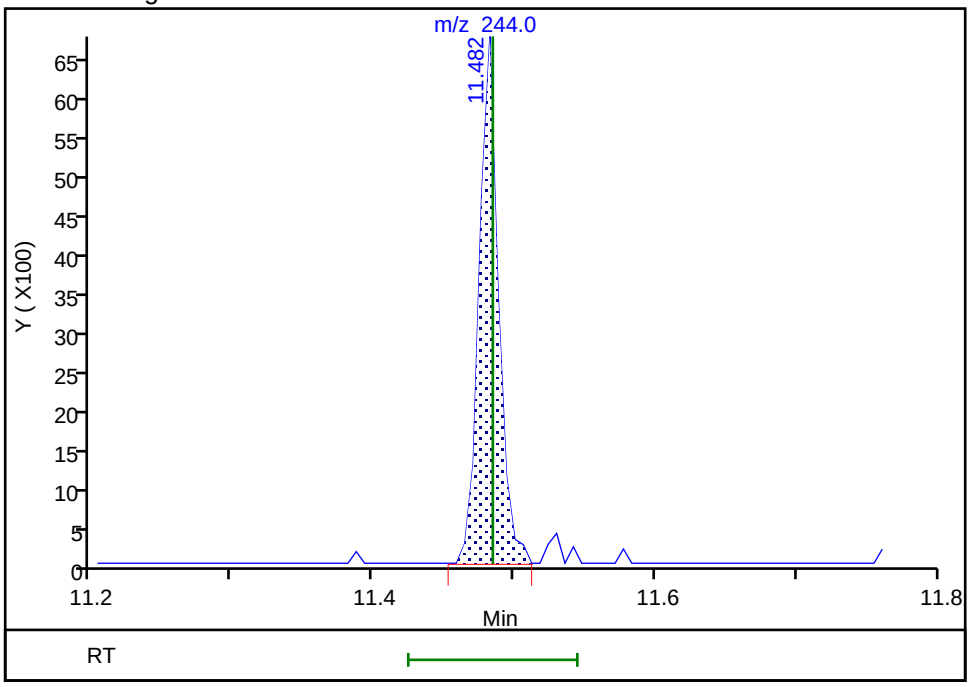
Not Detected
Expected RT: 11.48

Processing Integration Results



Manual Integration Results

RT: 11.48
Area: 6453
Amount: 0.053173
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:58:48 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-11A-10242024 | Lab Sample ID: 480-224869-5

Matrix: Water | Lab File ID: Y04590.D

Analysis Method: 8270D | Date Collected: 10/24/2024 11:35

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 19:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND	*+	10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-11A-10242024 | Lab Sample ID: 480-224869-5

Matrix: Water | Lab File ID: Y04590.D

Analysis Method: 8270D | Date Collected: 10/24/2024 11:35

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 19:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		5.0	0.36
50-32-8	Benzo(a)pyrene	ND		5.0	0.47
205-99-2	Benzo(b)fluoranthene	0.48	J	5.0	0.34
191-24-2	Benzo(g,h,i)perylene	ND		5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-11A-10242024 | Lab Sample ID: 480-224869-5

Matrix: Water | Lab File ID: Y04590.D

Analysis Method: 8270D | Date Collected: 10/24/2024 11:35

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 19:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	79		25-144
321-60-8	2-Fluorobiphenyl	82		53-126
367-12-4	2-Fluorophenol	63		24-120
4165-60-0	Nitrobenzene-d5	91		29-129
1718-51-0	p-Terphenyl-d14	79		33-132
4165-62-2	Phenol-d5	46		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D
Lims ID: 480-224869-B-5-A
Client ID: MW-BCP-11A-10242024
Sample Type: Client
Inject. Date: 29-Oct-2024 19:56:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-021
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:06:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.000	97	162319	4.00	
* 2 Naphthalene-d8	136	7.090	7.089	0.001	99	604078	4.00	
* 3 Acenaphthene-d10	164	8.649	8.648	0.001	93	349640	4.00	
* 4 Phenanthrene-d10	188	9.923	9.929	-0.006	97	591859	4.00	
* 5 Chrysene-d12	240	12.774	12.774	0.000	99	494590	4.00	
* 6 Perylene-d12	264	14.464	14.463	0.001	97	548241	4.00	
$ 7 2-Fluorophenol	112	4.671	4.644	0.030	92	250864	5.02	
$ 8 Phenol-d5	99	5.531	5.527	0.007	88	229750	3.72	
$ 9 Nitrobenzene-d5	82	6.414	6.410	0.000	97	420756	7.24	
$ 10 2-Fluorobiphenyl	172	8.038	8.040	0.000	99	785432	6.54	
$ 11 2,4,6-Tribromophenol	330	9.330	9.327	0.000	82	92677	6.32	
$ 12 p-Terphenyl-d14	244	11.482	11.484	0.000	97	847763	6.32	
35 Benzaldehyde	77		5.471				ND	
37 Phenol	94		5.536				ND	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108		6.111				ND	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108		6.254				ND	
52 Acetophenone	105		6.265				ND	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107		6.751				ND	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.107	7.113	0.000	96	11938	0.0748	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113		7.463				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142	7.730	7.726	0.000	88	1304	0.0132	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154		8.133				ND	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152		8.530				ND	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153		8.678				ND	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	
115 Dibenzofuran	168		8.826				ND	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166		9.123				ND	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.947	9.946	0.000	93	6784	0.0415	
152 Anthracene	178		9.988				ND	U
153 Carbazole	167		10.118				ND	
157 Di-n-butyl phthalate	149	10.356	10.352	0.000	97	5629	0.0301	
164 Fluoranthene	202	11.109	11.104	0.001	97	13641	0.0785	
167 Pyrene	202	11.369	11.366	0.000	97	13519	0.0816	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228	12.756	12.764	-0.006	96	11974	0.0707	
182 Chrysene	228	12.804	12.809	-0.006	92	11725	0.0758	
184 Di-n-octyl phthalate	149		13.420				ND	U
186 Benzo[b]fluoranthene	252	14.013	14.019	0.006	97	17834	0.1207	
187 Benzo[k]fluoranthene	252	14.043	14.037	0.006	1	6034	0.0343	Ma
189 Benzo[a]pyrene	252	14.398	14.401	0.000	79	8363	0.0759	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276	15.969	15.942	0.024	94	7285	0.0577	
195 Benzo[g,h,i]perylene	276	16.420	16.417	0.024	60	6942	0.0624	M

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

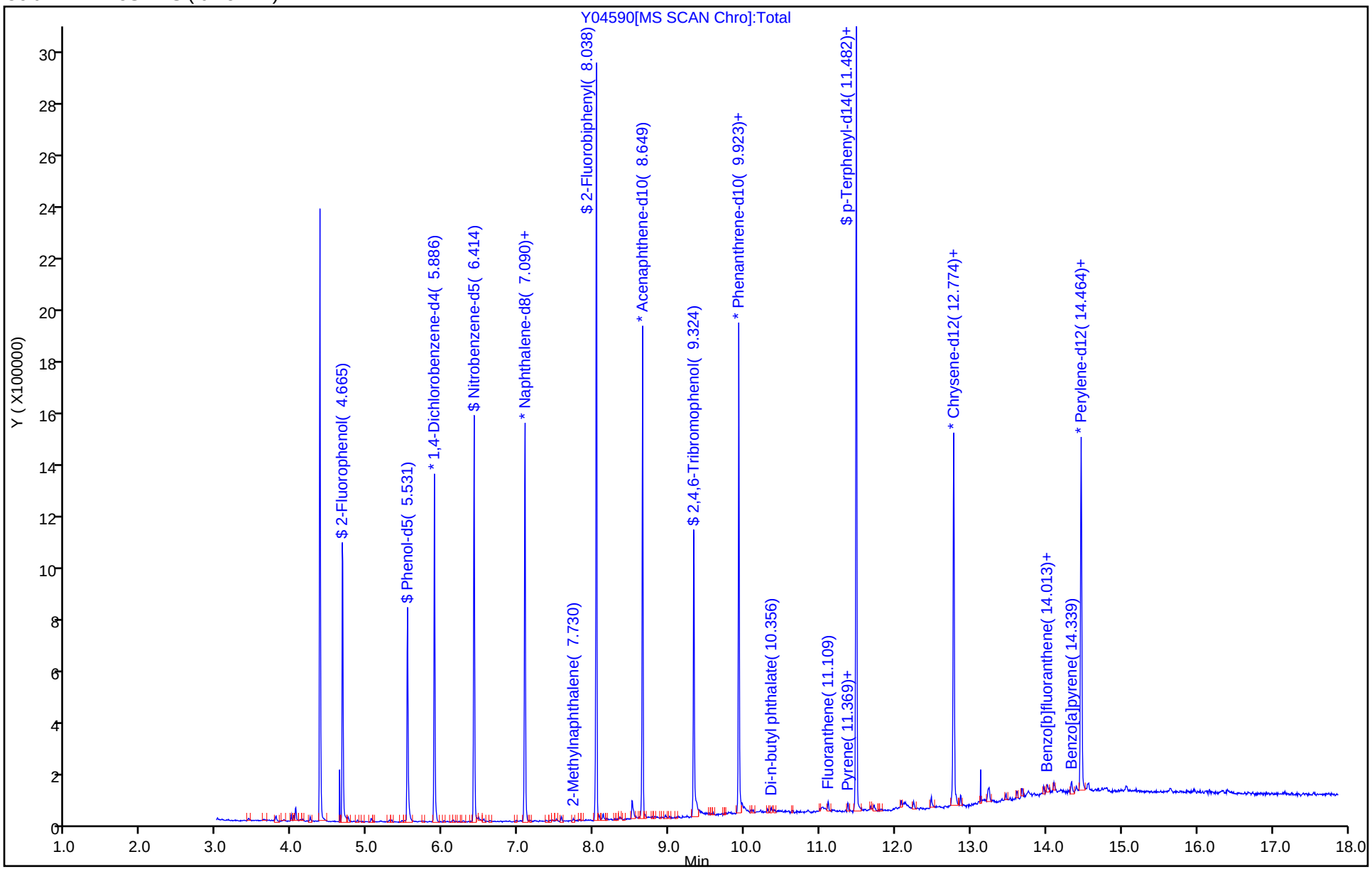
Report Date: 30-Oct-2024 15:17:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D

Injection Date:	29-Oct-2024 19:56:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-5-A	Lab Sample ID:	480-224869-5	Worklist Smp#:	21
Client ID:	MW-BCP-11A-10242024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D
Lims ID: 480-224869-B-5-A
Client ID: MW-BCP-11A-10242024
Sample Type: Client
Inject. Date: 29-Oct-2024 19:56:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-021
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:06:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.02	62.70
$ 8 Phenol-d5	8.00	3.72	46.48
$ 9 Nitrobenzene-d5	8.00	7.24	90.50
$ 10 2-Fluorobiphenyl	8.00	6.54	81.70
$ 11 2,4,6-Tribromophenol	8.00	6.32	78.95
$ 12 p-Terphenyl-d14	8.00	6.32	79.04

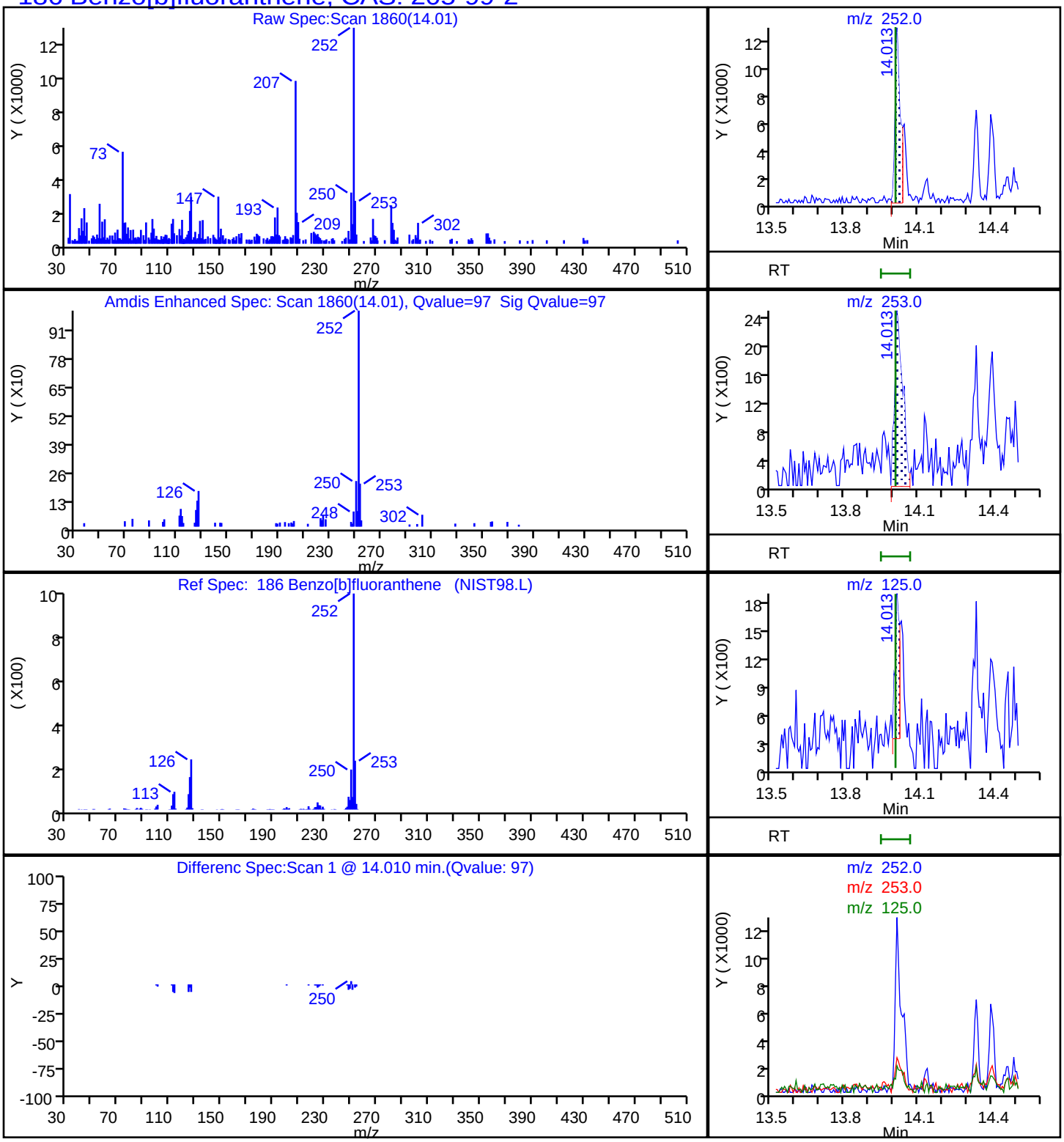
Report Date: 30-Oct-2024 15:17:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D

Injection Date:	29-Oct-2024 19:56:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-5-A	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	JM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2



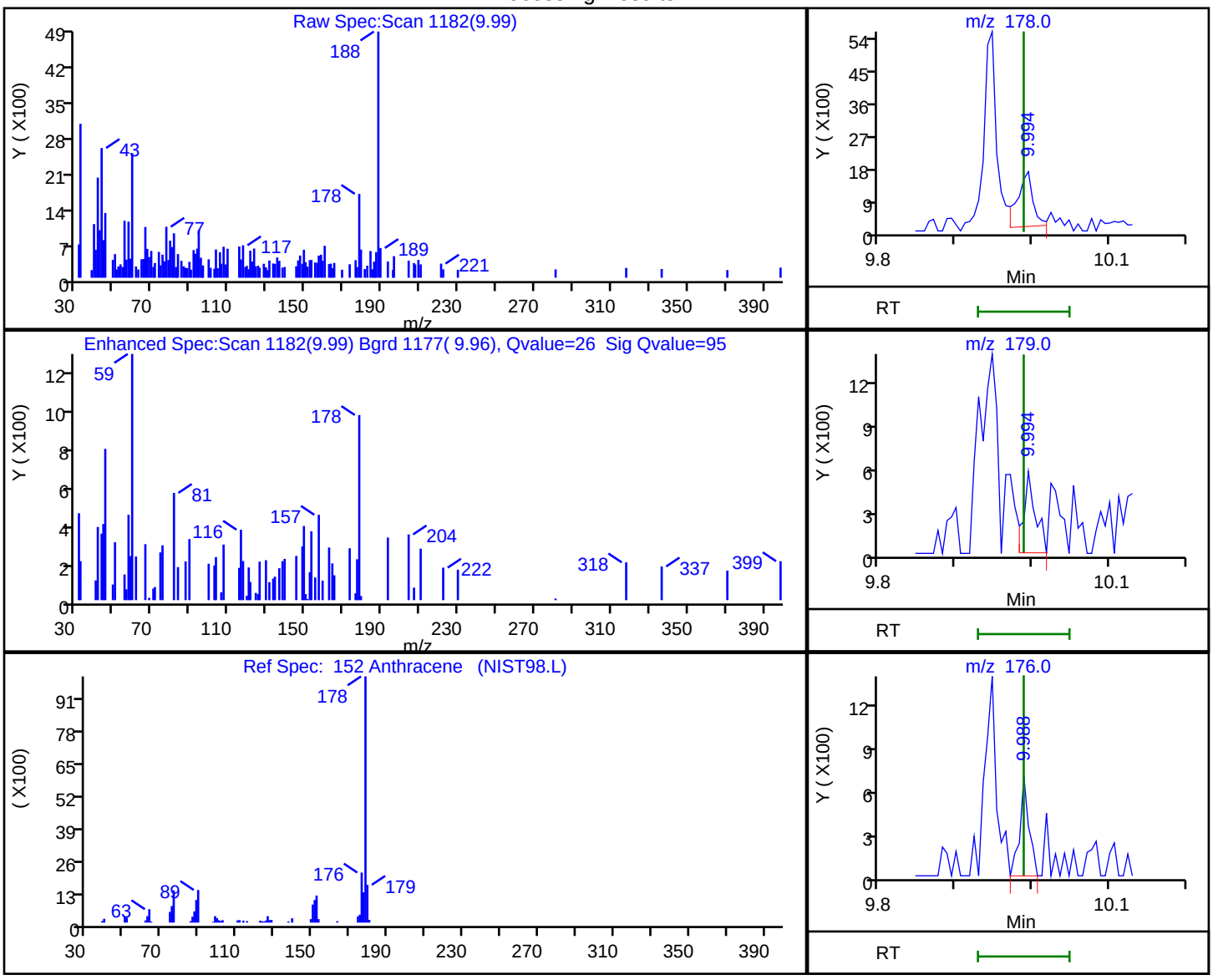
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D				
Injection Date:	29-Oct-2024 19:56:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-5-A	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	JM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

152 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
9.99	178.00	2149	0.013127
9.99	179.00	599	
9.99	176.00	584	

Reviewer: IZ8L, 30-Oct-2024 15:06:30 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

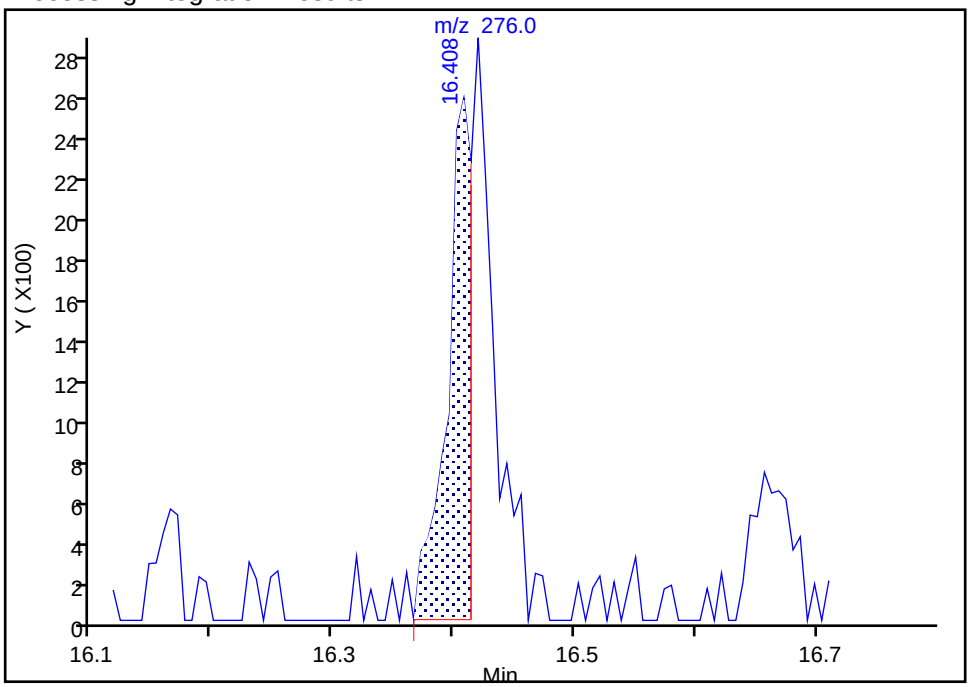
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D				
Injection Date:	29-Oct-2024 19:56:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-5-A	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	JM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

195 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

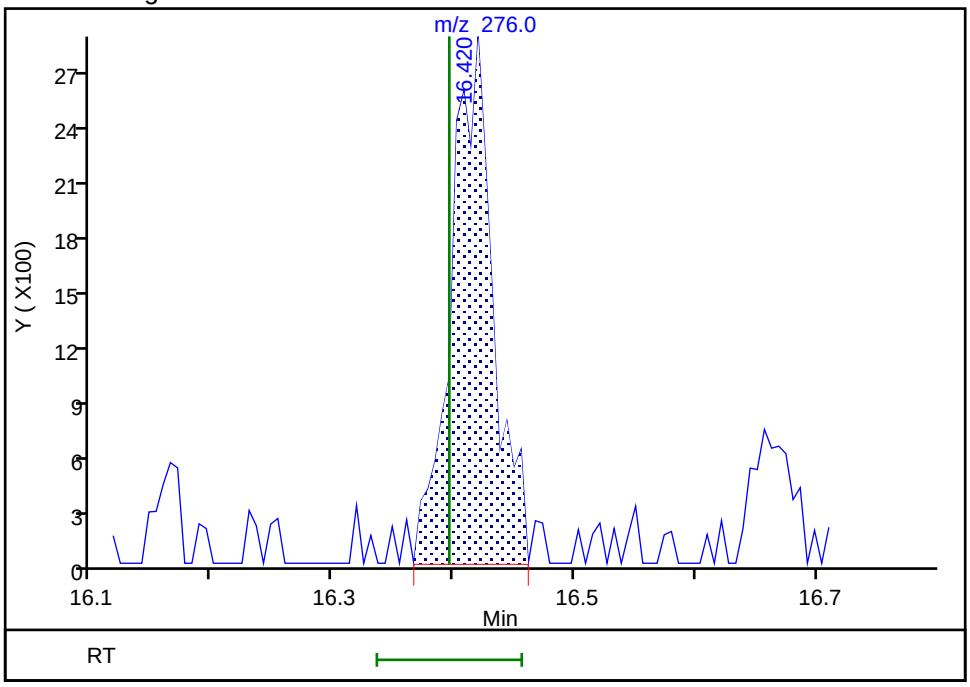
Processing Integration Results

RT: 16.41
Area: 3710
Amount: 0.041023
Amount Units: ng/uL



Manual Integration Results

RT: 16.42
Area: 6942
Amount: 0.062445
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:06:01 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Buffalo

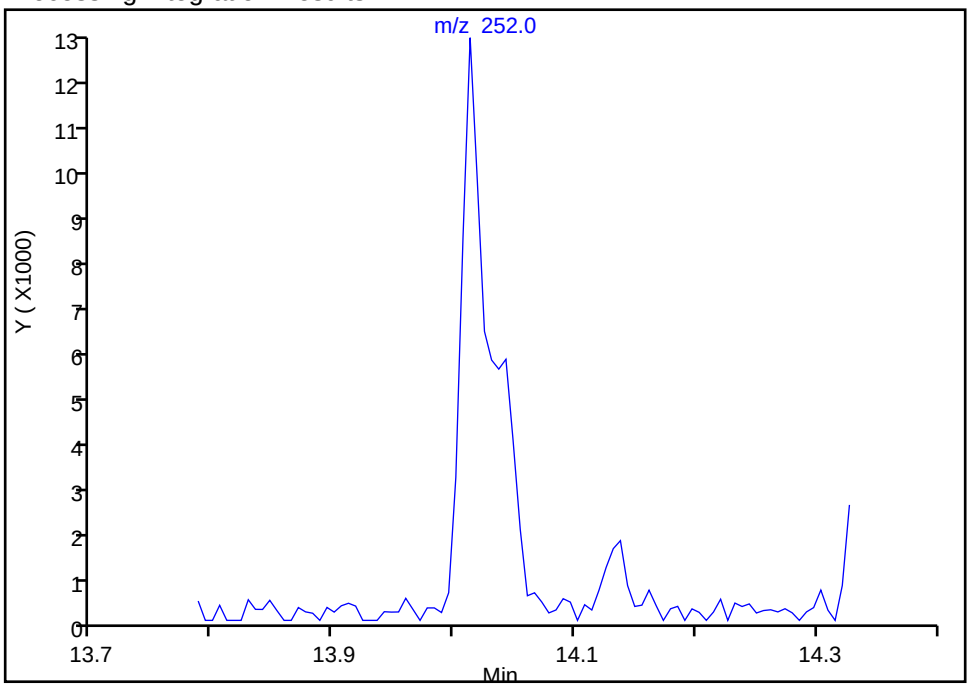
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D				
Injection Date:	29-Oct-2024 19:56:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-5-A	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	JM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

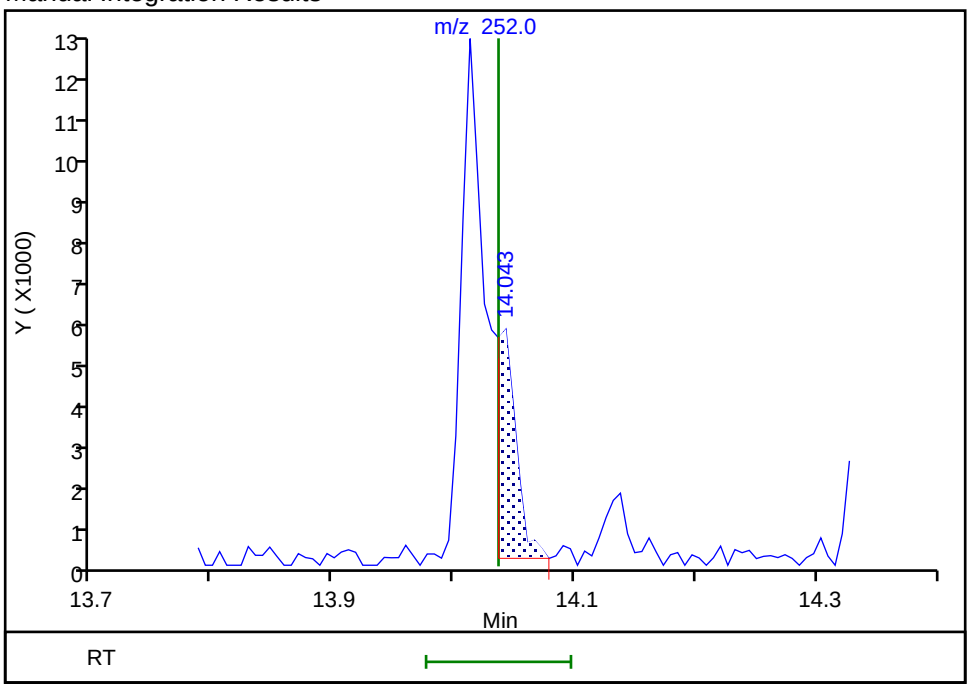
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 6034
Amount: 0.034326
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:06:49 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

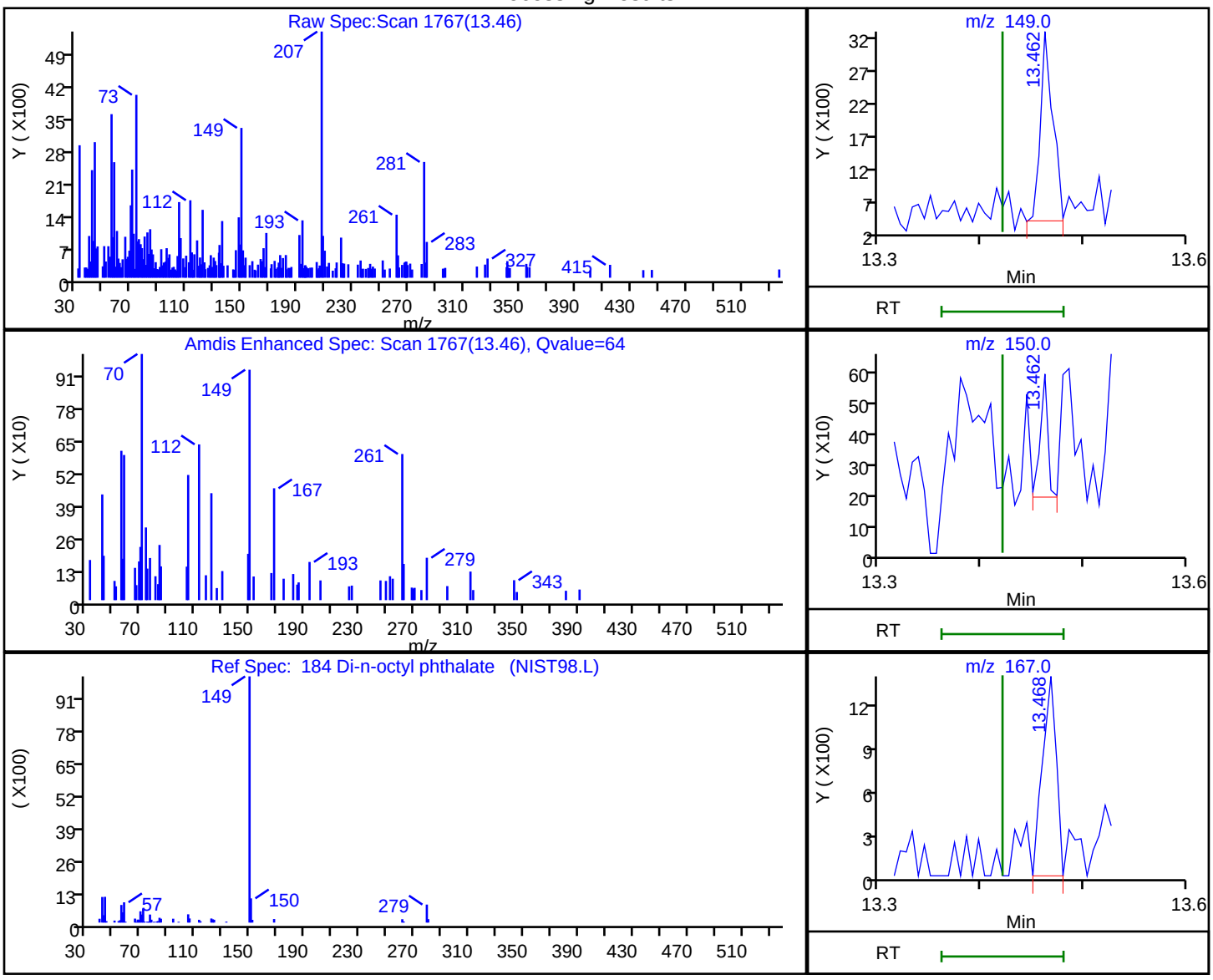
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D				
Injection Date:	29-Oct-2024 19:56:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-5-A	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	JM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

184 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
13.46	149.00	2388	0.092728
13.46	150.00	208	
13.47	167.00	1320	

Reviewer: IZ8L, 30-Oct-2024 15:06:38 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-12A-10242024 | Lab Sample ID: 480-224869-7

Matrix: Water | Lab File ID: Y04591.D

Analysis Method: 8270D | Date Collected: 10/24/2024 03:15

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 20:23

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND	*+	10	1.5
83-32-9	Acenaphthene	0.46	J	5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	0.40	J	5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-12A-10242024 | Lab Sample ID: 480-224869-7

Matrix: Water | Lab File ID: Y04591.D

Analysis Method: 8270D | Date Collected: 10/24/2024 03:15

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 20:23

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	0.68	J	5.0	0.36
50-32-8	Benzo(a)pyrene	0.78	J	5.0	0.47
205-99-2	Benzo(b)fluoranthene	0.86	J	5.0	0.34
191-24-2	Benzo(g,h,i)perylene	0.51	J	5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	0.75	J	5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	1.7	J	5.0	0.40
86-73-7	Fluorene	0.64	J	5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-12A-10242024 | Lab Sample ID: 480-224869-7

Matrix: Water | Lab File ID: Y04591.D

Analysis Method: 8270D | Date Collected: 10/24/2024 03:15

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 20:23

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	1.2	J	5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	1.3	J	5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	86		25-144
321-60-8	2-Fluorobiphenyl	78		53-126
367-12-4	2-Fluorophenol	61		24-120
4165-60-0	Nitrobenzene-d5	84		29-129
1718-51-0	p-Terphenyl-d14	69		33-132
4165-62-2	Phenol-d5	43		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D
Lims ID: 480-224869-B-7-A
Client ID: MW-BCP-12A-10242024
Sample Type: Client
Inject. Date: 29-Oct-2024 20:23:30 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-022
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:07:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.890	5.886	0.004	97	162631	4.00	
* 2 Naphthalene-d8	136	7.087	7.089	-0.002	99	615840	4.00	
* 3 Acenaphthene-d10	164	8.646	8.648	-0.002	94	350501	4.00	
* 4 Phenanthrene-d10	188	9.926	9.929	-0.003	97	606653	4.00	
* 5 Chrysene-d12	240	12.772	12.774	-0.002	99	520031	4.00	
* 6 Perylene-d12	264	14.467	14.463	0.004	97	589136	4.00	
$ 7 2-Fluorophenol	112	4.668	4.644	0.027	92	243638	4.86	
$ 8 Phenol-d5	99	5.528	5.527	0.004	89	214612	3.47	
$ 9 Nitrobenzene-d5	82	6.411	6.410	-0.003	97	398172	6.72	
$ 10 2-Fluorobiphenyl	172	8.035	8.040	-0.003	99	747832	6.21	
$ 11 2,4,6-Tribromophenol	330	9.328	9.327	-0.002	82	103788	6.89	
$ 12 p-Terphenyl-d14	244	11.485	11.484	0.003	97	777903	5.52	
35 Benzaldehyde	77		5.471				ND	
37 Phenol	94		5.536				ND	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108		6.111				ND	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.269	6.314	0.015	85	2552	0.0514	
52 Acetophenone	105		6.265				ND	U
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107		6.751				ND	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.111	7.113	0.004	95	29385	0.1806	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113		7.463				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142	7.727	7.726	-0.003	85	5276	0.0526	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154	8.130	8.132	-0.003	88	3567	0.0277	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152	8.533	8.532	0.003	95	11115	0.0716	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153	8.676	8.675	-0.002	96	12066	0.1161	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	
115 Dibenzofuran	168	8.824	8.829	-0.002	96	14214	0.1011	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166	9.120	9.125	-0.003	91	17559	0.1611	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.944	9.946	-0.003	97	48219	0.2875	
152 Anthracene	178	9.992	10.001	0.004	97	16667	0.0993	
153 Carbazole	167	10.122	10.149	0.004	91	6440	0.0432	
157 Di-n-butyl phthalate	149	10.359	10.352	0.003	97	5874	0.0306	
164 Fluoranthene	202	11.112	11.104	0.004	98	75200	0.4224	
167 Pyrene	202	11.373	11.366	0.004	95	58011	0.3331	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228	12.760	12.764	-0.002	96	30106	0.1691	
182 Chrysene	228	12.807	12.809	-0.003	95	30424	0.1870	
184 Di-n-octyl phthalate	149		13.420				ND	
186 Benzo[b]fluoranthene	252	14.011	14.019	0.003	97	36885	0.2146	
187 Benzo[k]fluoranthene	252	14.034	14.037	-0.003	91	22304	0.1181	Ma
189 Benzo[a]pyrene	252	14.402	14.401	0.004	77	29032	0.1949	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276	15.961	15.942	0.016	96	19826	0.1158	
195 Benzo[g,h,i]perylene	276	16.417	16.417	0.021	95	17926	0.1270	a

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

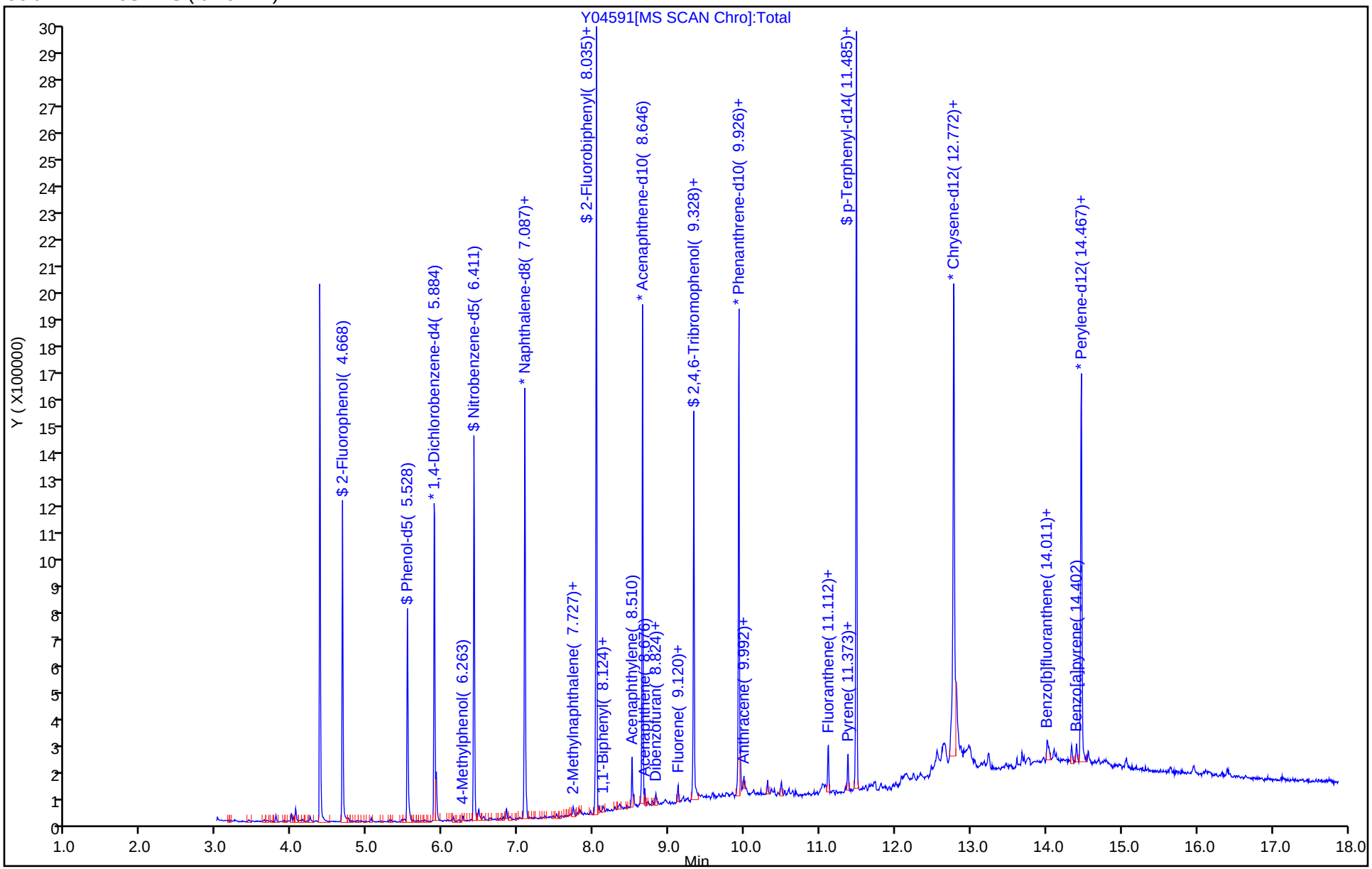
Report Date: 30-Oct-2024 15:17:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D

Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7	Worklist Smp#:	22
Client ID:	MW-BCP-12A-10242024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D
Lims ID: 480-224869-B-7-A
Client ID: MW-BCP-12A-10242024
Sample Type: Client
Inject. Date: 29-Oct-2024 20:23:30 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-022
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

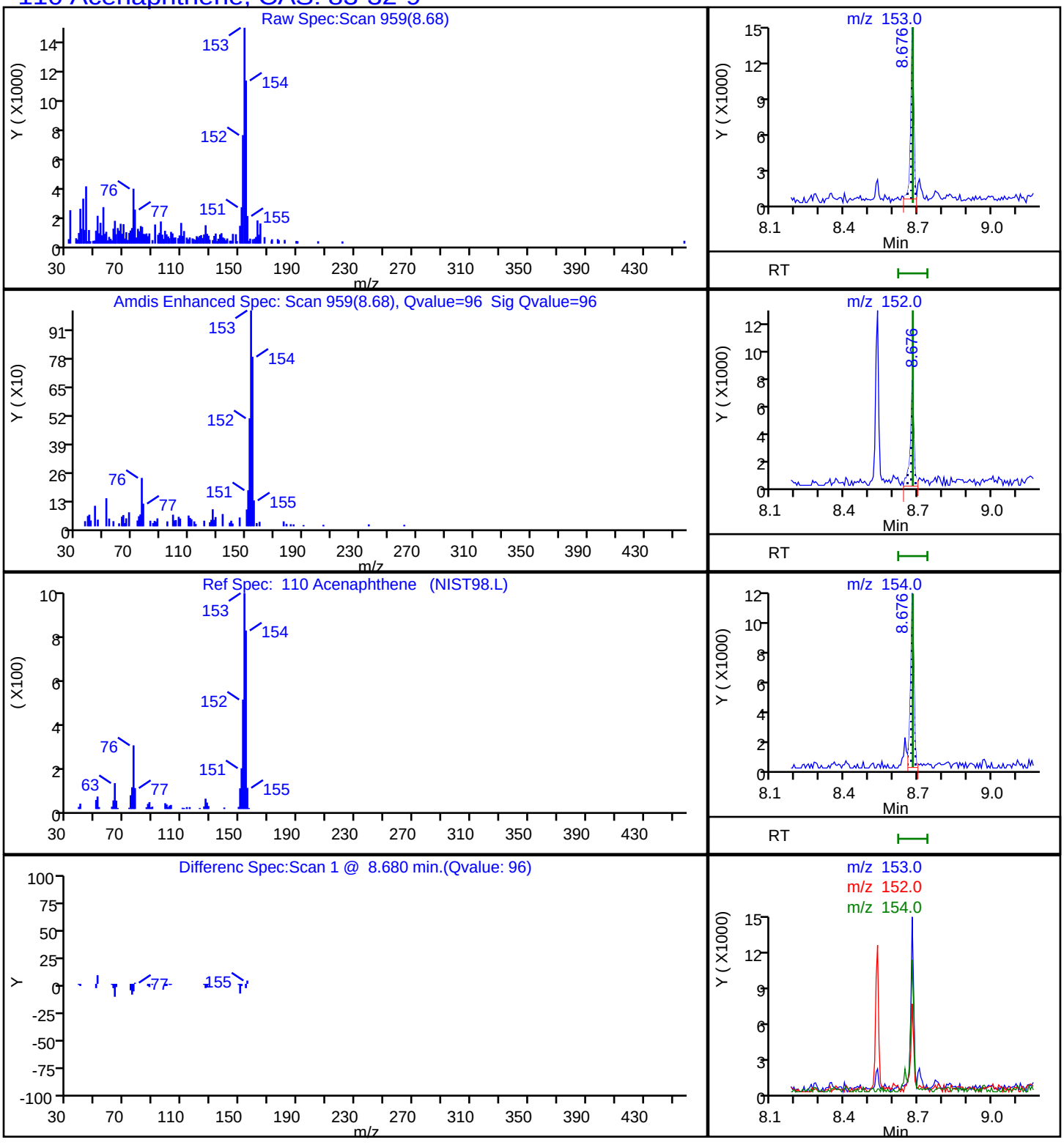
First Level Reviewer: IZ8L Date: 30-Oct-2024 15:07:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	4.86	60.78
$ 8 Phenol-d5	8.00	3.47	43.33
$ 9 Nitrobenzene-d5	8.00	6.72	84.05
$ 10 2-Fluorobiphenyl	8.00	6.21	77.60
$ 11 2,4,6-Tribromophenol	8.00	6.89	86.06
$ 12 p-Terphenyl-d14	8.00	5.52	68.98

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D				
Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

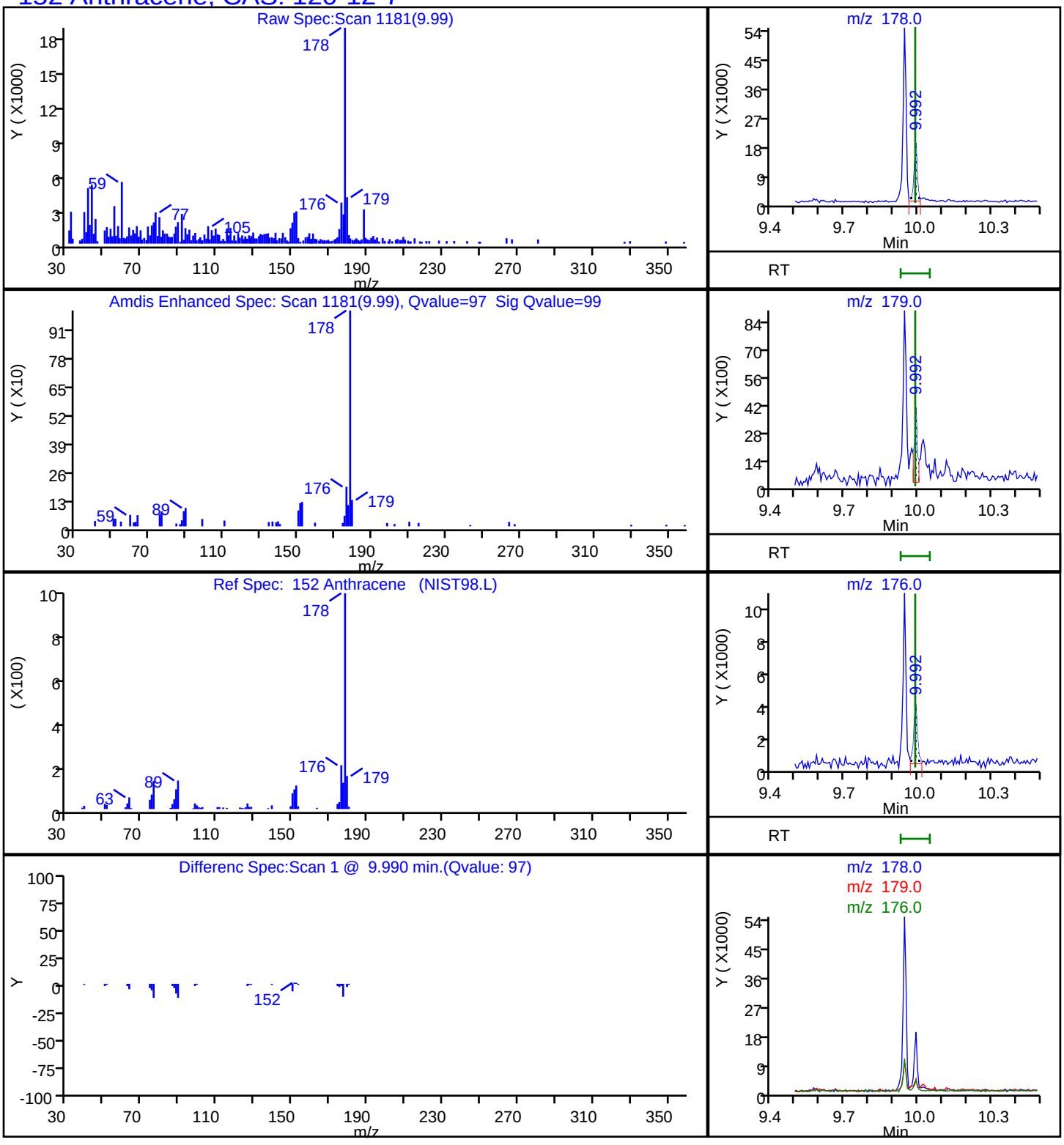
110 Acenaphthene, CAS: 83-32-9



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D
Injection Date: 29-Oct-2024 20:23:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-7-A Lab Sample ID: 480-224869-7
Client ID: MW-BCP-12A-10242024
Operator ID: JM ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

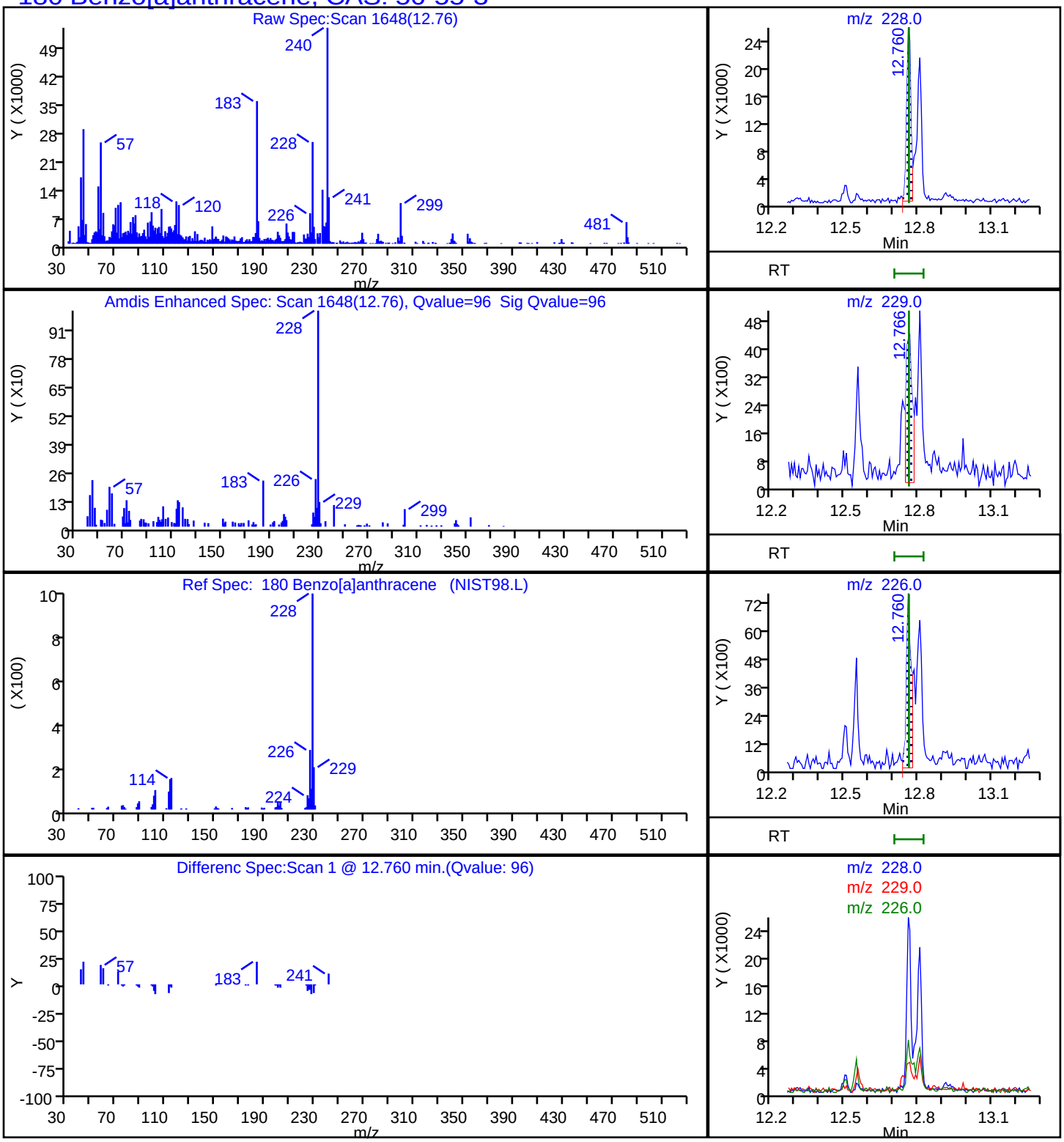
152 Anthracene, CAS: 120-12-7



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D
Injection Date: 29-Oct-2024 20:23:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-7-A Lab Sample ID: 480-224869-7
Client ID: MW-BCP-12A-10242024
Operator ID: JM ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

180 Benzo[a]anthracene, CAS: 56-55-3

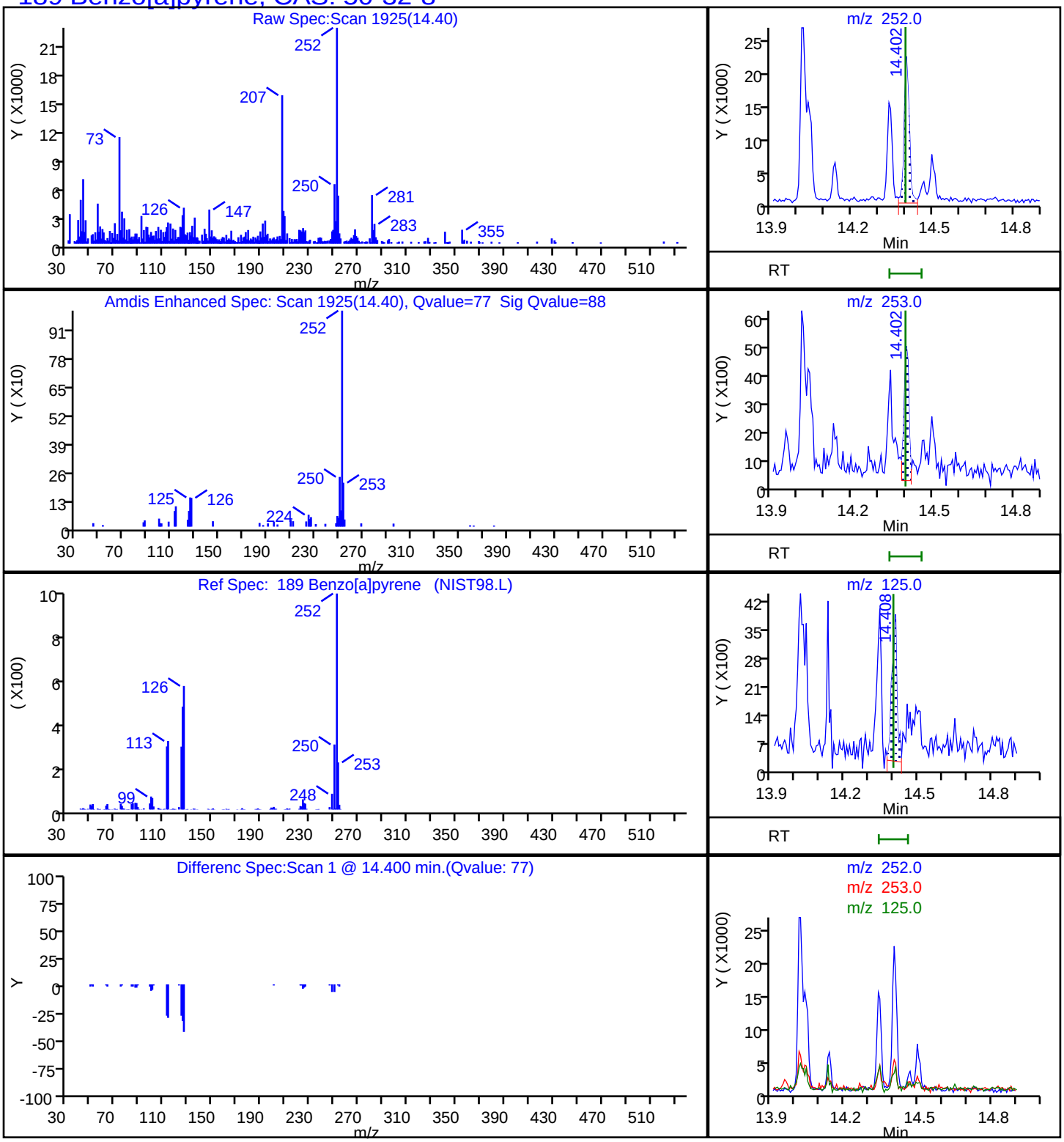


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D

Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

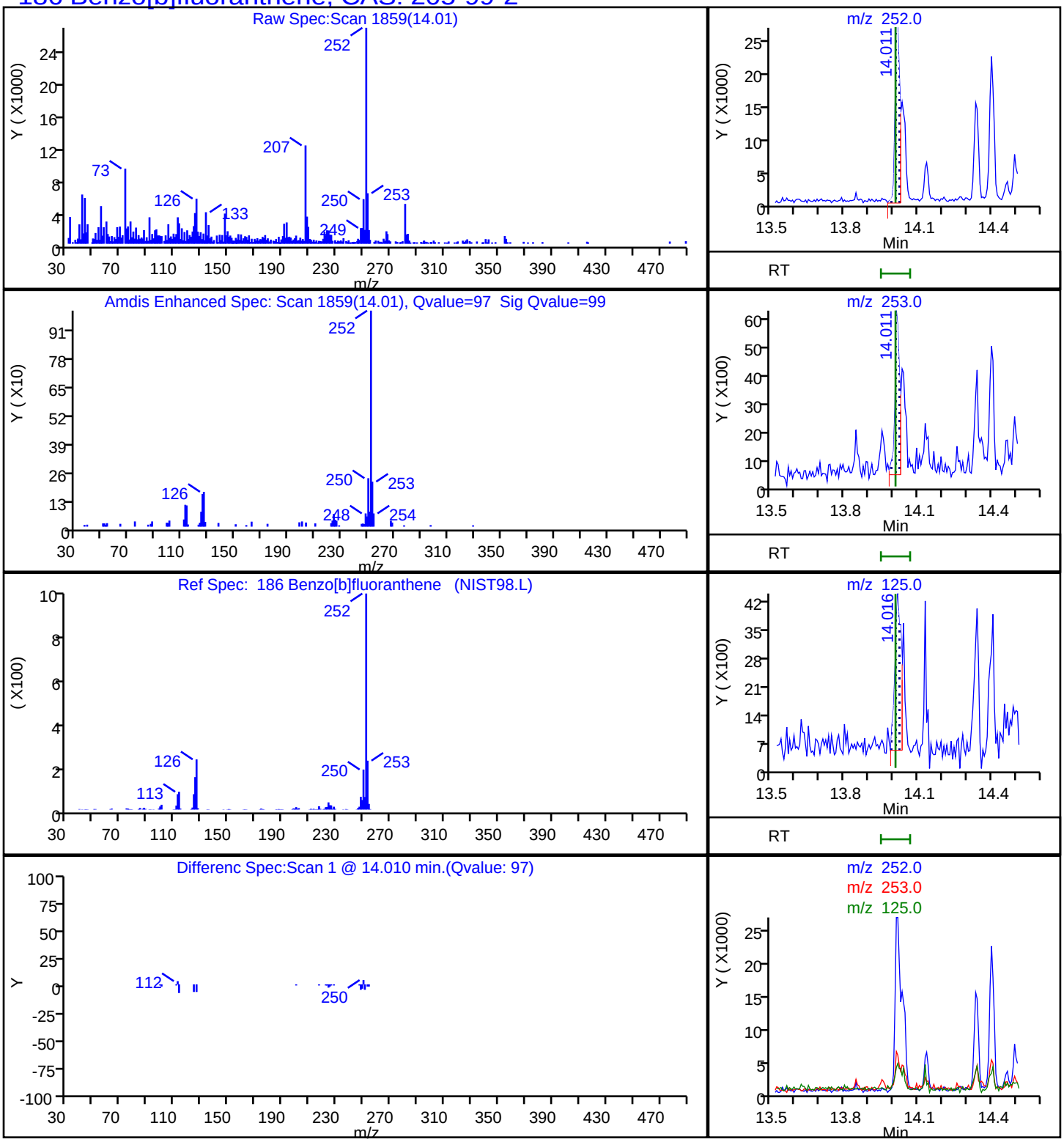
189 Benzo[a]pyrene, CAS: 50-32-8



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D				
Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2



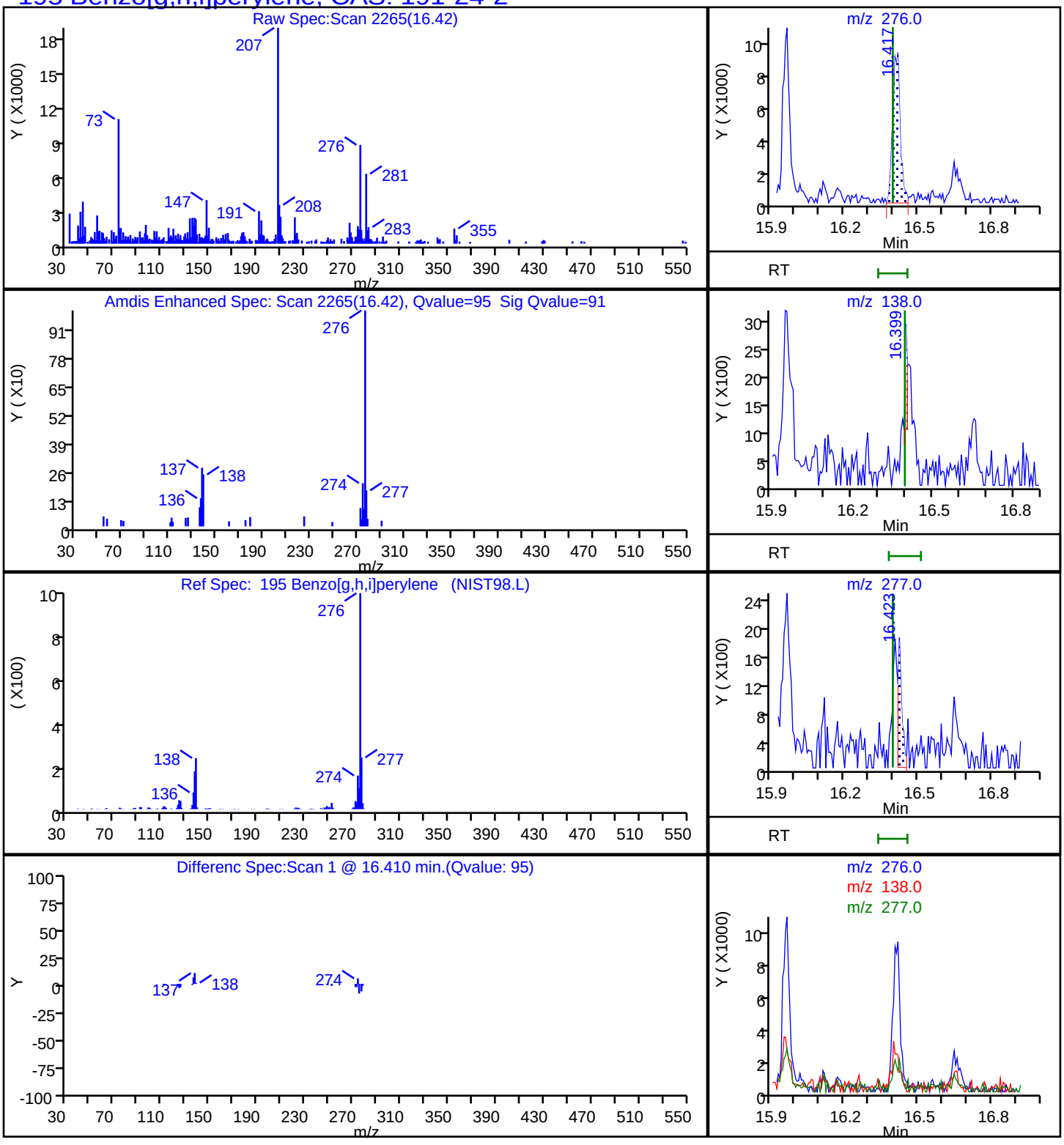
Report Date: 30-Oct-2024 15:17:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D

Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

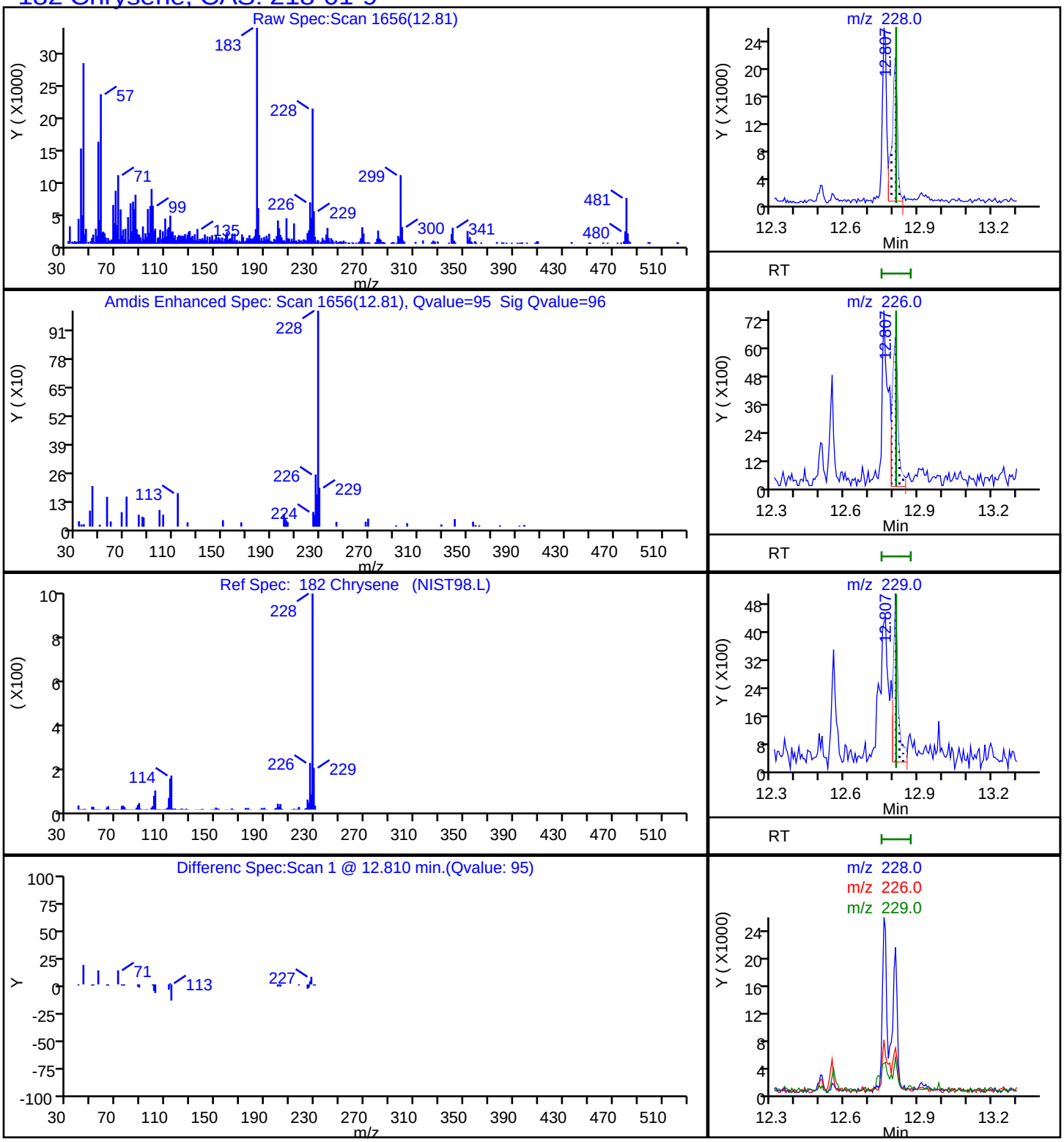
195 Benzo[g,h,i]perylene, CAS: 191-24-2



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D
Injection Date: 29-Oct-2024 20:23:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-7-A Lab Sample ID: 480-224869-7
Client ID: MW-BCP-12A-10242024
Operator ID: JM ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

182 Chrysene, CAS: 218-01-9



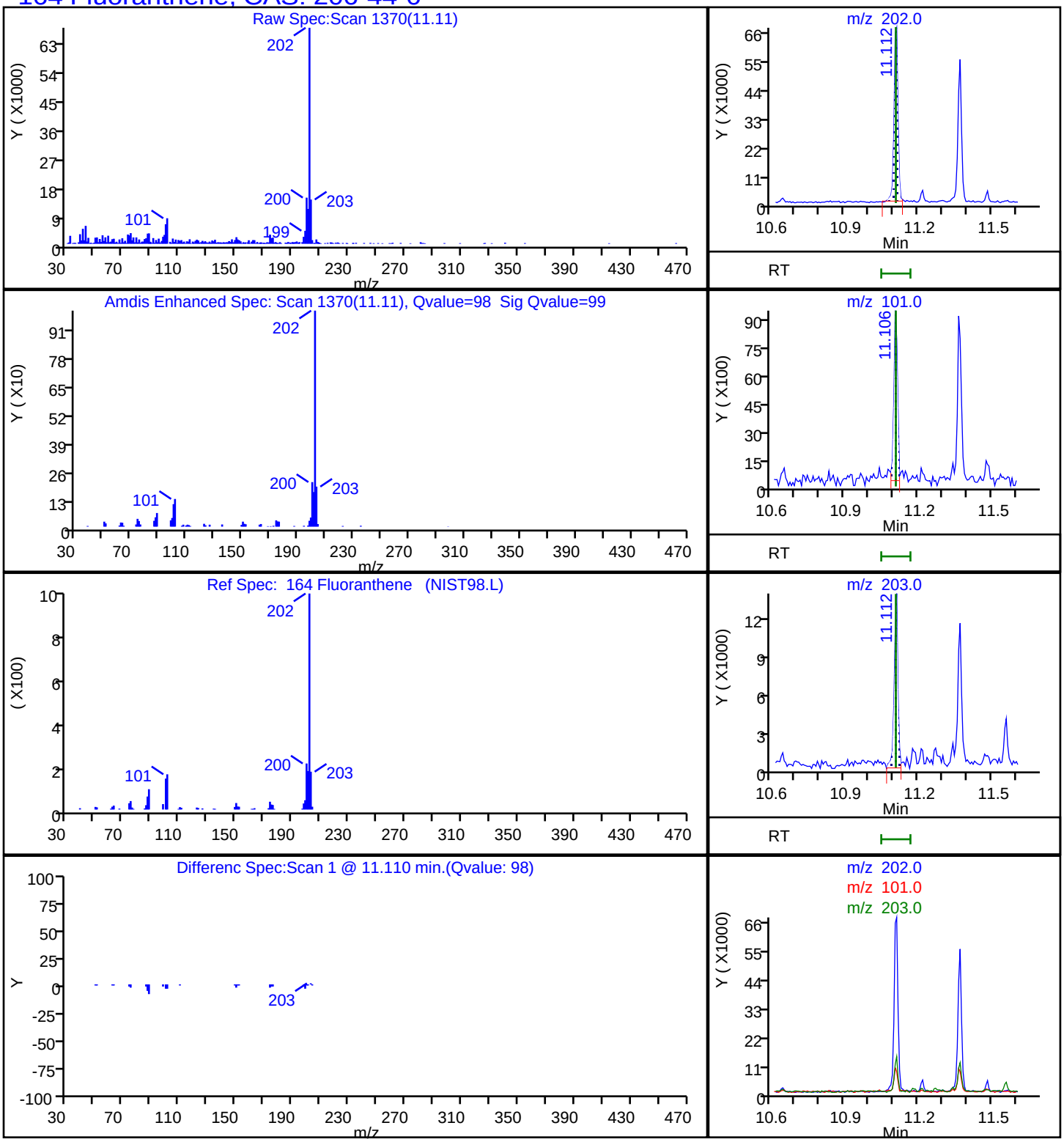
Report Date: 30-Oct-2024 15:17:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D

Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

164 Fluoranthene, CAS: 206-44-0



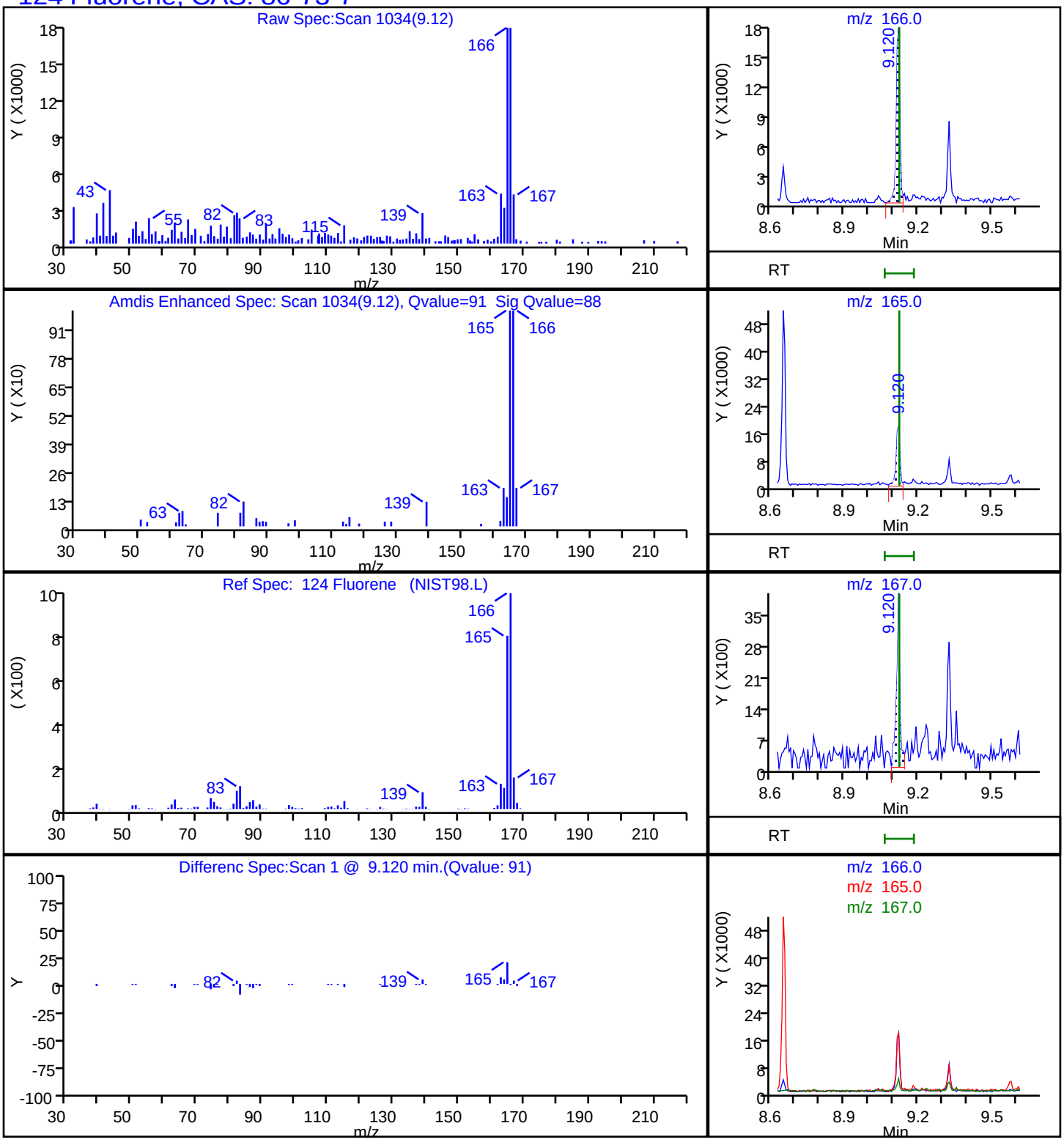
Report Date: 30-Oct-2024 15:17:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D

Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7
Client ID:	MW-BCP-12A-10242024		
Operator ID:	JM	ALS Bottle#:	22 Worklist Smp#: 22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

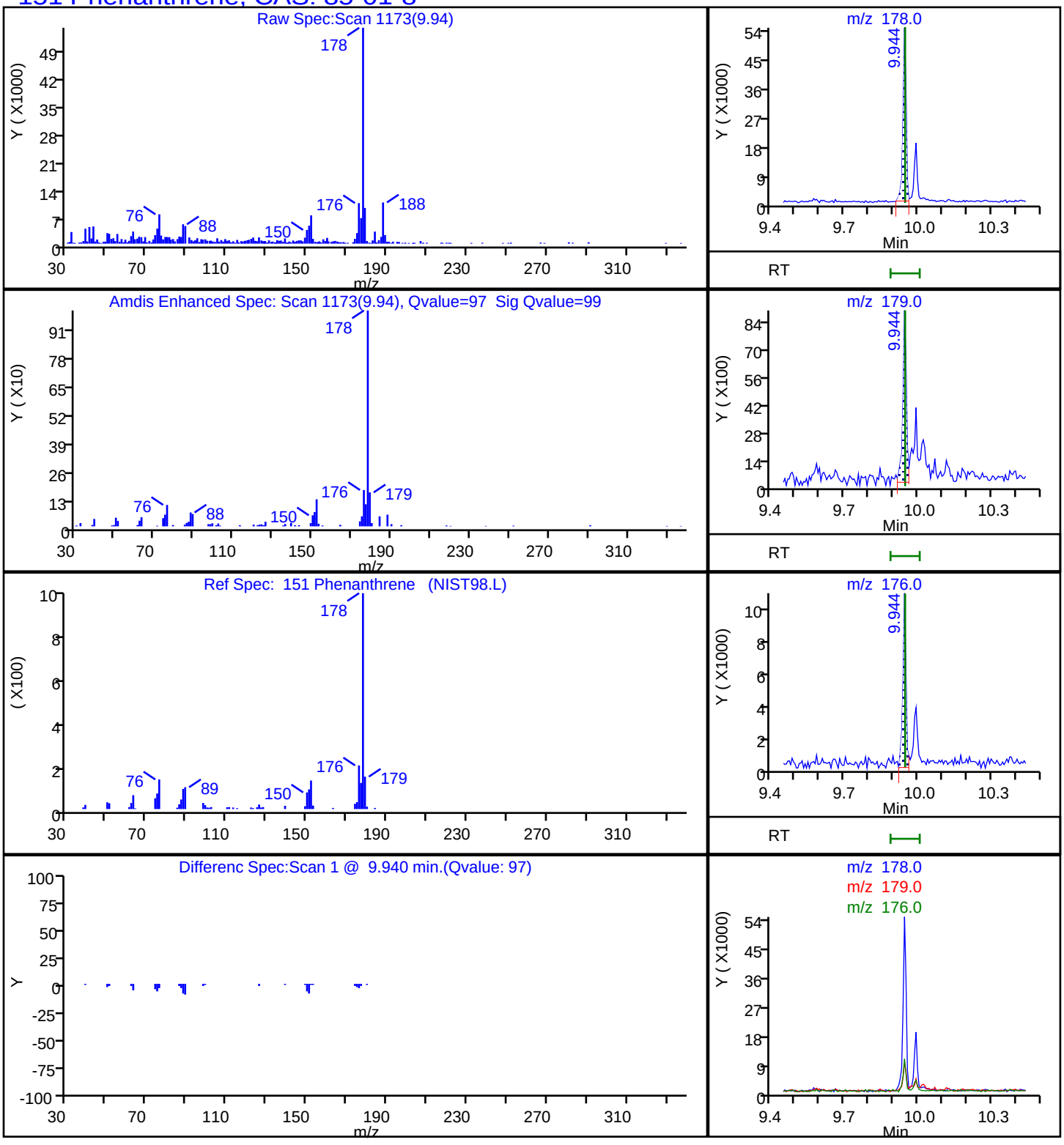
124 Fluorene, CAS: 86-73-7



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D
Injection Date: 29-Oct-2024 20:23:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-7-A Lab Sample ID: 480-224869-7
Client ID: MW-BCP-12A-10242024
Operator ID: JM ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

151 Phenanthrene, CAS: 85-01-8

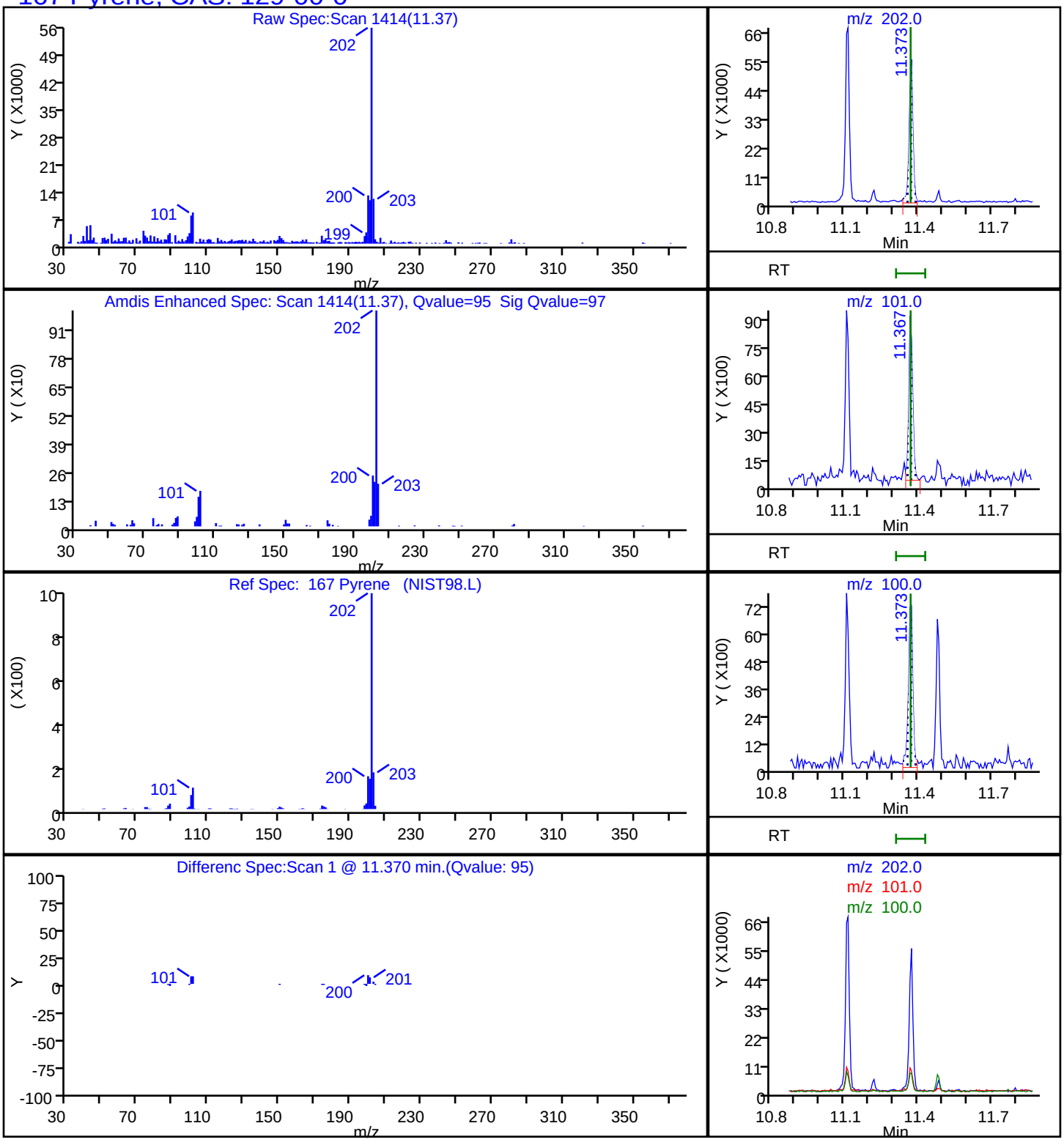


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D

Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

167 Pyrene, CAS: 129-00-0



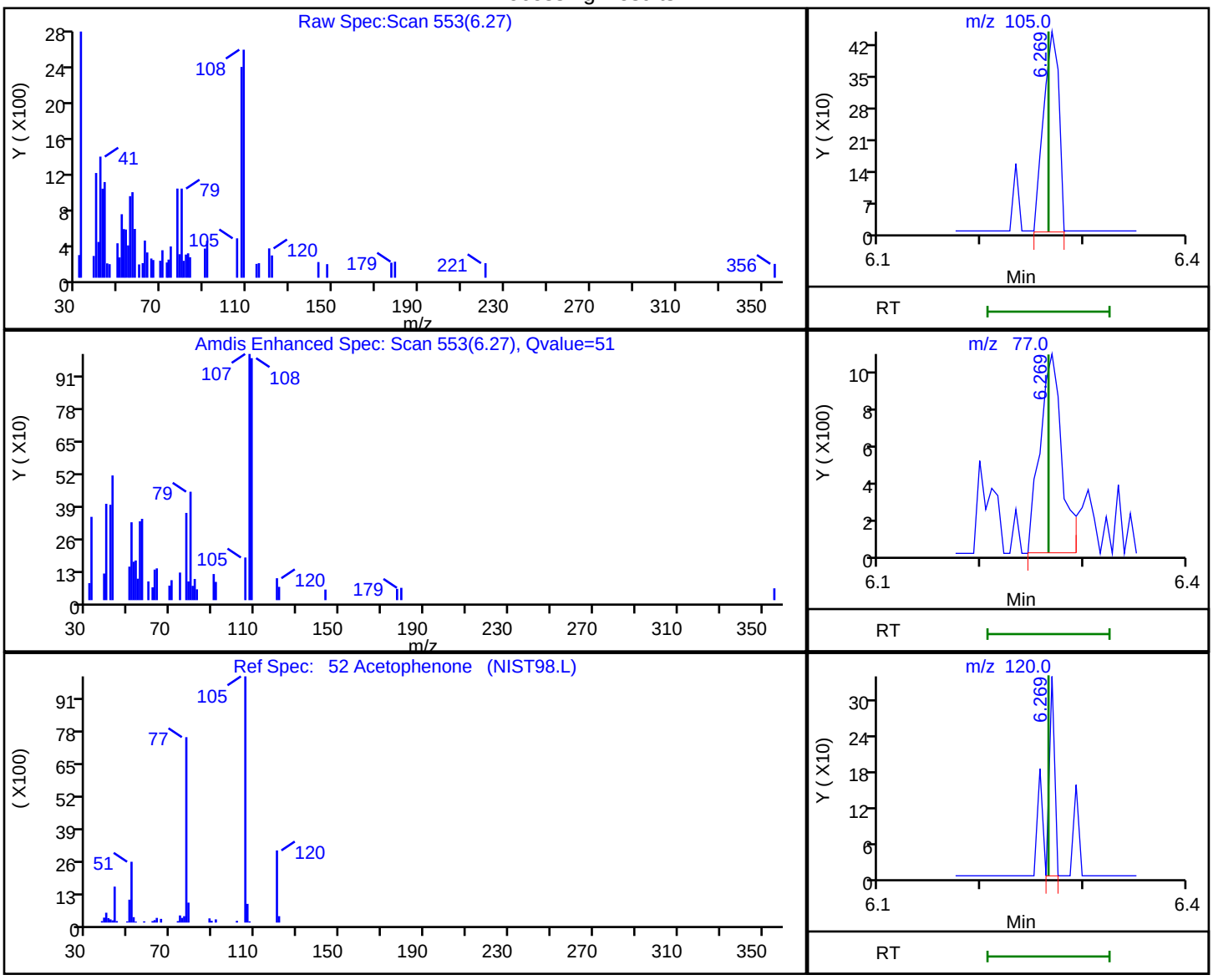
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D				
Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

52 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
6.27	105.00	465	0.006722
6.27	77.00	1512	
6.27	120.00	118	

Reviewer: IZ8L, 30-Oct-2024 15:07:12 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

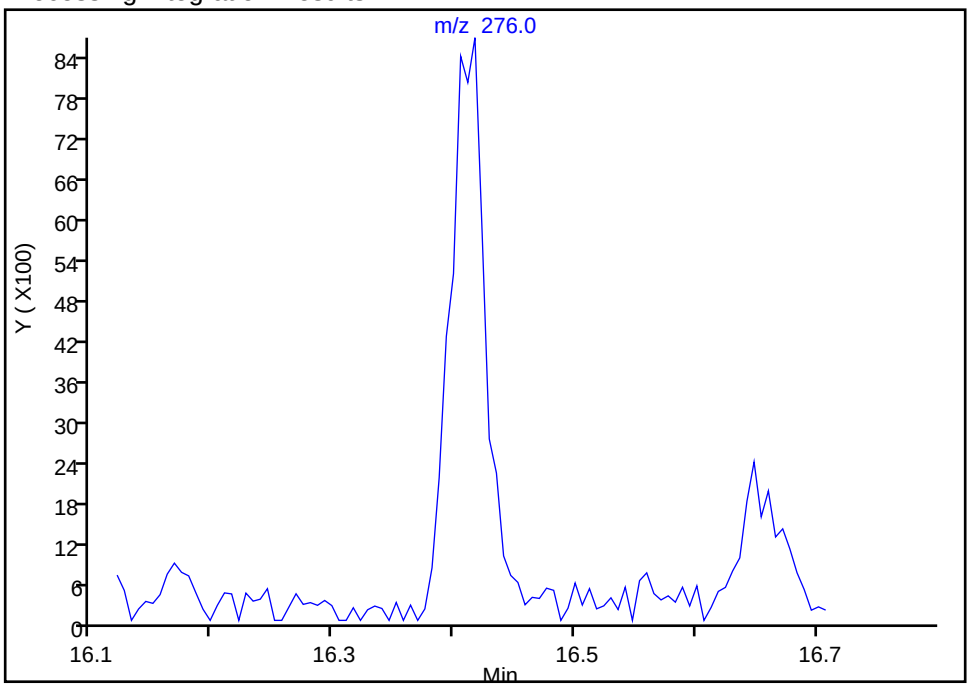
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D				
Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

195 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

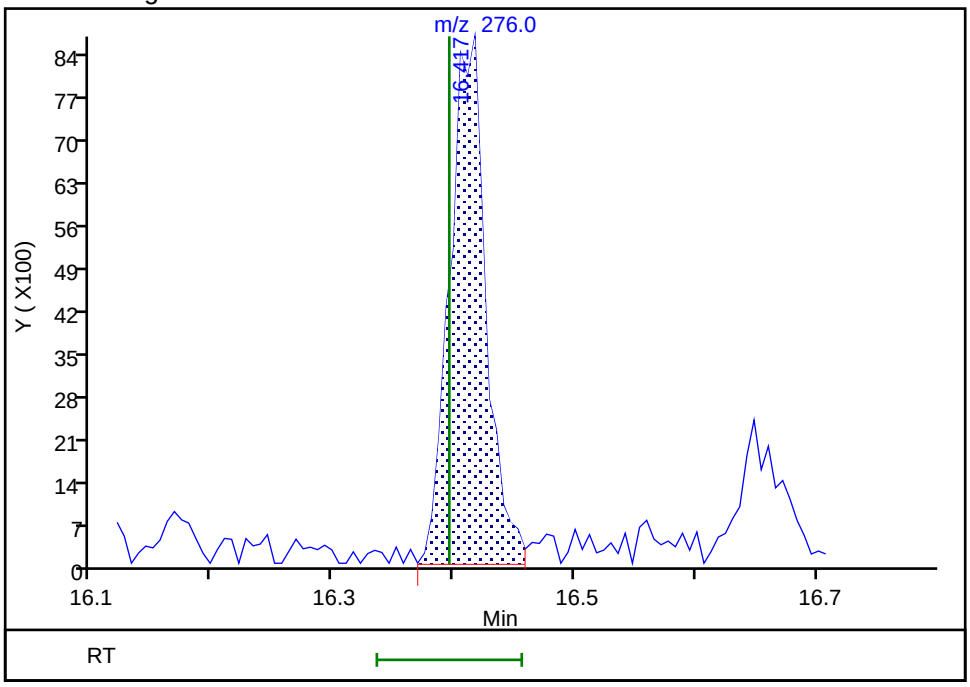
Not Detected
Expected RT: 16.40

Processing Integration Results



Manual Integration Results

RT: 16.42
Area: 17926
Amount: 0.127002
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:07:01 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

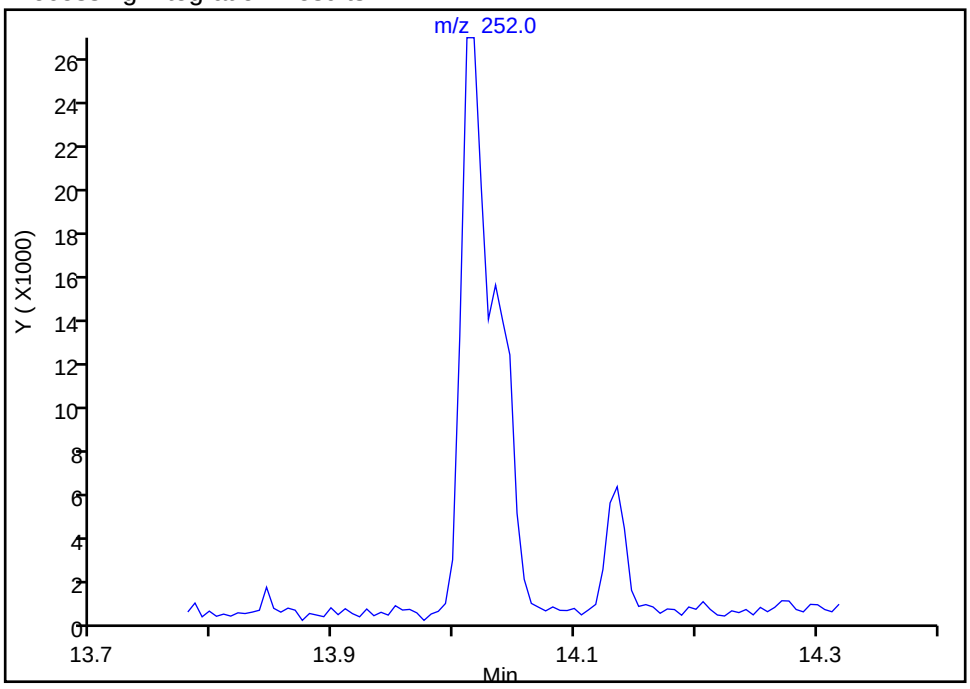
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D				
Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

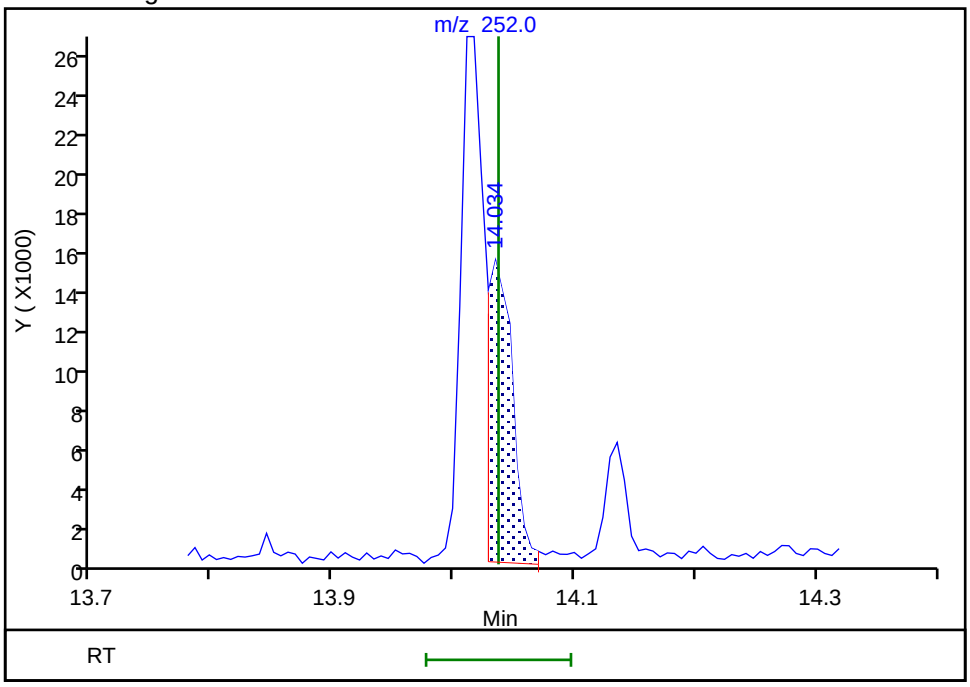
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.03
Area: 22304
Amount: 0.118075
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:07:44 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 | Lab Sample ID: 480-224869-9

Matrix: Water | Lab File ID: Y04605.D

Analysis Method: 8270D | Date Collected: 10/25/2024 08:50

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 11:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2500	330
108-60-1	bis (2-chloroisopropyl) ether	ND		2500	260
95-95-4	2,4,5-Trichlorophenol	ND		2500	240
88-06-2	2,4,6-Trichlorophenol	ND		2500	310
120-83-2	2,4-Dichlorophenol	ND		2500	260
105-67-9	2,4-Dimethylphenol	8800		2500	250
51-28-5	2,4-Dinitrophenol	ND		5000	1100
121-14-2	2,4-Dinitrotoluene	ND		2500	220
606-20-2	2,6-Dinitrotoluene	ND		2500	200
91-58-7	2-Chloronaphthalene	ND		2500	230
95-57-8	2-Chlorophenol	ND		2500	270
91-57-6	2-Methylnaphthalene	570	J	2500	300
95-48-7	2-Methylphenol	12000		2500	200
88-74-4	2-Nitroaniline	ND		5000	210
88-75-5	2-Nitrophenol	ND		2500	240
91-94-1	3,3'-Dichlorobenzidine	ND		2500	200
99-09-2	3-Nitroaniline	ND		5000	240
534-52-1	4,6-Dinitro-2-methylphenol	ND		5000	1100
101-55-3	4-Bromophenyl phenyl ether	ND		2500	230
59-50-7	4-Chloro-3-methylphenol	ND		2500	230
106-47-8	4-Chloroaniline	ND		2500	300
7005-72-3	4-Chlorophenyl phenyl ether	ND		2500	180
106-44-5	4-Methylphenol	28000		5000	180
100-01-6	4-Nitroaniline	ND		5000	130
100-02-7	4-Nitrophenol	ND	*+	5000	760
83-32-9	Acenaphthene	ND		2500	210
208-96-8	Acenaphthylene	280	J	2500	190
98-86-2	Acetophenone	ND		2500	270
120-12-7	Anthracene	ND		2500	140
1912-24-9	Atrazine	ND		2500	230
100-52-7	Benzaldehyde	ND		2500	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 | Lab Sample ID: 480-224869-9

Matrix: Water | Lab File ID: Y04605.D

Analysis Method: 8270D | Date Collected: 10/25/2024 08:50

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 11:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		2500	180
50-32-8	Benzo(a)pyrene	ND		2500	240
205-99-2	Benzo(b)fluoranthene	ND		2500	170
191-24-2	Benzo(g,h,i)perylene	ND		2500	180
207-08-9	Benzo(k)fluoranthene	ND		2500	370
111-91-1	Bis(2-chloroethoxy)methane	ND		2500	180
111-44-4	Bis(2-chloroethyl)ether	ND		2500	200
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2500	1100
85-68-7	Butyl benzyl phthalate	ND		2500	500
105-60-2	Caprolactam	ND		2500	1100
86-74-8	Carbazole	170	J	2500	150
218-01-9	Chrysene	ND		2500	170
84-74-2	Di-n-butyl phthalate	ND		2500	160
117-84-0	Di-n-octyl phthalate	ND		2500	240
53-70-3	Dibenz(a,h)anthracene	ND		2500	210
132-64-9	Dibenzofuran	ND		5000	260
84-66-2	Diethyl phthalate	ND		2500	110
131-11-3	Dimethyl phthalate	ND		2500	180
206-44-0	Fluoranthene	ND		2500	200
86-73-7	Fluorene	ND		2500	180
118-74-1	Hexachlorobenzene	ND		2500	260
87-68-3	Hexachlorobutadiene	ND		2500	340
77-47-4	Hexachlorocyclopentadiene	ND		2500	300
67-72-1	Hexachloroethane	ND		2500	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2500	240
78-59-1	Isophorone	ND		2500	220
621-64-7	N-Nitrosodi-n-propylamine	ND		2500	270
86-30-6	N-Nitrosodiphenylamine	ND		2500	260
91-20-3	Naphthalene	11000		2500	380
98-95-3	Nitrobenzene	ND		2500	150
87-86-5	Pentachlorophenol	ND		5000	1100

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 | Lab Sample ID: 480-224869-9

Matrix: Water | Lab File ID: Y04605.D

Analysis Method: 8270D | Date Collected: 10/25/2024 08:50

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 11:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		2500	220
108-95-2	Phenol	4800		2500	200
129-00-0	Pyrene	ND		2500	170

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	S1-	25-144
321-60-8	2-Fluorobiphenyl	74		53-126
367-12-4	2-Fluorophenol	0	S1-	24-120
4165-60-0	Nitrobenzene-d5	0	S1-	29-129
1718-51-0	p-Terphenyl-d14	0	S1-	33-132
4165-62-2	Phenol-d5	0	S1-	10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D
Lims ID: 480-224869-B-9-A
Client ID: MW-BCP-13A-10252024
Sample Type: Client
Inject. Date: 30-Oct-2024 11:40:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 500.0000
Sample Info: 480-0120914-006
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:00:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.887	5.883	0.004	97	151473	4.00	
* 2 Naphthalene-d8	136	7.090	7.086	0.004	99	592087	4.00	
* 3 Acenaphthene-d10	164	8.649	8.651	-0.002	96	327316	4.00	
* 4 Phenanthrene-d10	188	9.924	9.926	-0.002	97	566110	4.00	
* 5 Chrysene-d12	240	12.775	12.777	-0.002	98	445952	4.00	
* 6 Perylene-d12	264	14.464	14.460	0.004	97	521236	4.00	
$ 7 2-Fluorophenol	112		4.638				ND	
$ 8 Phenol-d5	99		5.521				ND	
$ 9 Nitrobenzene-d5	82		6.410				ND	
$ 10 2-Fluorobiphenyl	172	8.033	8.035	-0.002	89	1335	0.0119	
$ 11 2,4,6-Tribromophenol	330		9.327				ND	
$ 12 p-Terphenyl-d14	244		11.485				ND	
35 Benzaldehyde	77		5.474				ND	
37 Phenol	94	5.537	5.533	0.004	90	140683	2.40	
39 Bis(2-chloroethyl)ether	93		5.604				ND	U
40 2-Chlorophenol	128		5.699				ND	
48 2-Methylphenol	108	6.106	6.108	-0.002	95	264152	5.94	
49 2,2'-oxybis[1-chloropropane]	45		6.120				ND	
53 N-Nitrosodi-n-propylamine	70		6.244				ND	
57 4-Methylphenol	108	6.254	6.256	-0.002	86	651419	14.1	
52 Acetophenone	105		6.262				ND	U
58 Hexachloroethane	117		6.375				ND	
59 Nitrobenzene	77		6.434				ND	
62 Isophorone	82		6.647				ND	
64 2-Nitrophenol	139		6.730				ND	
66 2,4-Dimethylphenol	107	6.752	6.748	0.004	94	227780	4.42	
69 Bis(2-chloroethoxy)methane	93		6.819				ND	
72 2,4-Dichlorophenol	162		6.962				ND	
74 Naphthalene	128	7.108	7.110	-0.002	98	844829	5.40	
76 4-Chloroaniline	127		7.145				ND	
79 Hexachlorobutadiene	225		7.205				ND	
84 Caprolactam	113		7.466				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.578				ND	
87 2-Methylnaphthalene	142	7.730	7.726	0.004	89	27505	0.2851	
90 Hexachlorocyclopentadiene	237		7.869				ND	
93 2,4,6-Trichlorophenol	196		7.981				ND	
94 2,4,5-Trichlorophenol	196		8.023				ND	
96 1,1'-Biphenyl	154	8.128	8.129	-0.001	93	2887	0.0240	
97 2-Chloronaphthalene	162		8.165				ND	
100 2-Nitroaniline	65		8.248				ND	
105 Dimethyl phthalate	163		8.372				ND	
107 2,6-Dinitrotoluene	165		8.438				ND	
108 Acenaphthylene	152	8.531	8.533	-0.001	94	20383	0.1406	
109 3-Nitroaniline	138		8.598				ND	
110 Acenaphthene	153	8.673	8.681	-0.008	87	1430	0.0147	
111 2,4-Dinitrophenol	184		8.693				ND	
112 4-Nitrophenol	109		8.752				ND	
114 2,4-Dinitrotoluene	165		8.799				ND	
115 Dibenzofuran	168	8.827	8.823	0.004	95	5678	0.0433	
120 Diethyl phthalate	149		8.965				ND	
123 4-Chlorophenyl phenyl ether	204		9.090				ND	
124 Fluorene	166	9.117	9.119	-0.002	91	3201	0.0421	
126 4-Nitroaniline	138		9.131				ND	
127 4,6-Dinitro-2-methylphenol	198		9.155				ND	
130 N-Nitrosodiphenylamine	169		9.190				ND	
139 4-Bromophenyl phenyl ether	248		9.511				ND	
140 Hexachlorobenzene	284		9.605				ND	
143 Atrazine	200		9.617				ND	
145 Pentachlorophenol	266		9.765				ND	
151 Phenanthrene	178	9.947	9.943	0.004	95	7476	0.0478	
152 Anthracene	178		9.991				ND	
153 Carbazole	167	10.119	10.121	-0.002	96	11918	0.0857	
157 Di-n-butyl phthalate	149		10.358				ND	
164 Fluoranthene	202		11.111				ND	
167 Pyrene	202		11.372				ND	
174 Butyl benzyl phthalate	149		12.006				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.664				ND	
179 3,3'-Dichlorobenzidine	252		12.700				ND	
180 Benzo[a]anthracene	228		12.765				ND	
182 Chrysene	228		12.806				ND	
184 Di-n-octyl phthalate	149		13.417				ND	
186 Benzo[b]fluoranthene	252		14.010				ND	
187 Benzo[k]fluoranthene	252		14.039				ND	
189 Benzo[a]pyrene	252		14.395				ND	
194 Dibenz(a,h)anthracene	278		15.936				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.948				ND	
195 Benzo[g,h,i]perylene	276		16.393				ND	

QC Flag Legend

Processing Flags

Review Flags
U - Marked Undetected

Reagents:

MB_LLIS_WRK_00284	Amount Added:	20.00	Units: uL	Run Reagent

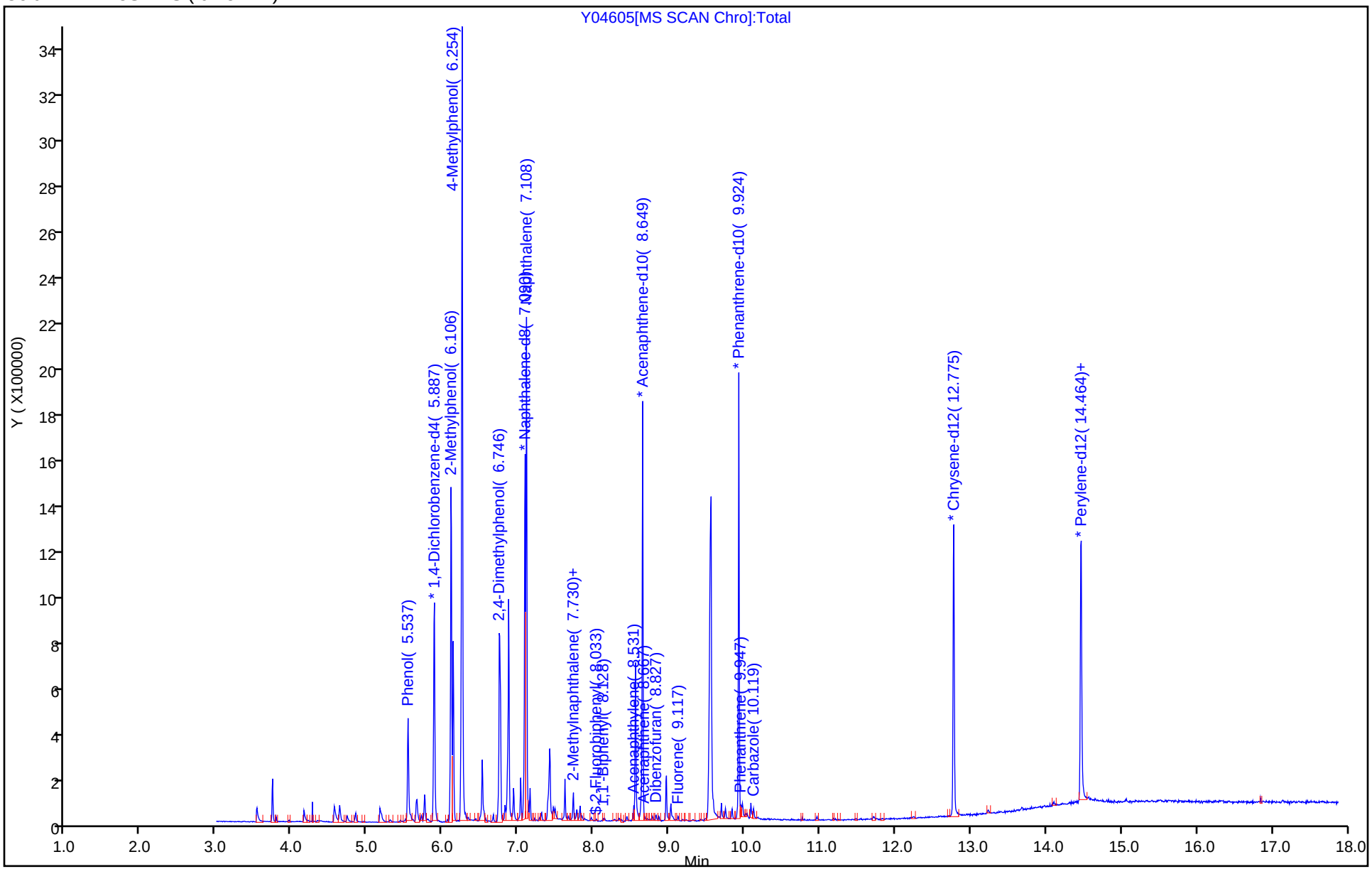
Report Date: 30-Oct-2024 16:06:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9	Worklist Smp#:	6
Client ID:	MW-BCP-13A-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	500.0000	ALS Bottle#:	6
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D				
Lims ID:	480-224869-B-9-A				
Client ID:	MW-BCP-13A-10252024				
Sample Type:	Client				
Inject. Date:	30-Oct-2024 11:40:30	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Sample Info:	480-0120914-006				
Operator ID:	JM	Instrument ID:	HP5973Y		
Method:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m				
Limit Group:	MB - 8270D ICAL				
Last Update:	30-Oct-2024 16:06:33	Calib Date:	11-Oct-2024 18:51:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D				
Column 1 :	RXI-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1636				

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:00:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorobiphenyl	8.00	0.0119	74.17

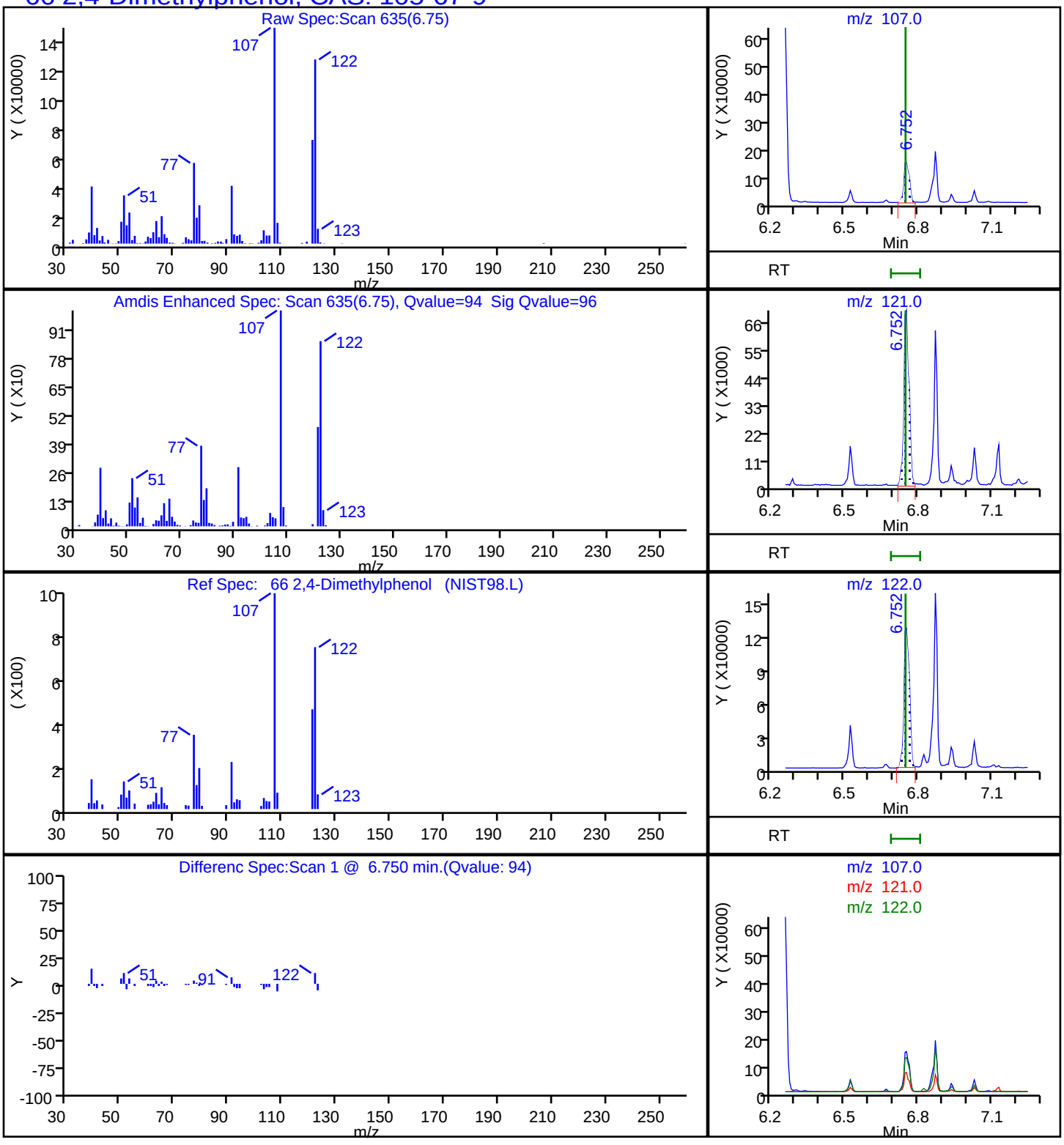
Report Date: 30-Oct-2024 16:06:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	JM	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

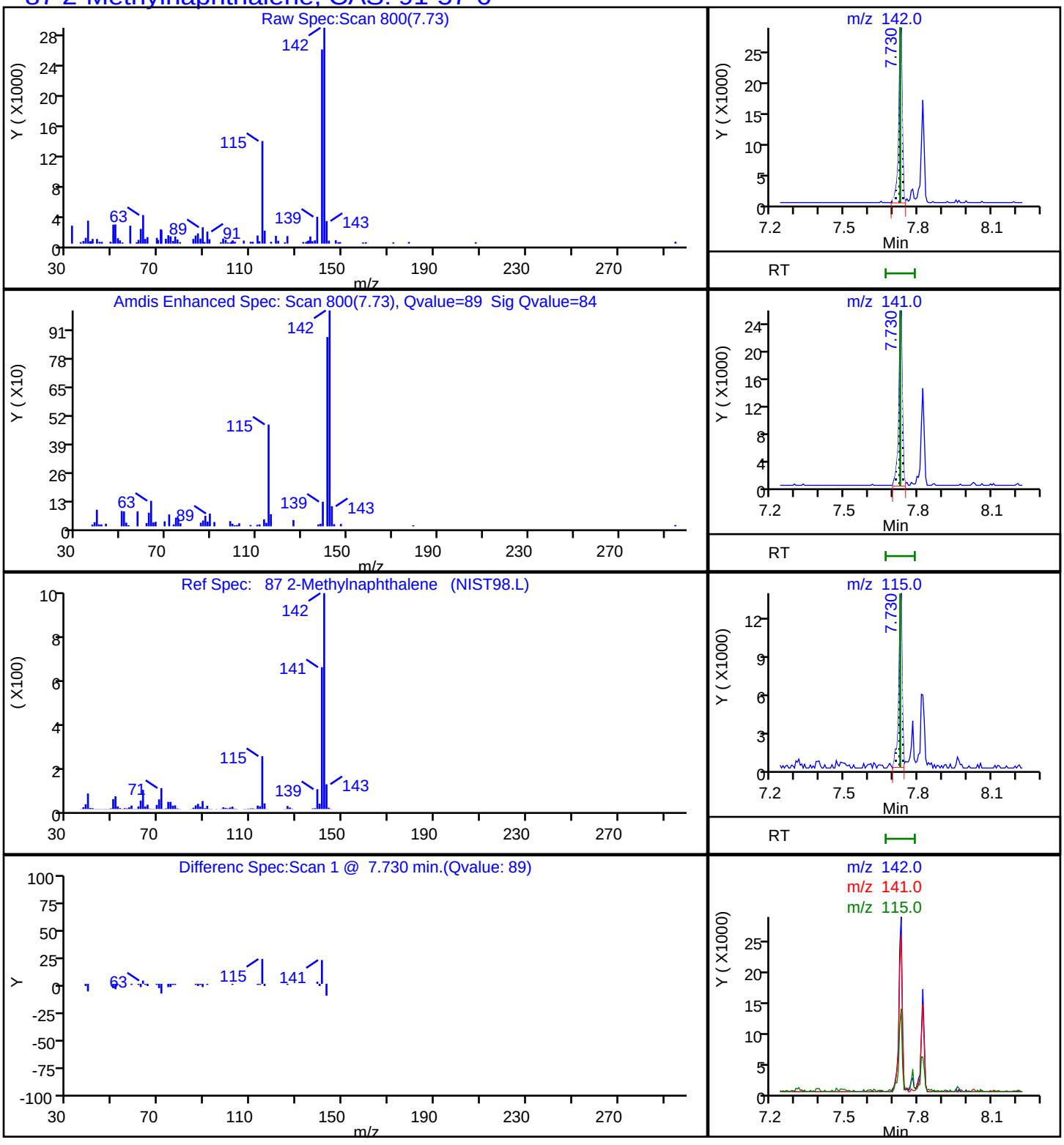
66 2,4-Dimethylphenol, CAS: 105-67-9



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D				
Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	JM	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

87 2-Methylnaphthalene, CAS: 91-57-6



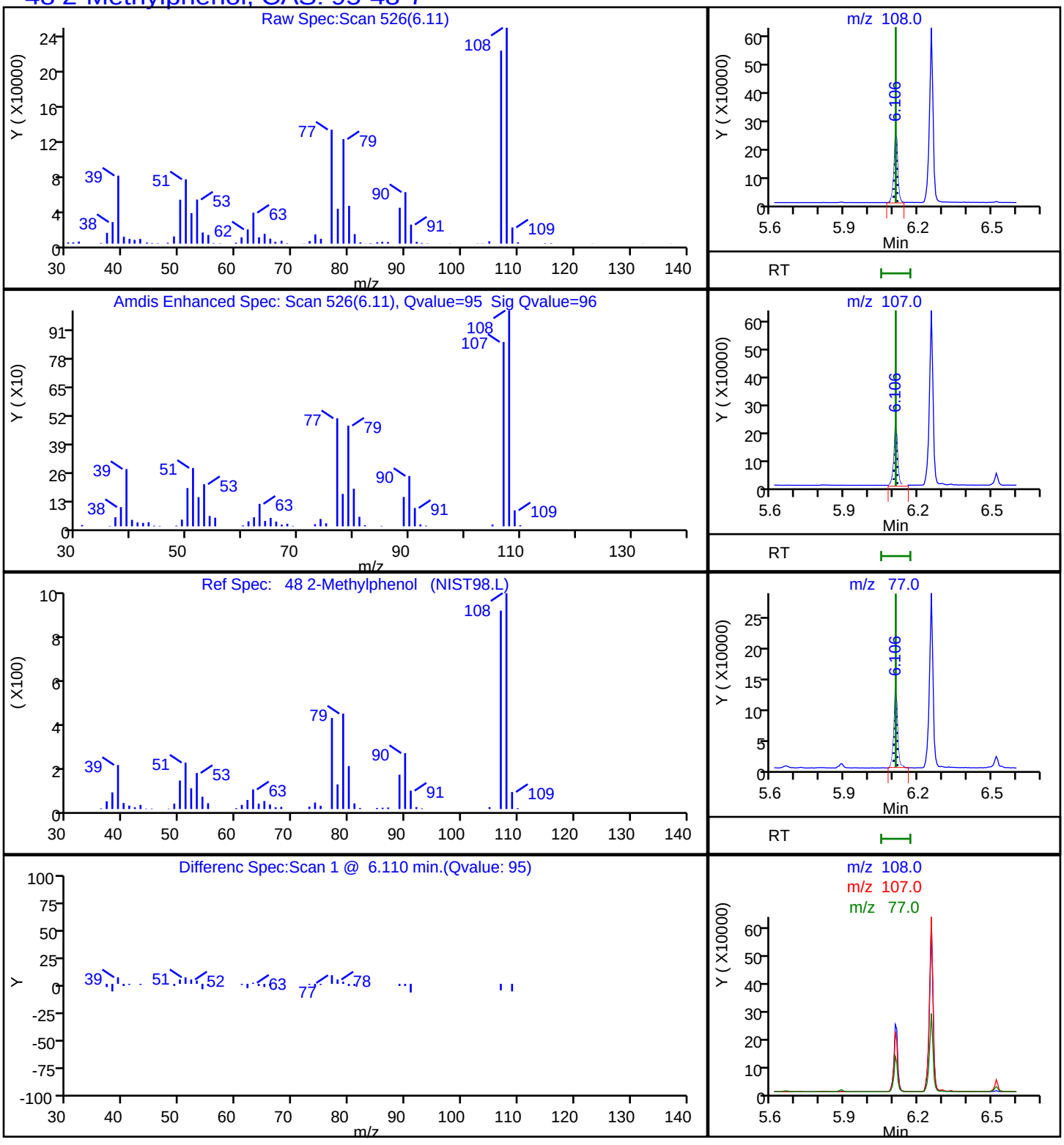
Report Date: 30-Oct-2024 16:06:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9
Client ID:	MW-BCP-13A-10252024		
Operator ID:	JM	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

48 2-Methylphenol, CAS: 95-48-7

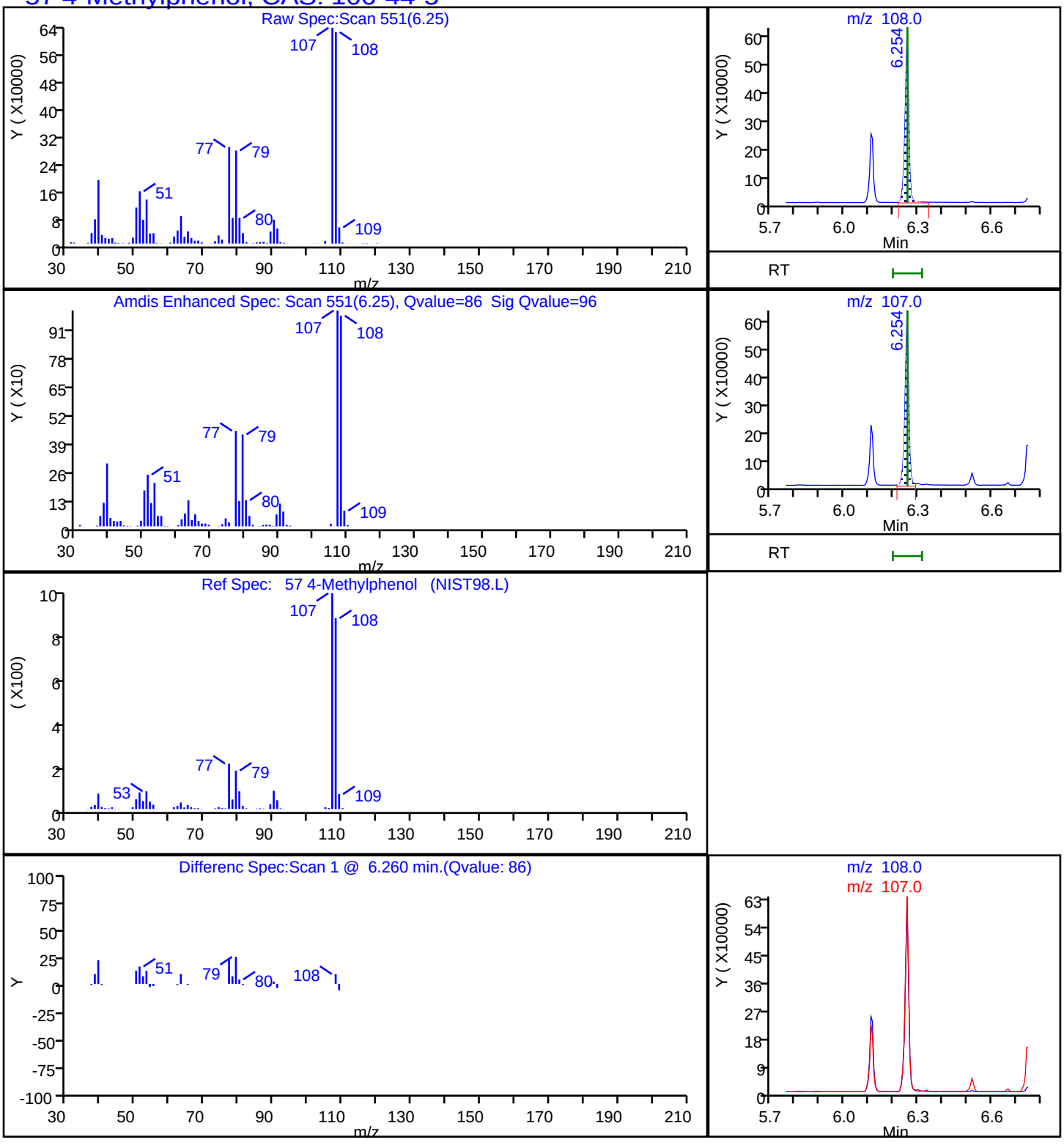


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	JM	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

57 4-Methylphenol, CAS: 106-44-5

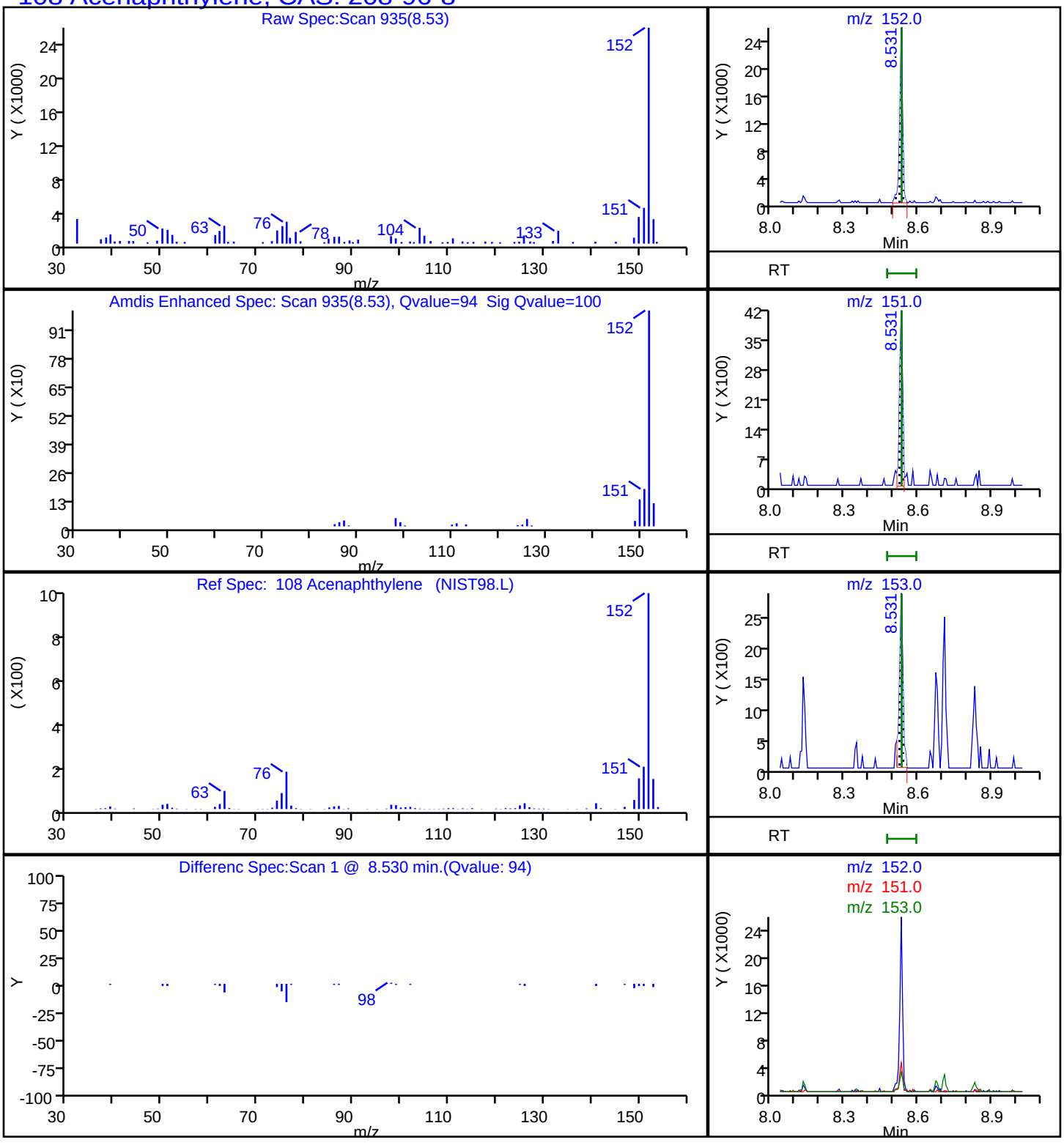


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9
Client ID:	MW-BCP-13A-10252024		
Operator ID:	JM	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

108 Acenaphthylene, CAS: 208-96-8



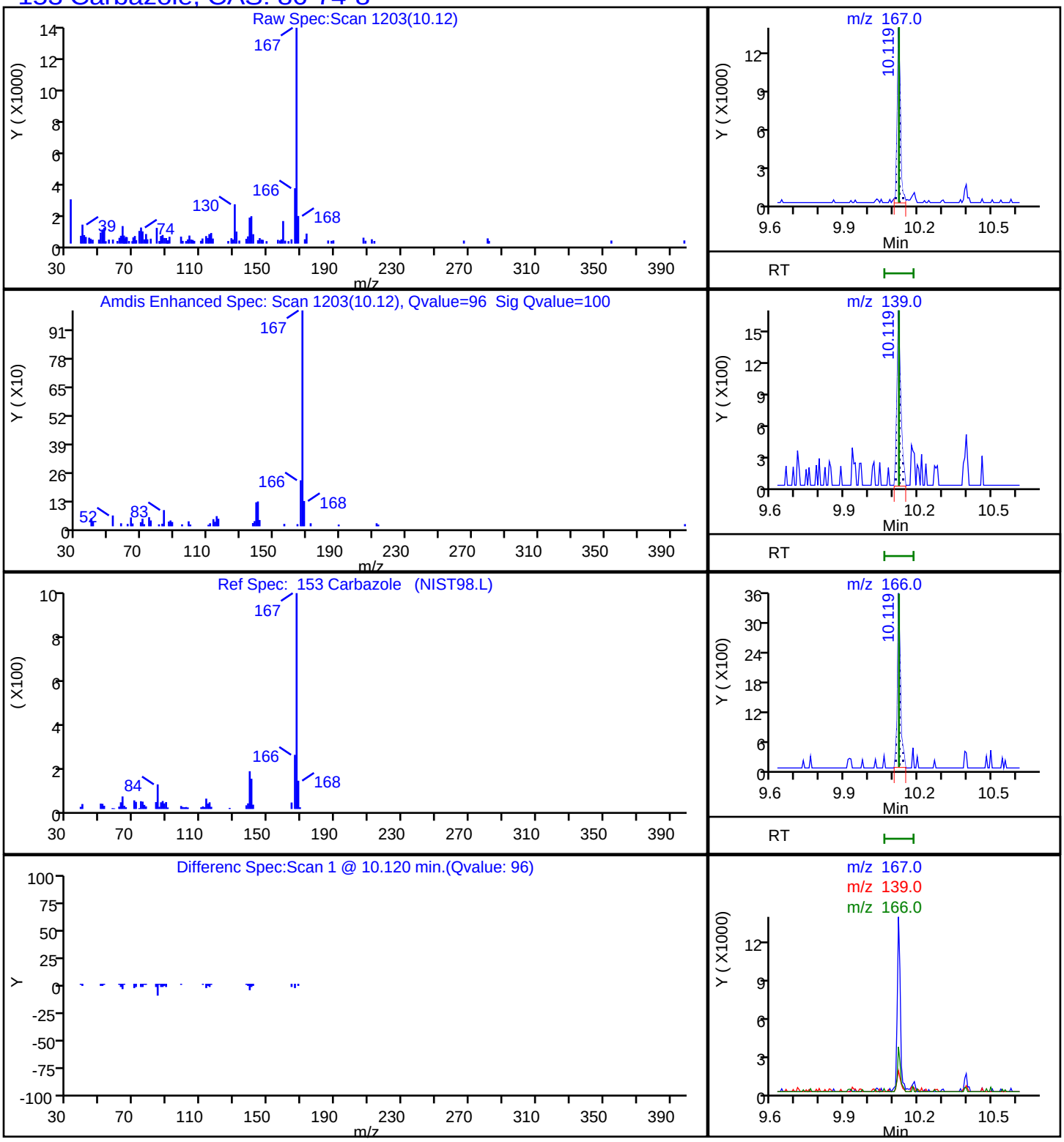
Report Date: 30-Oct-2024 16:06:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	JM	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

153 Carbazole, CAS: 86-74-8

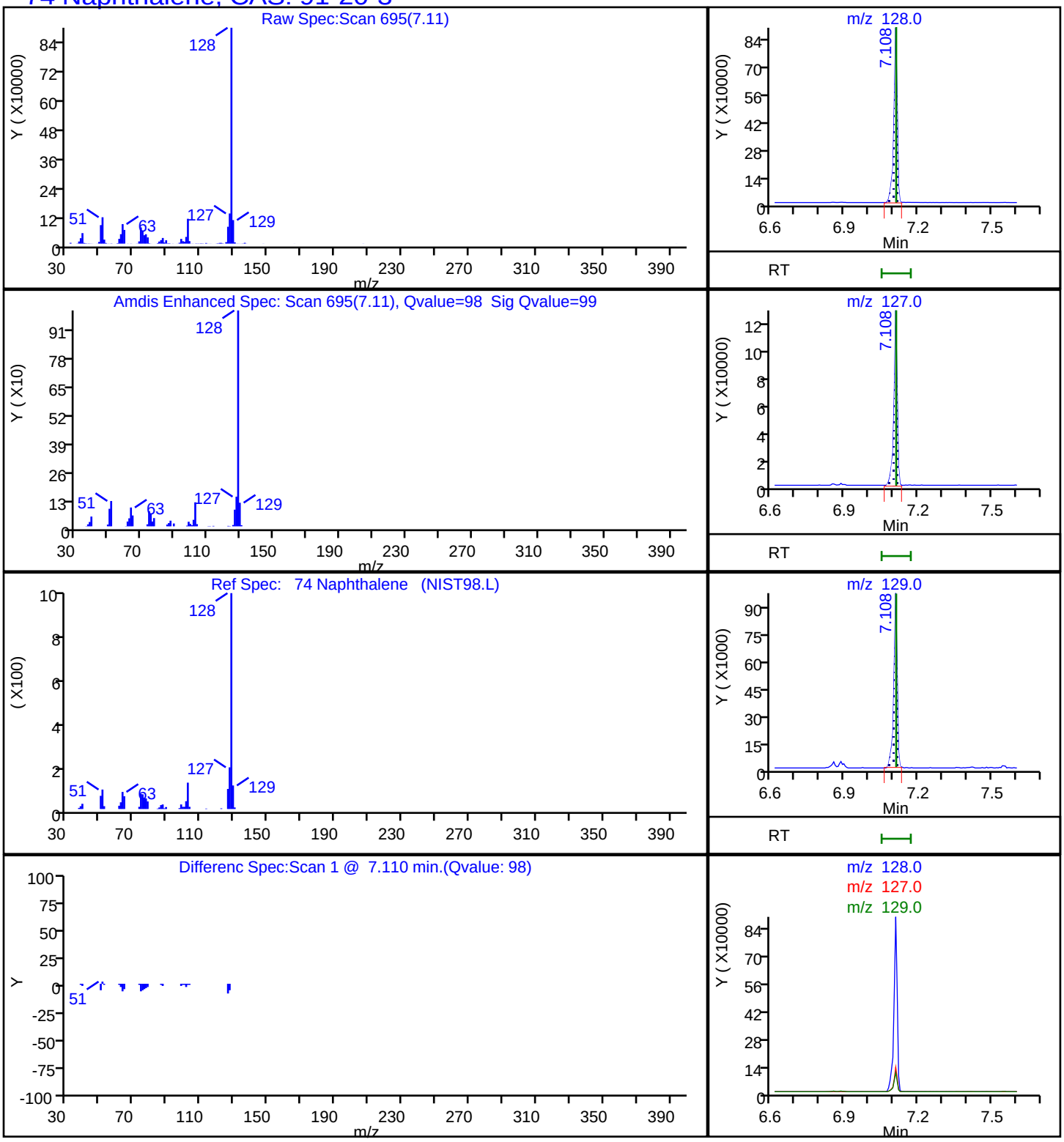


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9
Client ID:	MW-BCP-13A-10252024		
Operator ID:	JM	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

74 Naphthalene, CAS: 91-20-3

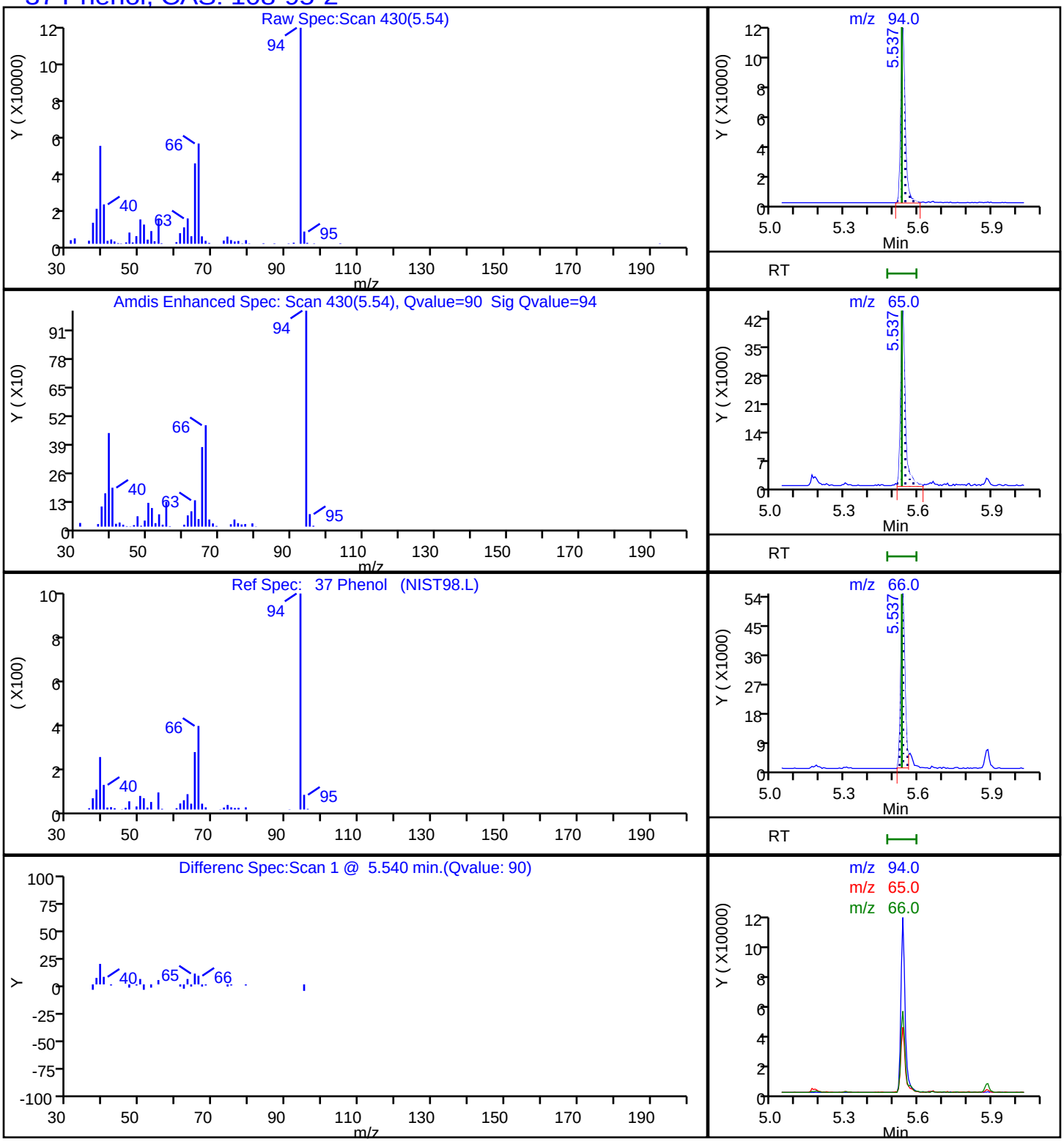


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9
Client ID:	MW-BCP-13A-10252024		
Operator ID:	JM	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

37 Phenol, CAS: 108-95-2



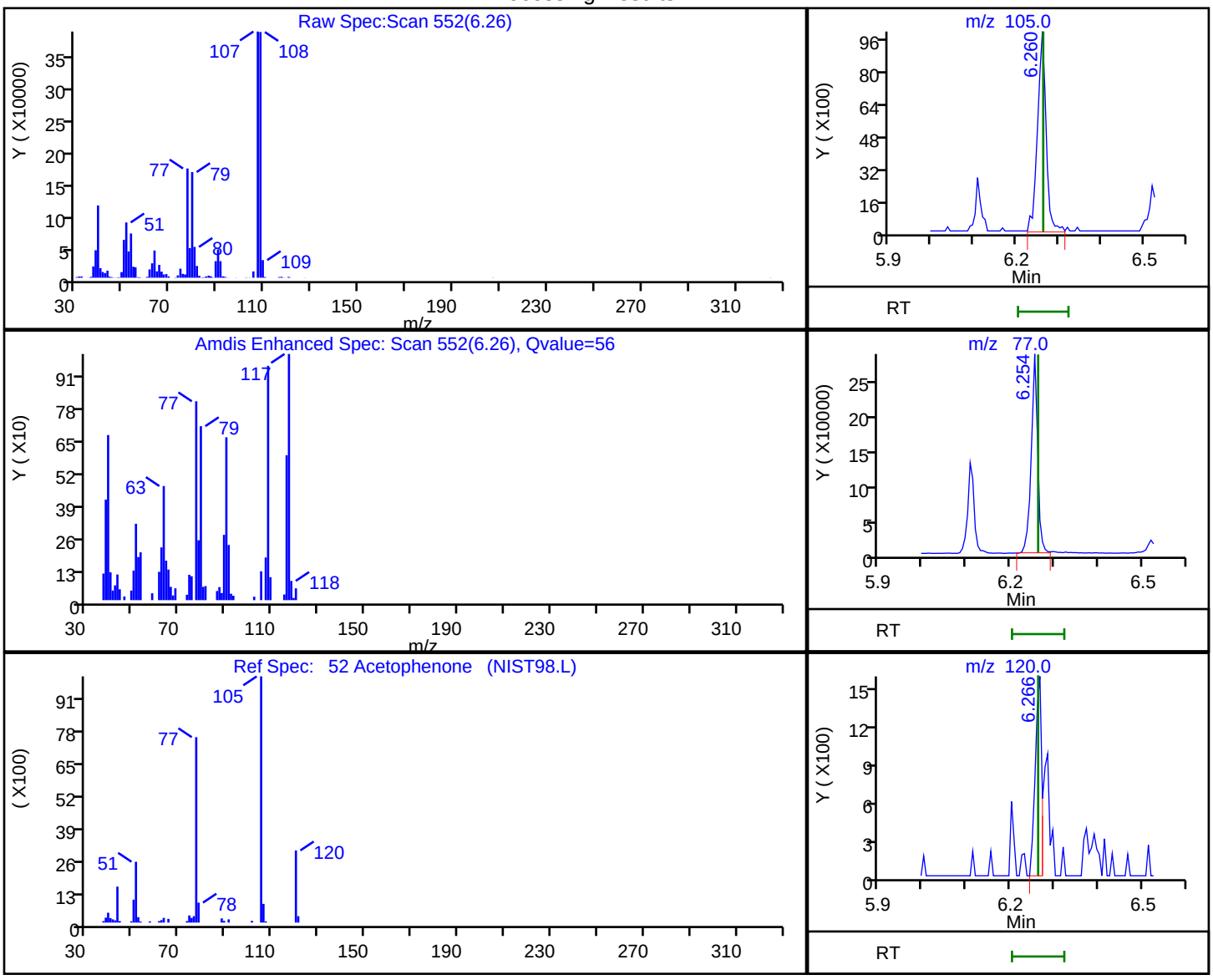
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D				
Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	JM	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

52 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
6.26	105.00	13956	0.216621
6.25	77.00	294649	
6.27	120.00	1542	

Reviewer: IZ8L, 30-Oct-2024 15:59:49 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

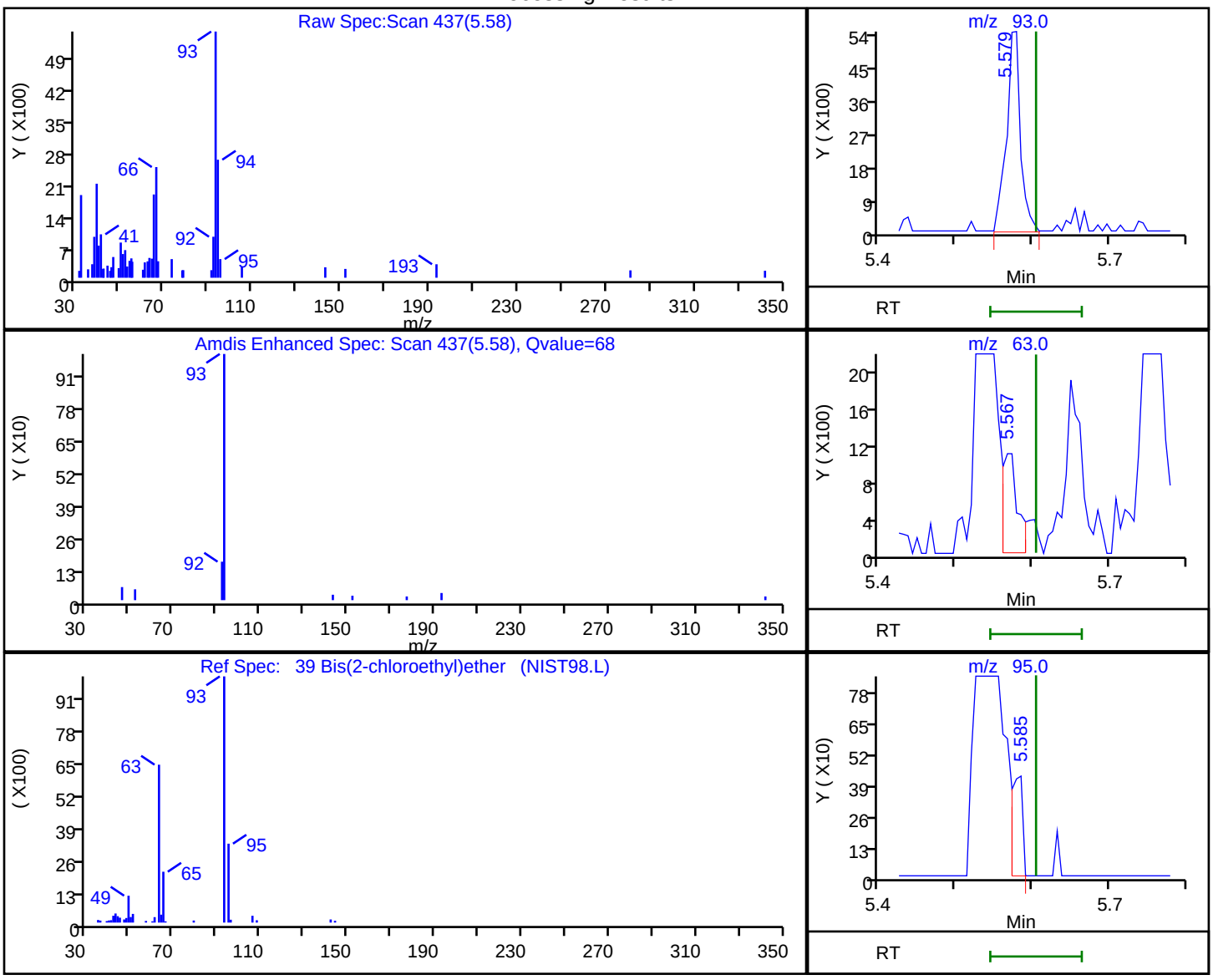
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D				
Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	JM	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

39 Bis(2-chloroethyl)ether, CAS: 111-44-4

Processing Results



RT	Mass	Response	Amount
5.58	93.00	6922	0.065727
5.57	63.00	1531	
5.58	95.00	428	

Reviewer: IZ8L, 30-Oct-2024 15:59:44 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 | Lab Sample ID: 480-224869-10

Matrix: Water | Lab File ID: Y04593.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:10

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 21:18

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	60		25	3.3
108-60-1	bis (2-chloroisopropyl) ether	ND		25	2.6
95-95-4	2,4,5-Trichlorophenol	ND		25	2.4
88-06-2	2,4,6-Trichlorophenol	ND		25	3.1
120-83-2	2,4-Dichlorophenol	ND		25	2.6
105-67-9	2,4-Dimethylphenol	10	J	25	2.5
51-28-5	2,4-Dinitrophenol	ND		50	11
121-14-2	2,4-Dinitrotoluene	ND		25	2.2
606-20-2	2,6-Dinitrotoluene	ND		25	2.0
91-58-7	2-Chloronaphthalene	ND		25	2.3
95-57-8	2-Chlorophenol	ND		25	2.7
91-57-6	2-Methylnaphthalene	66		25	3.0
95-48-7	2-Methylphenol	11	J	25	2.0
88-74-4	2-Nitroaniline	ND		50	2.1
88-75-5	2-Nitrophenol	ND		25	2.4
91-94-1	3,3'-Dichlorobenzidine	ND		25	2.0
99-09-2	3-Nitroaniline	ND		50	2.4
534-52-1	4,6-Dinitro-2-methylphenol	ND		50	11
101-55-3	4-Bromophenyl phenyl ether	ND		25	2.3
59-50-7	4-Chloro-3-methylphenol	ND		25	2.3
106-47-8	4-Chloroaniline	ND		25	3.0
7005-72-3	4-Chlorophenyl phenyl ether	ND		25	1.8
106-44-5	4-Methylphenol	21	J	50	1.8
100-01-6	4-Nitroaniline	ND		50	1.3
100-02-7	4-Nitrophenol	ND	*+	50	7.6
83-32-9	Acenaphthene	24	J	25	2.1
208-96-8	Acenaphthylene	250		25	1.9
98-86-2	Acetophenone	ND		25	2.7
120-12-7	Anthracene	29		25	1.4
1912-24-9	Atrazine	ND		25	2.3
100-52-7	Benzaldehyde	ND		25	1.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 | Lab Sample ID: 480-224869-10

Matrix: Water | Lab File ID: Y04593.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:10

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 21:18

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	7.9	J	25	1.8
50-32-8	Benzo(a)pyrene	5.4	J	25	2.4
205-99-2	Benzo(b)fluoranthene	6.1	J	25	1.7
191-24-2	Benzo(g,h,i)perylene	2.6	J	25	1.8
207-08-9	Benzo(k)fluoranthene	ND		25	3.7
111-91-1	Bis(2-chloroethoxy)methane	ND		25	1.8
111-44-4	Bis(2-chloroethyl)ether	ND		25	2.0
117-81-7	Bis(2-ethylhexyl) phthalate	ND		25	11
85-68-7	Butyl benzyl phthalate	ND		25	5.0
105-60-2	Caprolactam	ND		25	11
86-74-8	Carbazole	100		25	1.5
218-01-9	Chrysene	6.7	J	25	1.7
84-74-2	Di-n-butyl phthalate	ND		25	1.6
117-84-0	Di-n-octyl phthalate	ND		25	2.4
53-70-3	Dibenz(a,h)anthracene	ND		25	2.1
132-64-9	Dibenzofuran	130		50	2.6
84-66-2	Diethyl phthalate	ND		25	1.1
131-11-3	Dimethyl phthalate	ND		25	1.8
206-44-0	Fluoranthene	41		25	2.0
86-73-7	Fluorene	130		25	1.8
118-74-1	Hexachlorobenzene	ND		25	2.6
87-68-3	Hexachlorobutadiene	ND		25	3.4
77-47-4	Hexachlorocyclopentadiene	ND		25	3.0
67-72-1	Hexachloroethane	ND		25	3.0
193-39-5	Indeno(1,2,3-cd)pyrene	2.6	J	25	2.4
78-59-1	Isophorone	ND		25	2.2
621-64-7	N-Nitrosodi-n-propylamine	ND		25	2.7
86-30-6	N-Nitrosodiphenylamine	ND		25	2.6
91-20-3	*Naphthalene*	*3000*	*E*	*25*	*3.8*
98-95-3	Nitrobenzene	ND		25	1.5
87-86-5	Pentachlorophenol	ND		50	11

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 | Lab Sample ID: 480-224869-10

Matrix: Water | Lab File ID: Y04593.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:10

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 21:18

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	180		25	2.2
108-95-2	Phenol	ND		25	2.0
129-00-0	Pyrene	27		25	1.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	84		25-144
321-60-8	2-Fluorobiphenyl	78		53-126
367-12-4	2-Fluorophenol	58		24-120
4165-60-0	Nitrobenzene-d5	61		29-129
1718-51-0	p-Terphenyl-d14	51		33-132
4165-62-2	Phenol-d5	48		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Lims ID: 480-224869-A-10-A
Client ID: MW-BCP-13B-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 21:18:30 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Sample Info: 480-0120882-024
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:11:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.892	5.886	0.006	96	170437	4.00	
* 2 Naphthalene-d8	136	7.125	7.089	0.036	51	929237	4.00	
* 3 Acenaphthene-d10	164	8.649	8.648	0.001	95	370485	4.00	
* 4 Phenanthrene-d10	188	9.923	9.929	-0.006	97	637231	4.00	
* 5 Chrysene-d12	240	12.774	12.774	0.000	99	544295	4.00	
* 6 Perylene-d12	264	14.464	14.463	0.001	98	610821	4.00	
$ 7 2-Fluorophenol	112	4.659	4.644	0.018	92	48815	0.9296	
$ 8 Phenol-d5	99	5.536	5.527	0.012	90	49721	0.7664	
$ 9 Nitrobenzene-d5	82	6.420	6.410	0.006	96	84075	0.9822	
$ 10 2-Fluorobiphenyl	172	8.038	8.040	0.000	98	158441	1.24	
$ 11 2,4,6-Tribromophenol	330	9.330	9.327	0.000	84	19095	1.35	
$ 12 p-Terphenyl-d14	244	11.482	11.484	0.000	97	120489	0.8166	
35 Benzaldehyde	77		5.471				ND	U
37 Phenol	94		5.536				ND	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108	6.117	6.111	0.006	85	26403	0.5276	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.266	6.314	0.012	84	53911	1.04	
52 Acetophenone	105		6.265				ND	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107	6.769	6.751	0.018	96	42148	0.5208	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.113	7.113	0.006	89	36732723	149.6	EeMa
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113		7.463				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	U
87 2-Methylnaphthalene	142	7.730	7.726	0.000	90	502352	3.32	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154	8.127	8.132	-0.006	97	404878	2.98	
97 2-Chloronaphthalene	162		8.162				ND	U
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152	8.530	8.532	0.000	98	2022935	12.3	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153	8.678	8.675	0.000	95	129592	1.18	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	U
115 Dibenzofuran	168	8.826	8.829	0.000	95	931781	6.27	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166	9.123	9.125	0.000	94	801650	6.40	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.947	9.946	0.000	99	1543776	8.76	
152 Anthracene	178	9.988	10.001	0.000	97	257510	1.46	
153 Carbazole	167	10.119	10.149	0.001	97	794635	5.07	
157 Di-n-butyl phthalate	149		10.356				ND	
164 Fluoranthene	202	11.109	11.104	0.001	98	381586	2.04	
167 Pyrene	202	11.369	11.366	0.000	97	245795	1.35	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228	12.762	12.764	0.000	98	73811	0.3961	
182 Chrysene	228	12.804	12.809	-0.006	97	57409	0.3371	
184 Di-n-octyl phthalate	149		13.420				ND	U
186 Benzo[b]fluoranthene	252	14.013	14.019	0.006	97	55979	0.3053	
187 Benzo[k]fluoranthene	252	14.037	14.037	0.000	92	26498	0.1353	Ma
189 Benzo[a]pyrene	252	14.398	14.401	0.000	78	43652	0.2724	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276	15.957	15.942	0.012	97	23477	0.1294	
195 Benzo[g,h,i]perylene	276	16.408	16.417	0.012	94	18671	0.1275	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

e - Potential Peak Saturated

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

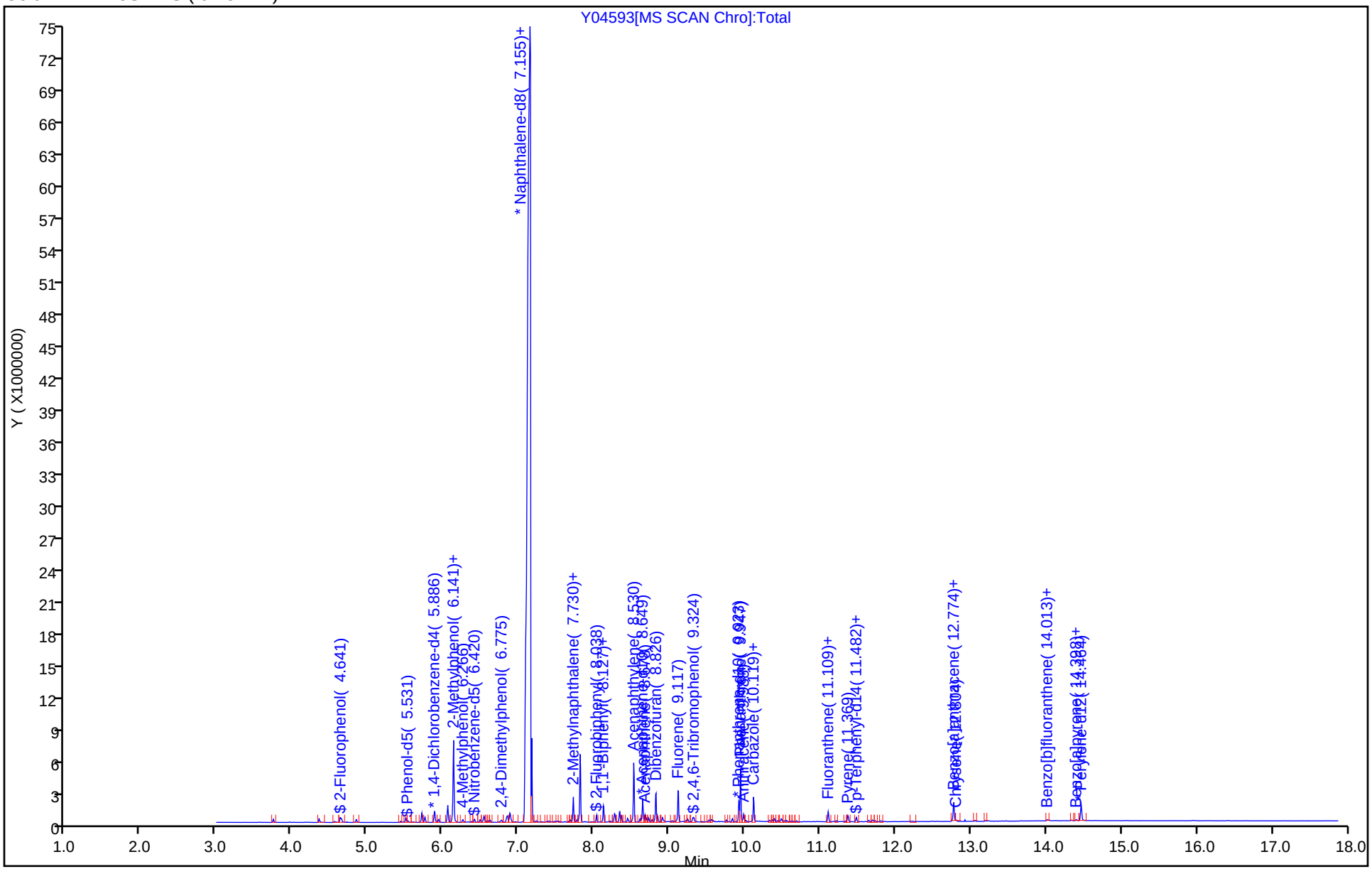
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10	Worklist Smp#:	24
Client ID:	MW-BCP-13B-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	24
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Lims ID: 480-224869-A-10-A
Client ID: MW-BCP-13B-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 21:18:30 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Sample Info: 480-0120882-024
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

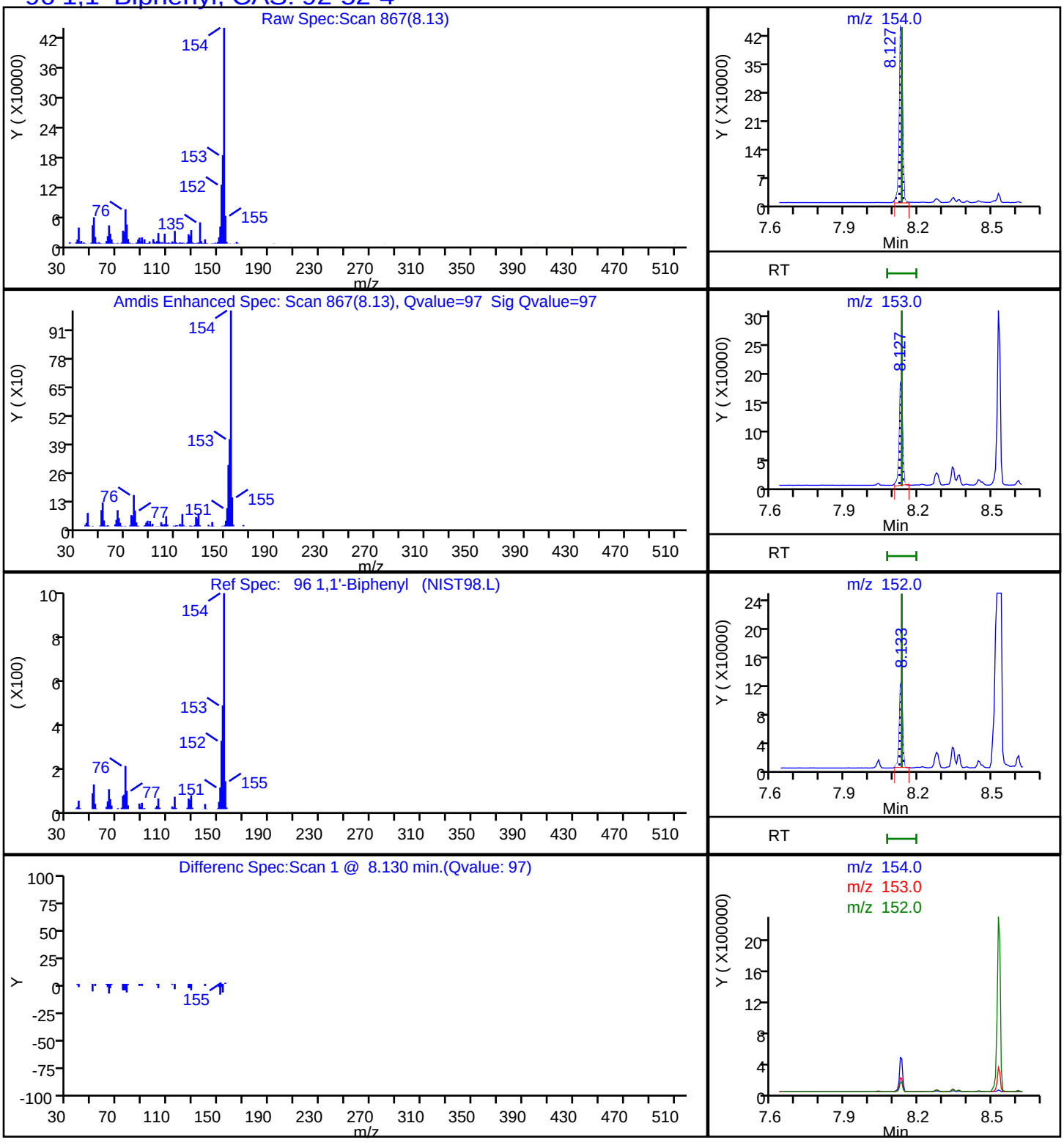
First Level Reviewer: IZ8L Date: 30-Oct-2024 15:11:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	0.9296	58.10
$ 8 Phenol-d5	8.00	0.7664	47.90
$ 9 Nitrobenzene-d5	8.00	0.9822	61.39
$ 10 2-Fluorobiphenyl	8.00	1.24	77.77
$ 11 2,4,6-Tribromophenol	8.00	1.35	84.36
$ 12 p-Terphenyl-d14	8.00	0.8166	51.04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Injection Date: 29-Oct-2024 21:18:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-10-A Lab Sample ID: 480-224869-10
Client ID: MW-BCP-13B-10252024
Operator ID: JM ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

96 1,1'-Biphenyl, CAS: 92-52-4

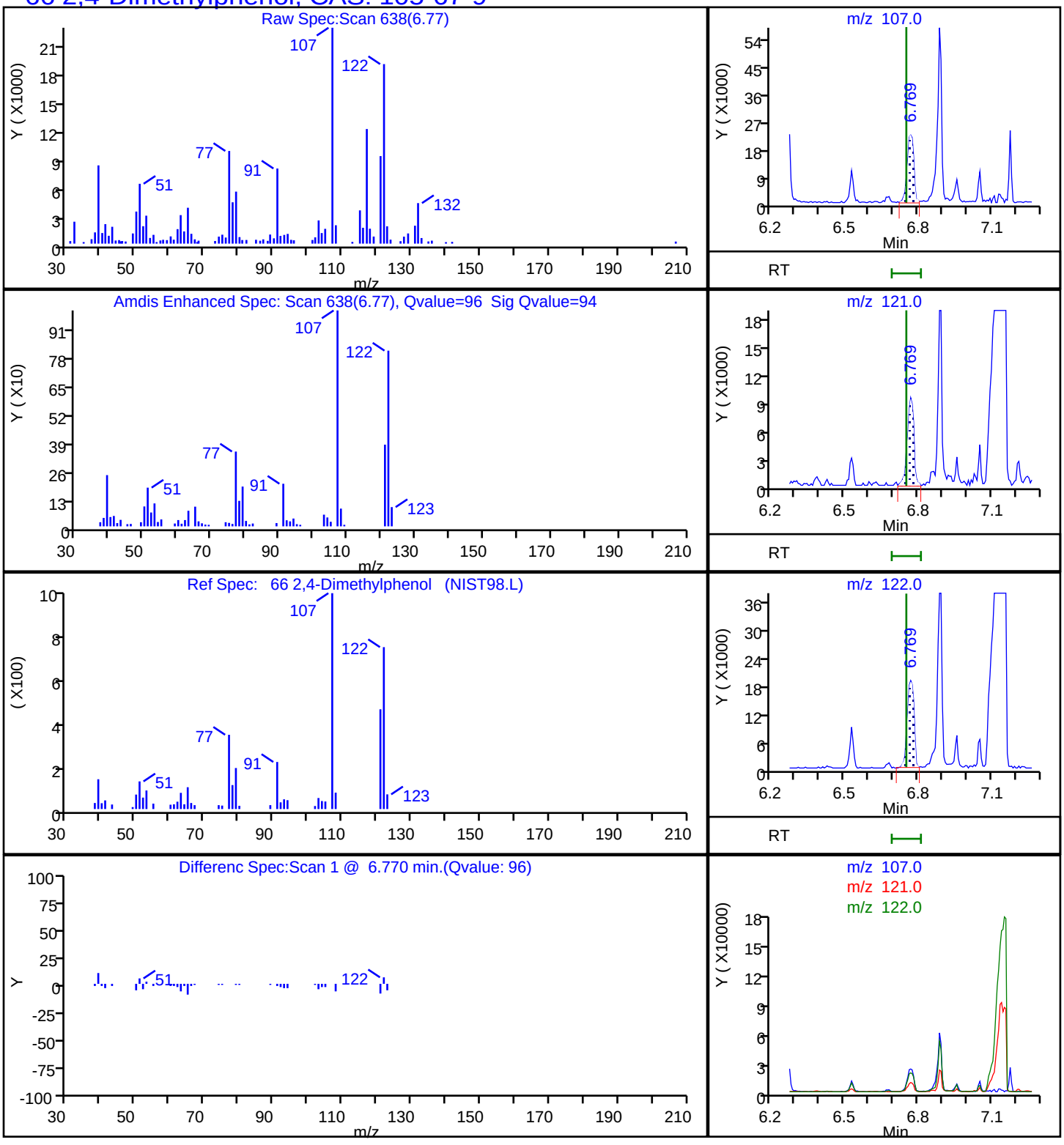


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

66 2,4-Dimethylphenol, CAS: 105-67-9



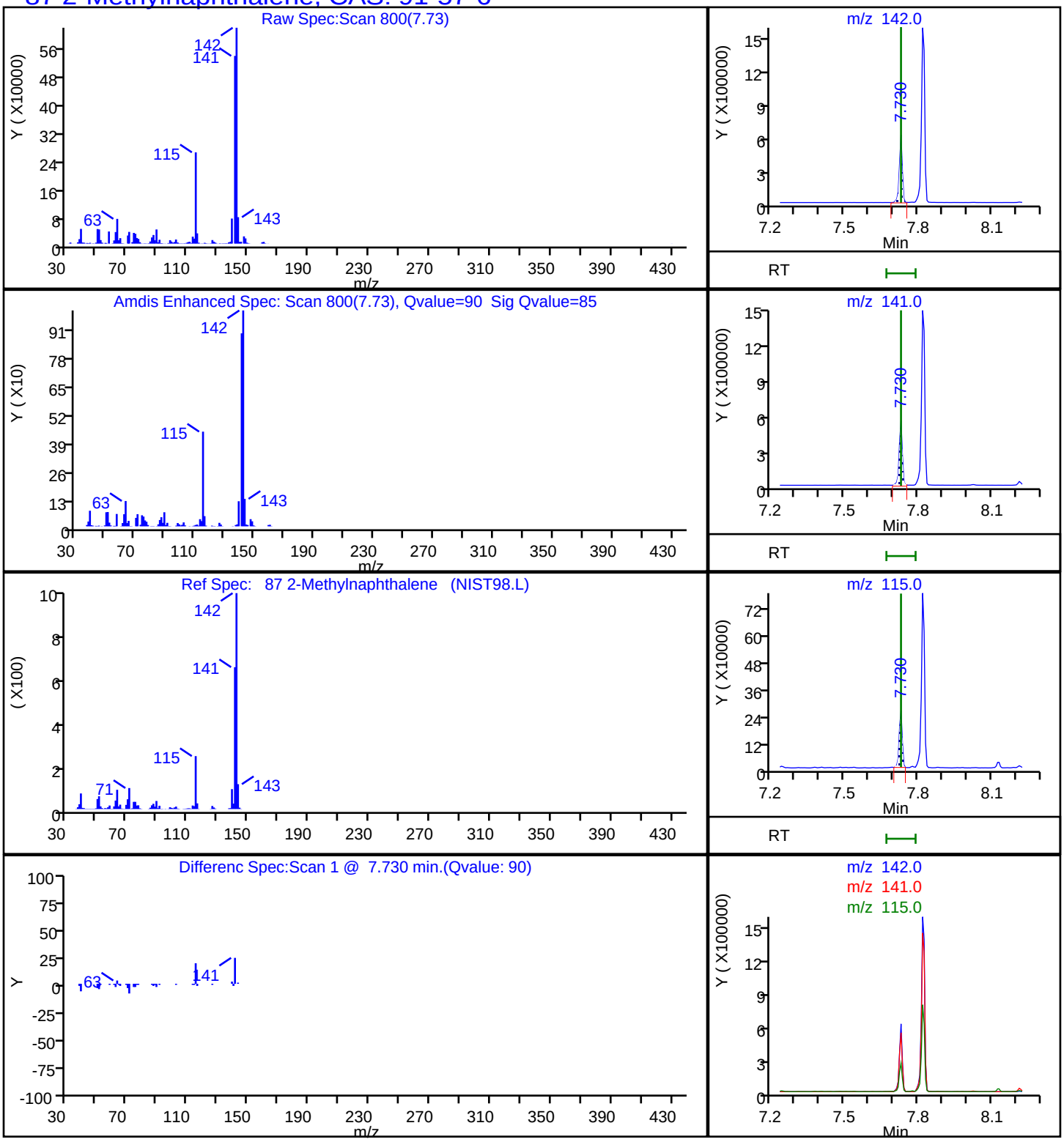
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

87 2-Methylnaphthalene, CAS: 91-57-6



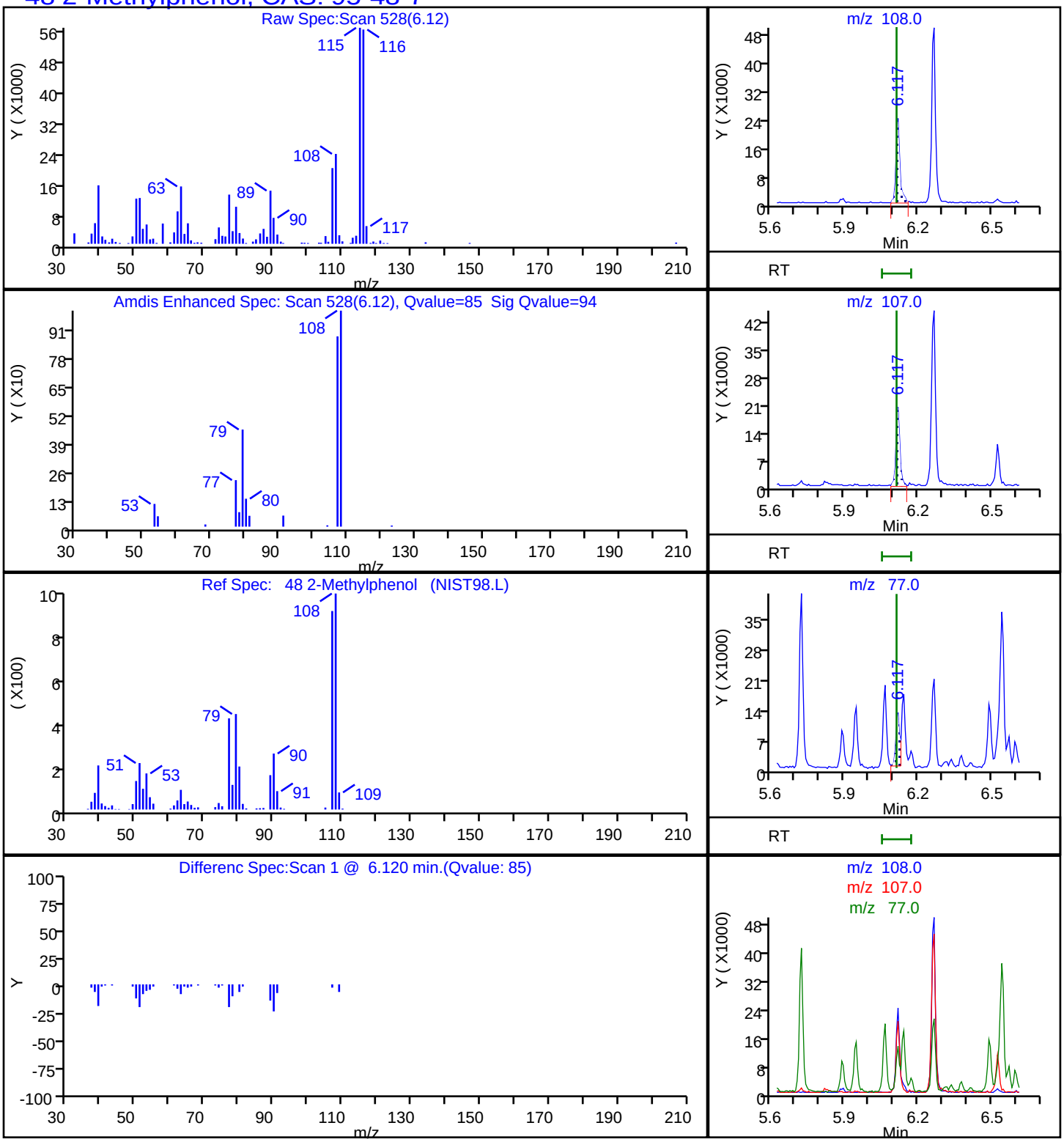
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

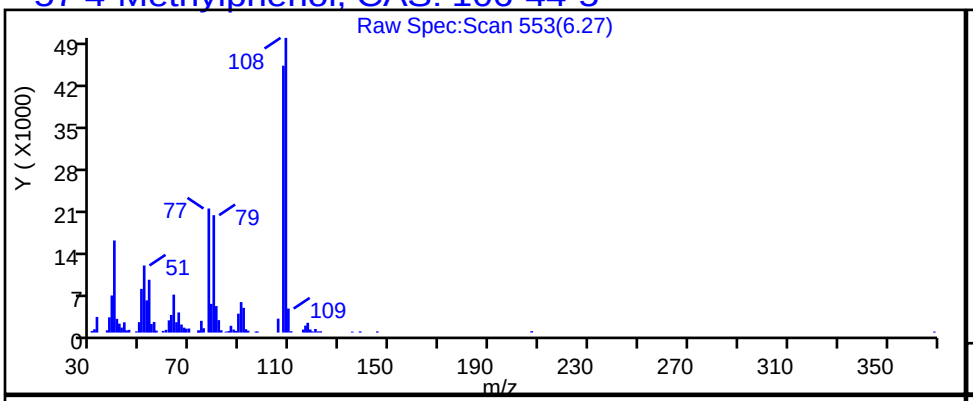
48 2-Methylphenol, CAS: 95-48-7

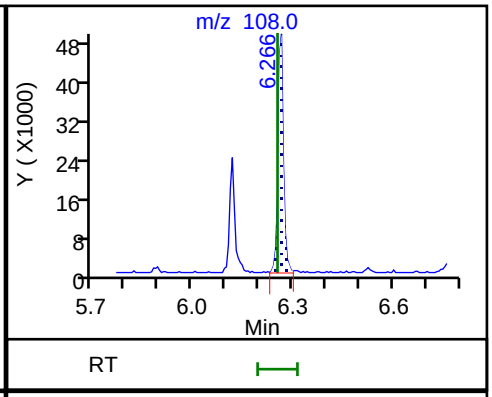


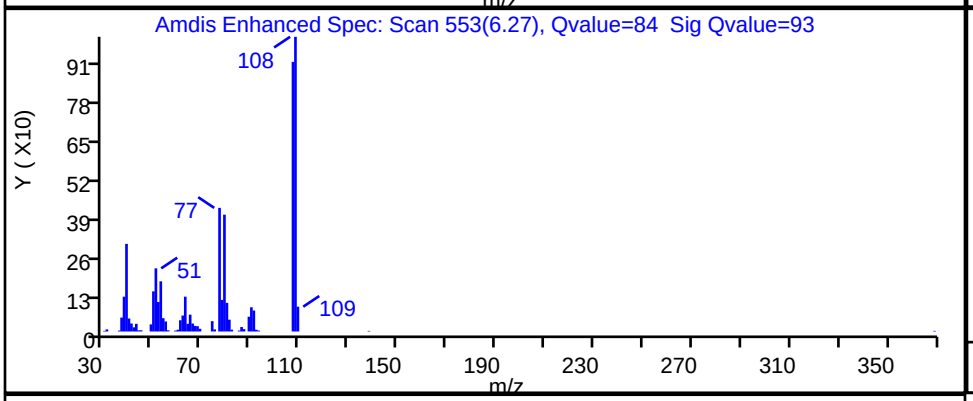
Eurofins Buffalo

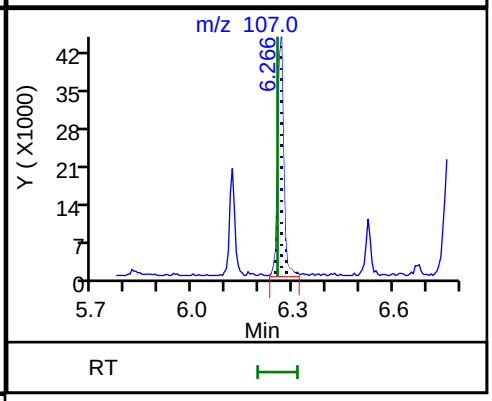
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Injection Date: 29-Oct-2024 21:18:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-10-A Lab Sample ID: 480-224869-10
Client ID: MW-BCP-13B-10252024
Operator ID: JM ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

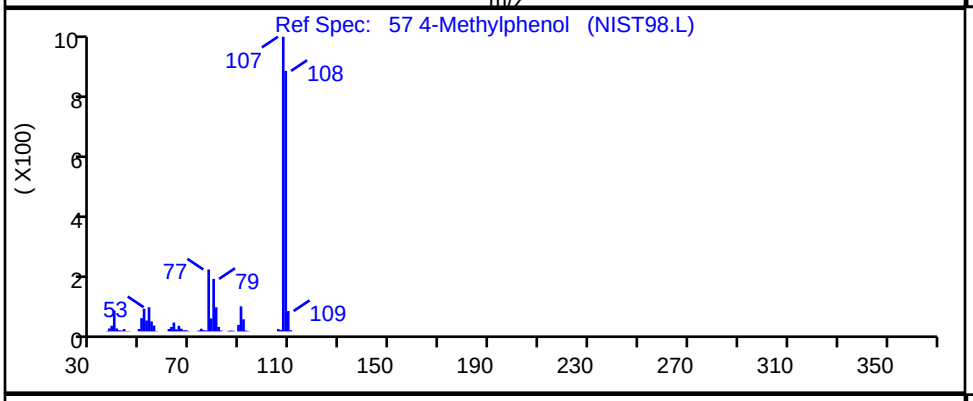
57 4-Methylphenol, CAS: 106-44-5

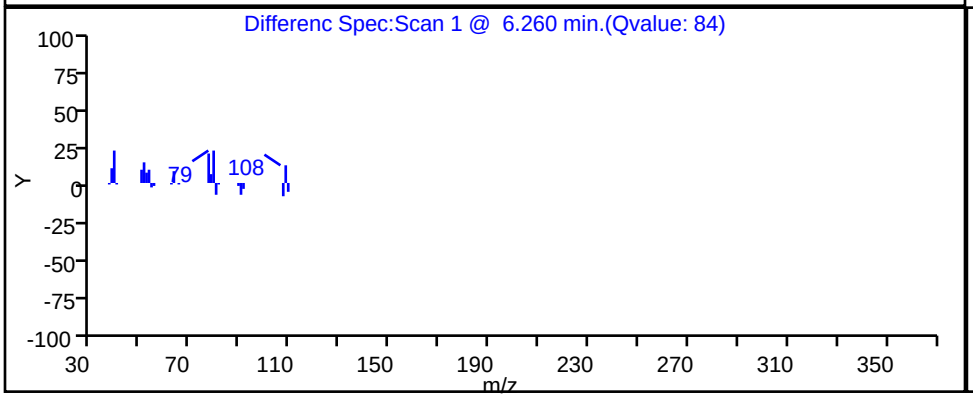


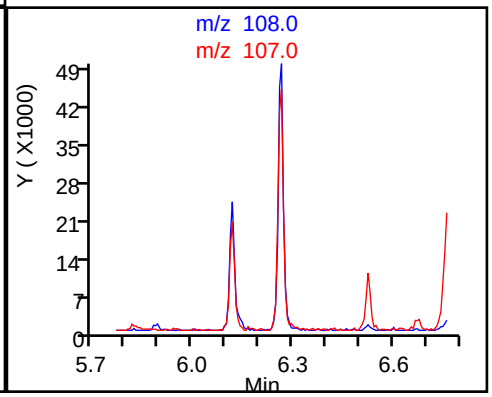










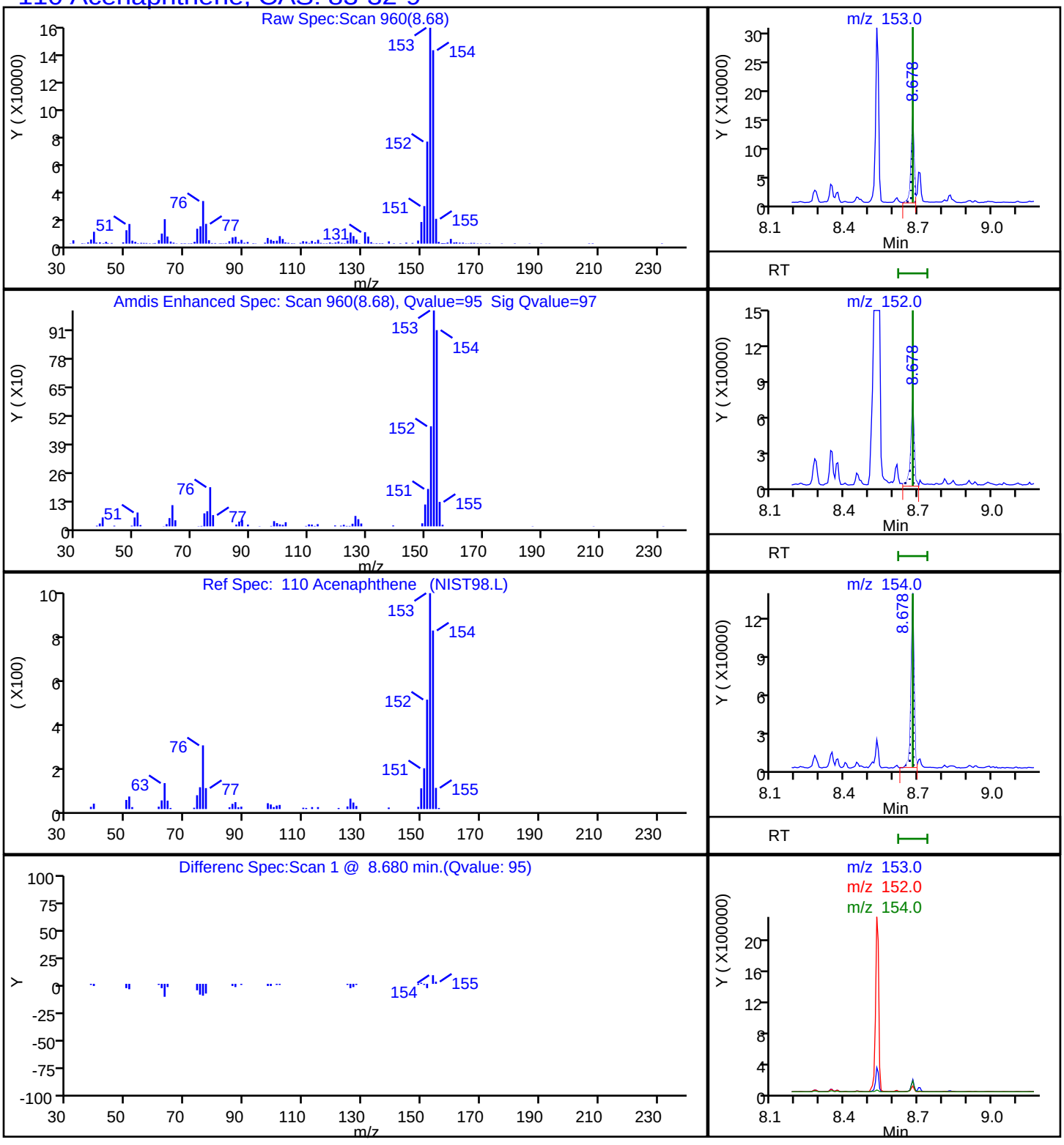


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

110 Acenaphthene, CAS: 83-32-9

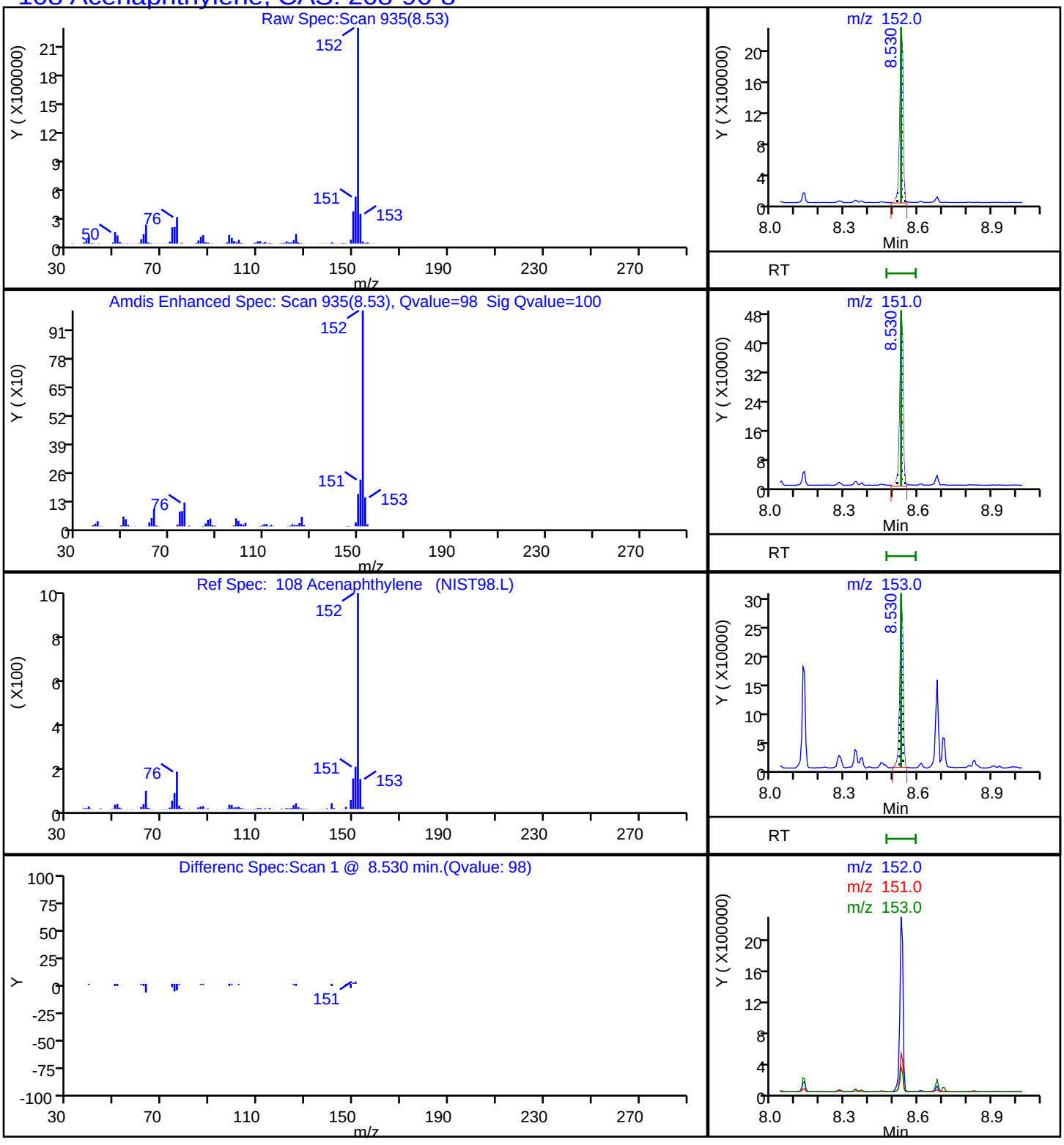


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

108 Acenaphthylene, CAS: 208-96-8



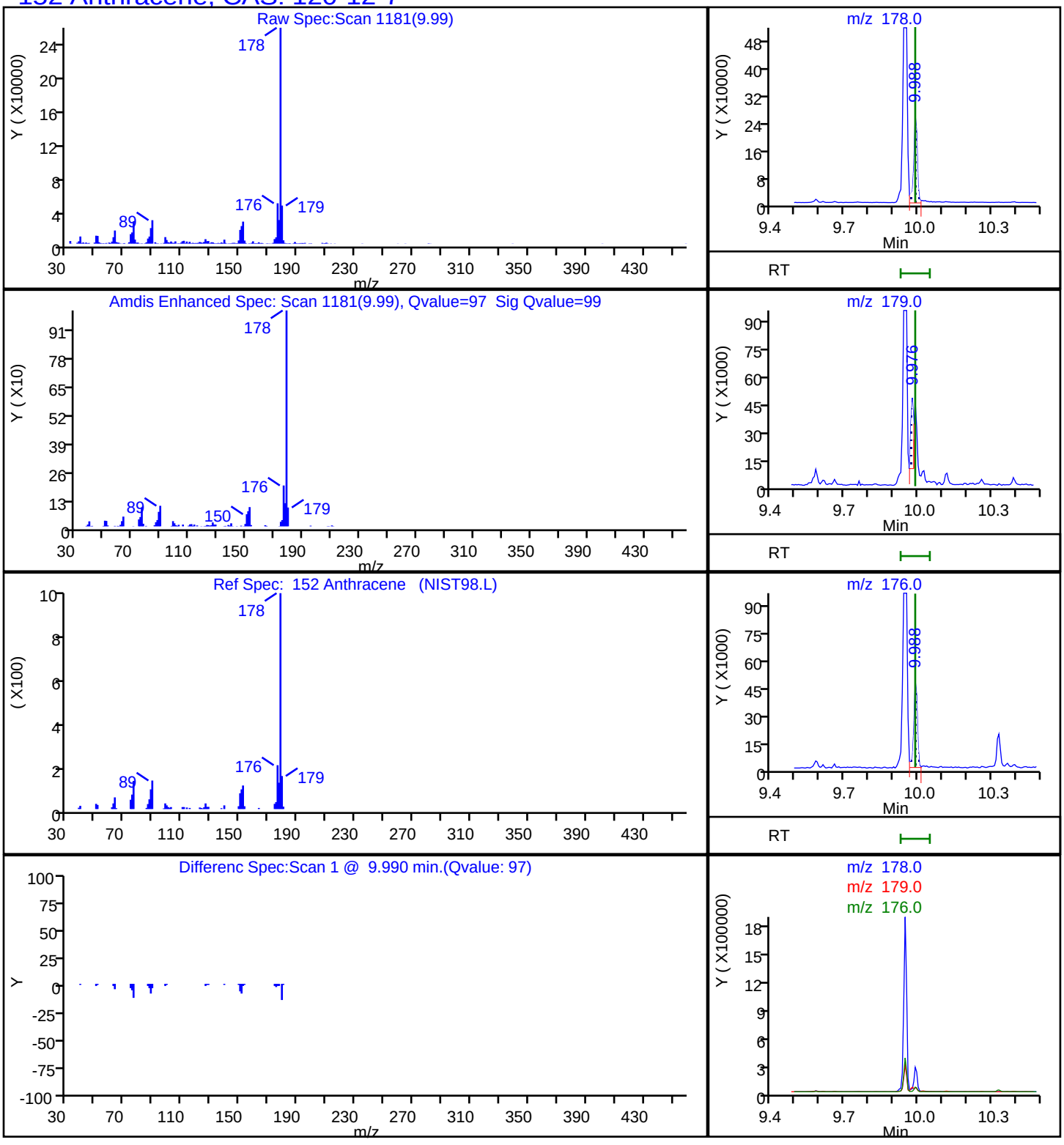
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

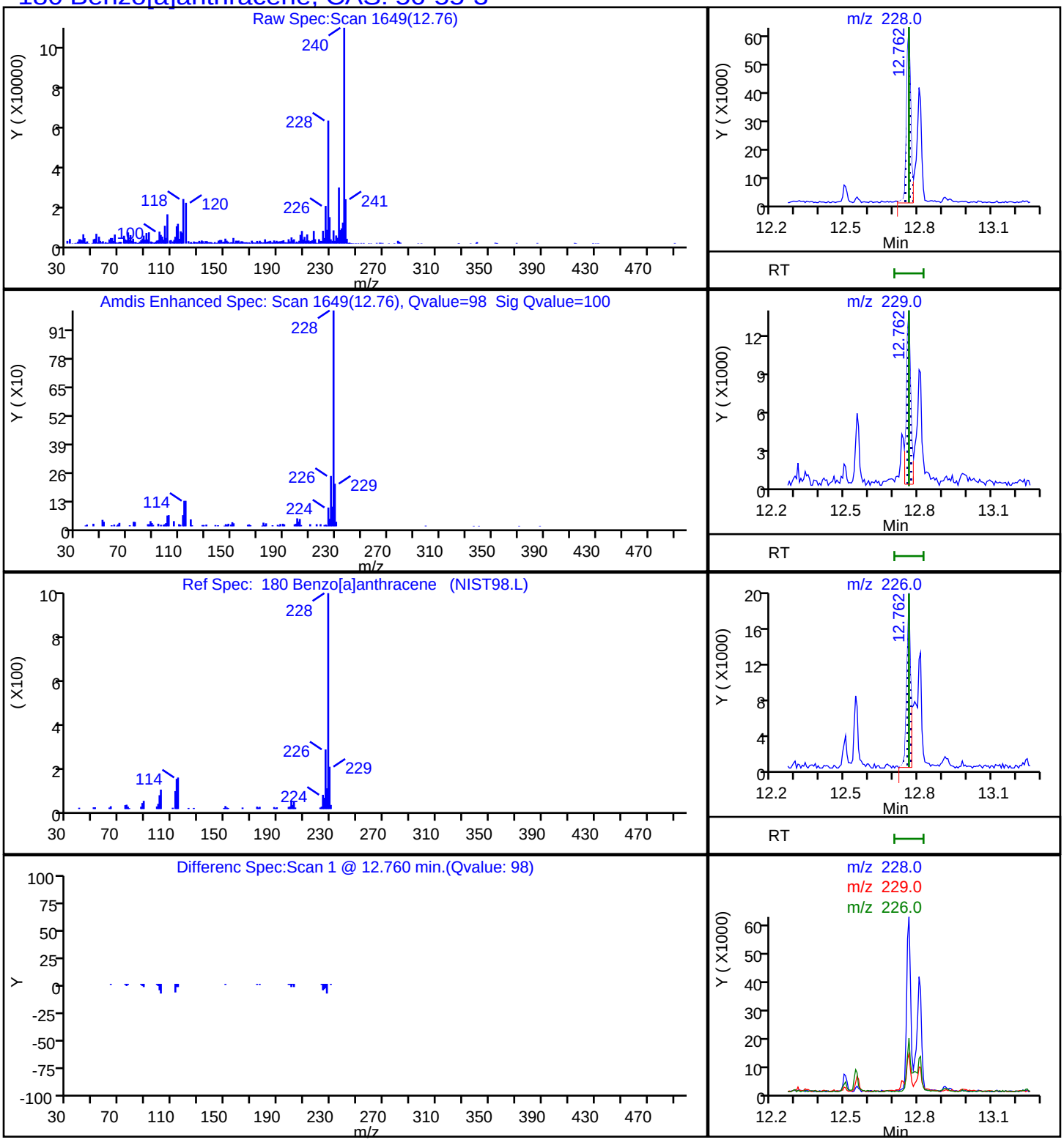
152 Anthracene, CAS: 120-12-7



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Injection Date: 29-Oct-2024 21:18:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-10-A Lab Sample ID: 480-224869-10
Client ID: MW-BCP-13B-10252024
Operator ID: JM ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

180 Benzo[a]anthracene, CAS: 56-55-3



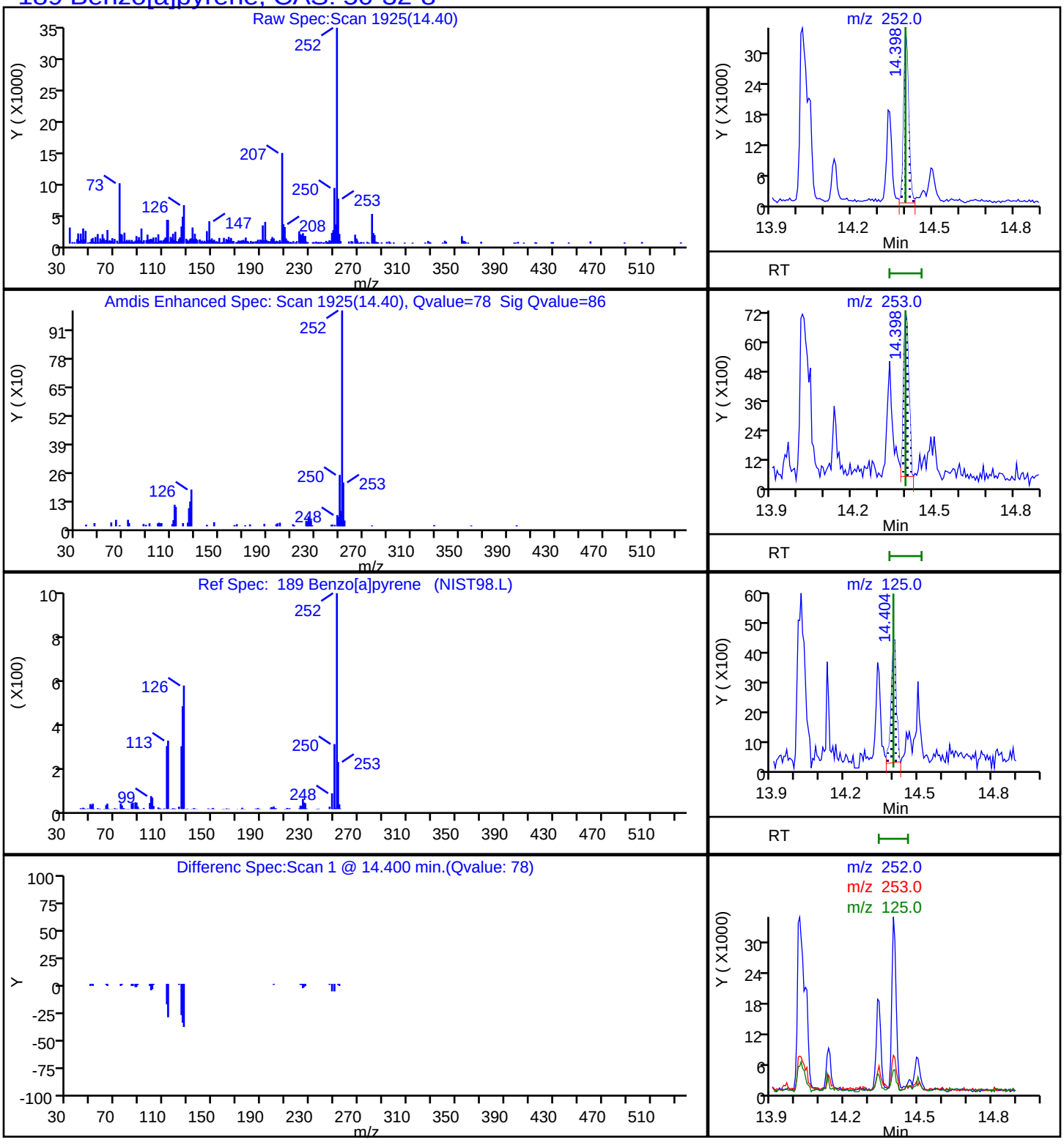
Report Date: 30-Oct-2024 15:17:26 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

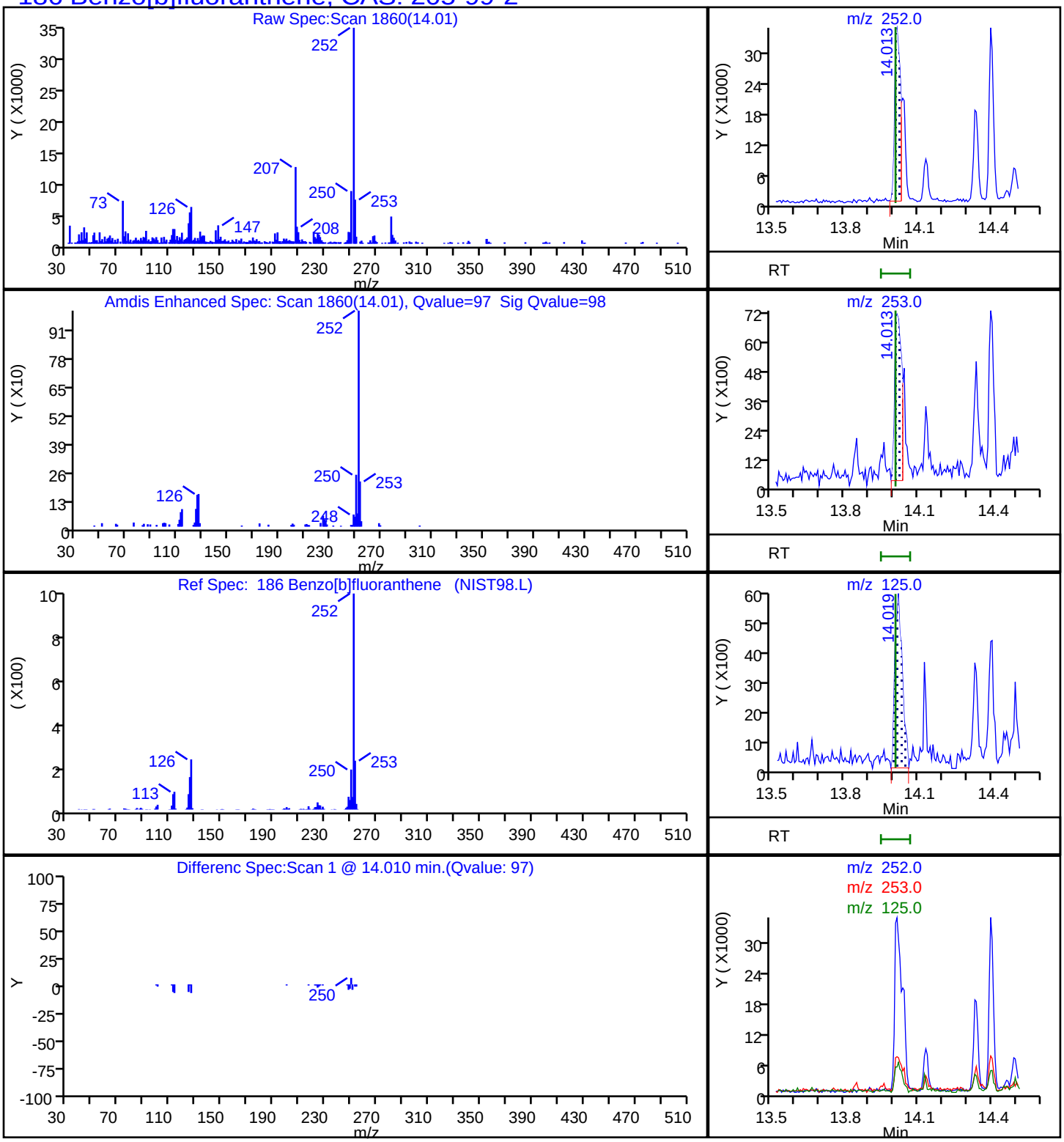
189 Benzo[a]pyrene, CAS: 50-32-8



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Injection Date: 29-Oct-2024 21:18:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-10-A Lab Sample ID: 480-224869-10
Client ID: MW-BCP-13B-10252024
Operator ID: JM ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

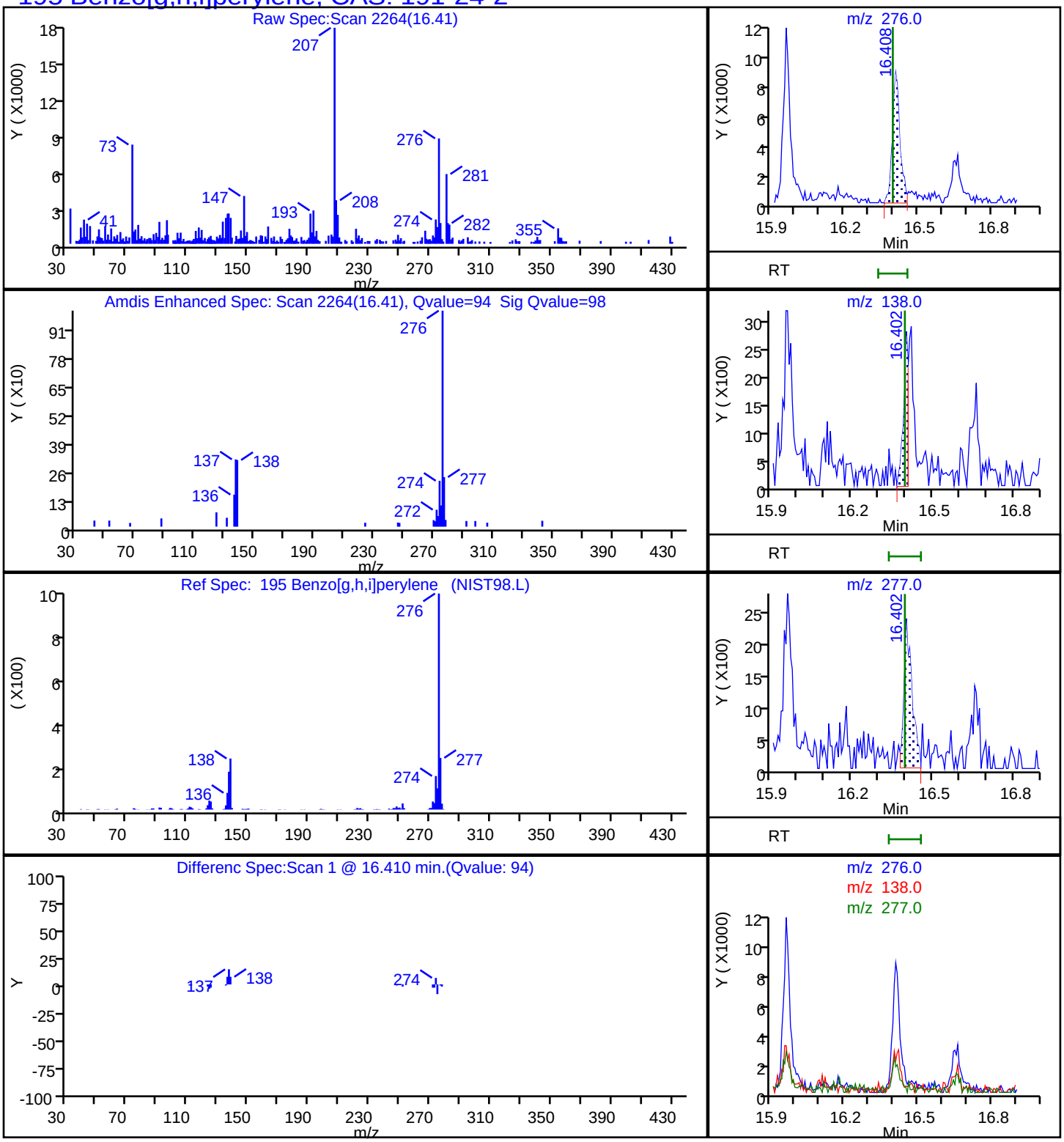
186 Benzo[b]fluoranthene, CAS: 205-99-2



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

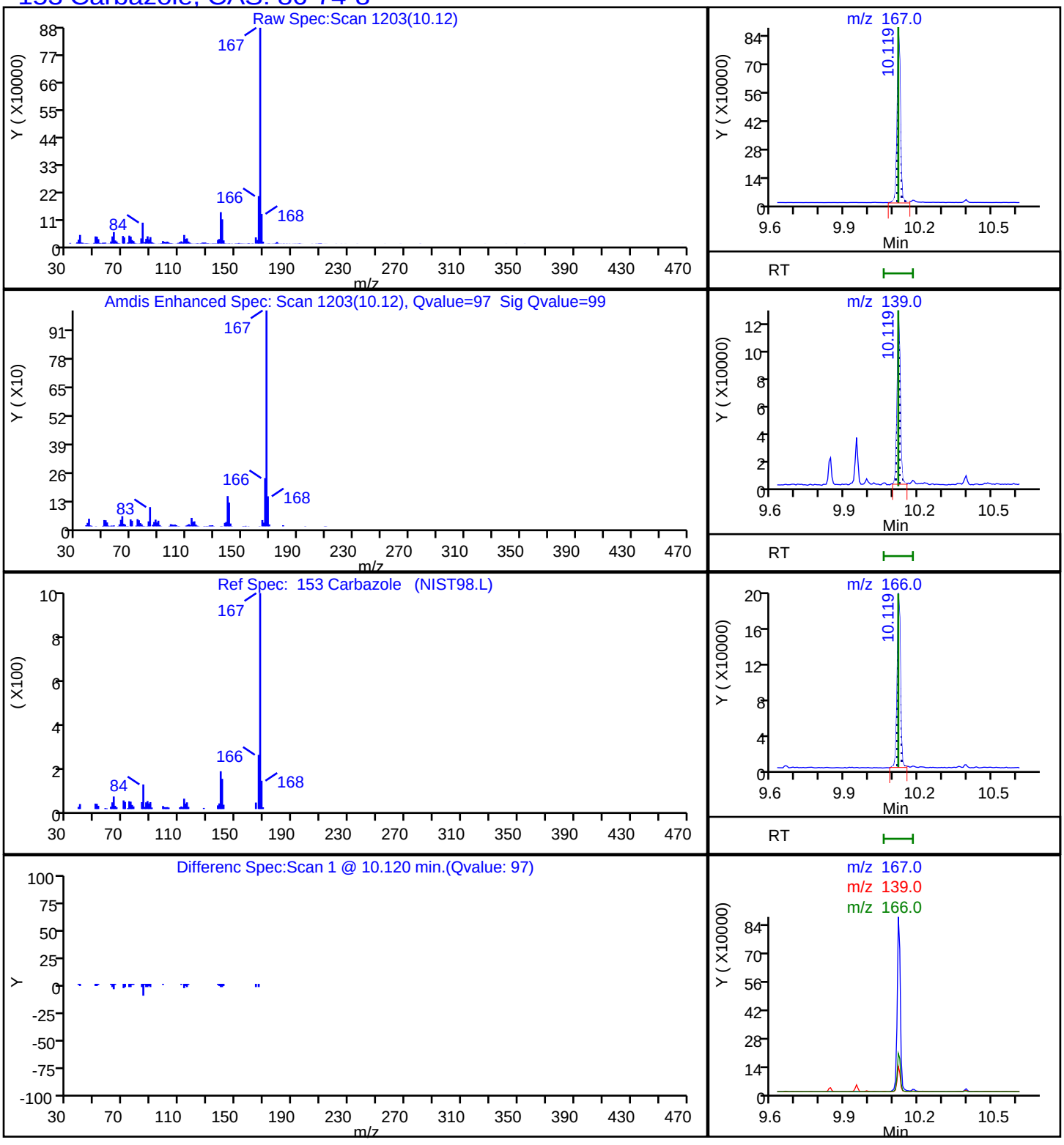
195 Benzo[g,h,i]perylene, CAS: 191-24-2



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Injection Date: 29-Oct-2024 21:18:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-10-A Lab Sample ID: 480-224869-10
Client ID: MW-BCP-13B-10252024
Operator ID: JM ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

153 Carbazole, CAS: 86-74-8



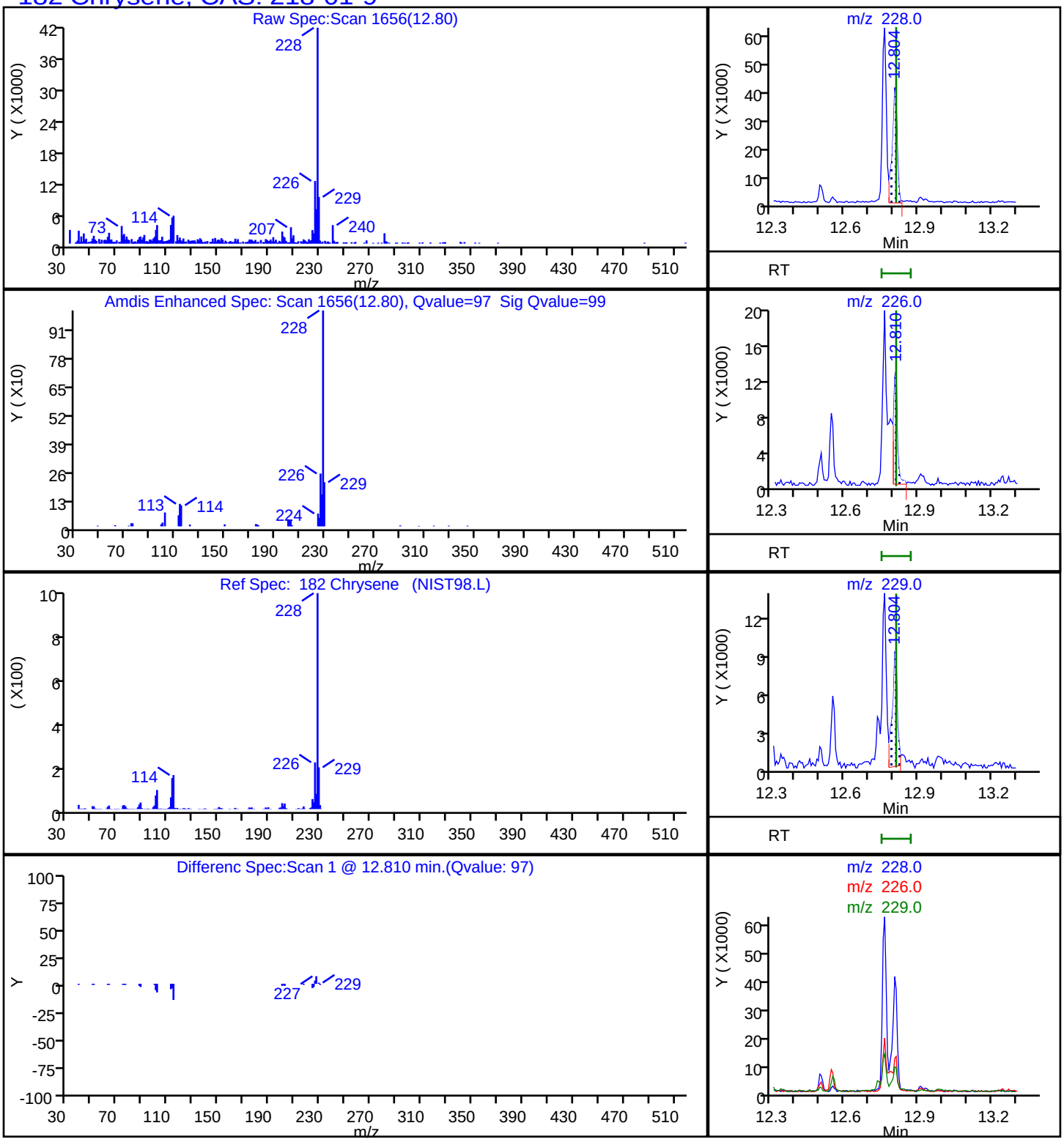
Report Date: 30-Oct-2024 15:17:26 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

182 Chrysene, CAS: 218-01-9



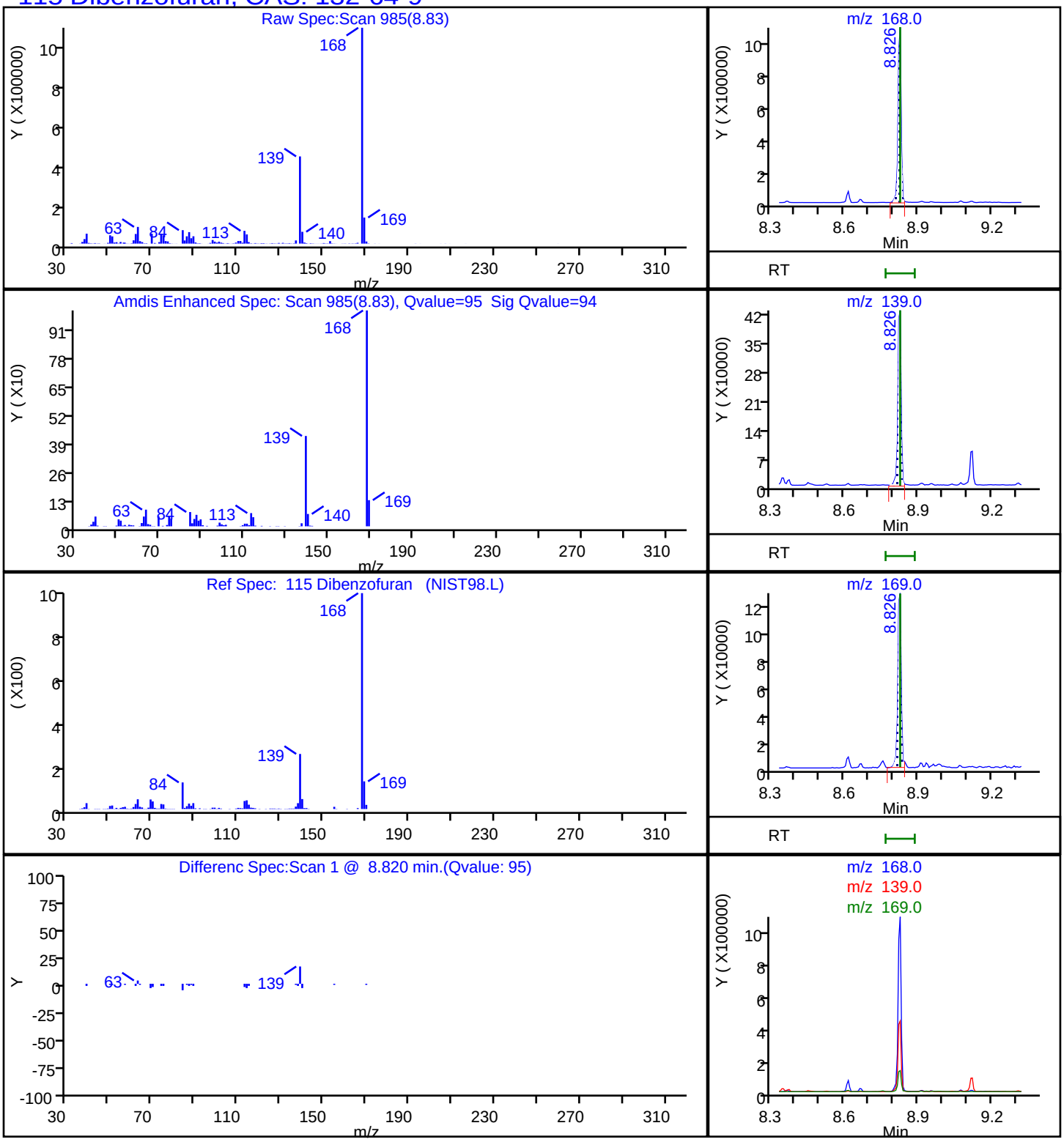
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

115 Dibenzofuran, CAS: 132-64-9



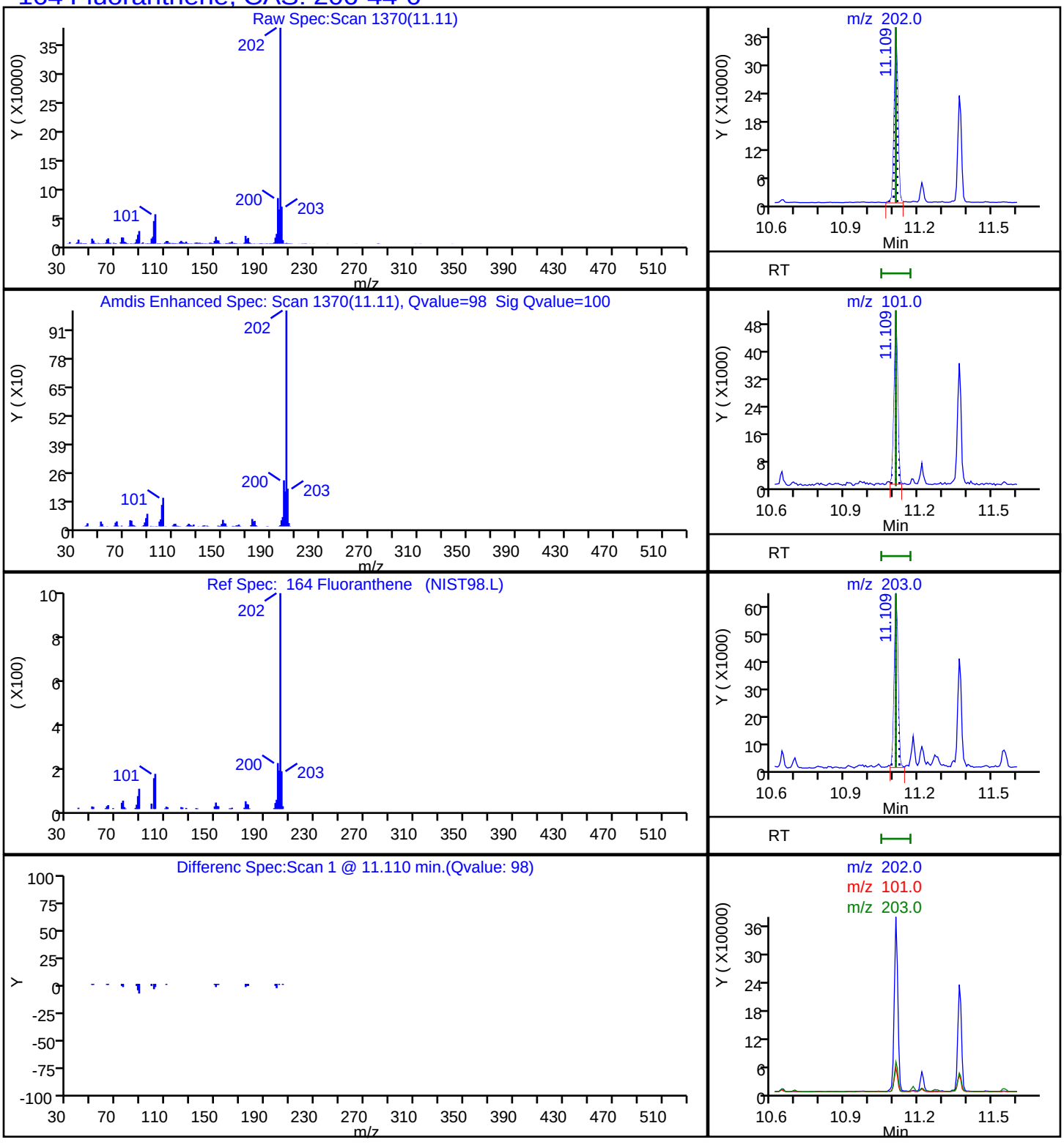
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

164 Fluoranthene, CAS: 206-44-0



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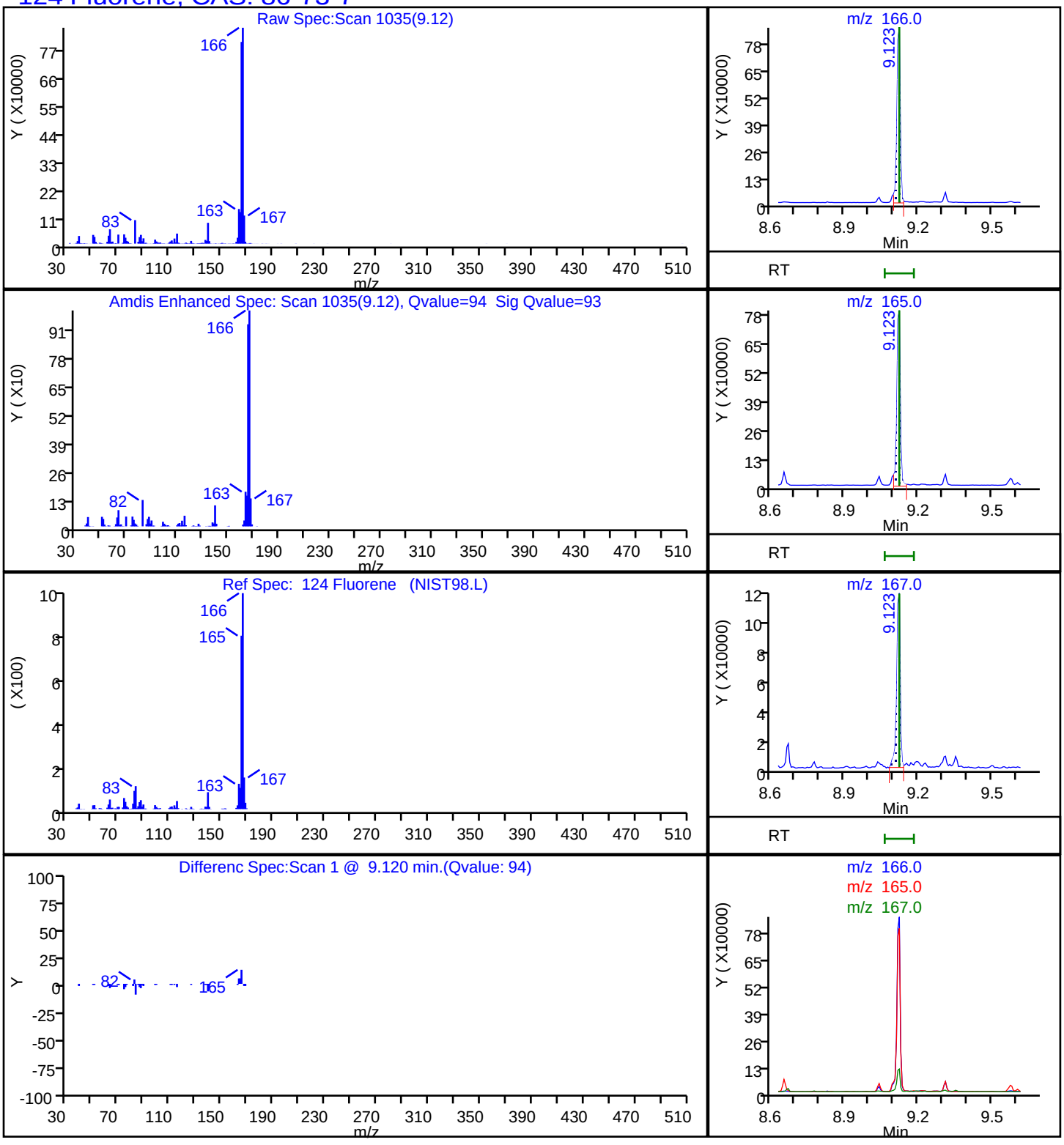
Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

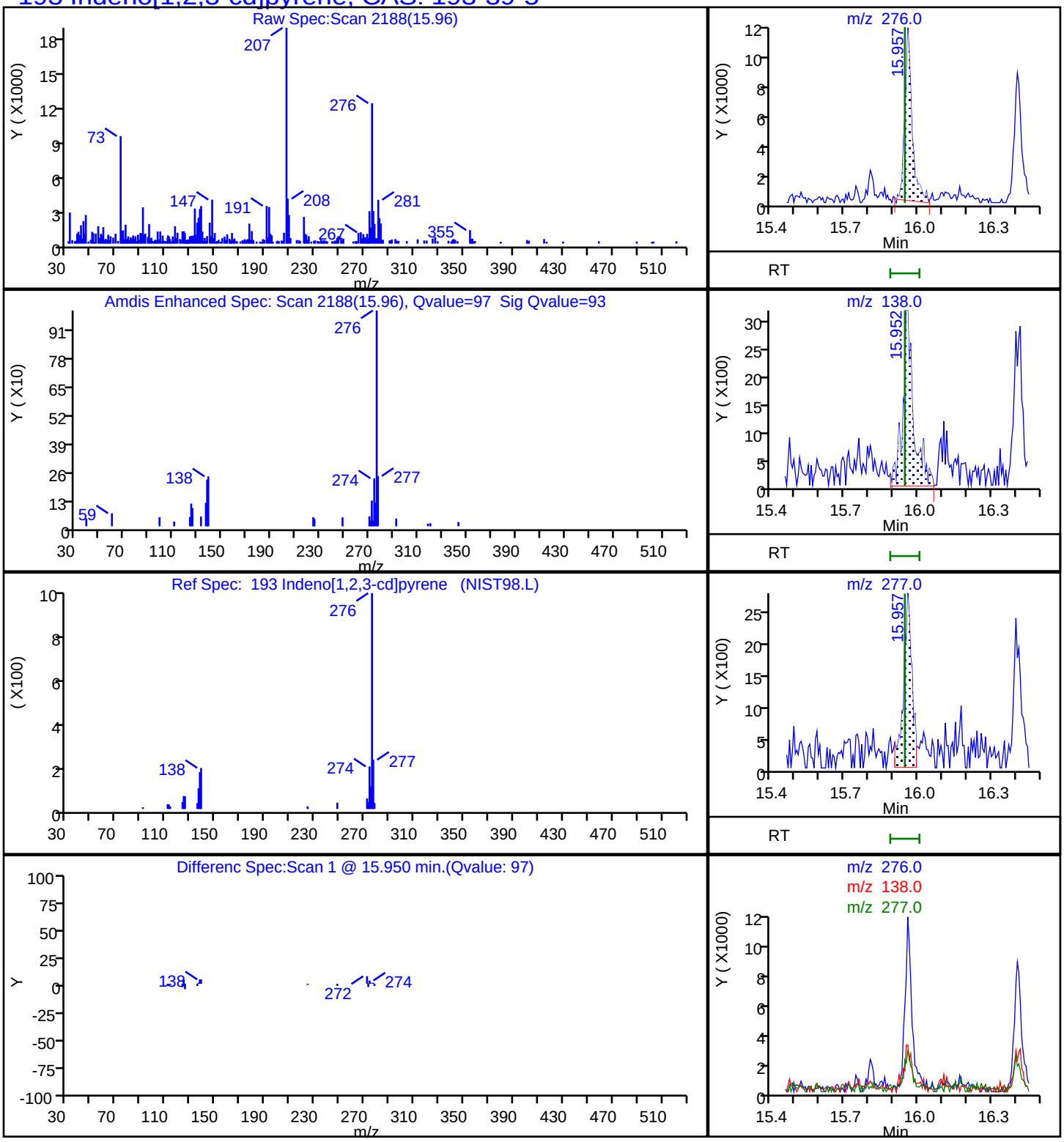
124 Fluorene, CAS: 86-73-7



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

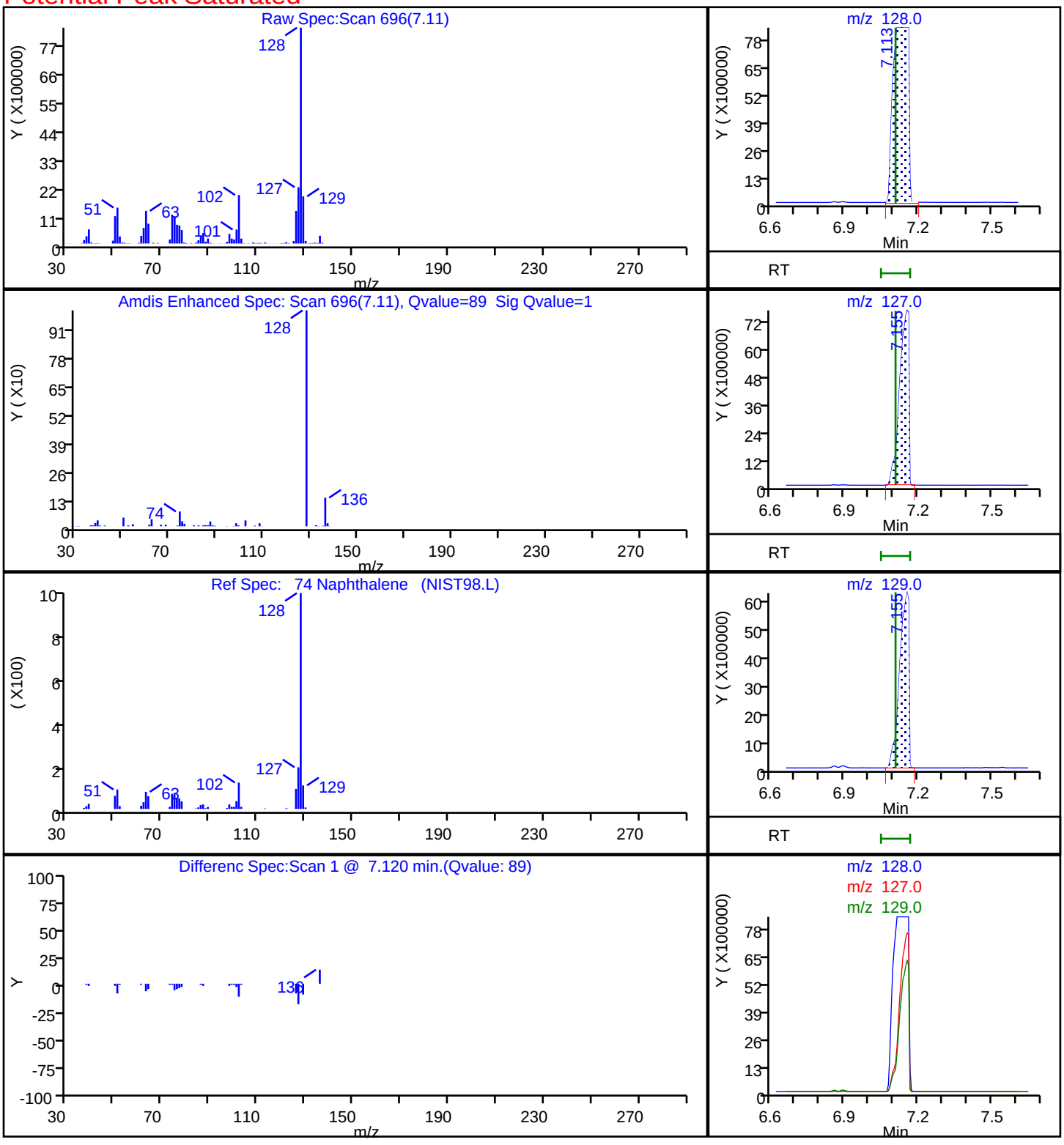
Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3

Potential Peak Saturated



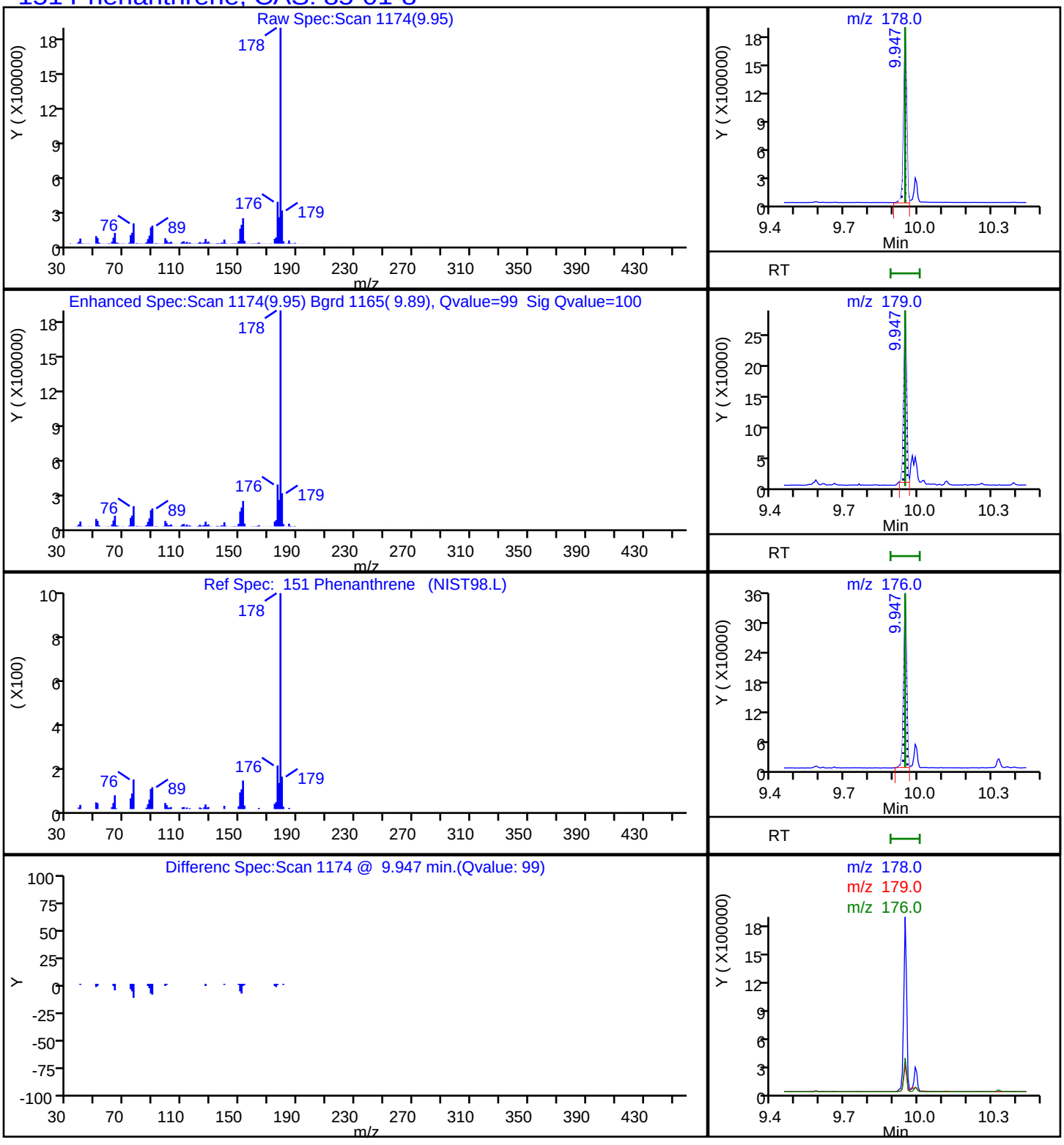
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

151 Phenanthrene, CAS: 85-01-8

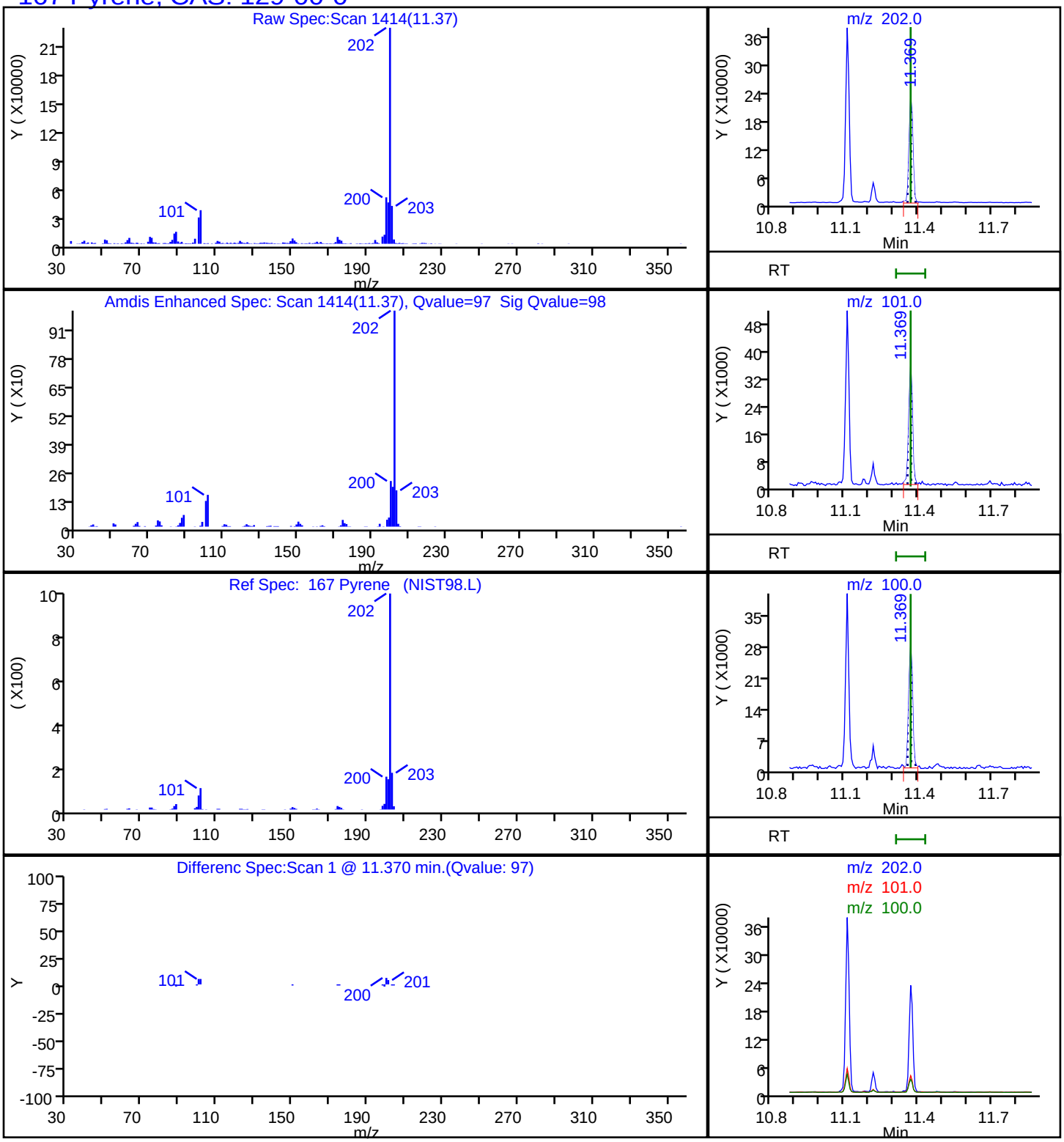


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

167 Pyrene, CAS: 129-00-0



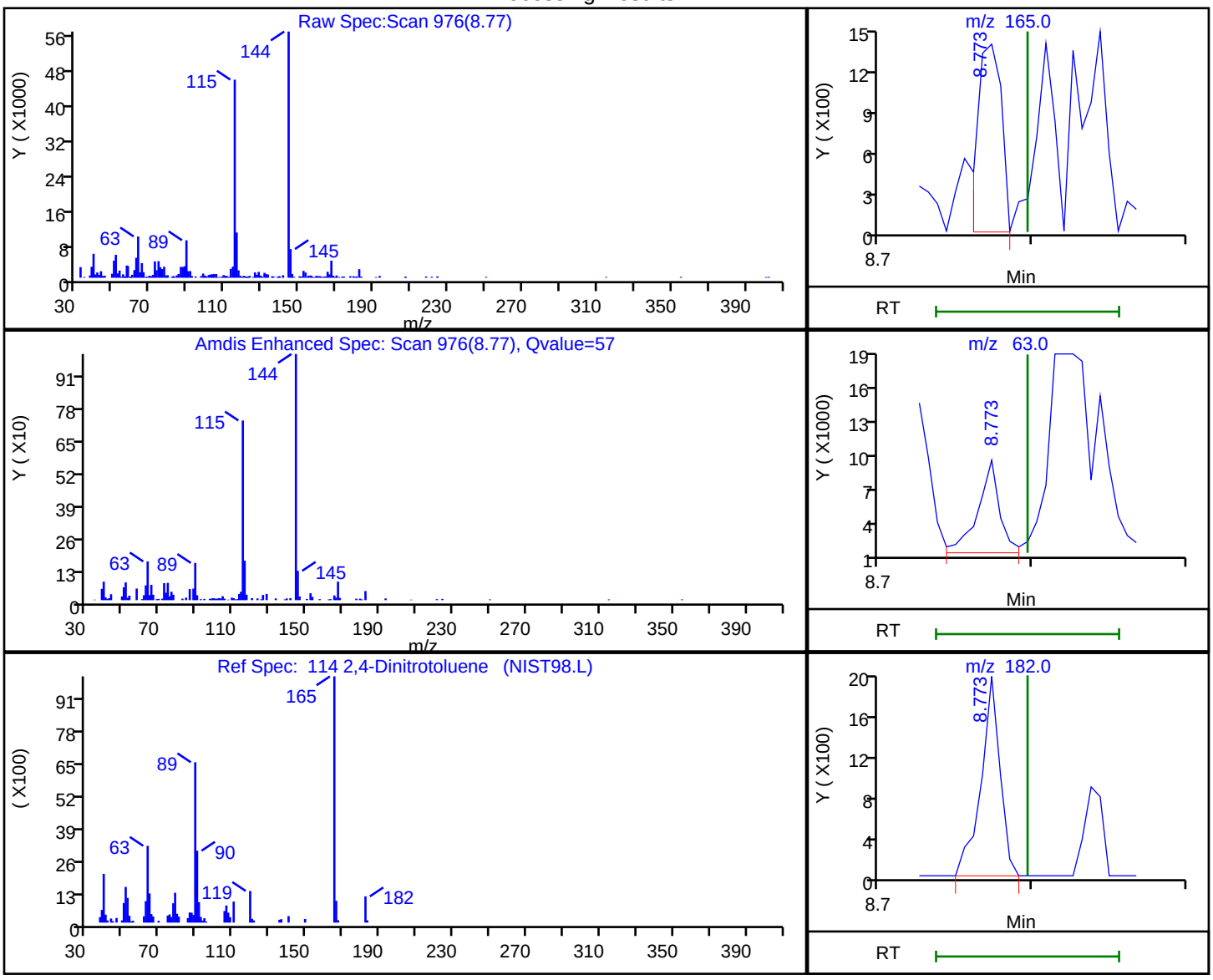
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

114 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
8.77	165.00	1478	0.161849
8.77	63.00	8356	
8.77	182.00	1692	

Reviewer: IZ8L, 30-Oct-2024 15:11:33 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

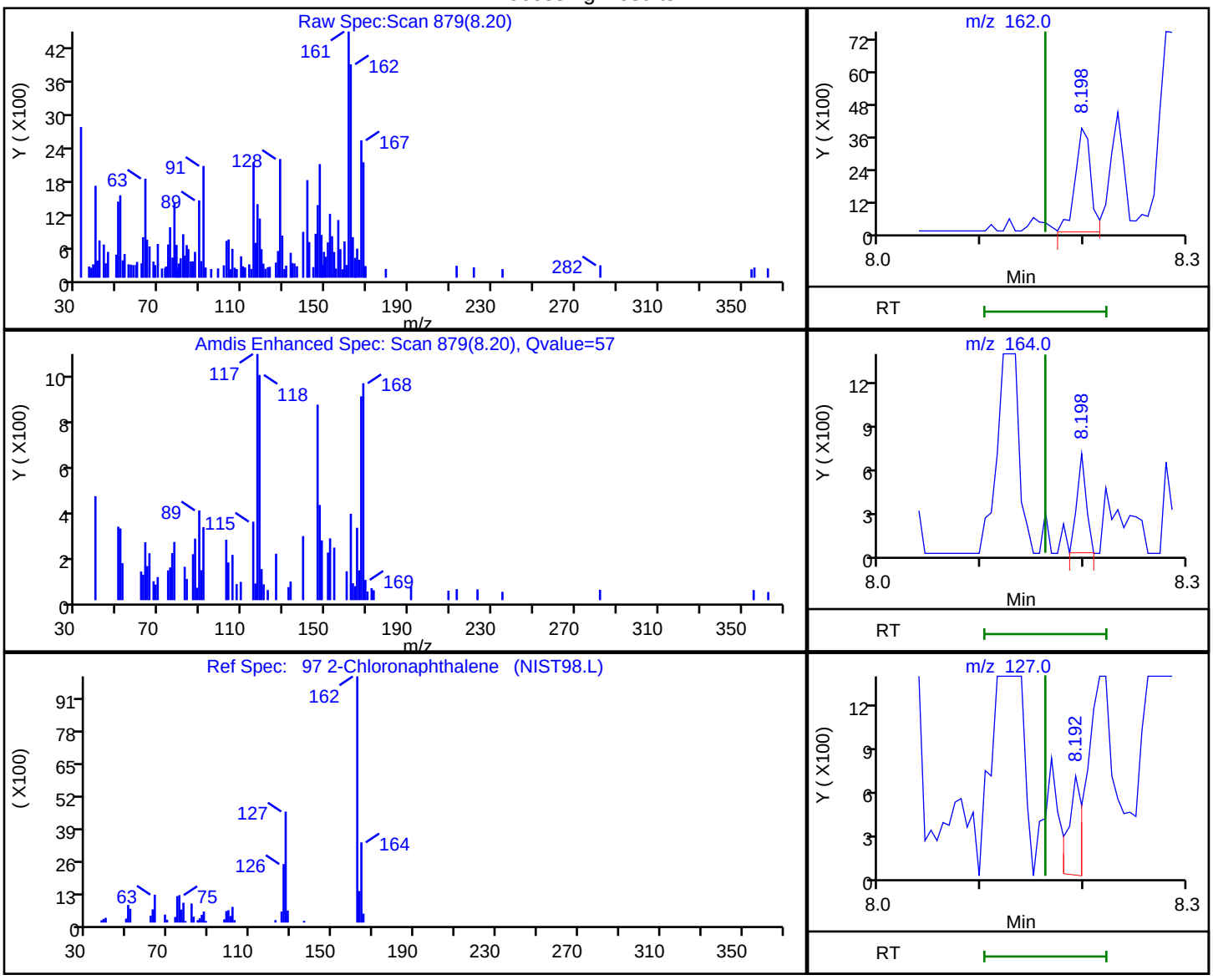
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

97 2-Chloronaphthalene, CAS: 91-58-7

Processing Results



RT	Mass	Response	Amount
8.20	162.00	4034	0.037138
8.20	164.00	443	
8.19	127.00	620	

Reviewer: IZ8L, 30-Oct-2024 15:11:28 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

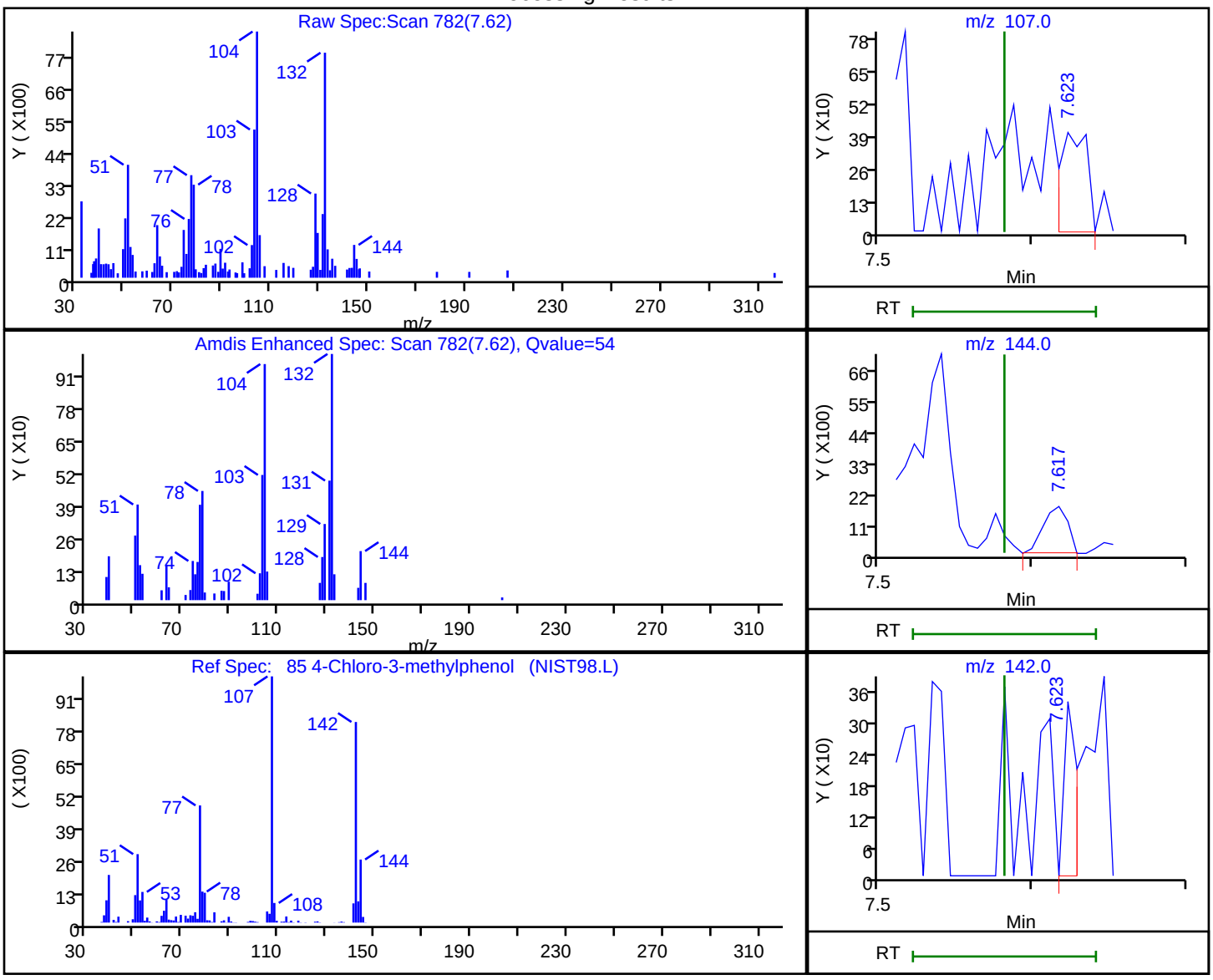
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

85 4-Chloro-3-methylphenol, CAS: 59-50-7

Processing Results



RT	Mass	Response	Amount
7.62	107.00	493	0.084636
7.62	144.00	1864	
7.62	142.00	194	

Reviewer: IZ8L, 30-Oct-2024 15:11:24 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

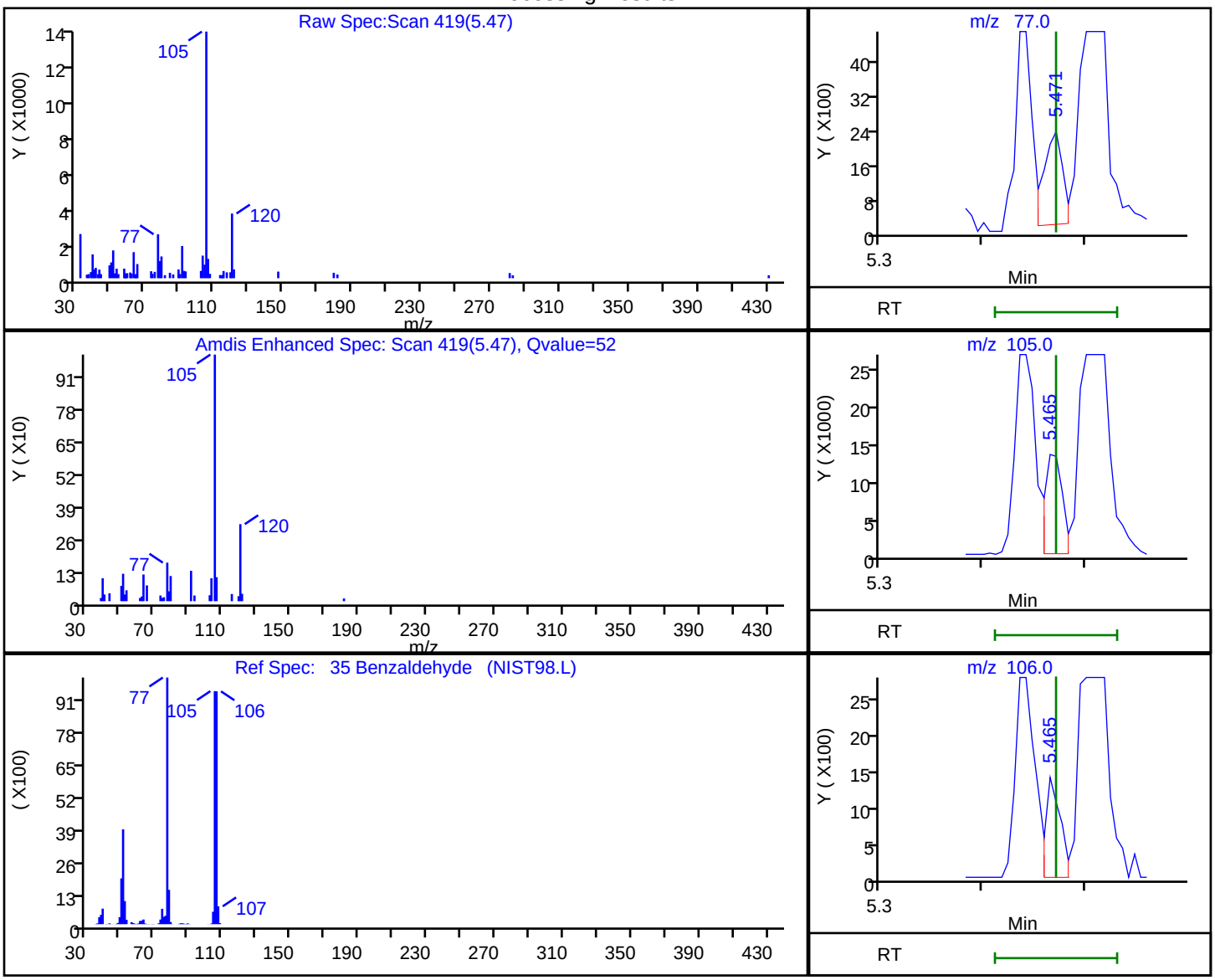
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

35 Benzaldehyde, CAS: 100-52-7

Processing Results



RT	Mass	Response	Amount
5.47	77.00	2816	-0.052538
5.47	105.00	16093	
5.47	106.00	1394	

Reviewer: IZ8L, 30-Oct-2024 15:10:17 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

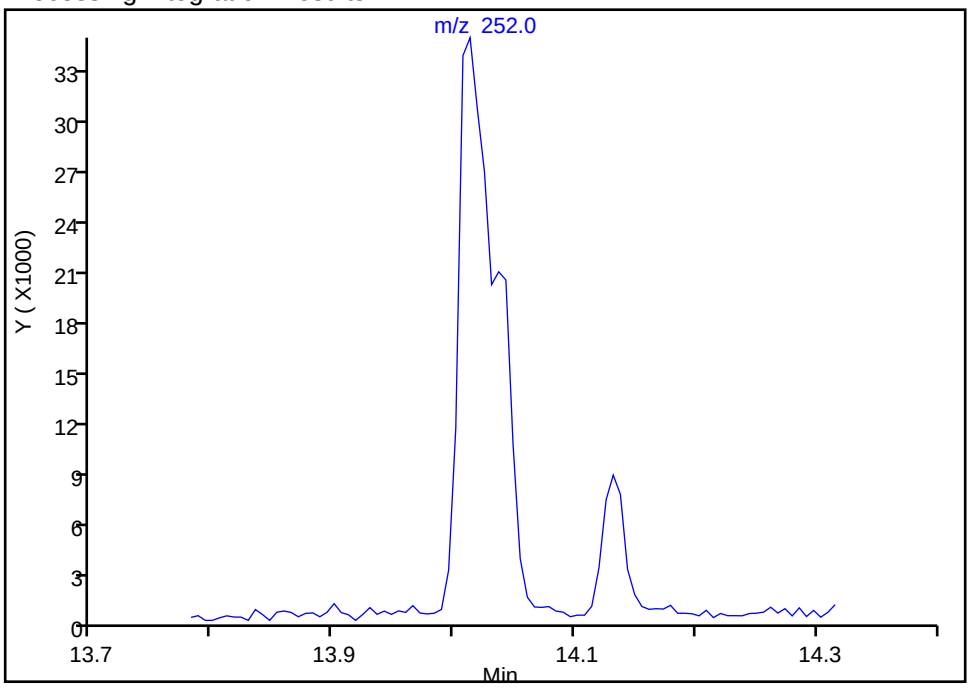
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

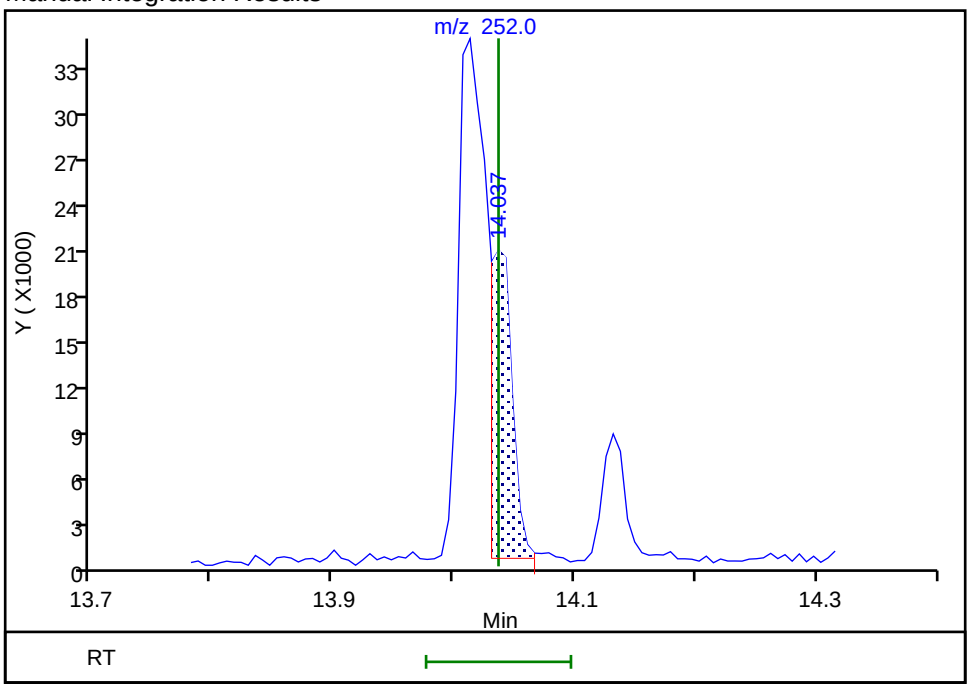
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 26498
Amount: 0.135298
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:11:53 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

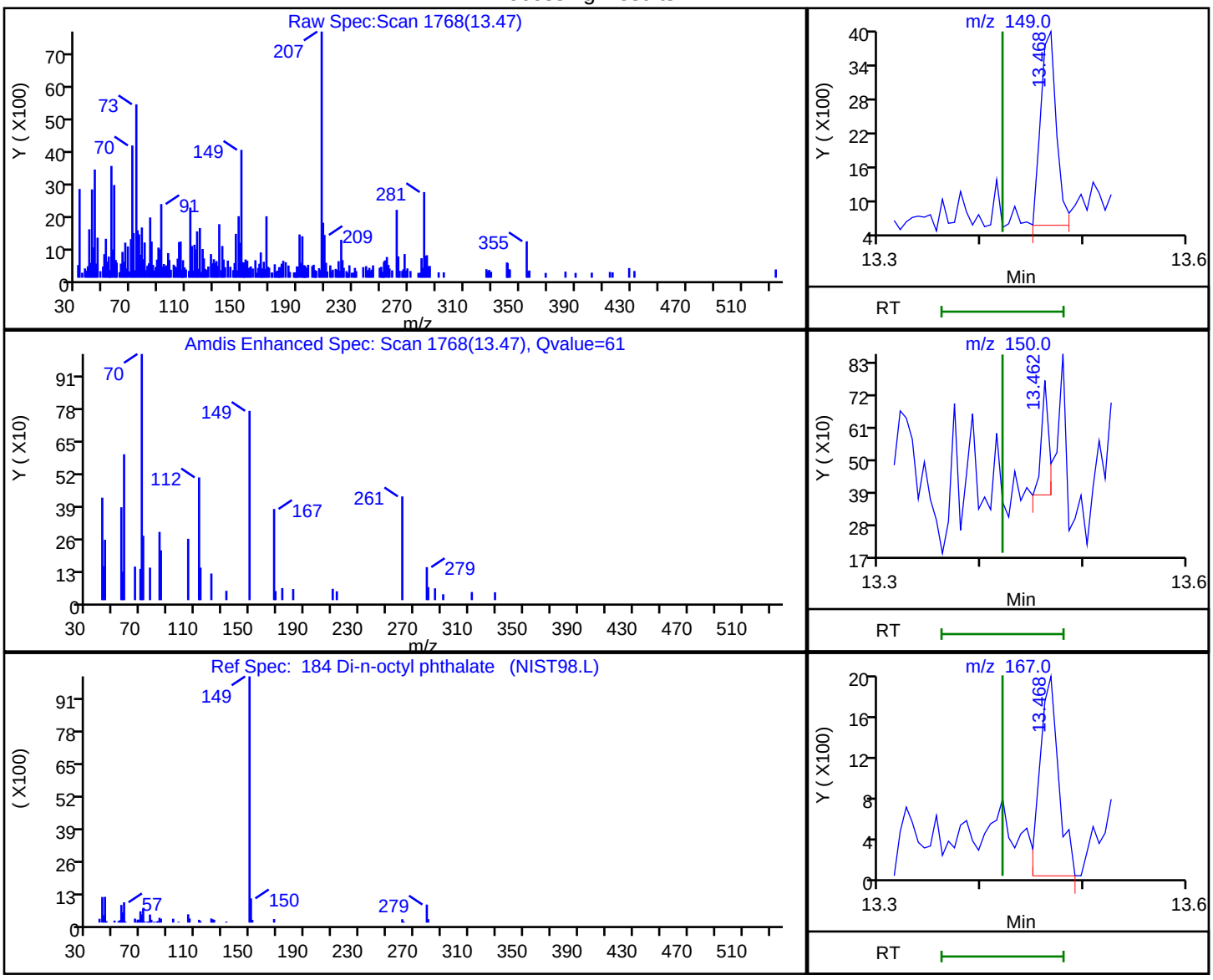
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

184 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
13.47	149.00	3643	0.097546
13.46	150.00	200	
13.47	167.00	2417	

Reviewer: IZ8L, 30-Oct-2024 15:11:43 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

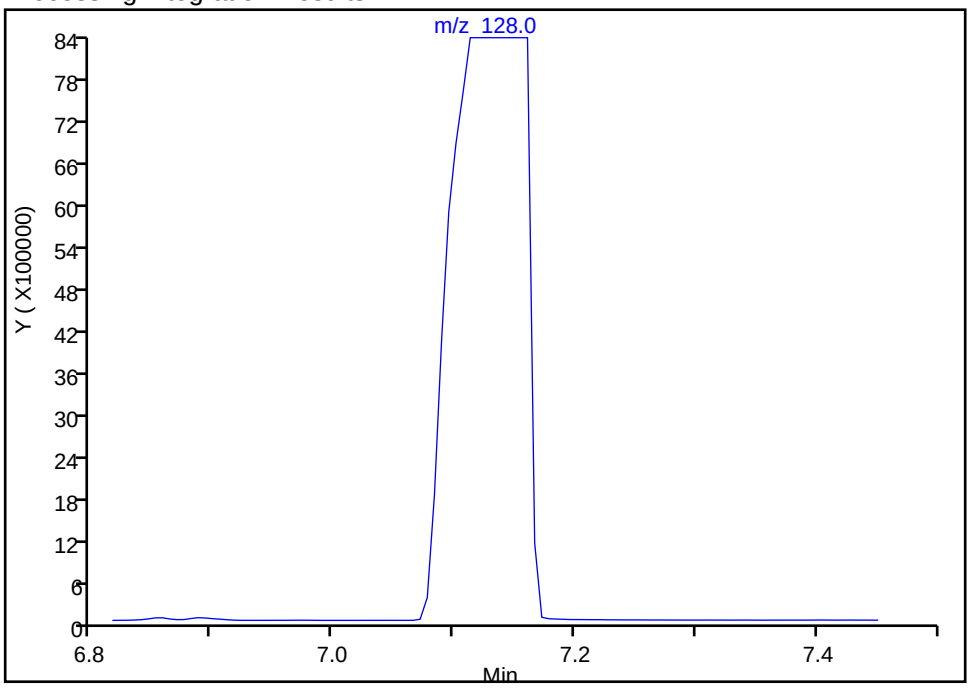
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3

Signal: 1

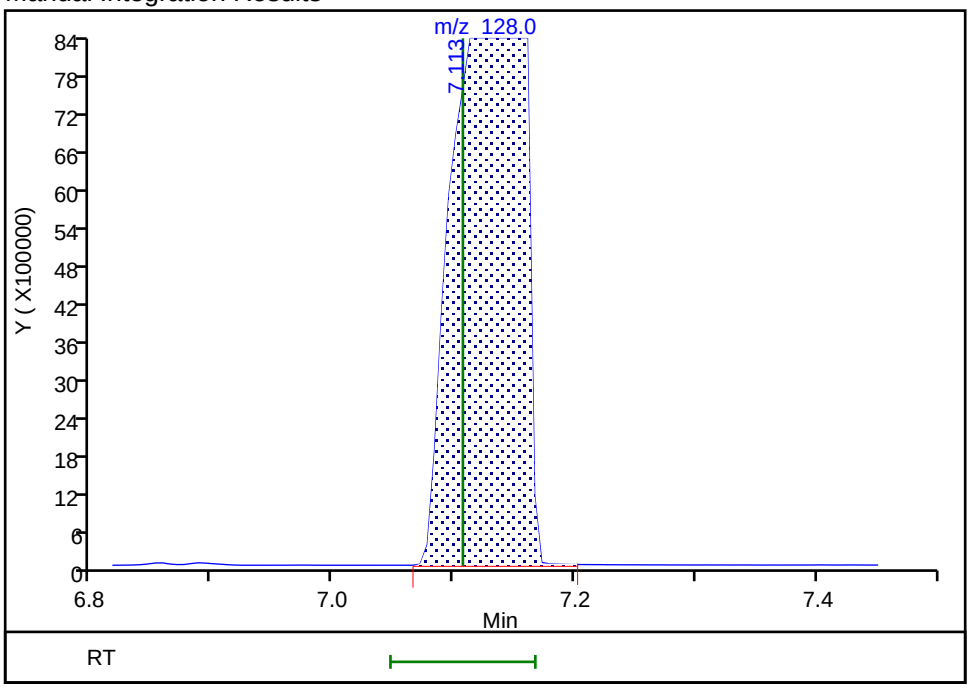
Not Detected
Expected RT: 7.11

Processing Integration Results



Manual Integration Results

RT: 7.11
Area: 36732723
Amount: 149.6229
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:10:34 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 DL | Lab Sample ID: 480-224869-10 DL

Matrix: Water | Lab File ID: Y04614.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:10

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 15:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2500	330
108-60-1	bis (2-chloroisopropyl) ether	ND		2500	260
95-95-4	2,4,5-Trichlorophenol	ND		2500	240
88-06-2	2,4,6-Trichlorophenol	ND		2500	310
120-83-2	2,4-Dichlorophenol	ND		2500	260
105-67-9	2,4-Dimethylphenol	ND		2500	250
51-28-5	2,4-Dinitrophenol	ND		5000	1100
121-14-2	2,4-Dinitrotoluene	ND		2500	220
606-20-2	2,6-Dinitrotoluene	ND		2500	200
91-58-7	2-Chloronaphthalene	ND		2500	230
95-57-8	2-Chlorophenol	ND		2500	270
91-57-6	2-Methylnaphthalene	ND		2500	300
95-48-7	2-Methylphenol	ND		2500	200
88-74-4	2-Nitroaniline	ND		5000	210
88-75-5	2-Nitrophenol	ND		2500	240
91-94-1	3,3'-Dichlorobenzidine	ND		2500	200
99-09-2	3-Nitroaniline	ND		5000	240
534-52-1	4,6-Dinitro-2-methylphenol	ND		5000	1100
101-55-3	4-Bromophenyl phenyl ether	ND		2500	230
59-50-7	4-Chloro-3-methylphenol	ND		2500	230
106-47-8	4-Chloroaniline	ND		2500	300
7005-72-3	4-Chlorophenyl phenyl ether	ND		2500	180
106-44-5	4-Methylphenol	ND		5000	180
100-01-6	4-Nitroaniline	ND		5000	130
100-02-7	4-Nitrophenol	ND	*+	5000	760
83-32-9	Acenaphthene	ND		2500	210
208-96-8	Acenaphthylene	210	J	2500	190
98-86-2	Acetophenone	ND		2500	270
120-12-7	Anthracene	ND		2500	140
1912-24-9	Atrazine	ND		2500	230
100-52-7	Benzaldehyde	ND		2500	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 DL | Lab Sample ID: 480-224869-10 DL

Matrix: Water | Lab File ID: Y04614.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:10

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 15:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		2500	180
50-32-8	Benzo(a)pyrene	ND		2500	240
205-99-2	Benzo(b)fluoranthene	ND		2500	170
191-24-2	Benzo(g,h,i)perylene	ND		2500	180
207-08-9	Benzo(k)fluoranthene	ND		2500	370
111-91-1	Bis(2-chloroethoxy)methane	ND		2500	180
111-44-4	Bis(2-chloroethyl)ether	ND		2500	200
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2500	1100
85-68-7	Butyl benzyl phthalate	ND		2500	500
105-60-2	Caprolactam	ND		2500	1100
86-74-8	Carbazole	ND		2500	150
218-01-9	Chrysene	ND		2500	170
84-74-2	Di-n-butyl phthalate	ND		2500	160
117-84-0	Di-n-octyl phthalate	ND		2500	240
53-70-3	Dibenz(a,h)anthracene	ND		2500	210
132-64-9	Dibenzofuran	ND		5000	260
84-66-2	Diethyl phthalate	ND		2500	110
131-11-3	Dimethyl phthalate	ND		2500	180
206-44-0	Fluoranthene	ND		2500	200
86-73-7	Fluorene	ND		2500	180
118-74-1	Hexachlorobenzene	ND		2500	260
87-68-3	Hexachlorobutadiene	ND		2500	340
77-47-4	Hexachlorocyclopentadiene	ND		2500	300
67-72-1	Hexachloroethane	ND		2500	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2500	240
78-59-1	Isophorone	ND		2500	220
621-64-7	N-Nitrosodi-n-propylamine	ND		2500	270
86-30-6	N-Nitrosodiphenylamine	ND		2500	260
91-20-3	Naphthalene	13000		2500	380
98-95-3	Nitrobenzene	ND		2500	150
87-86-5	Pentachlorophenol	ND		5000	1100

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 DL | Lab Sample ID: 480-224869-10 DL

Matrix: Water | Lab File ID: Y04614.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:10

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 15:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	*Phenanthrene*	*ND*		*2500*	*220*
108-95-2	*Phenol*	*ND*		*2500*	*200*
129-00-0	*Pyrene*	*ND*		*2500*	*170*

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	S1-	25-144
321-60-8	2-Fluorobiphenyl	0	S1-	53-126
367-12-4	2-Fluorophenol	0	S1-	24-120
4165-60-0	Nitrobenzene-d5	0	S1-	29-129
1718-51-0	p-Terphenyl-d14	0	S1-	33-132
4165-62-2	Phenol-d5	0	S1-	10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04614.D
Lims ID: 480-224869-A-10-A
Client ID: MW-BCP-13B-10252024
Sample Type: Client
Inject. Date: 30-Oct-2024 15:46:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 2.0 ul Dil. Factor: 500.0000
Sample Info: 480-0120914-015
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:06:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.883	0.003	96	152688	4.00	
* 2 Naphthalene-d8	136	7.089	7.086	0.003	99	569595	4.00	
* 3 Acenaphthene-d10	164	8.648	8.651	-0.003	94	325934	4.00	
* 4 Phenanthrene-d10	188	9.923	9.926	-0.003	97	499406	4.00	
* 5 Chrysene-d12	240	12.774	12.777	-0.003	99	442099	4.00	
* 6 Perylene-d12	264	14.463	14.460	0.003	98	508795	4.00	
$ 7 2-Fluorophenol	112		4.638				ND	
$ 8 Phenol-d5	99		5.521				ND	
$ 9 Nitrobenzene-d5	82		6.410				ND	
$ 10 2-Fluorobiphenyl	172		8.035				ND	
$ 11 2,4,6-Tribromophenol	330		9.327				ND	
$ 12 p-Terphenyl-d14	244		11.485				ND	
35 Benzaldehyde	77		5.474				ND	
37 Phenol	94		5.533				ND	
39 Bis(2-chloroethyl)ether	93		5.604				ND	
40 2-Chlorophenol	128		5.699				ND	
48 2-Methylphenol	108		6.108				ND	
49 2,2'-oxybis[1-chloropropane]	45		6.120				ND	
53 N-Nitrosodi-n-propylamine	70		6.244				ND	
57 4-Methylphenol	108		6.256				ND	
52 Acetophenone	105		6.262				ND	
58 Hexachloroethane	117		6.375				ND	
59 Nitrobenzene	77		6.434				ND	
62 Isophorone	82		6.647				ND	
64 2-Nitrophenol	139		6.730				ND	
66 2,4-Dimethylphenol	107		6.748				ND	
69 Bis(2-chloroethoxy)methane	93		6.819				ND	
72 2,4-Dichlorophenol	162		6.962				ND	
74 Naphthalene	128	7.107	7.110	-0.003	98	996479	6.62	
76 4-Chloroaniline	127		7.145				ND	
79 Hexachlorobutadiene	225		7.205				ND	
84 Caprolactam	113		7.466				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.578				ND	
87 2-Methylnaphthalene	142	7.729	7.726	0.003	95	3998	0.0431	
90 Hexachlorocyclopentadiene	237		7.869				ND	
93 2,4,6-Trichlorophenol	196		7.981				ND	
94 2,4,5-Trichlorophenol	196		8.023				ND	
96 1,1'-Biphenyl	154	8.133	8.129	0.004	95	3509	0.0293	
97 2-Chloronaphthalene	162		8.165				ND	
100 2-Nitroaniline	65		8.248				ND	
105 Dimethyl phthalate	163		8.372				ND	
107 2,6-Dinitrotoluene	165		8.438				ND	
108 Acenaphthylene	152	8.530	8.533	-0.002	98	15407	0.1067	
109 3-Nitroaniline	138		8.598				ND	
110 Acenaphthene	153		8.681				ND	
111 2,4-Dinitrophenol	184		8.693				ND	
112 4-Nitrophenol	109		8.752				ND	
114 2,4-Dinitrotoluene	165		8.799				ND	
115 Dibenzofuran	168	8.826	8.823	0.003	94	7407	0.0567	
120 Diethyl phthalate	149		8.965				ND	
123 4-Chlorophenyl phenyl ether	204		9.090				ND	
124 Fluorene	166	9.122	9.119	0.003	94	7184	0.0783	
126 4-Nitroaniline	138		9.131				ND	
127 4,6-Dinitro-2-methylphenol	198		9.155				ND	
130 N-Nitrosodiphenylamine	169		9.190				ND	
139 4-Bromophenyl phenyl ether	248		9.511				ND	
140 Hexachlorobenzene	284		9.605				ND	
143 Atrazine	200		9.617				ND	
145 Pentachlorophenol	266		9.765				ND	
151 Phenanthrene	178	9.946	9.943	0.003	95	12410	0.0899	
152 Anthracene	178		9.991				ND	
153 Carbazole	167	10.130	10.121	0.009	95	5998	0.0489	
157 Di-n-butyl phthalate	149		10.358				ND	
164 Fluoranthene	202	11.114	11.111	0.003	63	3765	0.0257	
167 Pyrene	202	11.375	11.372	0.003	73	2291	0.0155	
174 Butyl benzyl phthalate	149		12.006				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.664				ND	
179 3,3'-Dichlorobenzidine	252		12.700				ND	
180 Benzo[a]anthracene	228		12.765				ND	
182 Chrysene	228		12.806				ND	
184 Di-n-octyl phthalate	149		13.417				ND	
186 Benzo[b]fluoranthene	252		14.010				ND	
187 Benzo[k]fluoranthene	252		14.039				ND	
189 Benzo[a]pyrene	252		14.395				ND	
194 Dibenz(a,h)anthracene	278		15.936				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.948				ND	
195 Benzo[g,h,i]perylene	276		16.393				ND	

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

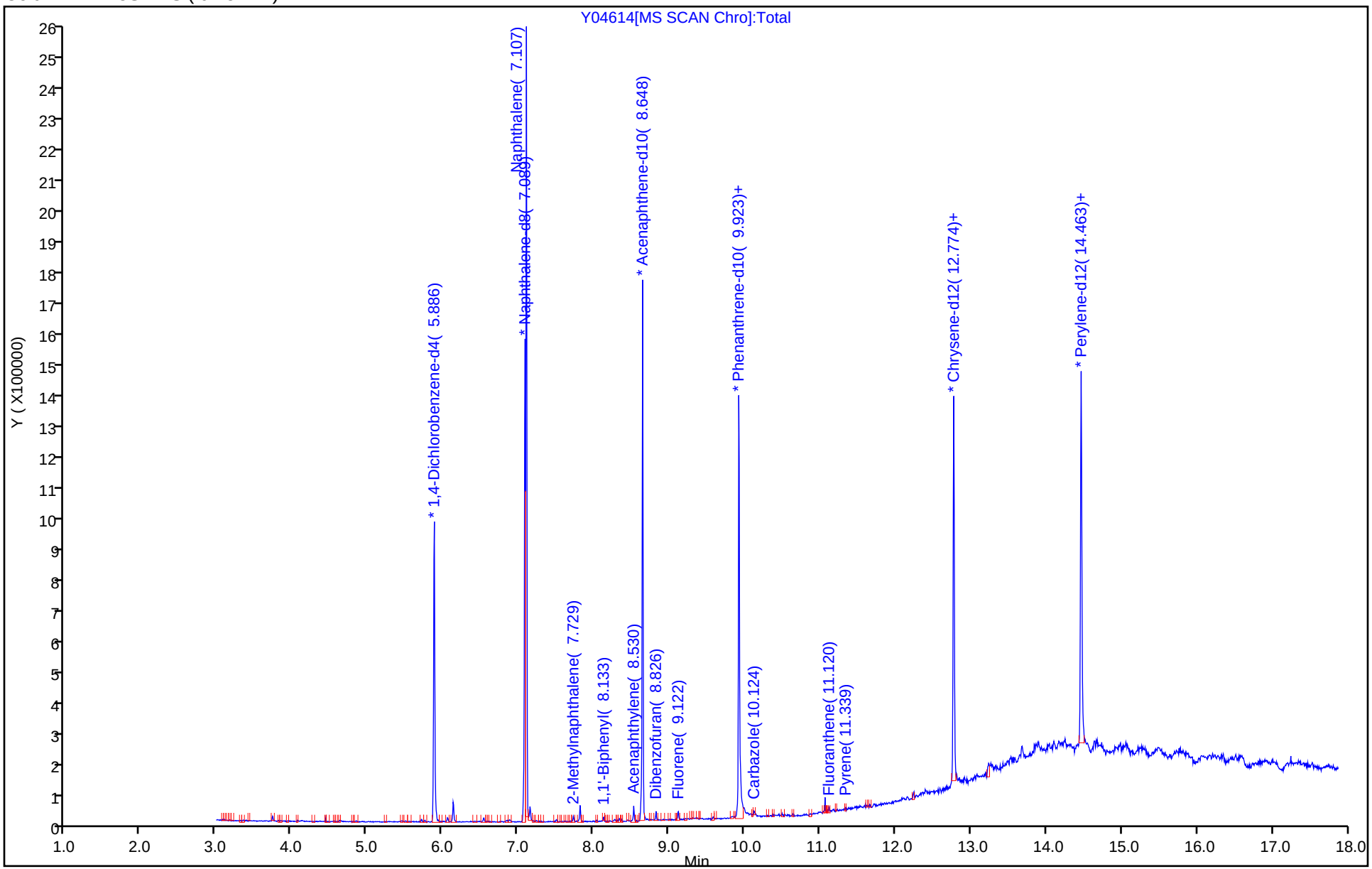
Report Date: 30-Oct-2024 16:07:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04614.D

Injection Date:	30-Oct-2024 15:46:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10	Worklist Smp#:	15
Client ID:	MW-BCP-13B-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	500.0000	ALS Bottle#:	15
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



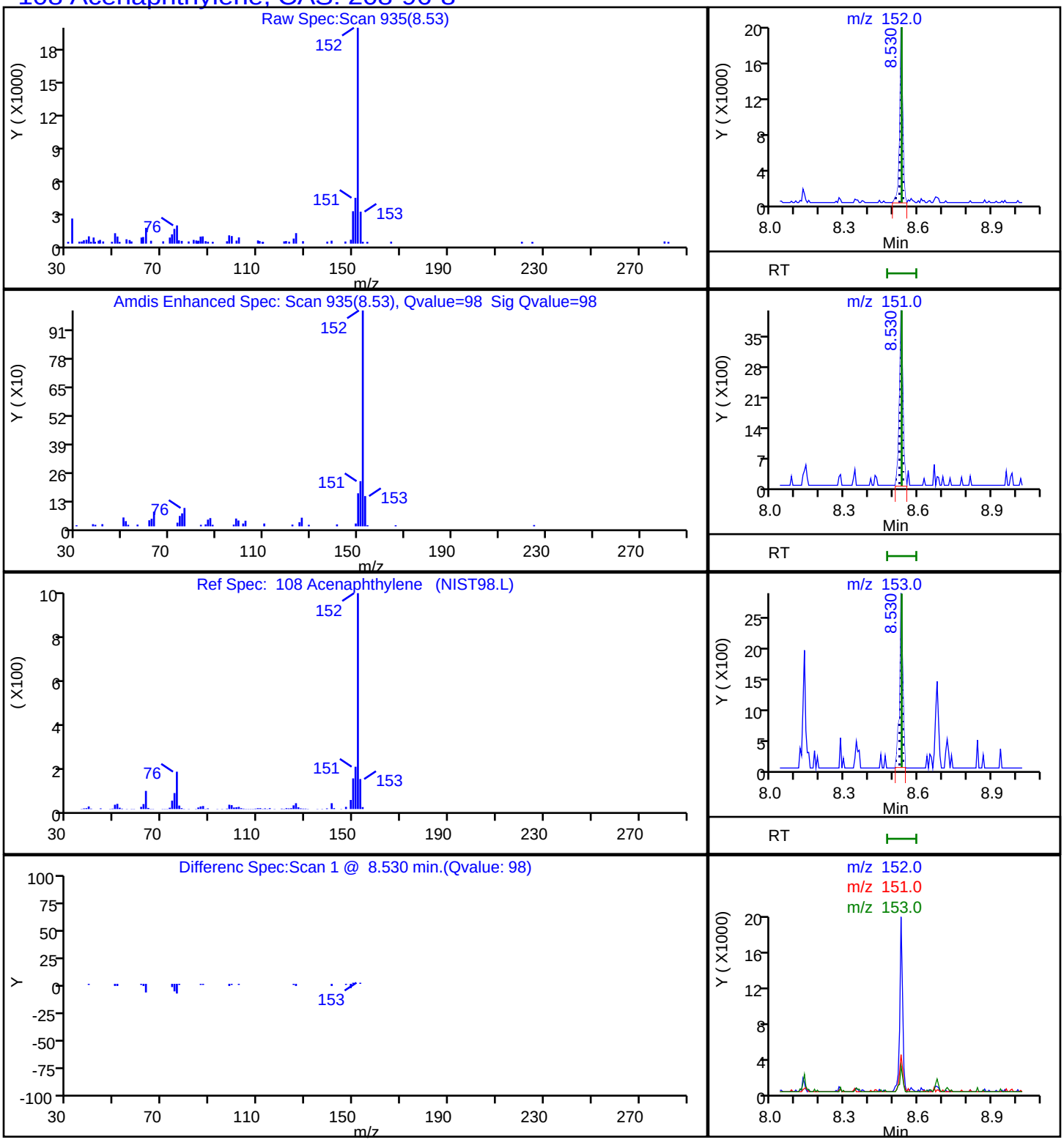
Report Date: 30-Oct-2024 16:07:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04614.D

Injection Date:	30-Oct-2024 15:46:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

108 Acenaphthylene, CAS: 208-96-8



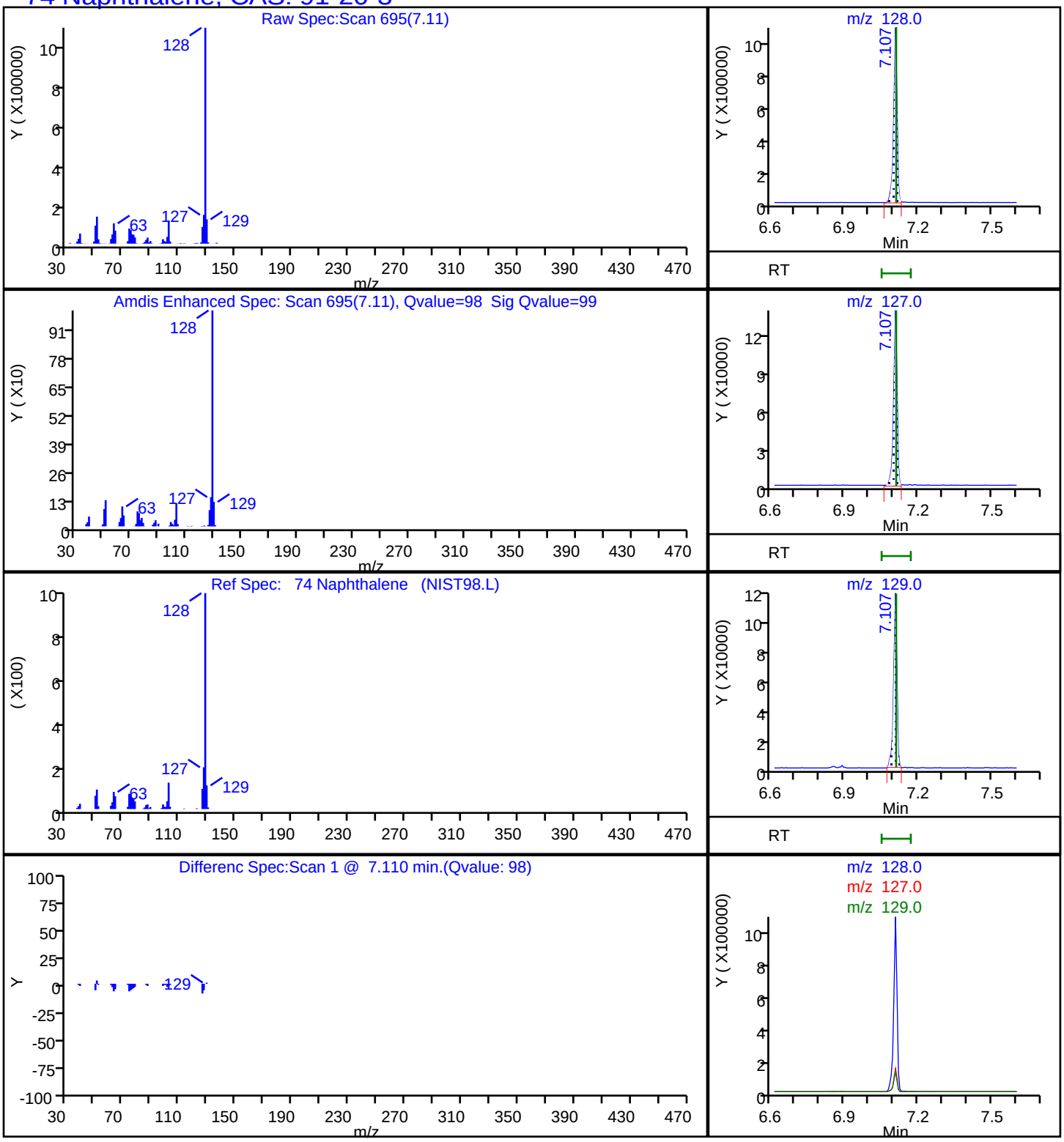
Report Date: 30-Oct-2024 16:07:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04614.D

Injection Date:	30-Oct-2024 15:46:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-24A-10252024 | Lab Sample ID: 480-224869-11

Matrix: Water | Lab File ID: Y04594.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:35

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 21:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	0.86	J	5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	1.5	J	10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND	*+	10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-24A-10252024 | Lab Sample ID: 480-224869-11

Matrix: Water | Lab File ID: Y04594.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:35

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 21:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		5.0	0.36
50-32-8	Benzo(a)pyrene	ND		5.0	0.47
205-99-2	Benzo(b)fluoranthene	ND		5.0	0.34
191-24-2	Benzo(g,h,i)perylene	ND		5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	3.8	J	5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-24A-10252024 | Lab Sample ID: 480-224869-11

Matrix: Water | Lab File ID: Y04594.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:35

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 21:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	0.49	J	5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	86		25-144
321-60-8	2-Fluorobiphenyl	94		53-126
367-12-4	2-Fluorophenol	73		24-120
4165-60-0	Nitrobenzene-d5	104		29-129
1718-51-0	p-Terphenyl-d14	83		33-132
4165-62-2	Phenol-d5	55		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D
Lims ID: 480-224869-A-11-A
Client ID: MW-BCP-24A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 21:45:30 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-025
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:12:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.885	5.886	-0.001	95	164815	4.00	
* 2 Naphthalene-d8	136	7.089	7.089	0.000	99	611843	4.00	
* 3 Acenaphthene-d10	164	8.648	8.648	0.000	95	343501	4.00	
* 4 Phenanthrene-d10	188	9.922	9.929	-0.007	97	608481	4.00	
* 5 Chrysene-d12	240	12.773	12.774	-0.001	98	488725	4.00	
* 6 Perylene-d12	264	14.463	14.463	0.000	97	564966	4.00	
$ 7 2-Fluorophenol	112	4.670	4.644	0.029	93	294610	5.80	
$ 8 Phenol-d5	99	5.530	5.527	0.006	87	277460	4.42	
$ 9 Nitrobenzene-d5	82	6.413	6.410	-0.001	96	491890	8.35	
$ 10 2-Fluorobiphenyl	172	8.037	8.040	-0.001	99	885237	7.50	
$ 11 2,4,6-Tribromophenol	330	9.329	9.327	-0.001	83	104566	6.92	
$ 12 p-Terphenyl-d14	244	11.481	11.484	-0.001	97	877963	6.63	
35 Benzaldehyde	77		5.471				ND	
37 Phenol	94	5.542	5.538	0.006	90	7848	0.1230	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108	6.117	6.111	0.006	95	10354	0.2140	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.259	6.314	0.005	85	18332	0.3645	
52 Acetophenone	105		6.265				ND	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107	6.751	6.751	0.000	91	6152	0.1155	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.107	7.113	0.000	98	154441	0.9554	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113		7.463				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142	7.729	7.726	-0.001	94	2860	0.0287	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154		8.133				ND	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152		8.530				ND	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153		8.678				ND	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	
115 Dibenzofuran	168	8.826	8.829	0.000	94	1977	0.0143	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166		9.123				ND	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.946	9.946	-0.001	93	6482	0.0385	
152 Anthracene	178	9.987	10.001	-0.001	90	2688	0.0160	
153 Carbazole	167		10.118				ND	
157 Di-n-butyl phthalate	149	10.355	10.352	-0.001	97	4343	0.0226	
164 Fluoranthene	202	11.114	11.104	0.006	97	8008	0.0448	
167 Pyrene	202	11.369	11.366	0.000	96	6869	0.0420	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228	12.762	12.764	0.000	56	5676	0.0339	
182 Chrysene	228	12.809	12.809	-0.001	1	4510	0.0295	a
184 Di-n-octyl phthalate	149		13.420				ND	
186 Benzo[b]fluoranthene	252	14.018	14.019	0.011	96	4673	0.0450	M
187 Benzo[k]fluoranthene	252	14.030	14.037	-0.007	1	3062	0.0169	Ma
189 Benzo[a]pyrene	252	14.409	14.401	0.011	72	3908	0.0467	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.945				ND	
195 Benzo[g,h,i]perylene	276		16.396				ND	

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

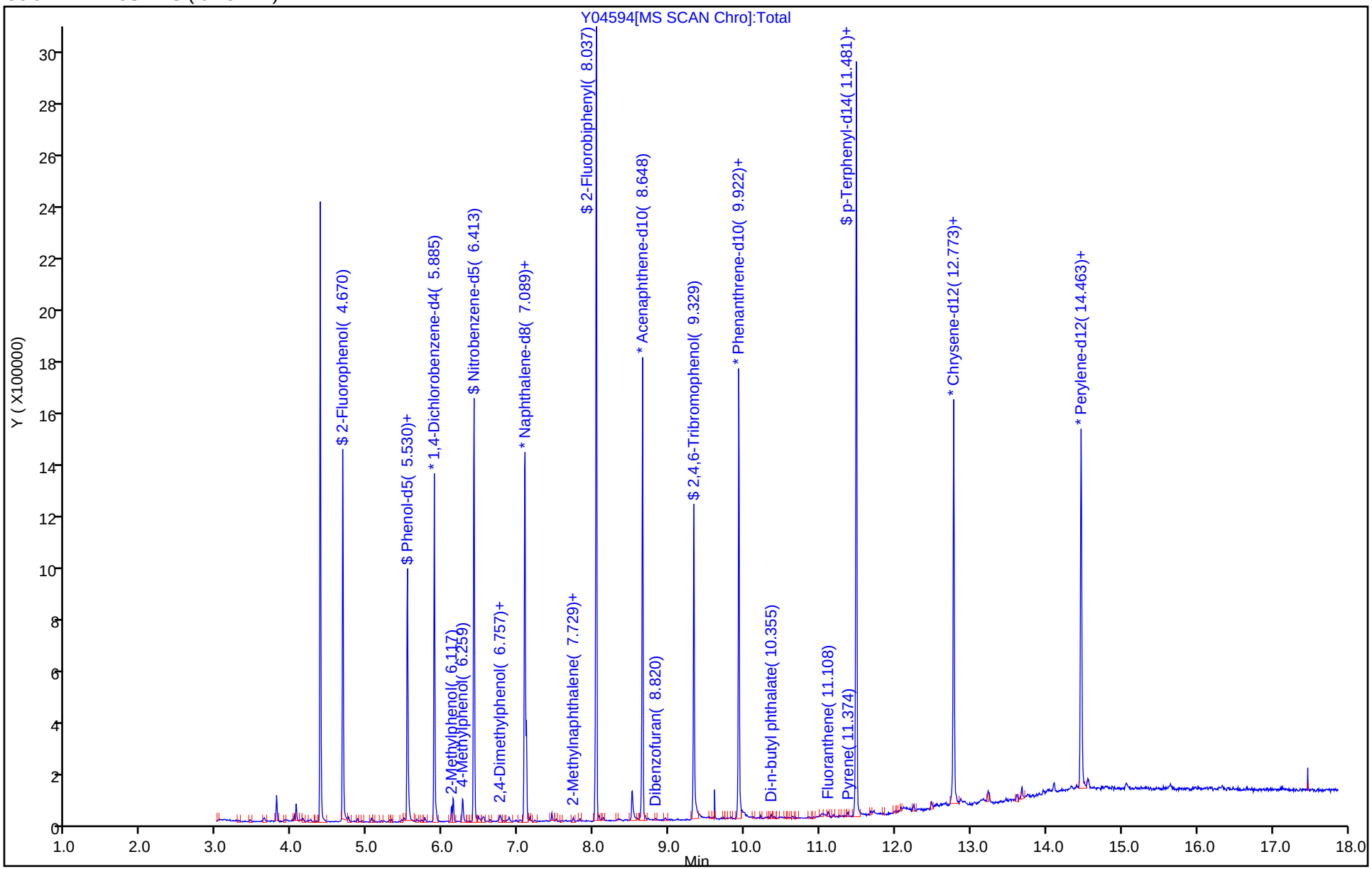
Report Date: 30-Oct-2024 15:17:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D

Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11	Worklist Smp#:	25
Client ID:	MW-BCP-24A-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D
Lims ID: 480-224869-A-11-A
Client ID: MW-BCP-24A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 21:45:30 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-025
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:12:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.80	72.52
$ 8 Phenol-d5	8.00	4.42	55.28
$ 9 Nitrobenzene-d5	8.00	8.35	104.37
$ 10 2-Fluorobiphenyl	8.00	7.50	93.72
$ 11 2,4,6-Tribromophenol	8.00	6.92	86.44
$ 12 p-Terphenyl-d14	8.00	6.63	82.84

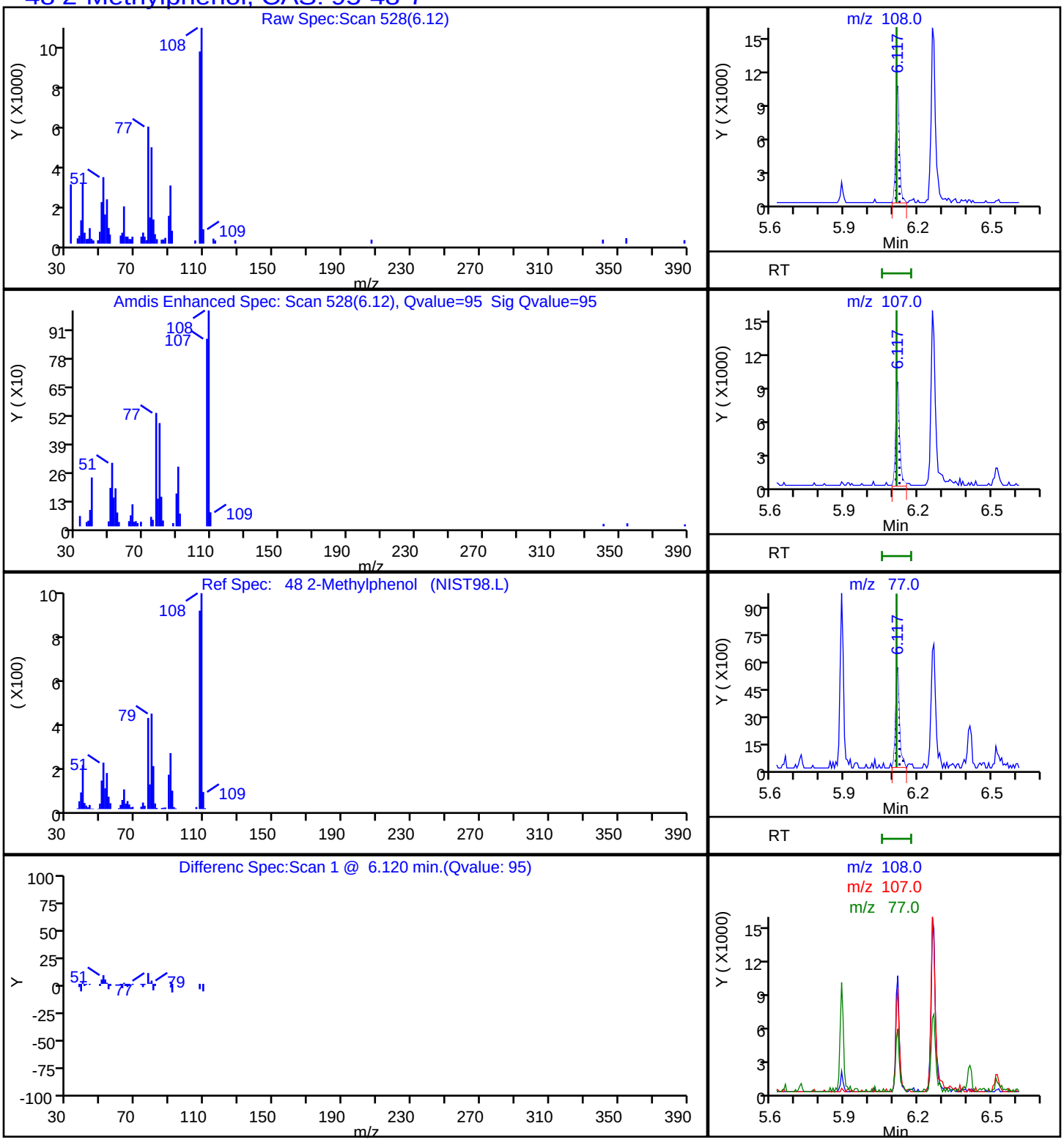
Report Date: 30-Oct-2024 15:17:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D

Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	JM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

48 2-Methylphenol, CAS: 95-48-7

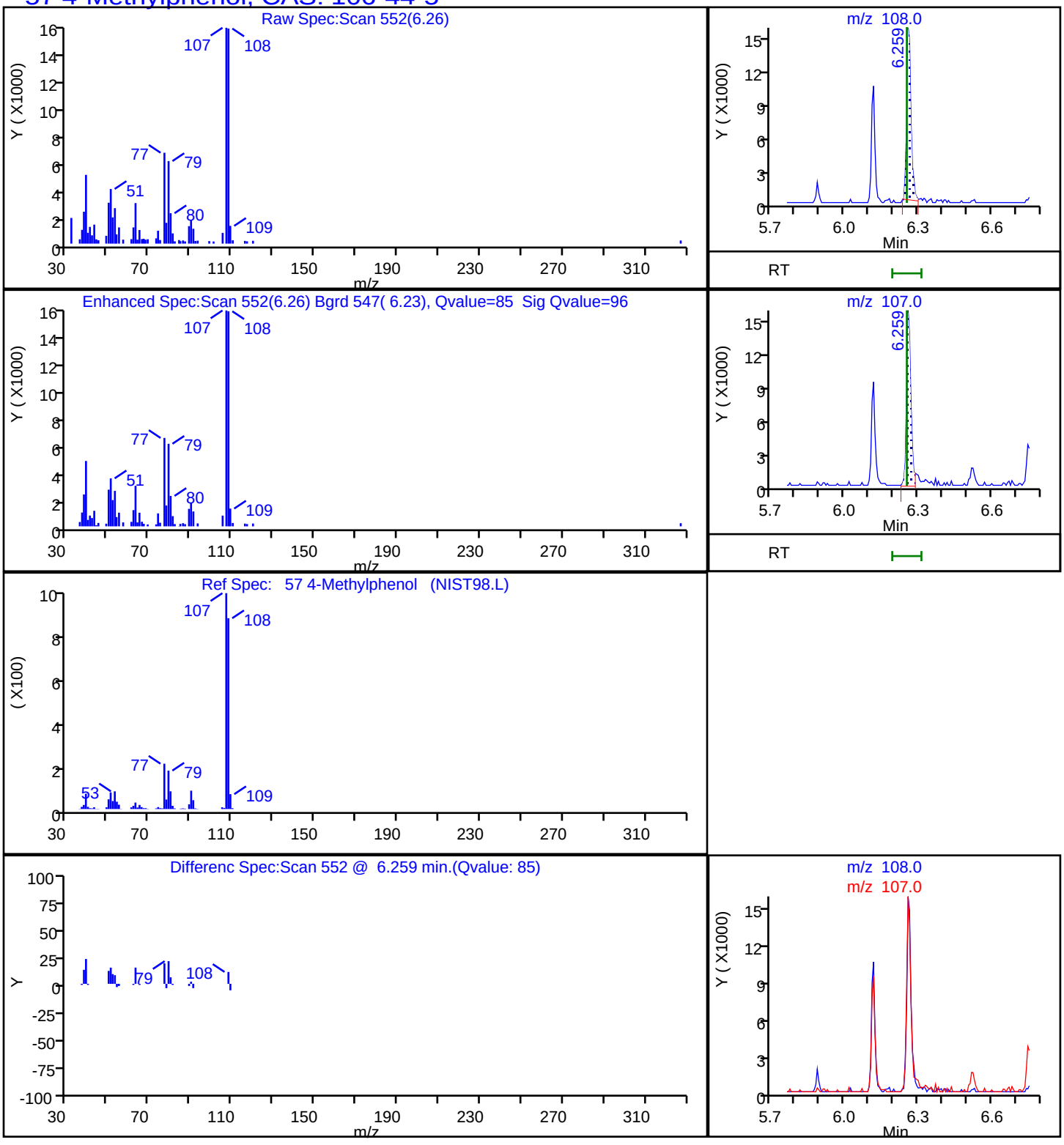


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D

Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11
Client ID:	MW-BCP-24A-10252024		
Operator ID:	JM	ALS Bottle#:	25 Worklist Smp#: 25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

57 4-Methylphenol, CAS: 106-44-5



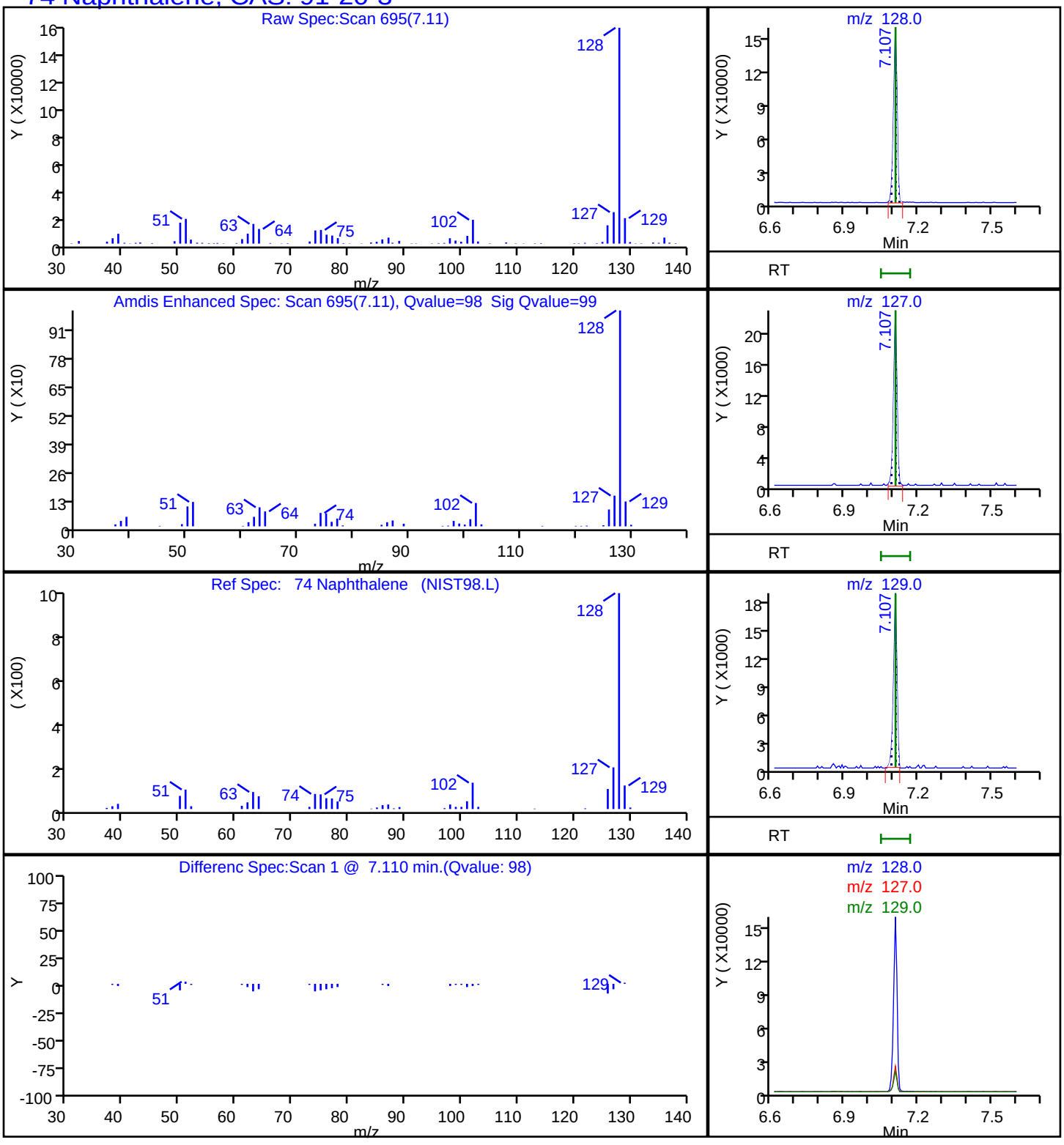
Report Date: 30-Oct-2024 15:17:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D

Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	JM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3

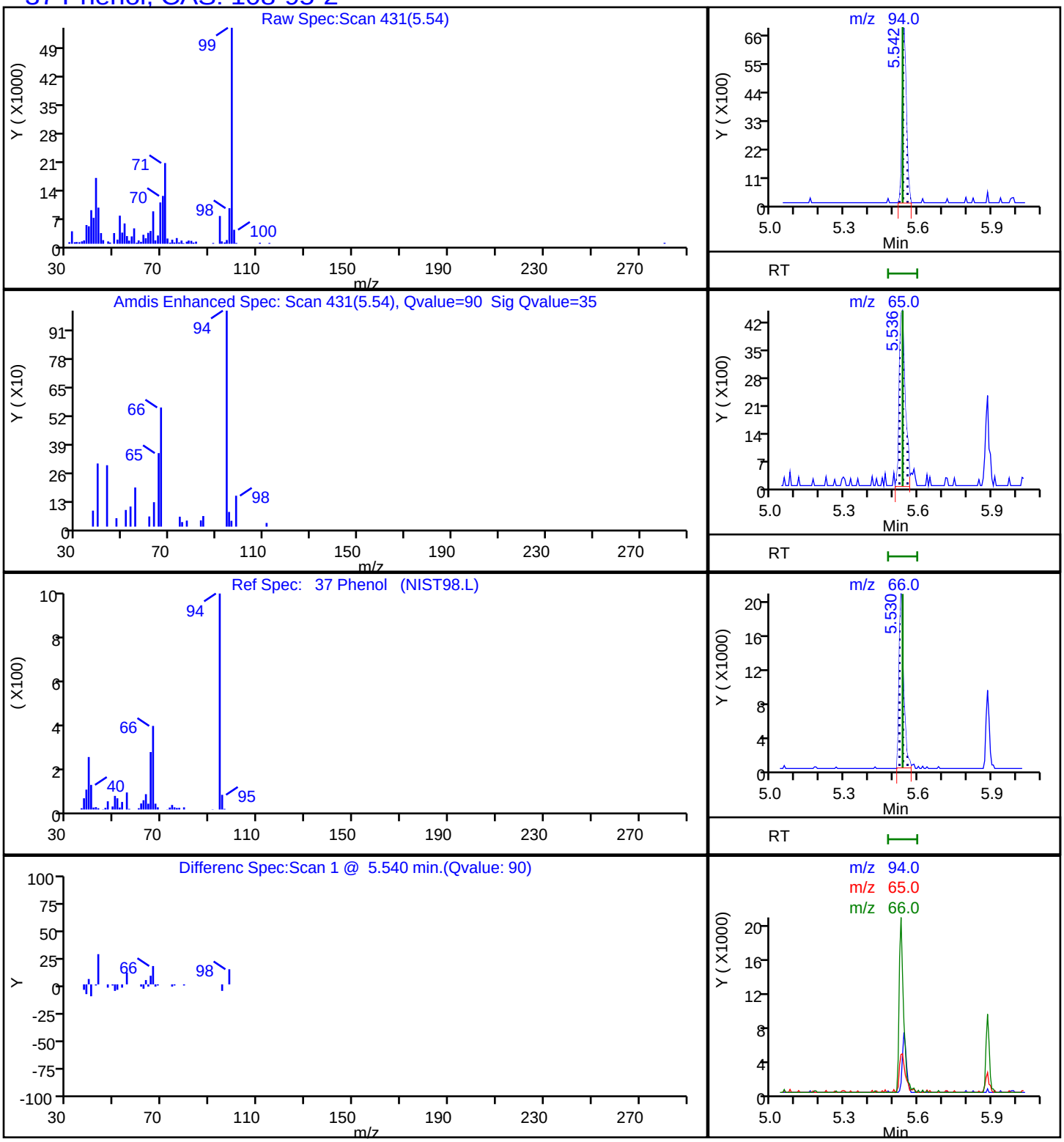


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D

Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11
Client ID:	MW-BCP-24A-10252024		
Operator ID:	JM	ALS Bottle#:	25 Worklist Smp#: 25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

37 Phenol, CAS: 108-95-2



Manual Integration/User Assign Peak Report

Eurofins Buffalo

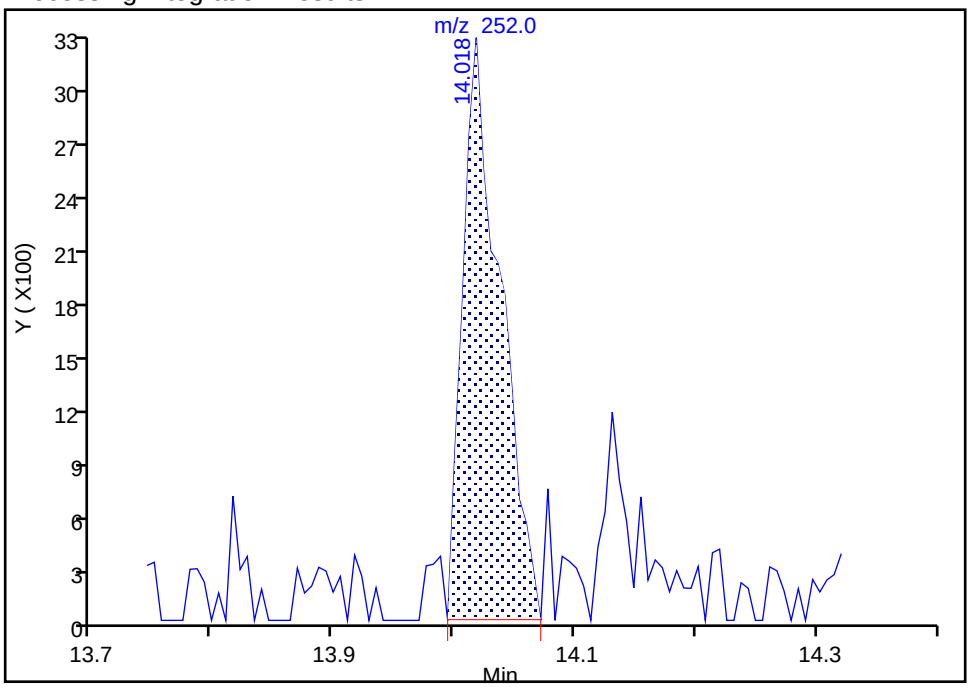
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D				
Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	JM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

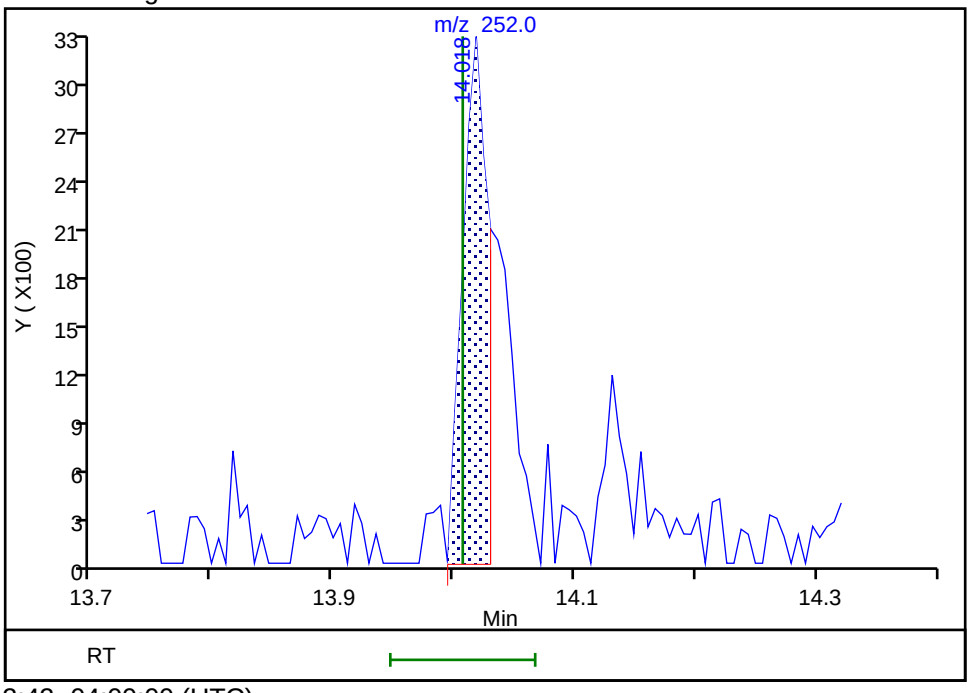
Processing Integration Results

RT: 14.02
Area: 7005
Amount: 0.057865
Amount Units: ng/uL



Manual Integration Results

RT: 14.02
Area: 4673
Amount: 0.044978
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:12:42 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

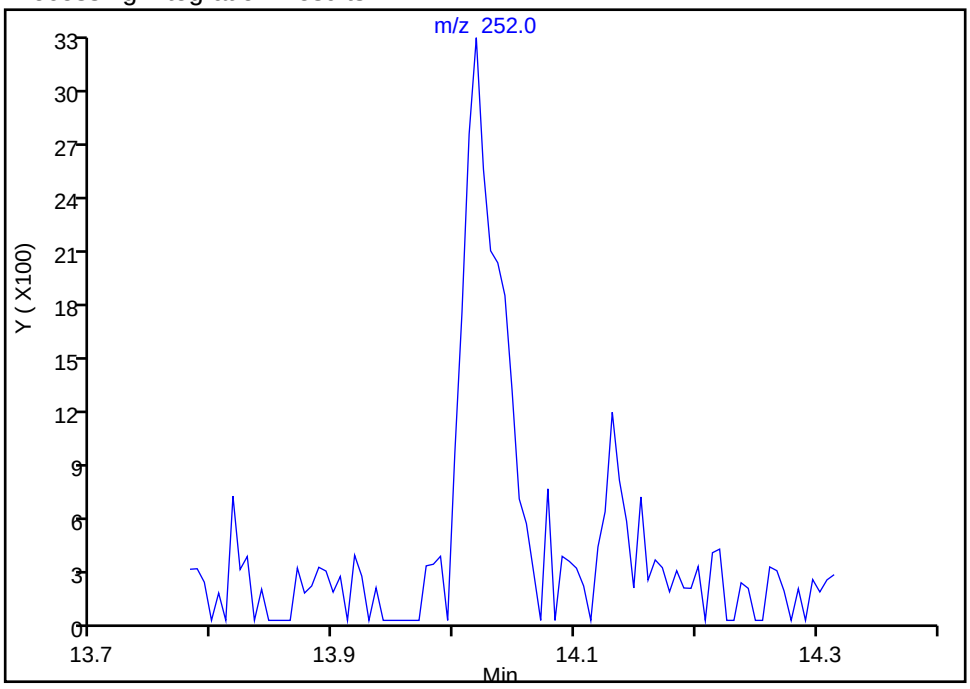
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D				
Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	JM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

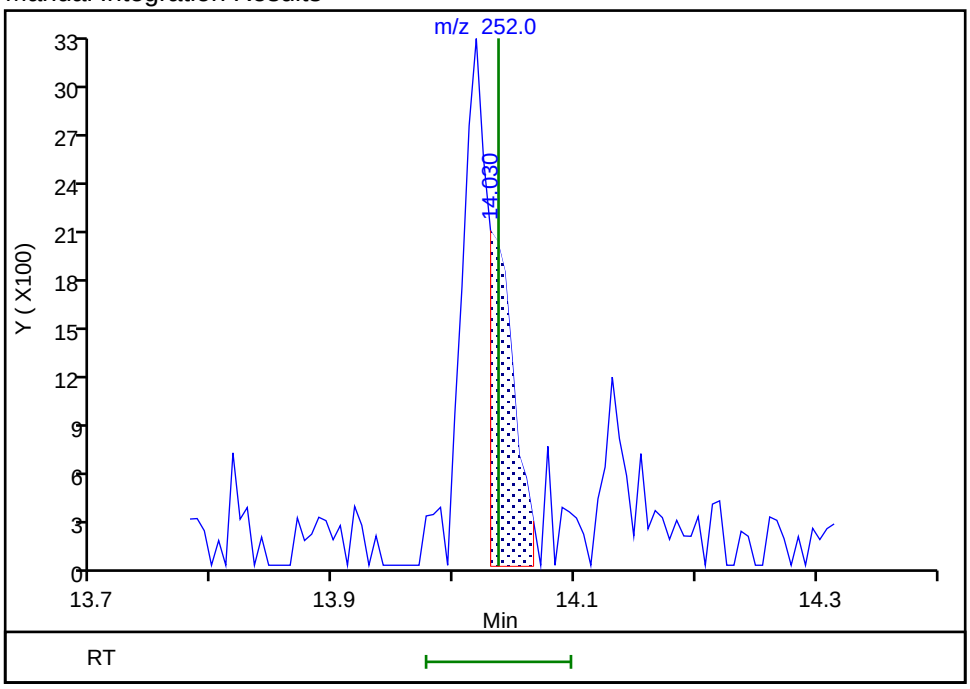
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.03
Area: 3062
Amount: 0.016903
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:12:49 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

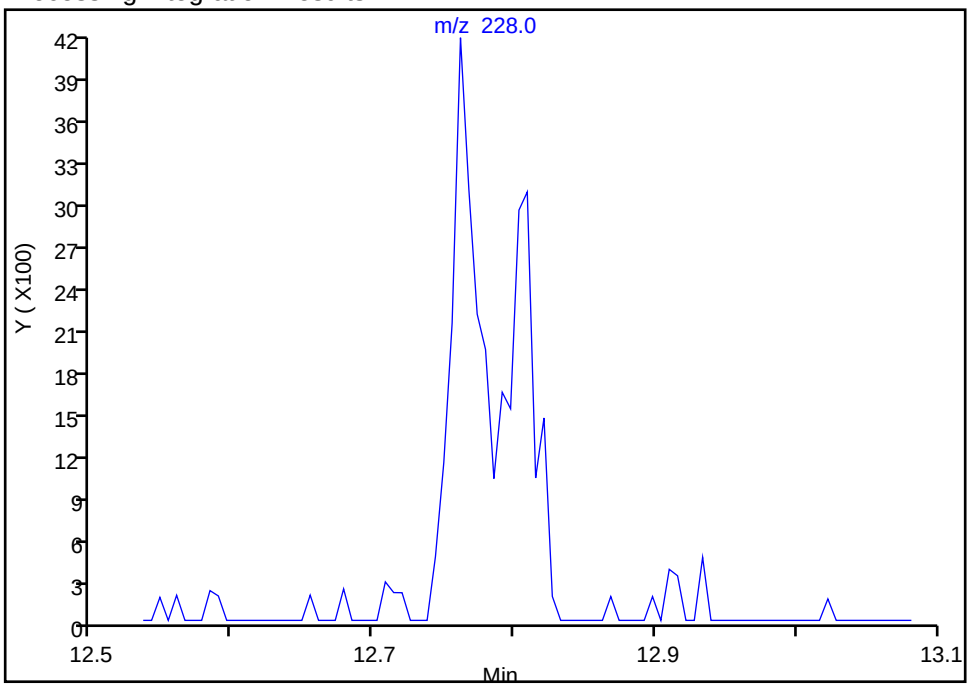
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D				
Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	JM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

182 Chrysene, CAS: 218-01-9

Signal: 1

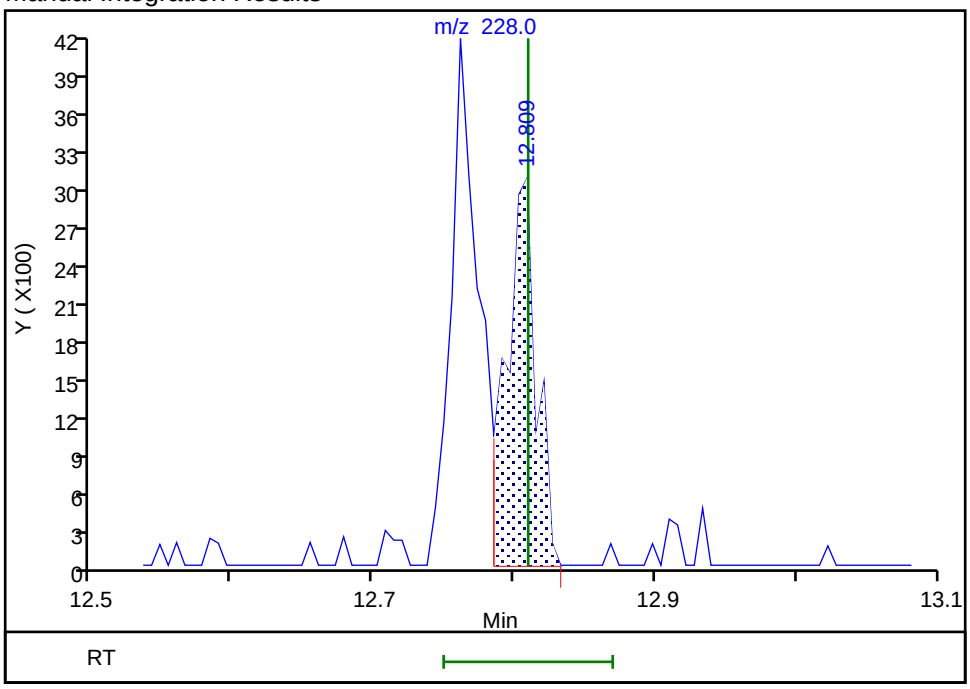
Not Detected
Expected RT: 12.81

Processing Integration Results



Manual Integration Results

RT: 12.81
Area: 4510
Amount: 0.029496
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:12:35 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-25A-10252024 | Lab Sample ID: 480-224869-12

Matrix: Water | Lab File ID: Y04595.D

Analysis Method: 8270D | Date Collected: 10/25/2024 02:05

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 22:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.2	0.68
108-60-1	bis (2-chloroisopropyl) ether	ND		5.2	0.54
95-95-4	2,4,5-Trichlorophenol	ND		5.2	0.50
88-06-2	2,4,6-Trichlorophenol	ND		5.2	0.64
120-83-2	2,4-Dichlorophenol	ND		5.2	0.53
105-67-9	2,4-Dimethylphenol	ND		5.2	0.52
51-28-5	2,4-Dinitrophenol	ND		10	2.3
121-14-2	2,4-Dinitrotoluene	ND		5.2	0.47
606-20-2	2,6-Dinitrotoluene	ND		5.2	0.42
91-58-7	2-Chloronaphthalene	ND		5.2	0.48
95-57-8	2-Chlorophenol	ND		5.2	0.55
91-57-6	2-Methylnaphthalene	ND		5.2	0.63
95-48-7	2-Methylphenol	0.42	J	5.2	0.42
88-74-4	2-Nitroaniline	ND		10	0.44
88-75-5	2-Nitrophenol	ND		5.2	0.50
91-94-1	3,3'-Dichlorobenzidine	ND		5.2	0.42
99-09-2	3-Nitroaniline	ND		10	0.50
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.3
101-55-3	4-Bromophenyl phenyl ether	ND		5.2	0.47
59-50-7	4-Chloro-3-methylphenol	ND		5.2	0.47
106-47-8	4-Chloroaniline	ND		5.2	0.61
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.2	0.36
106-44-5	4-Methylphenol	0.61	J	10	0.38
100-01-6	4-Nitroaniline	ND		10	0.26
100-02-7	4-Nitrophenol	ND	*+	10	1.6
83-32-9	Acenaphthene	ND		5.2	0.43
208-96-8	Acenaphthylene	ND		5.2	0.40
98-86-2	Acetophenone	ND		5.2	0.56
120-12-7	Anthracene	ND		5.2	0.29
1912-24-9	Atrazine	ND		5.2	0.48
100-52-7	Benzaldehyde	ND		5.2	0.28

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-25A-10252024 | Lab Sample ID: 480-224869-12

Matrix: Water | Lab File ID: Y04595.D

Analysis Method: 8270D | Date Collected: 10/25/2024 02:05

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 22:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		5.2	0.38
50-32-8	Benzo(a)pyrene	ND		5.2	0.49
205-99-2	Benzo(b)fluoranthene	0.35	J	5.2	0.35
191-24-2	Benzo(g,h,i)perylene	ND		5.2	0.36
207-08-9	Benzo(k)fluoranthene	ND		5.2	0.76
111-91-1	Bis(2-chloroethoxy)methane	ND		5.2	0.36
111-44-4	Bis(2-chloroethyl)ether	ND		5.2	0.42
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.2	2.3
85-68-7	Butyl benzyl phthalate	ND		5.2	1.0
105-60-2	Caprolactam	ND		5.2	2.3
86-74-8	Carbazole	ND		5.2	0.31
218-01-9	Chrysene	ND		5.2	0.34
84-74-2	Di-n-butyl phthalate	ND		5.2	0.32
117-84-0	Di-n-octyl phthalate	ND		5.2	0.49
53-70-3	Dibenz(a,h)anthracene	ND		5.2	0.44
132-64-9	Dibenzofuran	ND		10	0.53
84-66-2	Diethyl phthalate	ND		5.2	0.23
131-11-3	Dimethyl phthalate	ND		5.2	0.38
206-44-0	Fluoranthene	ND		5.2	0.42
86-73-7	Fluorene	ND		5.2	0.38
118-74-1	Hexachlorobenzene	ND		5.2	0.53
87-68-3	Hexachlorobutadiene	ND		5.2	0.71
77-47-4	Hexachlorocyclopentadiene	ND		5.2	0.61
67-72-1	Hexachloroethane	ND		5.2	0.61
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.2	0.49
78-59-1	Isophorone	ND		5.2	0.45
621-64-7	N-Nitrosodi-n-propylamine	ND		5.2	0.56
86-30-6	N-Nitrosodiphenylamine	ND		5.2	0.53
91-20-3	Naphthalene	1.9	J	5.2	0.79
98-95-3	Nitrobenzene	ND		5.2	0.30
87-86-5	Pentachlorophenol	ND		10	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-25A-10252024 | Lab Sample ID: 480-224869-12

Matrix: Water | Lab File ID: Y04595.D

Analysis Method: 8270D | Date Collected: 10/25/2024 02:05

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 22:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		5.2	0.46
108-95-2	Phenol	ND		5.2	0.41
129-00-0	Pyrene	ND		5.2	0.35

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	84		25-144
321-60-8	2-Fluorobiphenyl	86		53-126
367-12-4	2-Fluorophenol	70		24-120
4165-60-0	Nitrobenzene-d5	95		29-129
1718-51-0	p-Terphenyl-d14	69		33-132
4165-62-2	Phenol-d5	53		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D
Lims ID: 480-224869-A-12-A
Client ID: MW-BCP-25A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 22:13:30 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-026
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:13:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.887	5.886	0.001	96	162551	4.00	
* 2 Naphthalene-d8	136	7.084	7.089	-0.005	99	611626	4.00	
* 3 Acenaphthene-d10	164	8.649	8.648	0.001	95	342410	4.00	
* 4 Phenanthrene-d10	188	9.923	9.929	-0.006	97	598636	4.00	
* 5 Chrysene-d12	240	12.775	12.774	0.001	99	496149	4.00	
* 6 Perylene-d12	264	14.464	14.463	0.001	97	566199	4.00	
$ 7 2-Fluorophenol	112	4.671	4.644	0.030	92	279921	5.59	
$ 8 Phenol-d5	99	5.531	5.527	0.007	88	263494	4.26	
$ 9 Nitrobenzene-d5	82	6.414	6.410	0.000	96	447882	7.61	
$ 10 2-Fluorobiphenyl	172	8.038	8.040	0.000	99	810278	6.88	
$ 11 2,4,6-Tribromophenol	330	9.331	9.327	0.001	81	99432	6.69	
$ 12 p-Terphenyl-d14	244	11.482	11.484	0.000	97	744313	5.53	
35 Benzaldehyde	77		5.471				ND	
37 Phenol	94	5.543	5.538	0.007	51	4542	0.0722	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108	6.118	6.111	0.007	87	4848	0.1016	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.266	6.314	0.012	81	7320	0.1476	
52 Acetophenone	105	6.266	6.268	0.001	68	2378	0.0344	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107	6.752	6.751	0.001	86	2830	0.0531	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.108	7.113	0.001	97	75411	0.4667	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113	7.451	7.462	-0.012	69	2787	0.2420	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142	7.730	7.726	0.000	64	1711	0.0172	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154		8.133				ND	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152	8.530	8.532	0.000	89	3609	0.0238	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153		8.678				ND	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	
115 Dibenzofuran	168		8.826				ND	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166	9.117	9.125	-0.006	51	2455	0.0344	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.947	9.946	0.000	74	8723	0.0527	
152 Anthracene	178	9.989	10.001	0.001	84	7696	0.0465	
153 Carbazole	167		10.118				ND	
157 Di-n-butyl phthalate	149	10.356	10.352	0.000	95	6589	0.0348	
164 Fluoranthene	202	11.109	11.104	0.001	96	15463	0.0880	
167 Pyrene	202	11.370	11.366	0.001	96	13150	0.0791	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149	12.668	12.670	0.001	60	7334	0.1532	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228		12.762				ND	
182 Chrysene	228		12.810				ND	
184 Di-n-octyl phthalate	149		13.420				ND	
186 Benzo[b]fluoranthene	252	14.013	14.019	0.006	95	11696	0.0836	
187 Benzo[k]fluoranthene	252	14.043	14.037	0.006	89	5391	0.0297	Ma
189 Benzo[a]pyrene	252	14.399	14.401	0.001	51	9675	0.0823	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276	15.964	15.942	0.019	97	6888	0.0545	
195 Benzo[g,h,i]perylene	276	16.408	16.417	0.012	94	6336	0.0571	

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

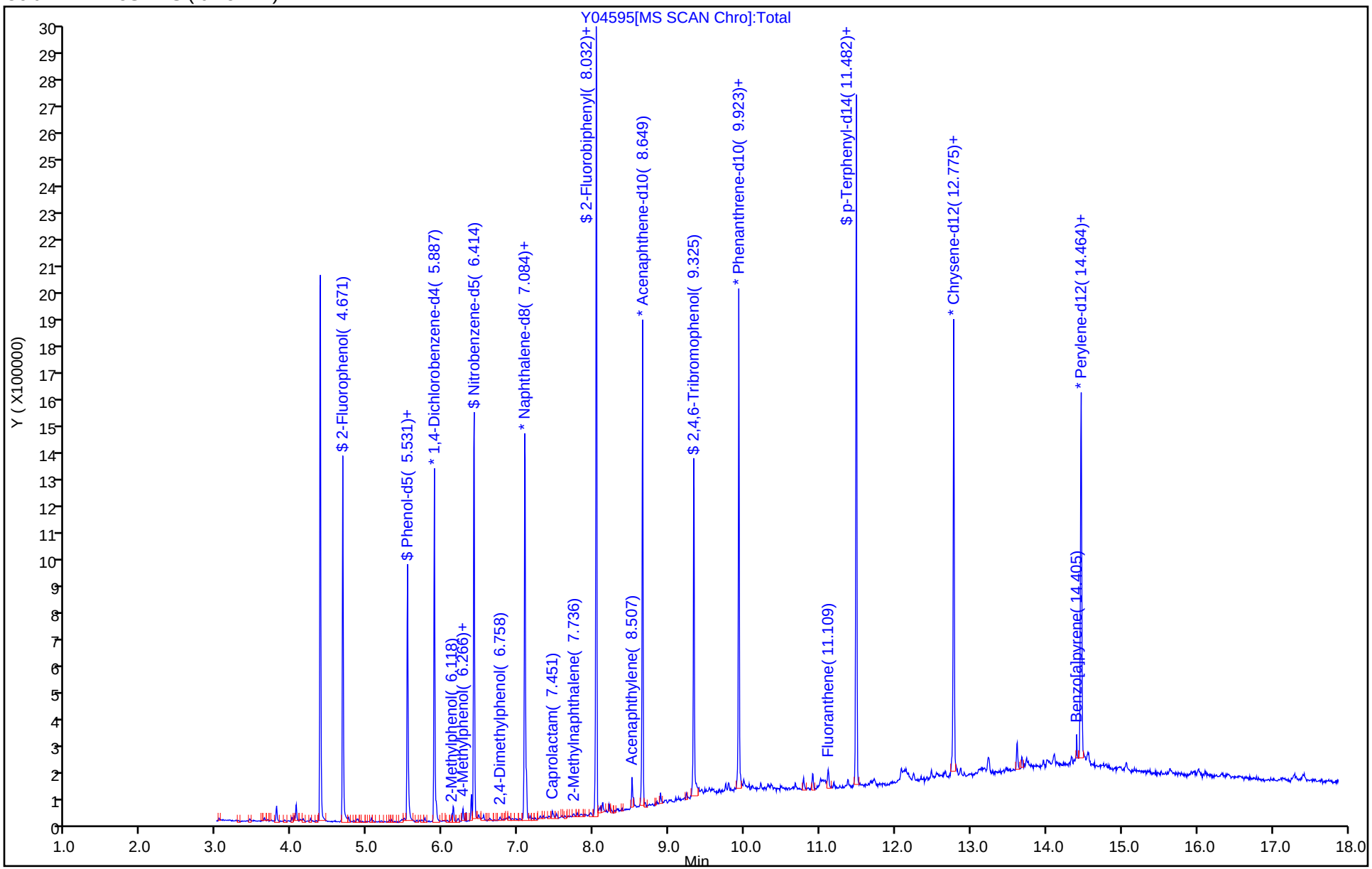
Report Date: 30-Oct-2024 15:17:36 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D

Injection Date:	29-Oct-2024 22:13:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-A-12-A	Lab Sample ID:	480-224869-12	Worklist Smp#:	26
Client ID:	MW-BCP-25A-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D
Lims ID: 480-224869-A-12-A
Client ID: MW-BCP-25A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 22:13:30 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-026
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

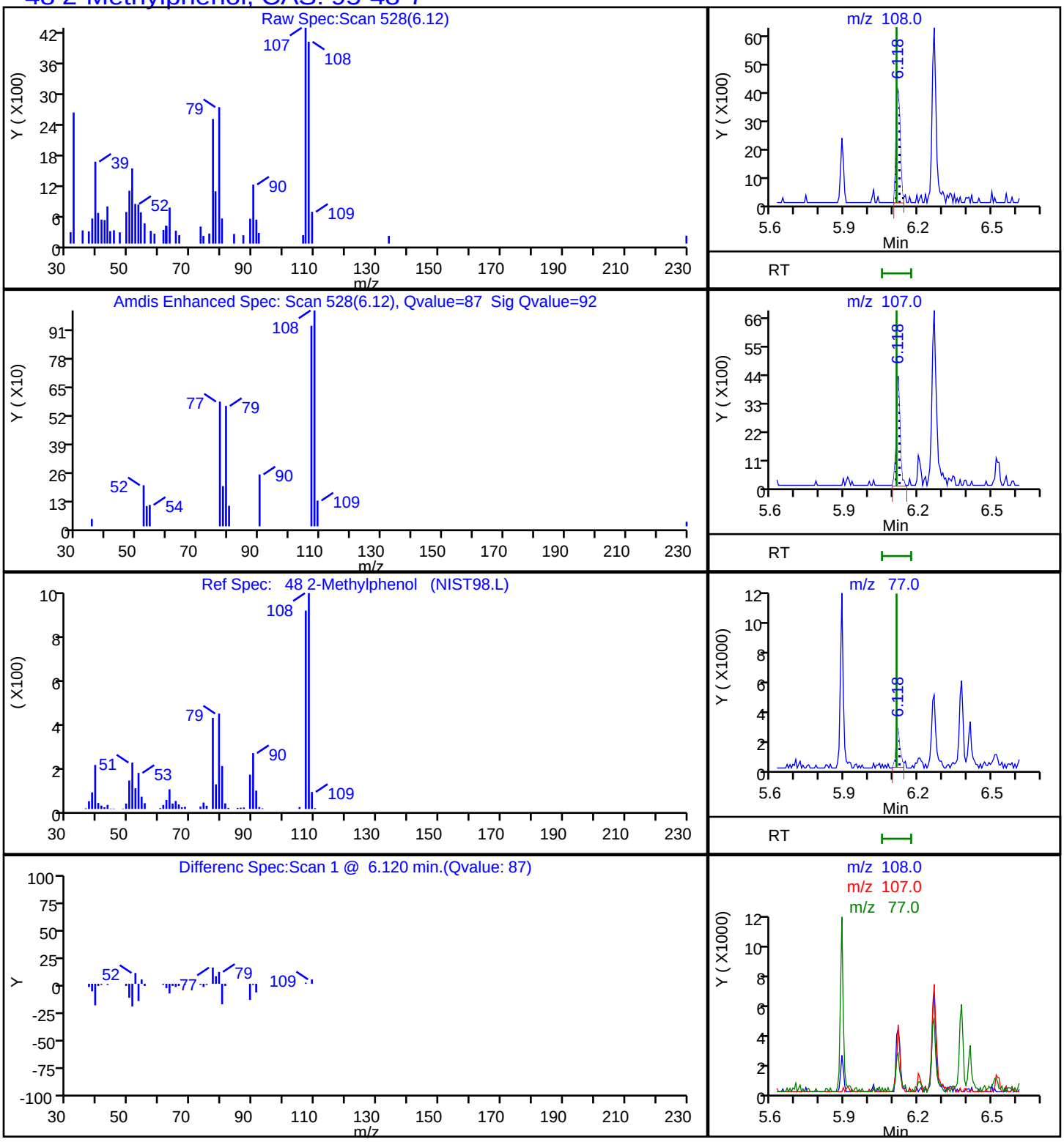
First Level Reviewer: IZ8L Date: 30-Oct-2024 15:13:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.59	69.86
$ 8 Phenol-d5	8.00	4.26	53.23
$ 9 Nitrobenzene-d5	8.00	7.61	95.12
$ 10 2-Fluorobiphenyl	8.00	6.88	86.06
$ 11 2,4,6-Tribromophenol	8.00	6.69	83.62
$ 12 p-Terphenyl-d14	8.00	5.53	69.18

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D
Injection Date: 29-Oct-2024 22:13:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-12-A Lab Sample ID: 480-224869-12
Client ID: MW-BCP-25A-10252024
Operator ID: JM ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

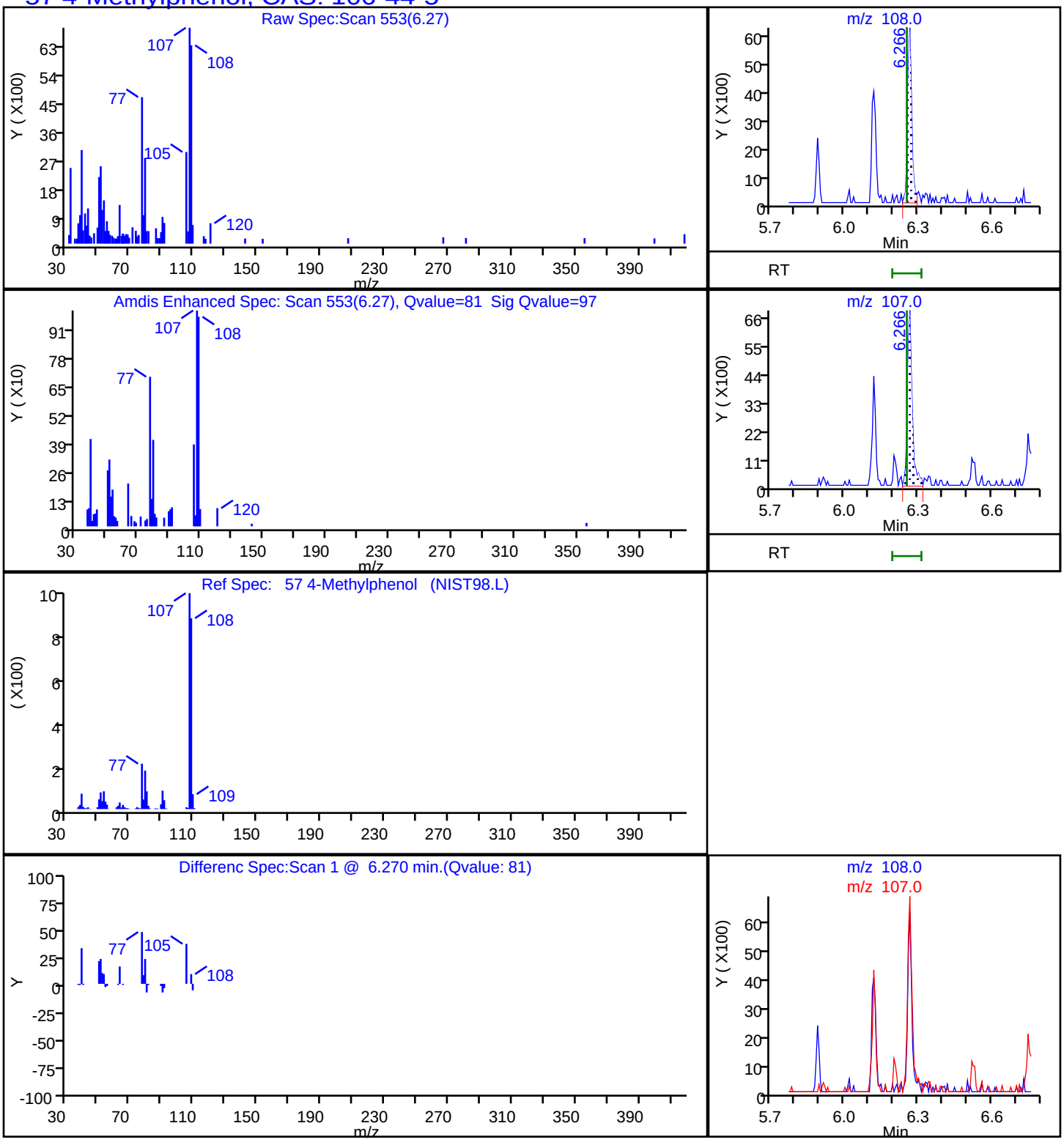
48 2-Methylphenol, CAS: 95-48-7



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D
Injection Date: 29-Oct-2024 22:13:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-12-A Lab Sample ID: 480-224869-12
Client ID: MW-BCP-25A-10252024
Operator ID: JM ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

57 4-Methylphenol, CAS: 106-44-5



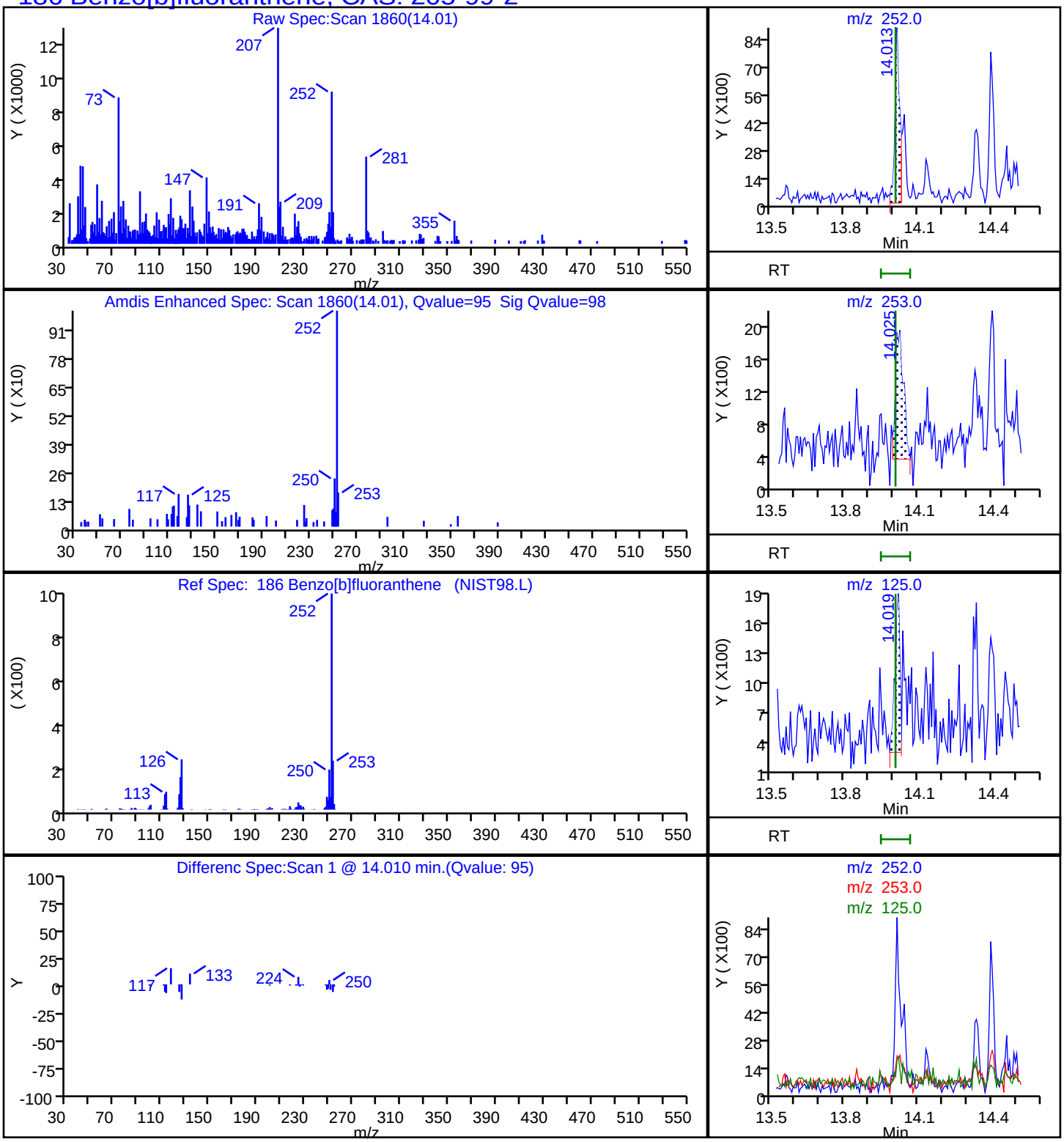
Report Date: 30-Oct-2024 15:17:36 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D

Injection Date:	29-Oct-2024 22:13:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-12-A	Lab Sample ID:	480-224869-12		
Client ID:	MW-BCP-25A-10252024				
Operator ID:	JM	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2



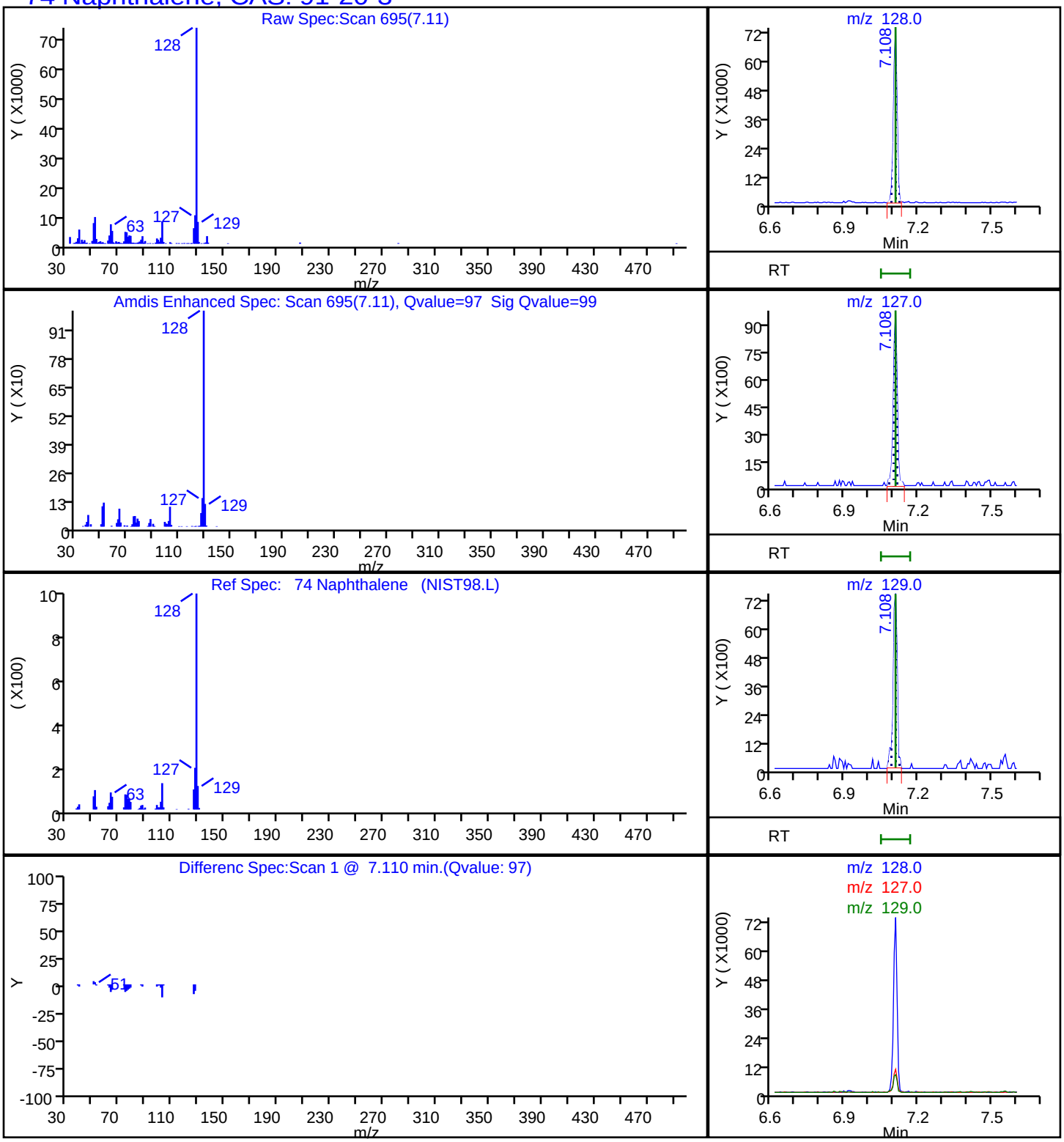
Report Date: 30-Oct-2024 15:17:36 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D

Injection Date:	29-Oct-2024 22:13:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-12-A	Lab Sample ID:	480-224869-12
Client ID:	MW-BCP-25A-10252024		
Operator ID:	JM	ALS Bottle#:	26 Worklist Smp#: 26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

74 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

Eurofins Buffalo

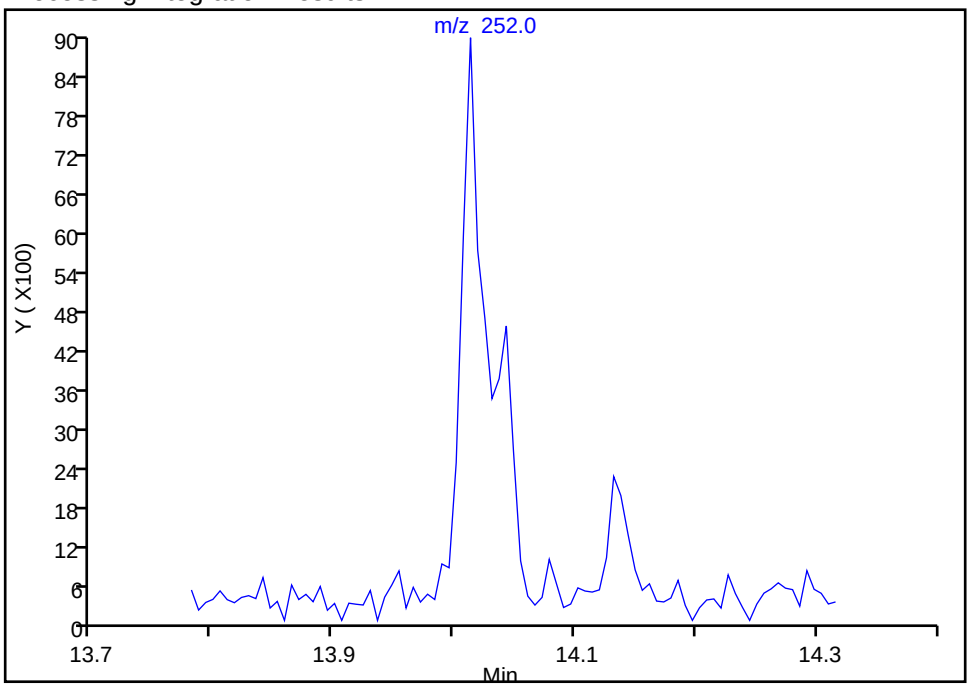
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D				
Injection Date:	29-Oct-2024 22:13:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-12-A	Lab Sample ID:	480-224869-12		
Client ID:	MW-BCP-25A-10252024				
Operator ID:	JM	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

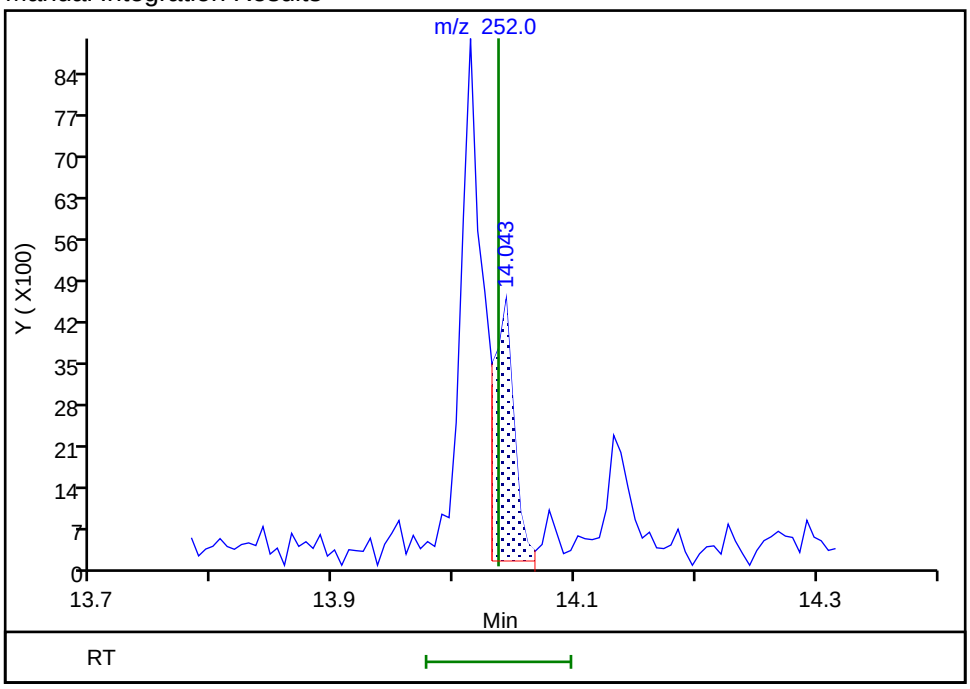
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 5391
Amount: 0.029696
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:13:34 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 | Lab Sample ID: 480-224869-13

Matrix: Water | Lab File ID: Y04596.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:55

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 22:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	14		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	0.53	J	5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	1.1	J	5.0	0.60
95-48-7	2-Methylphenol	0.49	J	5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	0.92	J	10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND	*+	10	1.5
83-32-9	Acenaphthene	8.8		5.0	0.41
208-96-8	Acenaphthylene	51		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	15		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 | Lab Sample ID: 480-224869-13

Matrix: Water | Lab File ID: Y04596.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:55

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 22:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	2.3	J	5.0	0.36
50-32-8	Benzo(a)pyrene	1.5	J	5.0	0.47
205-99-2	Benzo(b)fluoranthene	1.8	J	5.0	0.34
191-24-2	Benzo(g,h,i)perylene	0.75	J	5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	27		5.0	0.30
218-01-9	Chrysene	2.2	J	5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	48		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	22		5.0	0.40
86-73-7	*Fluorene*	*68*	*E*	*5.0*	*0.36*
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	0.66	J	5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	6.4		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 | Lab Sample ID: 480-224869-13

Matrix: Water | Lab File ID: Y04596.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:55

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 22:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	*Phenanthrene*	*78*	*E*	*5.0*	*0.44*
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	14		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	97		25-144
321-60-8	2-Fluorobiphenyl	91		53-126
367-12-4	2-Fluorophenol	69		24-120
4165-60-0	Nitrobenzene-d5	100		29-129
1718-51-0	p-Terphenyl-d14	70		33-132
4165-62-2	Phenol-d5	51		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D
Lims ID: 480-224869-A-13-A
Client ID: MW-BCP-19B-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 22:40:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-027
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 08:03:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.889	5.886	0.003	96	163000	4.00	
* 2 Naphthalene-d8	136	7.086	7.089	-0.003	99	610447	4.00	
* 3 Acenaphthene-d10	164	8.651	8.648	0.003	93	347940	4.00	
* 4 Phenanthrene-d10	188	9.926	9.929	-0.003	97	594796	4.00	
* 5 Chrysene-d12	240	12.777	12.774	0.003	99	521486	4.00	
* 6 Perylene-d12	264	14.466	14.463	0.003	97	575292	4.00	
$ 7 2-Fluorophenol	112	4.674	4.644	0.033	92	275871	5.49	
$ 8 Phenol-d5	99	5.527	5.527	0.003	88	255514	4.12	
$ 9 Nitrobenzene-d5	82	6.411	6.410	-0.004	98	470929	8.01	
$ 10 2-Fluorobiphenyl	172	8.035	8.040	-0.003	98	866055	7.24	
$ 11 2,4,6-Tribromophenol	330	9.327	9.327	-0.003	86	115055	7.76	
$ 12 p-Terphenyl-d14	244	11.485	11.484	0.003	97	787236	5.57	
35 Benzaldehyde	77		5.471				ND	U
37 Phenol	94		5.536				ND	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108	6.114	6.111	0.003	84	5890	0.1231	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.262	6.314	0.008	83	11395	0.2291	
52 Acetophenone	105		6.265				ND	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	U
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107	6.754	6.751	0.003	80	7022	0.1321	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.104	7.113	-0.003	98	258201	1.60	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113	7.454	7.462	-0.009	56	2468	0.2233	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142	7.726	7.726	-0.004	90	27829	0.2798	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154	8.130	8.132	-0.003	97	459775	3.60	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	U
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152	8.533	8.532	0.003	98	1975660	12.8	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153	8.675	8.675	-0.003	96	225868	2.19	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	U
115 Dibenzofuran	168	8.823	8.829	-0.003	94	1673623	12.0	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166	9.119	9.125	-0.004	94	2017592	17.1	E
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	U
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.949	9.946	0.002	99	3222037	19.6	E
152 Anthracene	178	9.991	10.001	0.003	98	604667	3.68	
153 Carbazole	167	10.121	10.149	0.003	97	973952	6.66	
157 Di-n-butyl phthalate	149	10.358	10.352	0.002	50	8464	0.0450	
164 Fluoranthene	202	11.111	11.104	0.003	98	967901	5.54	
167 Pyrene	202	11.372	11.366	0.003	97	628223	3.60	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228	12.759	12.764	-0.003	99	100940	0.5653	
182 Chrysene	228	12.807	12.809	-0.003	95	87700	0.5375	
184 Di-n-octyl phthalate	149		13.420				ND	U
186 Benzo[b]fluoranthene	252	14.016	14.019	0.009	97	79502	0.4506	M
187 Benzo[k]fluoranthene	252	14.039	14.037	0.002	43	31619	0.1714	Ma
189 Benzo[a]pyrene	252	14.401	14.401	0.003	78	58346	0.3772	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276	15.954	15.942	0.009	96	29137	0.1642	
195 Benzo[g,h,i]perylene	276	16.405	16.417	0.009	94	27189	0.1882	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

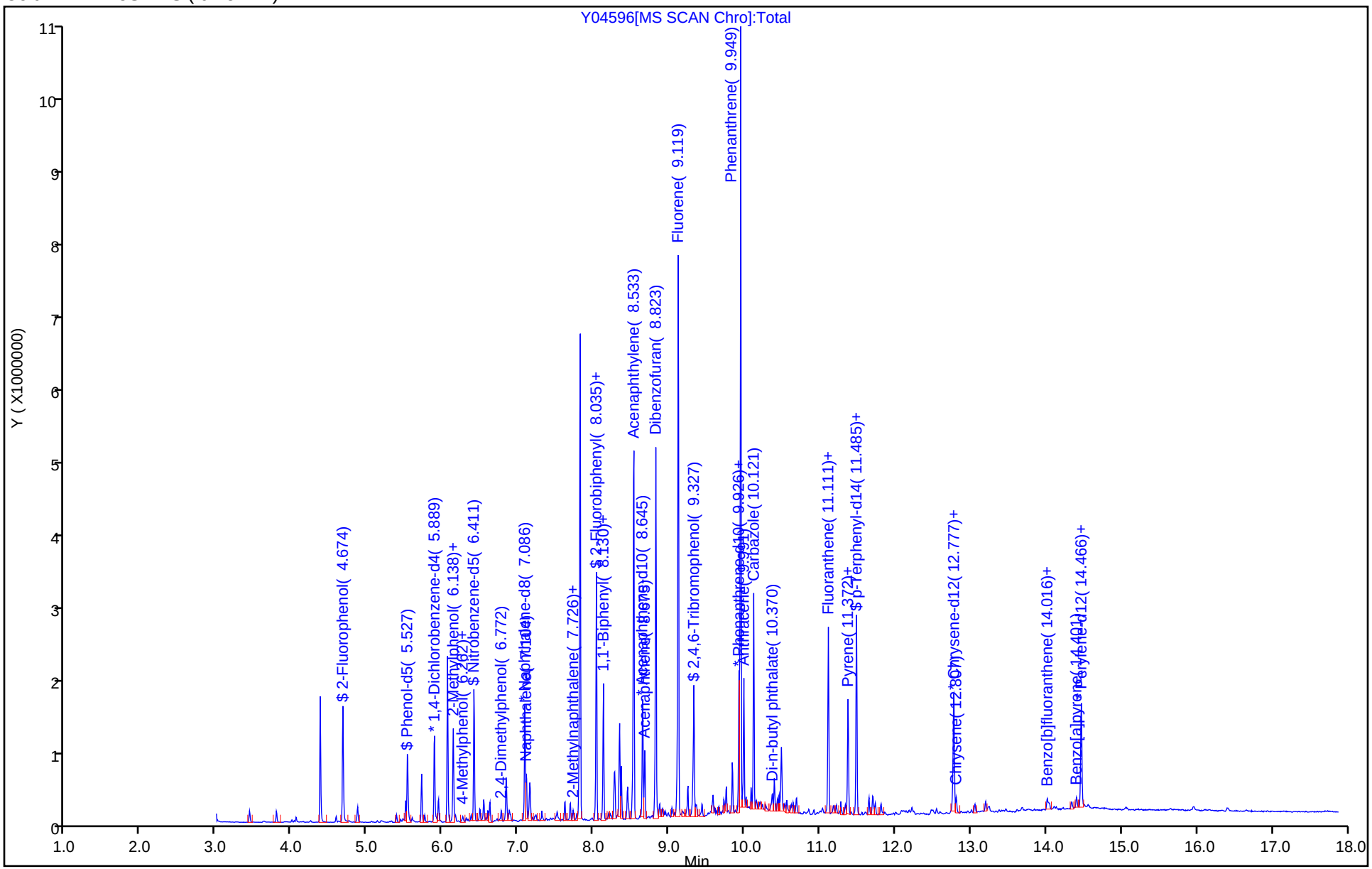
Report Date: 30-Oct-2024 15:17:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13	Worklist Smp#:	27
Client ID:	MW-BCP-19B-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D
Lims ID: 480-224869-A-13-A
Client ID: MW-BCP-19B-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 22:40:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-027
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 08:03:02

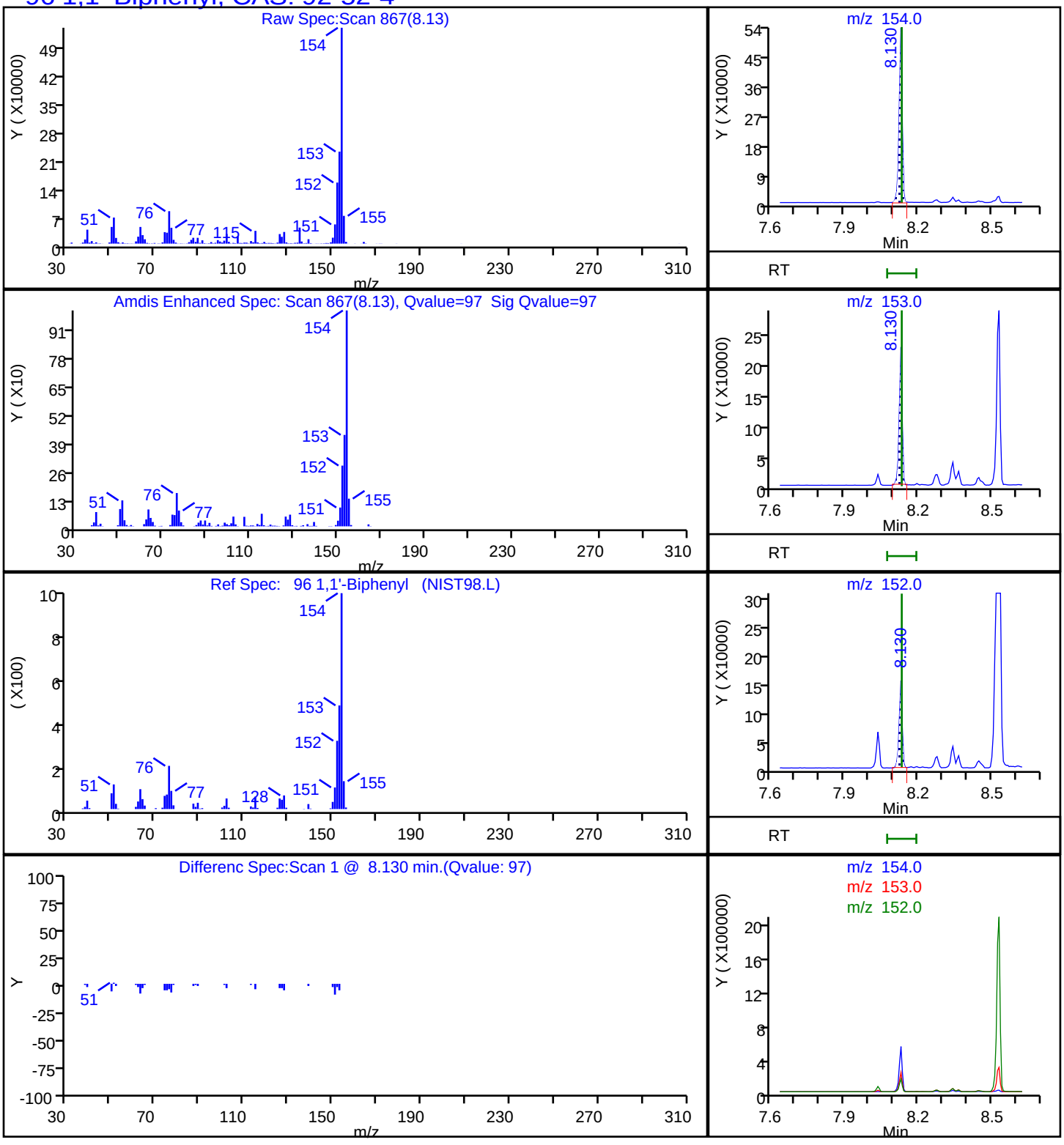
Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.49	68.66
$ 8 Phenol-d5	8.00	4.12	51.47
$ 9 Nitrobenzene-d5	8.00	8.01	100.18
$ 10 2-Fluorobiphenyl	8.00	7.24	90.52
$ 11 2,4,6-Tribromophenol	8.00	7.76	97.02
$ 12 p-Terphenyl-d14	8.00	5.57	69.61

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

96 1,1'-Biphenyl, CAS: 92-52-4

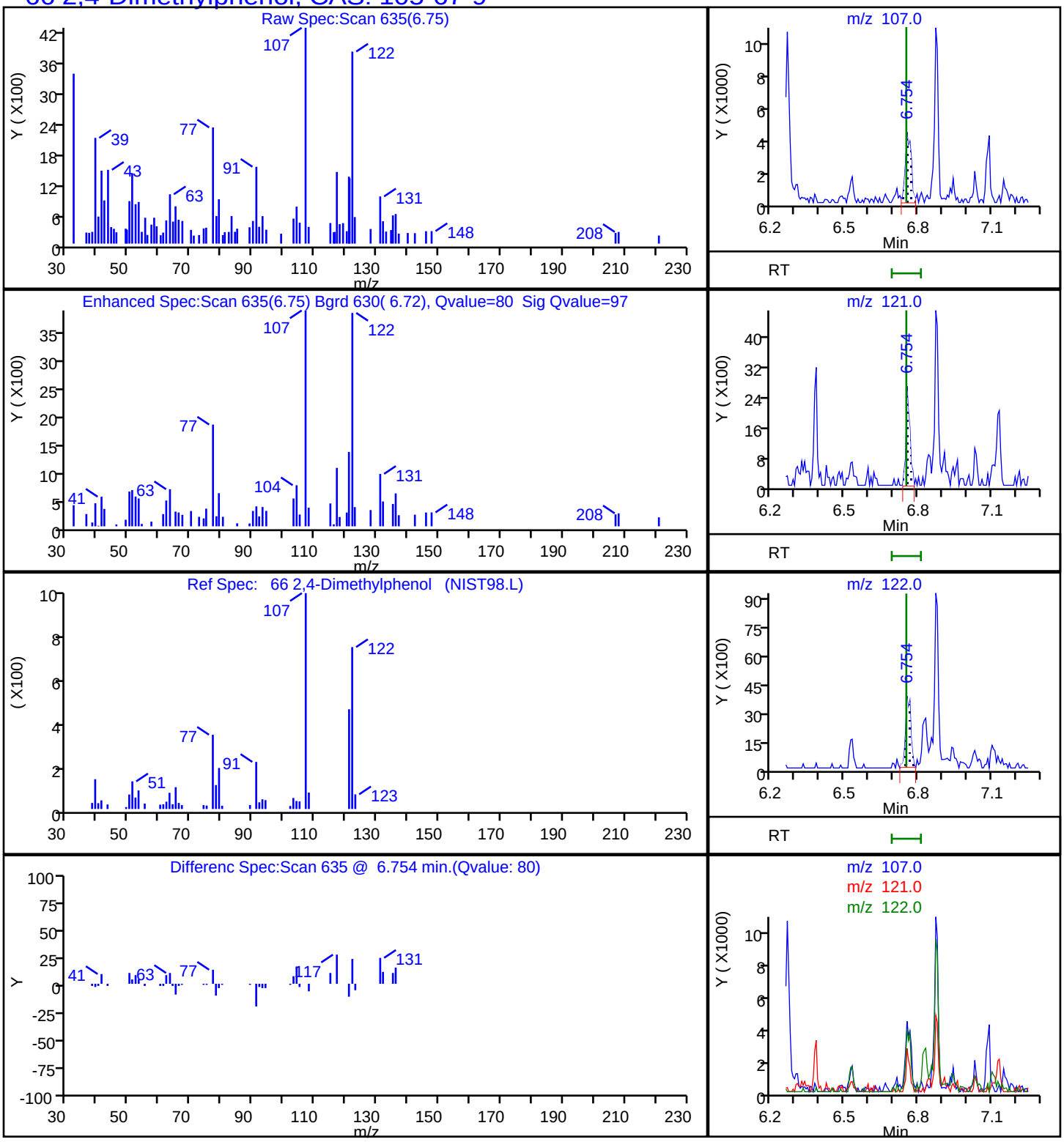


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dimethylphenol, CAS: 105-67-9



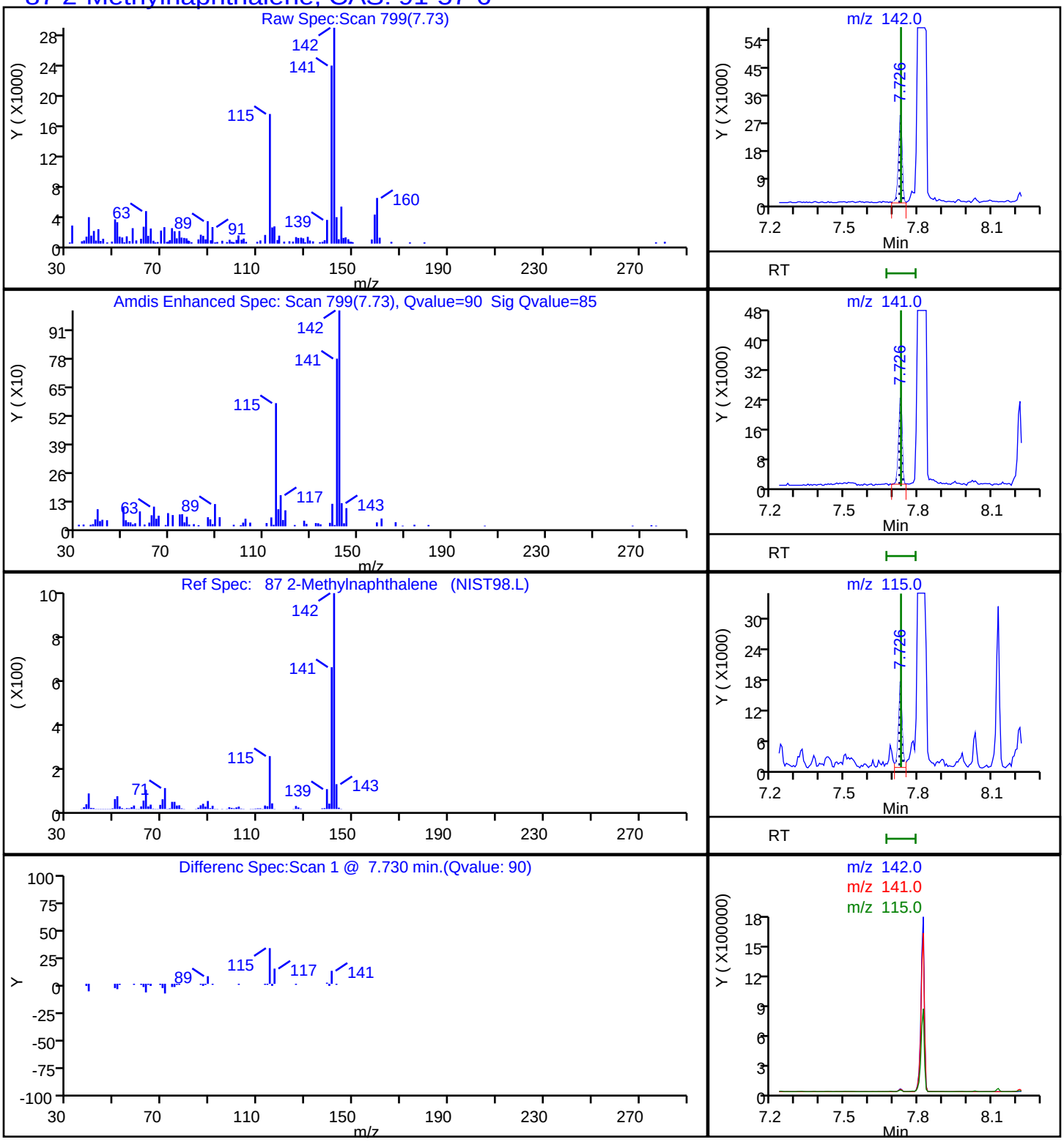
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

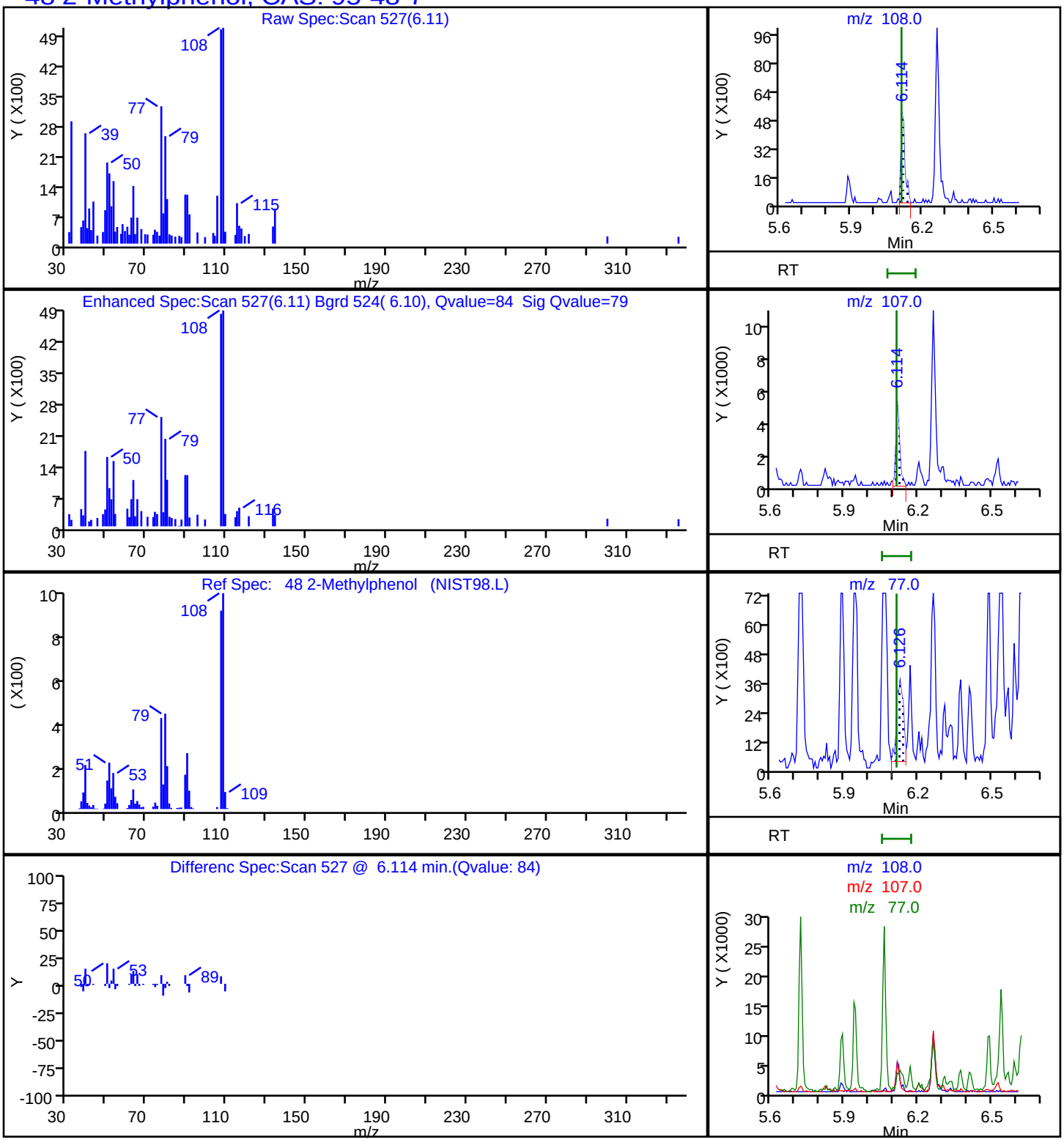
87 2-Methylnaphthalene, CAS: 91-57-6



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D
Injection Date: 29-Oct-2024 22:40:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-13-A Lab Sample ID: 480-224869-13
Client ID: MW-BCP-19B-10252024
Operator ID: JM ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

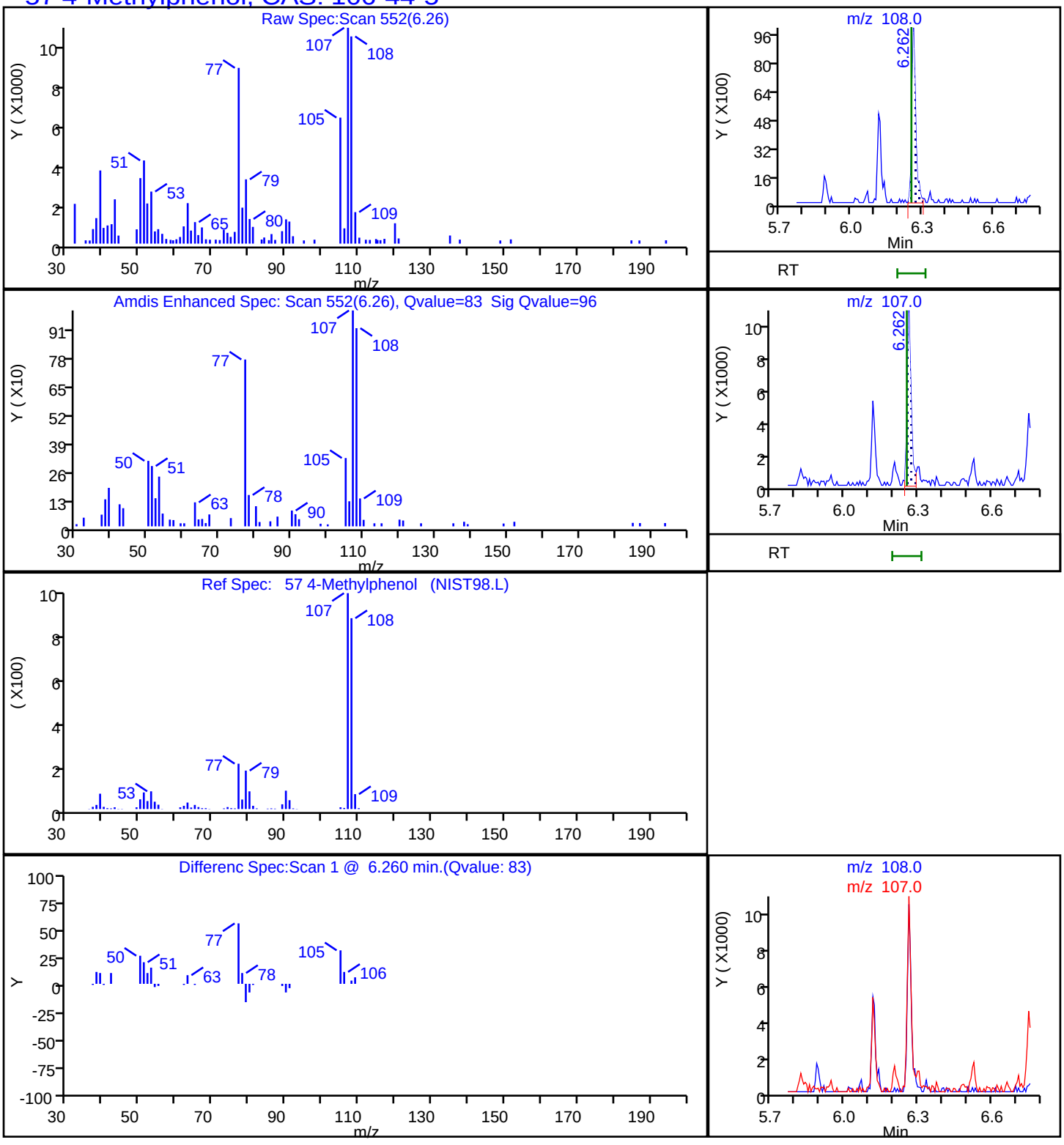
48 2-Methylphenol, CAS: 95-48-7



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D
Injection Date: 29-Oct-2024 22:40:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-13-A Lab Sample ID: 480-224869-13
Client ID: MW-BCP-19B-10252024
Operator ID: JM ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

57 4-Methylphenol, CAS: 106-44-5

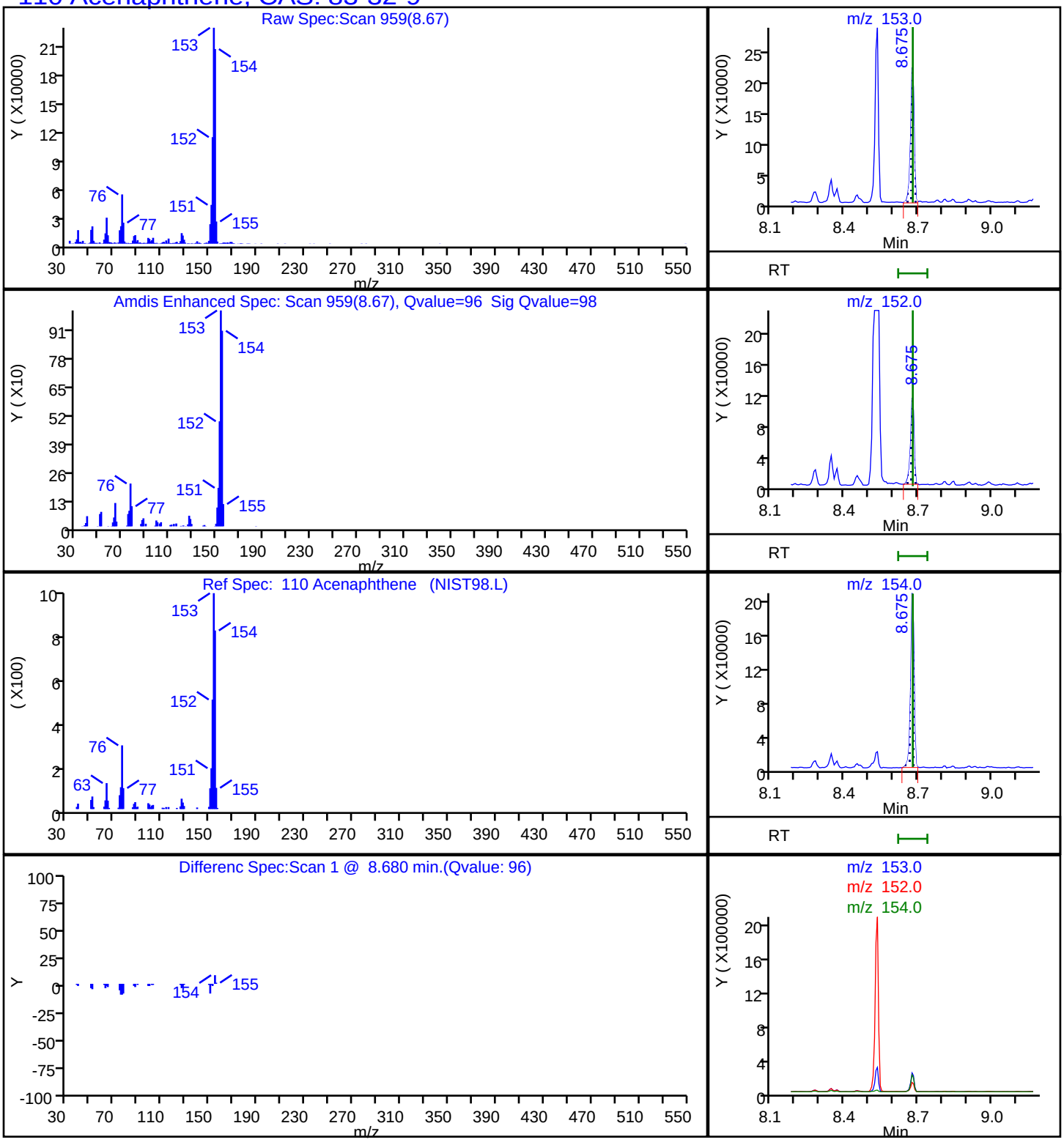


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

110 Acenaphthene, CAS: 83-32-9

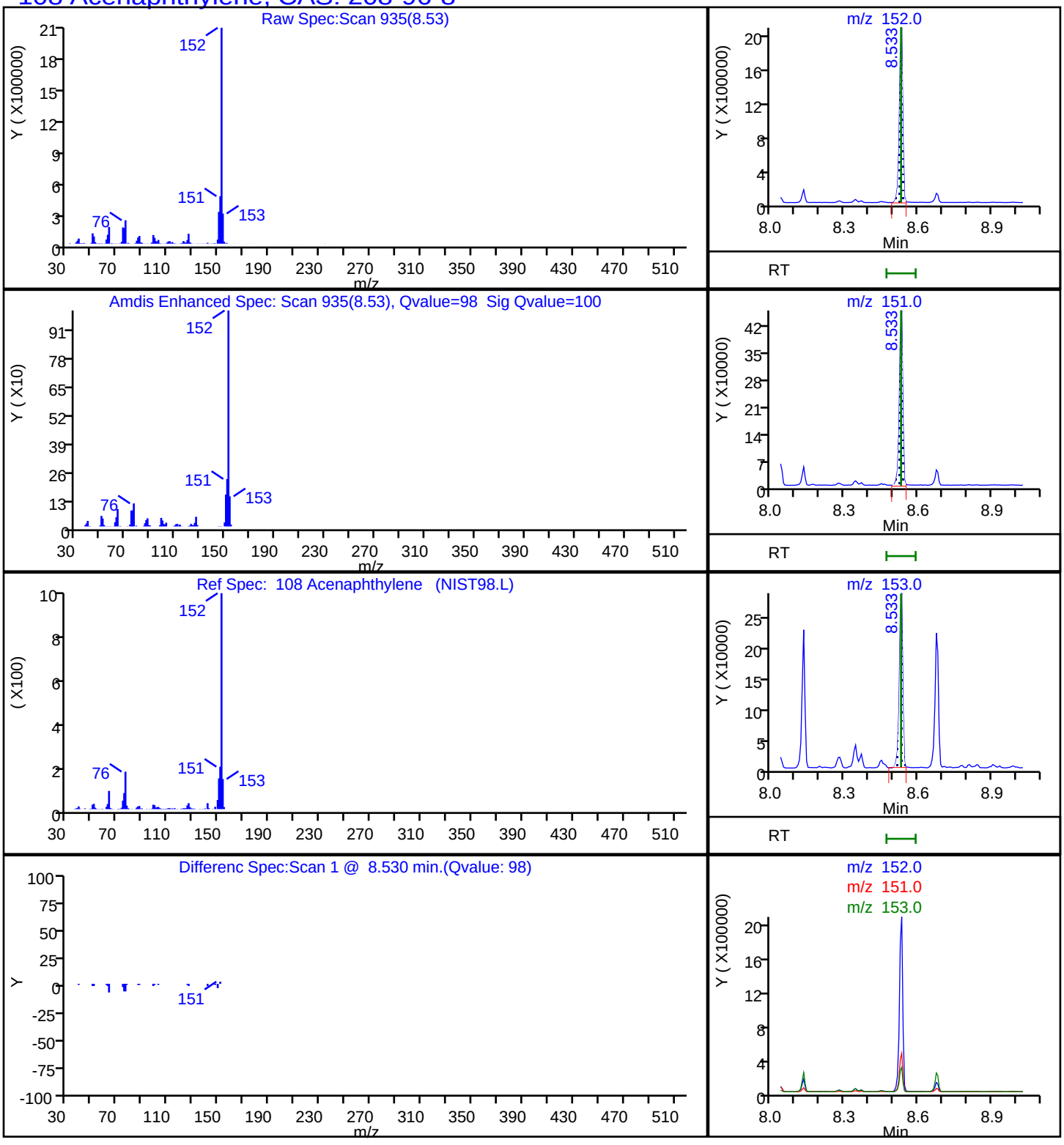


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

108 Acenaphthylene, CAS: 208-96-8



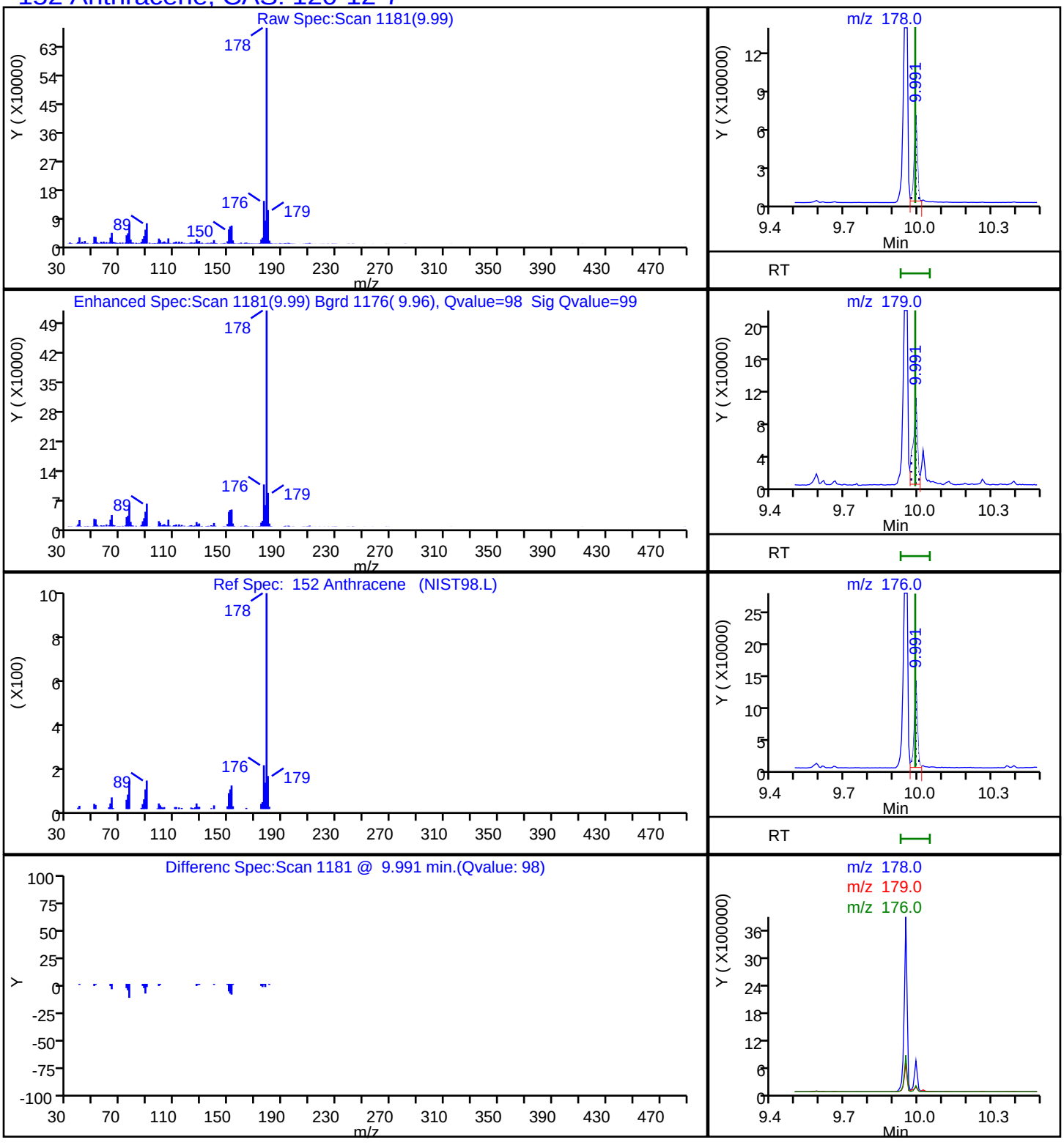
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

152 Anthracene, CAS: 120-12-7



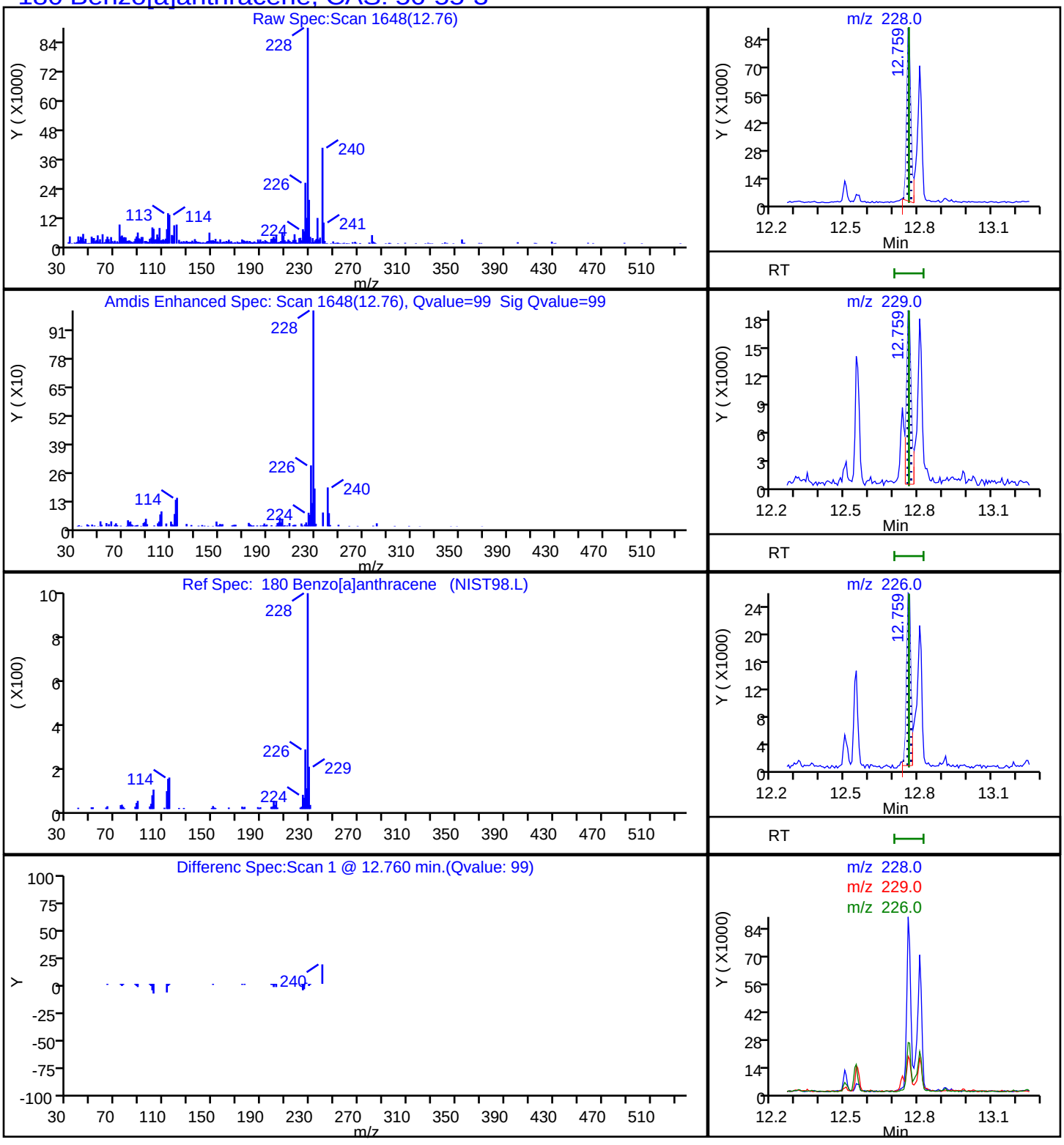
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

180 Benzo[a]anthracene, CAS: 56-55-3



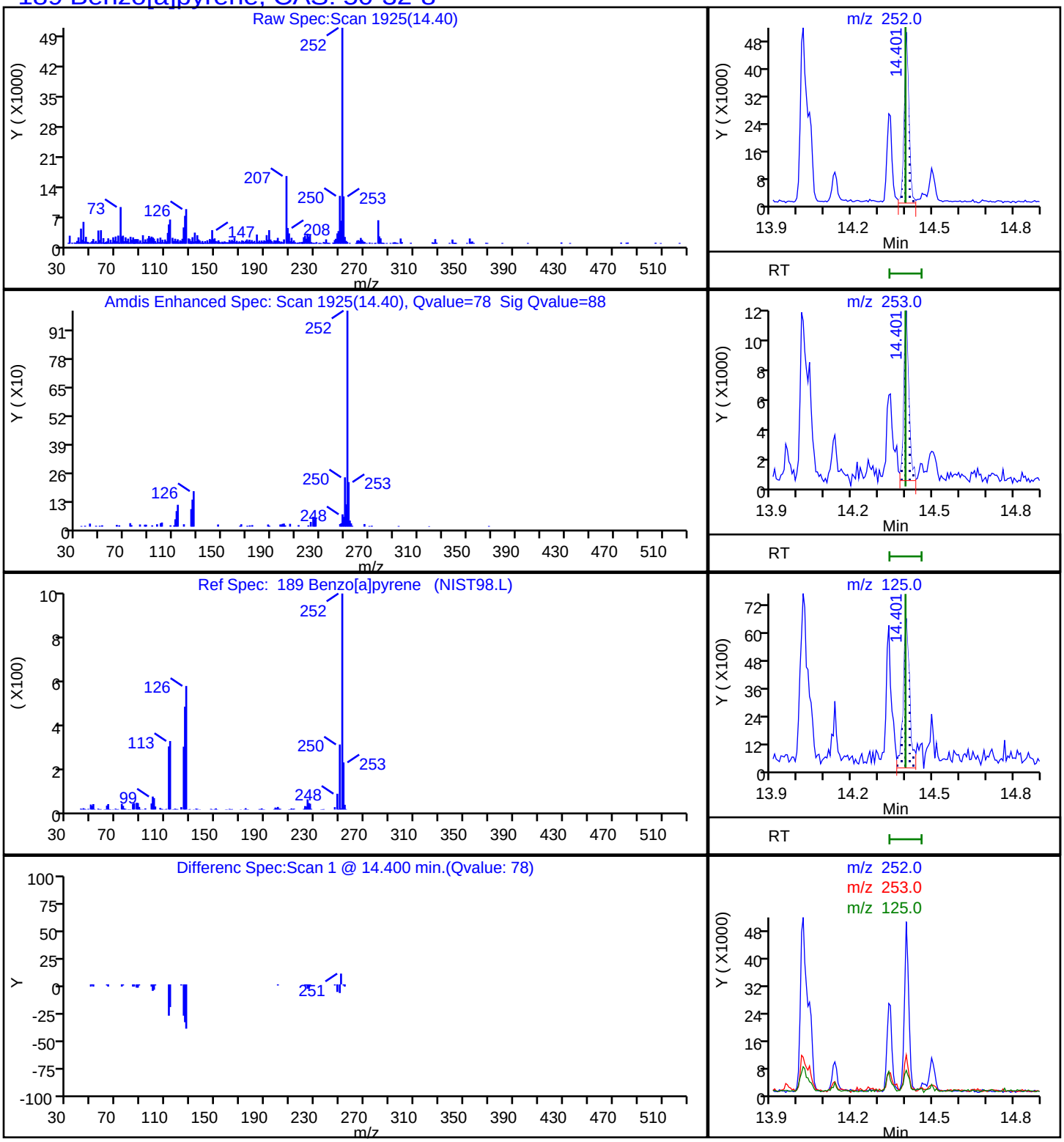
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

189 Benzo[a]pyrene, CAS: 50-32-8



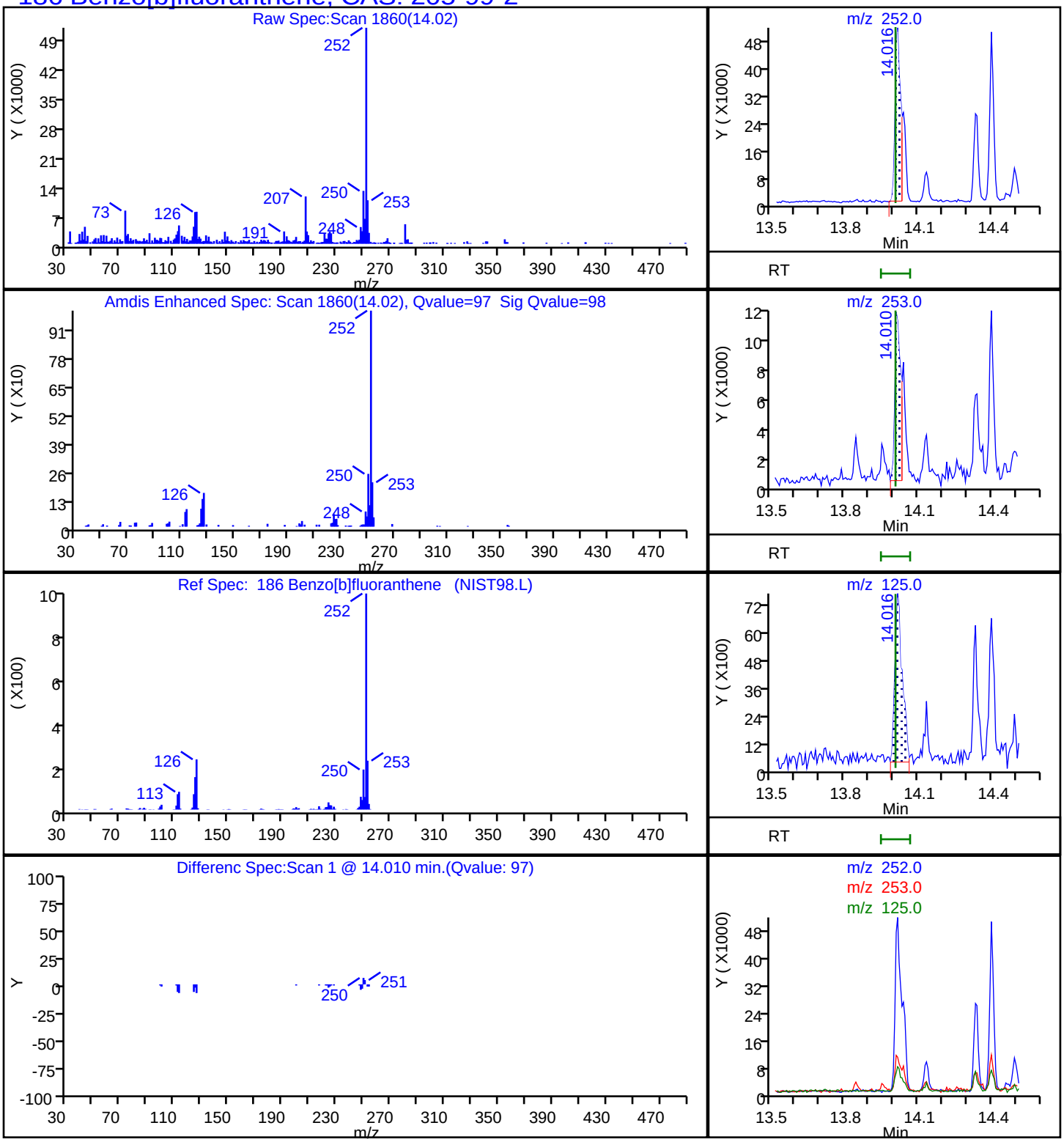
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2



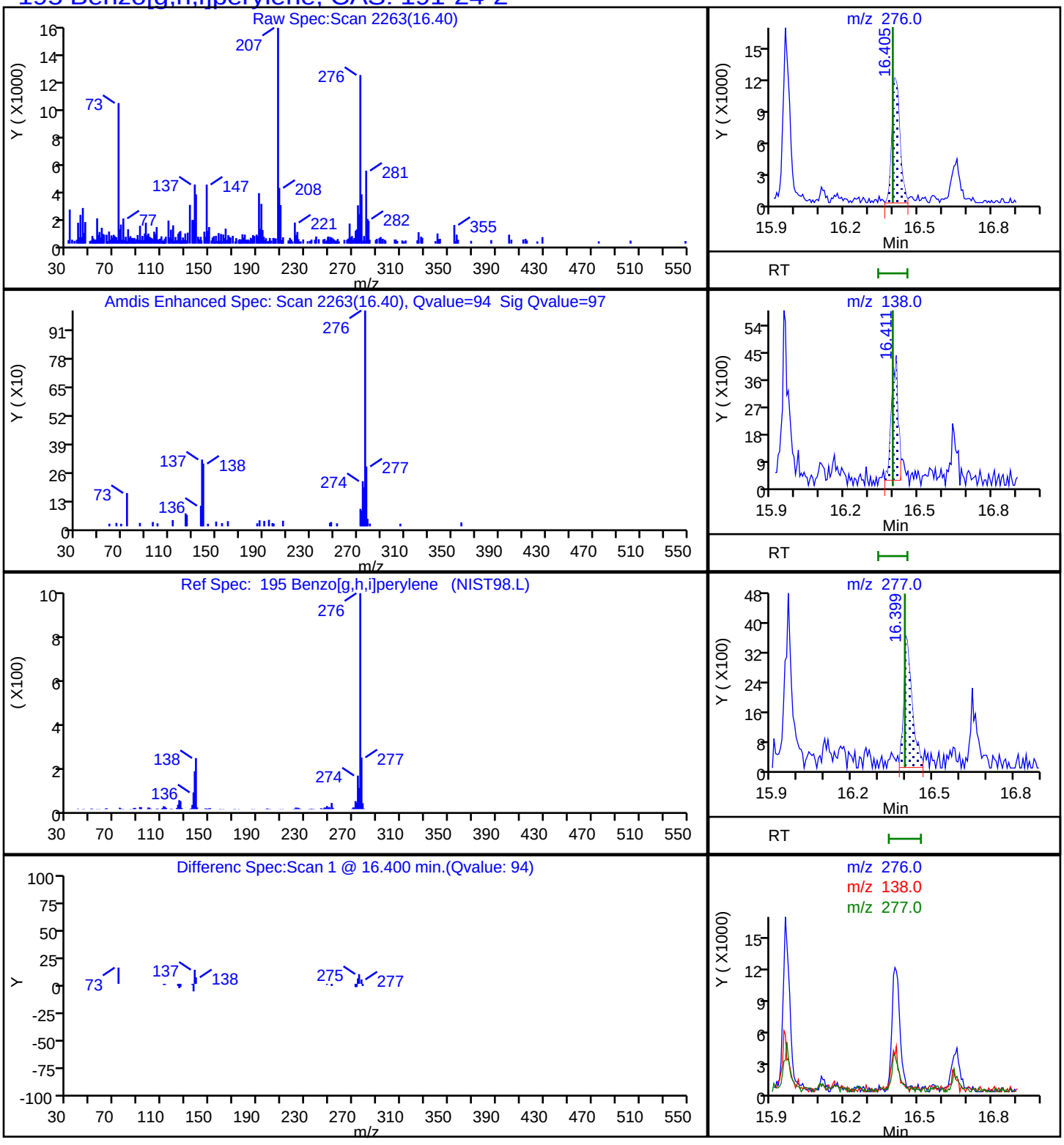
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

195 Benzo[g,h,i]perylene, CAS: 191-24-2



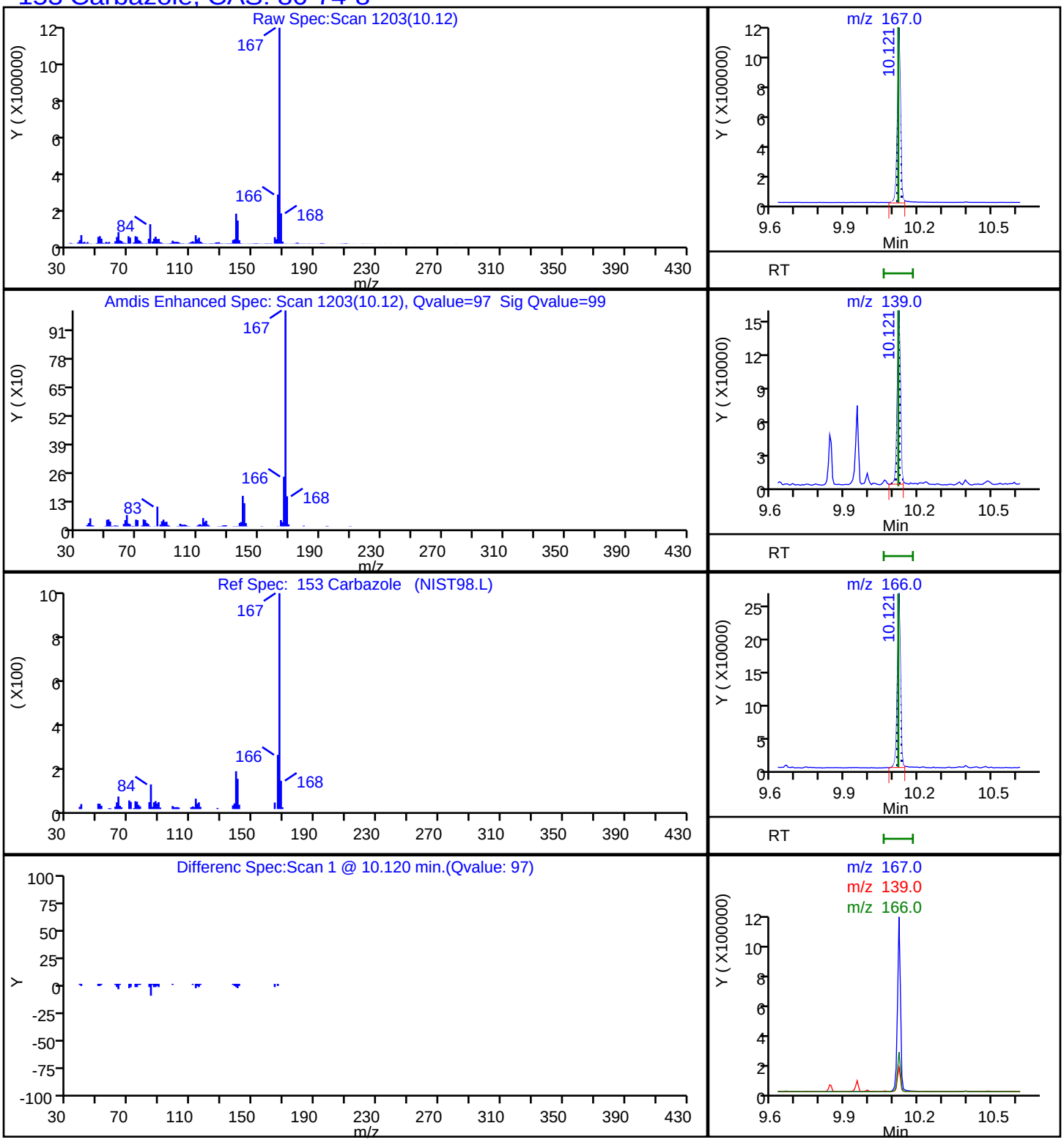
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

153 Carbazole, CAS: 86-74-8



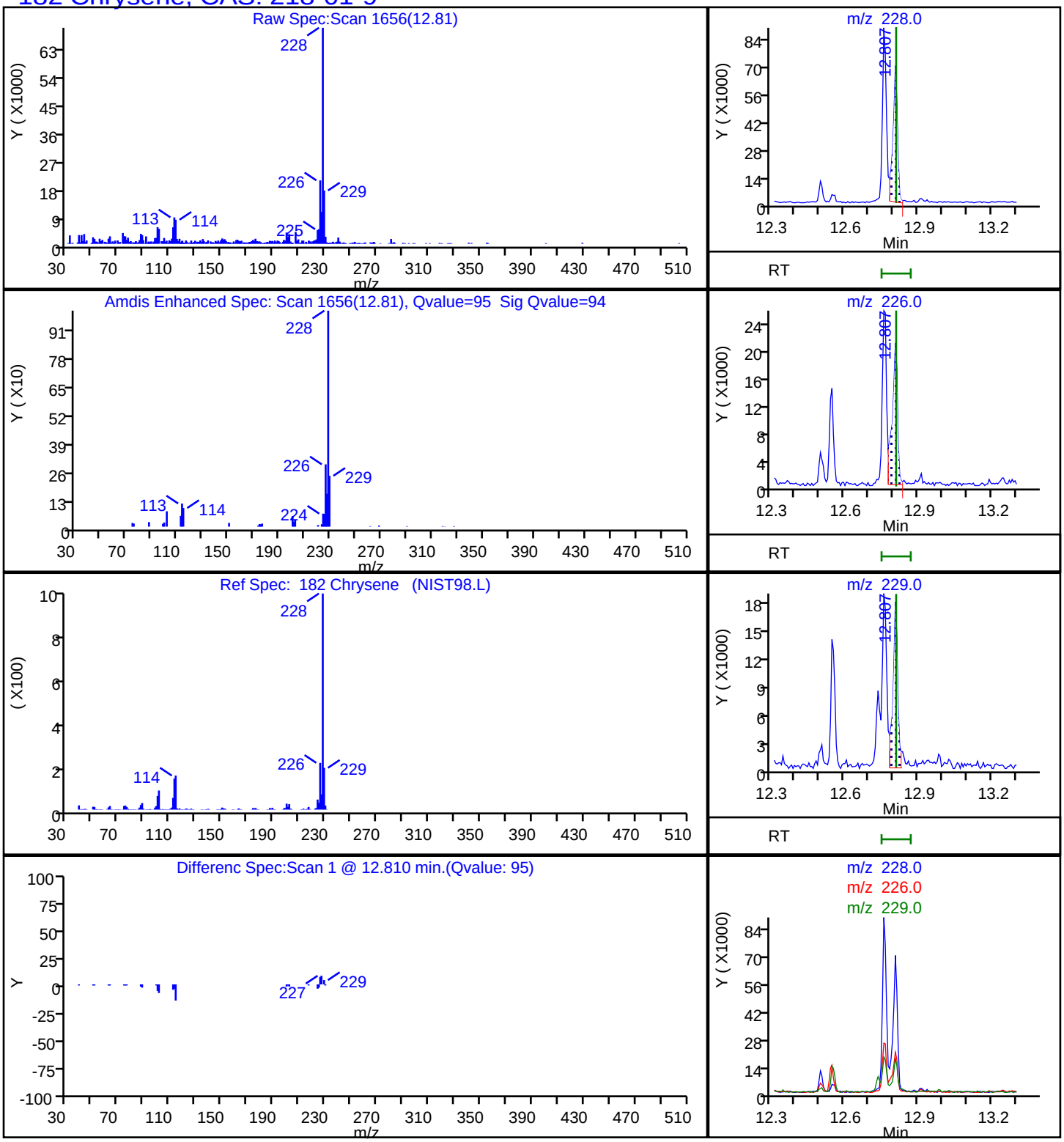
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

182 Chrysene, CAS: 218-01-9



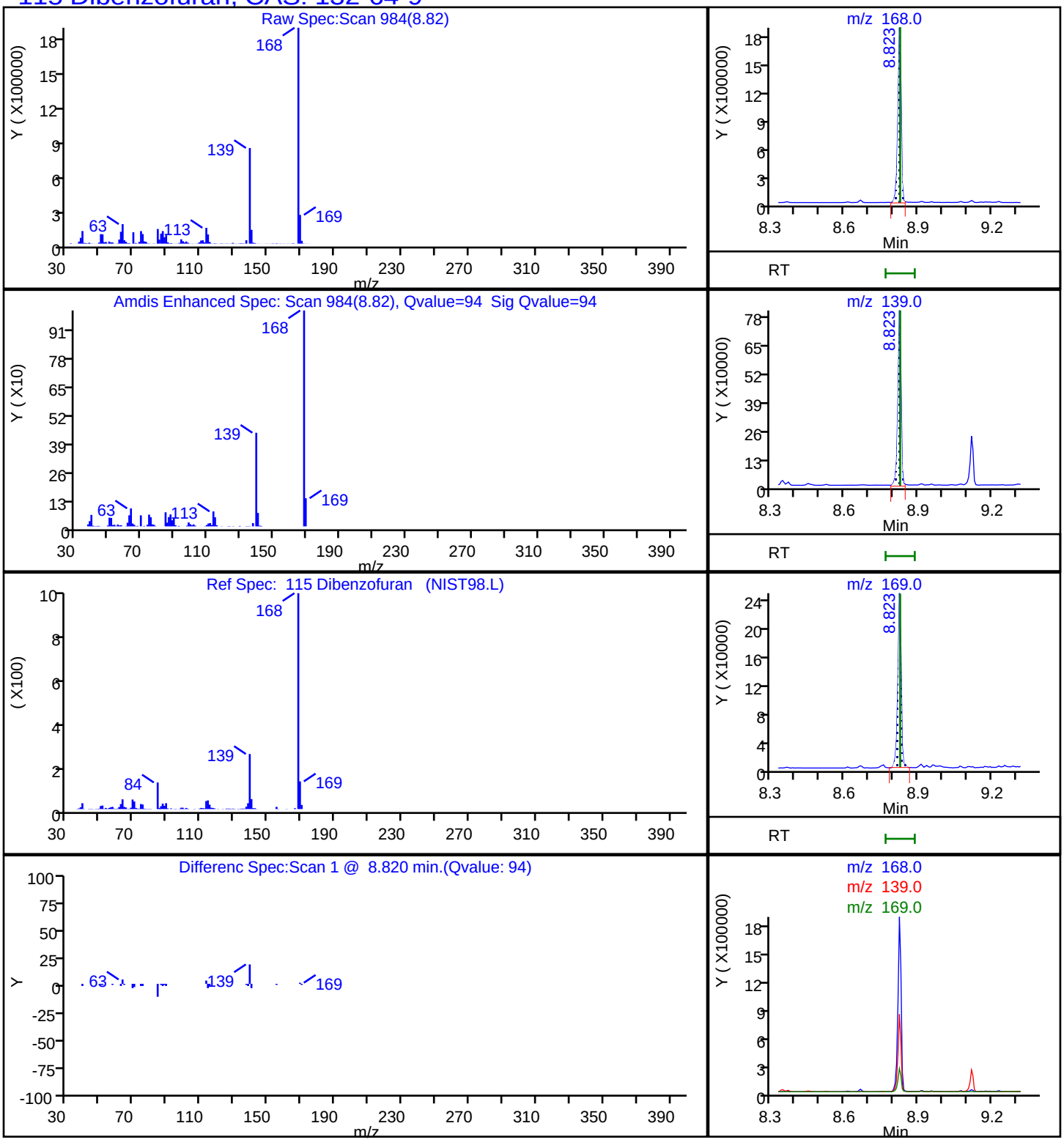
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

115 Dibenzofuran, CAS: 132-64-9



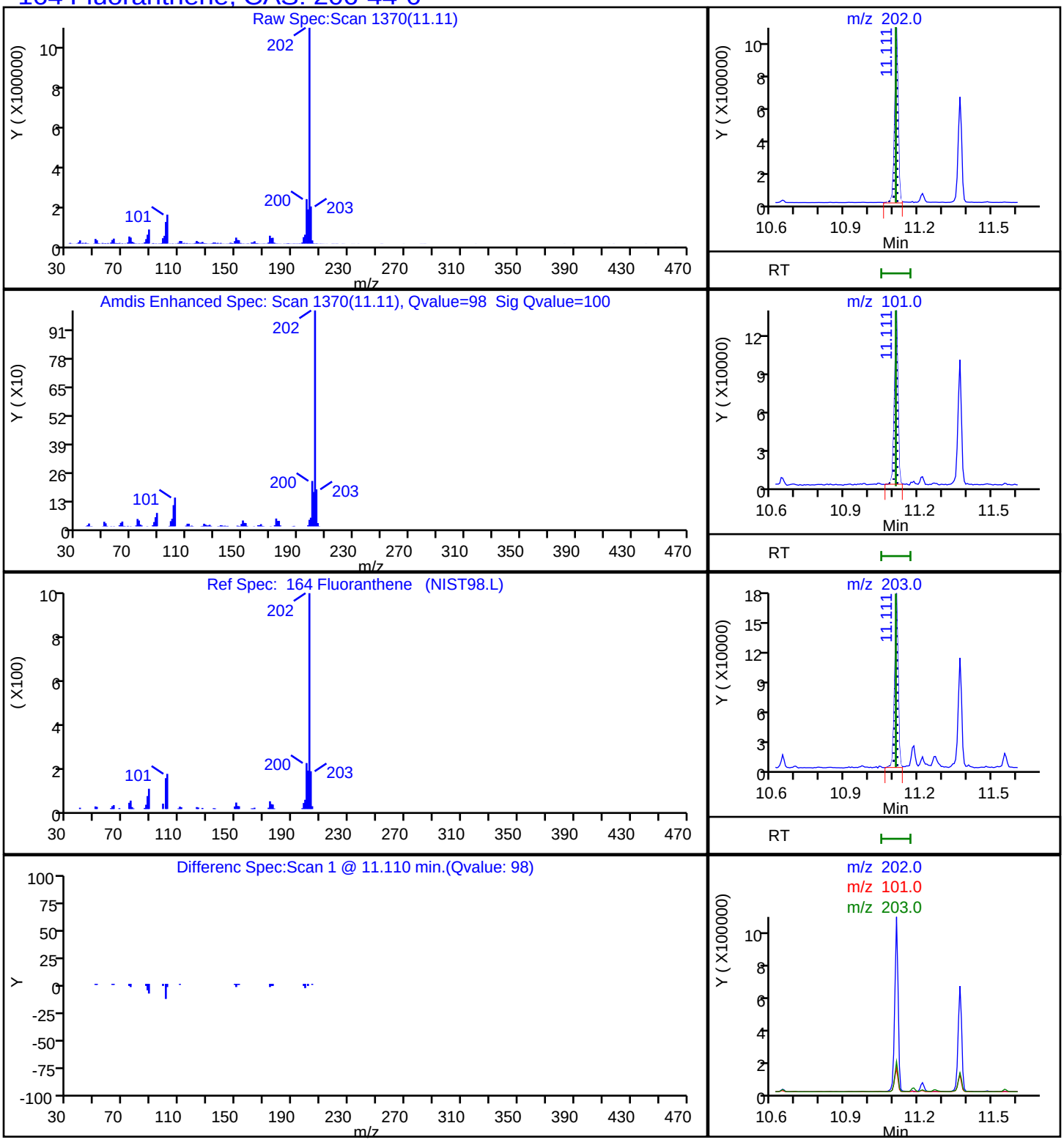
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

164 Fluoranthene, CAS: 206-44-0

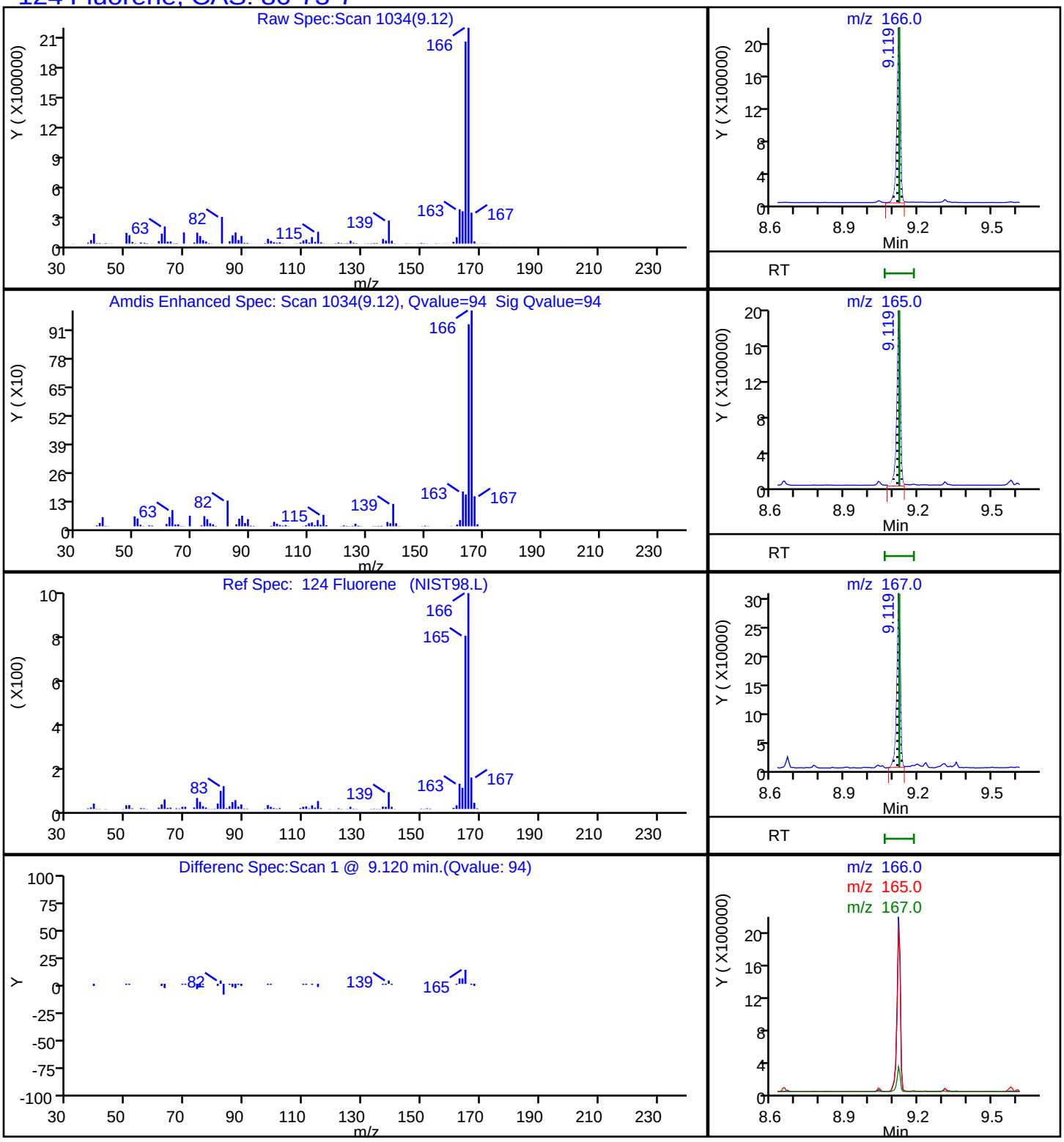


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

124 Fluorene, CAS: 86-73-7



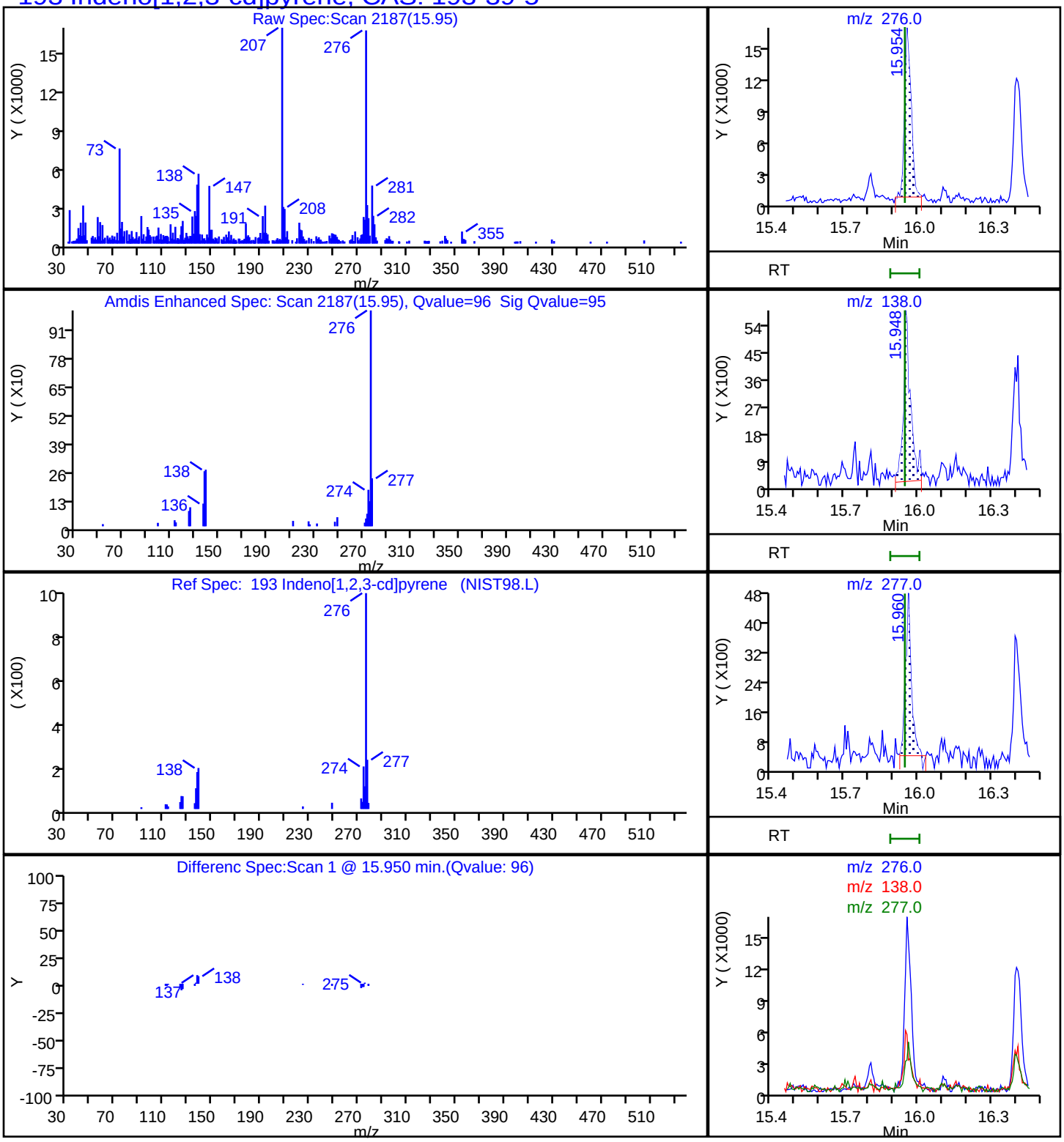
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

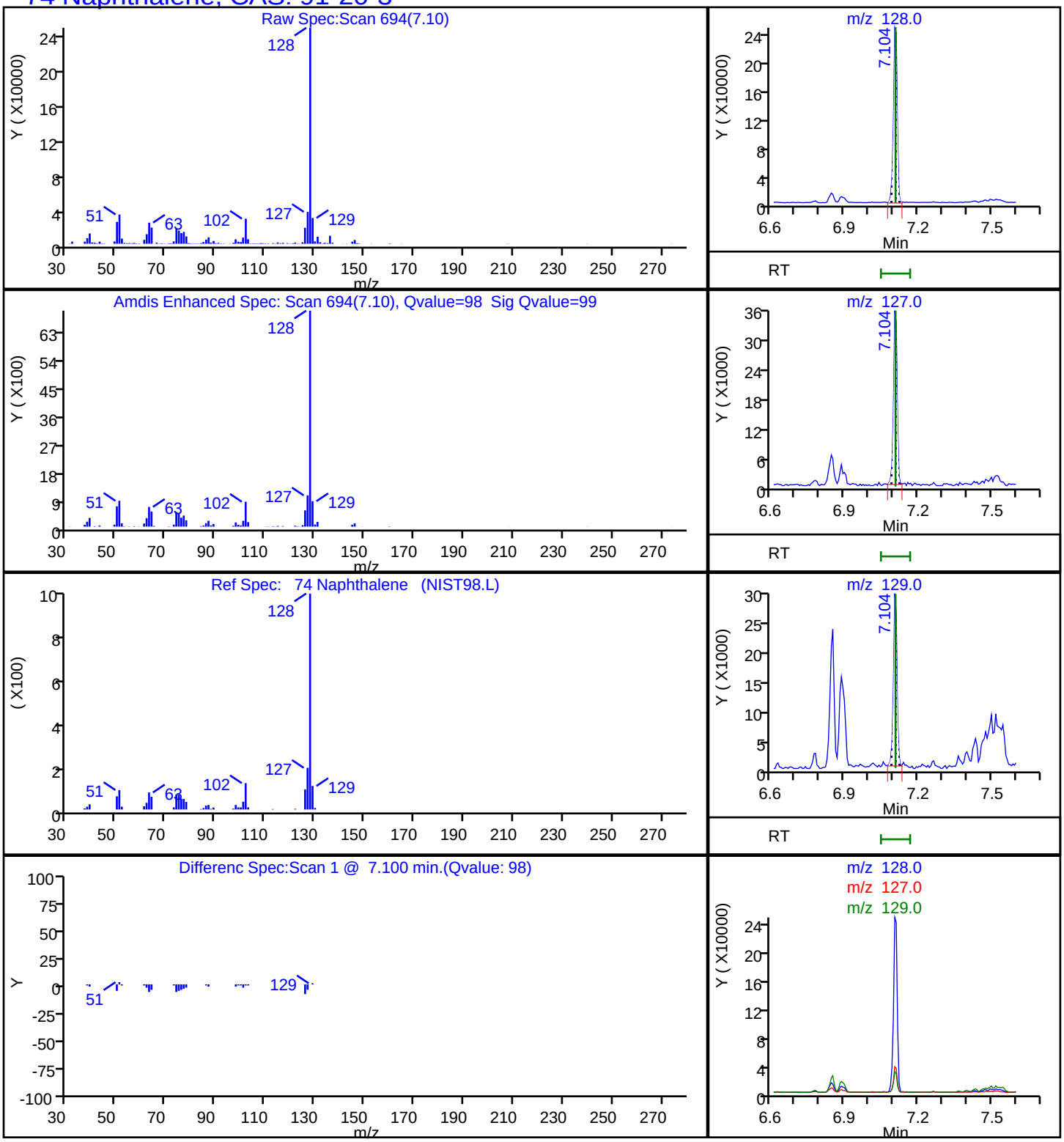


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

74 Naphthalene, CAS: 91-20-3



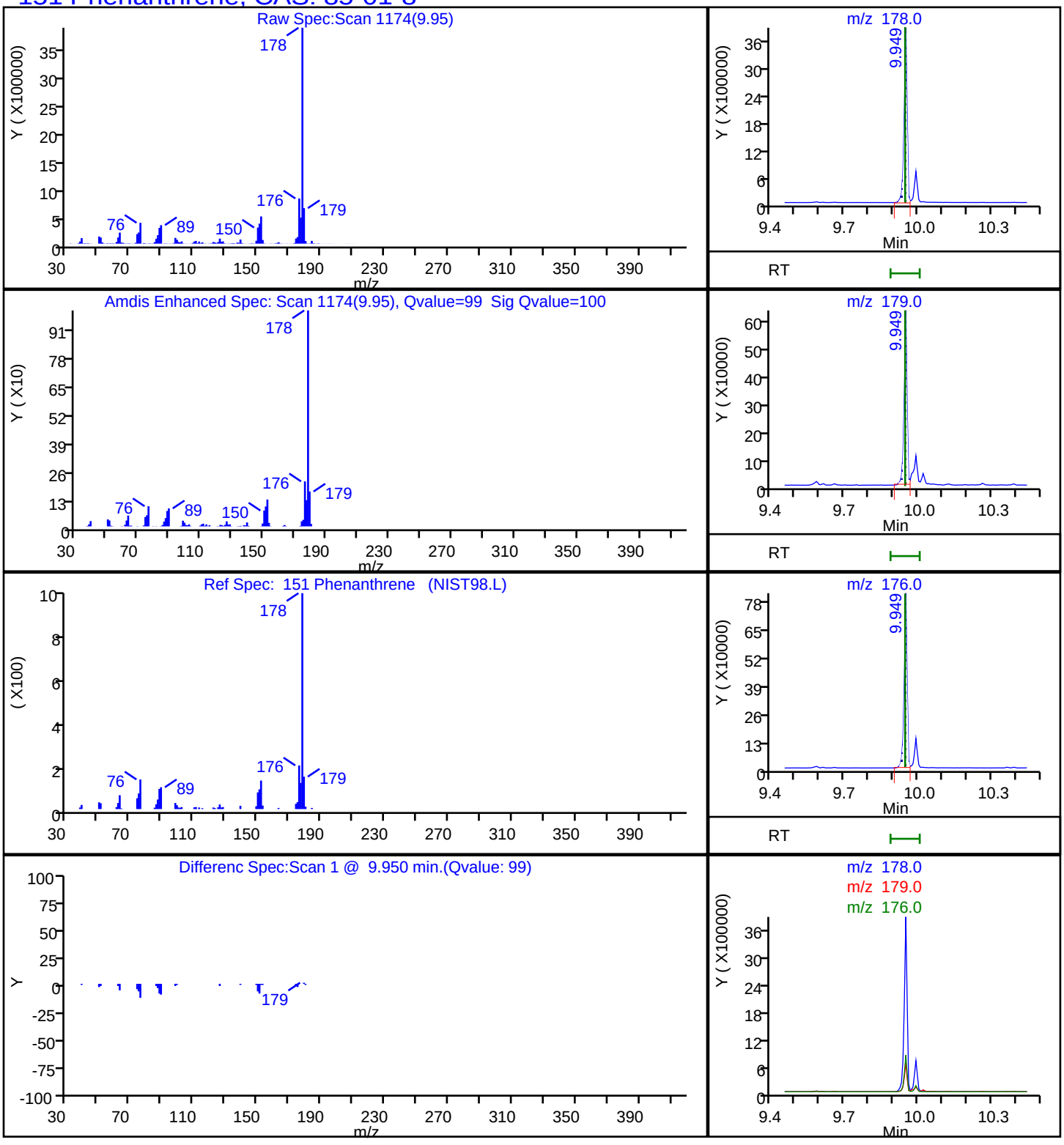
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

151 Phenanthrene, CAS: 85-01-8



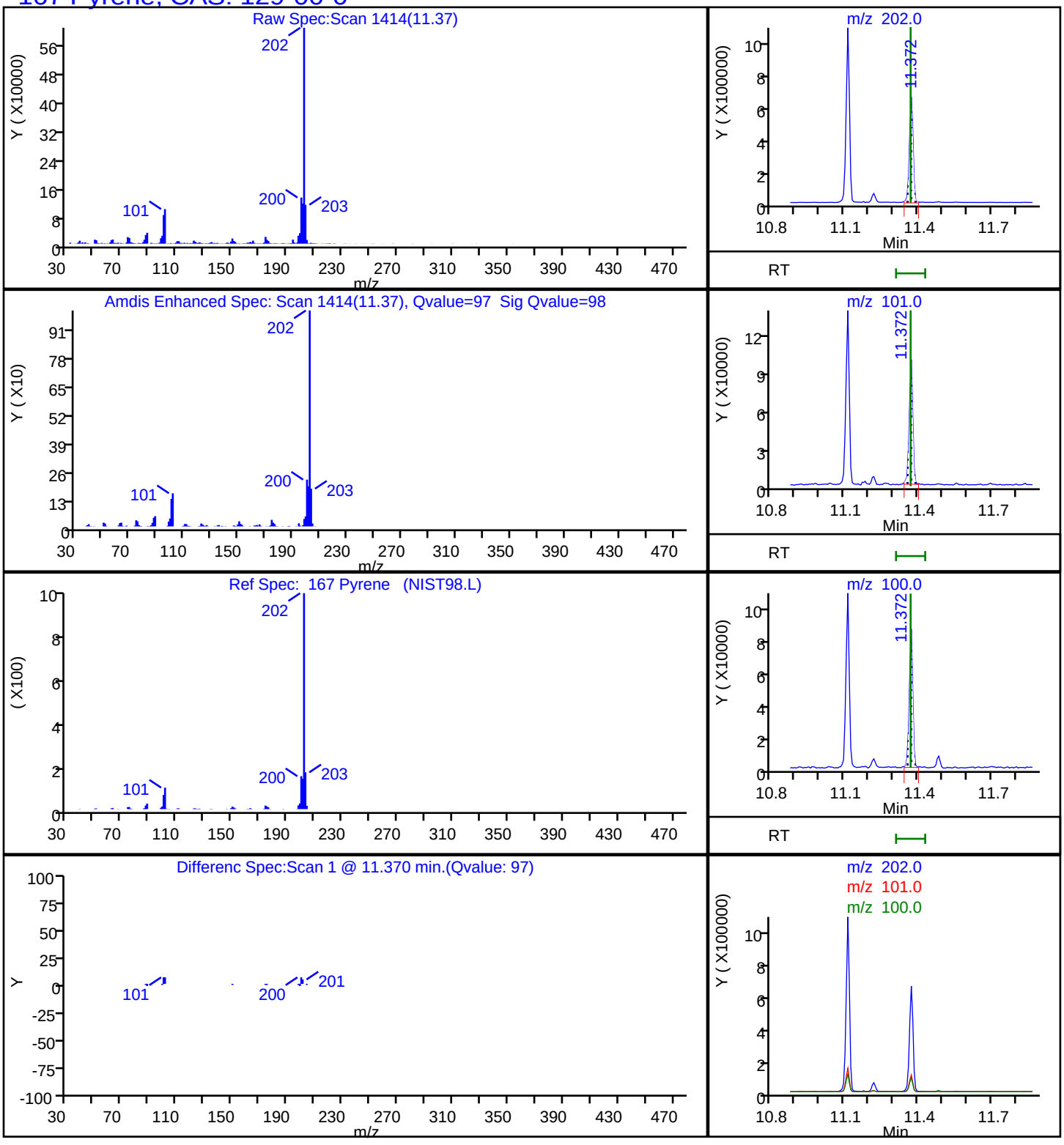
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

167 Pyrene, CAS: 129-00-0



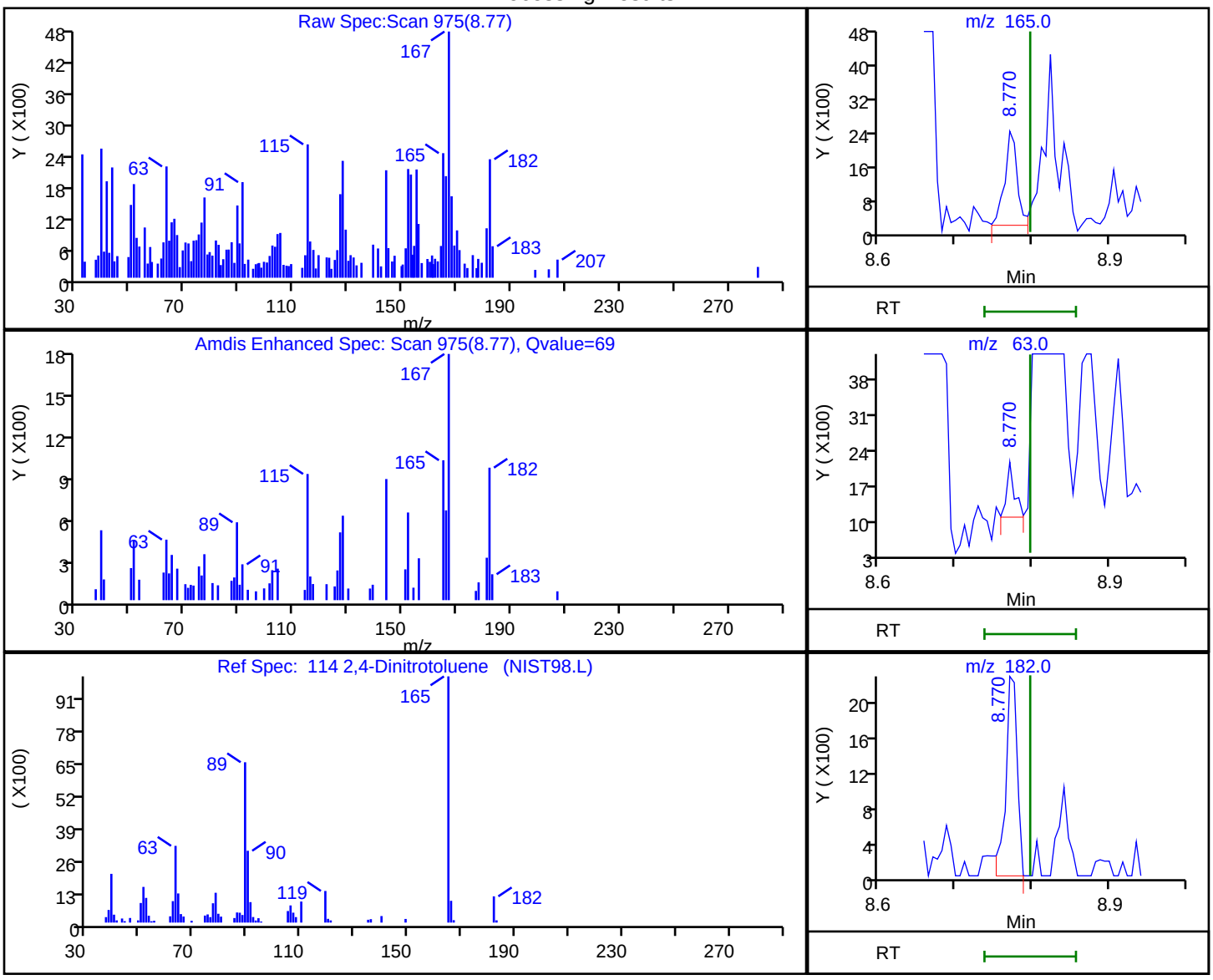
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

114 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
8.77	165.00	2509	0.195132
8.77	63.00	721	
8.77	182.00	2367	

Reviewer: IZ8L, 30-Oct-2024 15:14:08 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

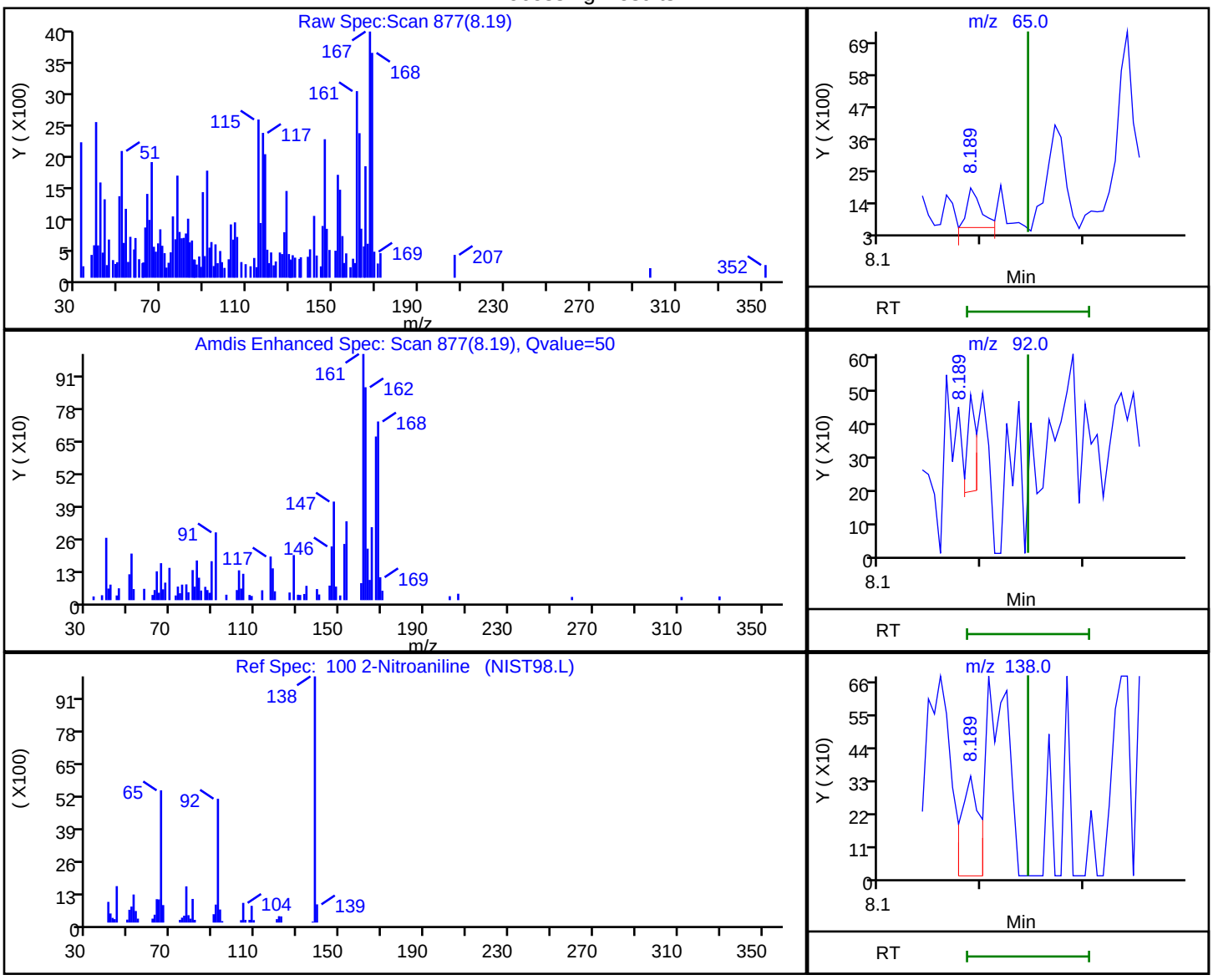
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

100 2-Nitroaniline, CAS: 88-74-4

Processing Results



RT	Mass	Response	Amount
8.19	65.00	1344	0.164287
8.19	92.00	181	
8.19	138.00	417	

Reviewer: IZ8L, 30-Oct-2024 15:14:04 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

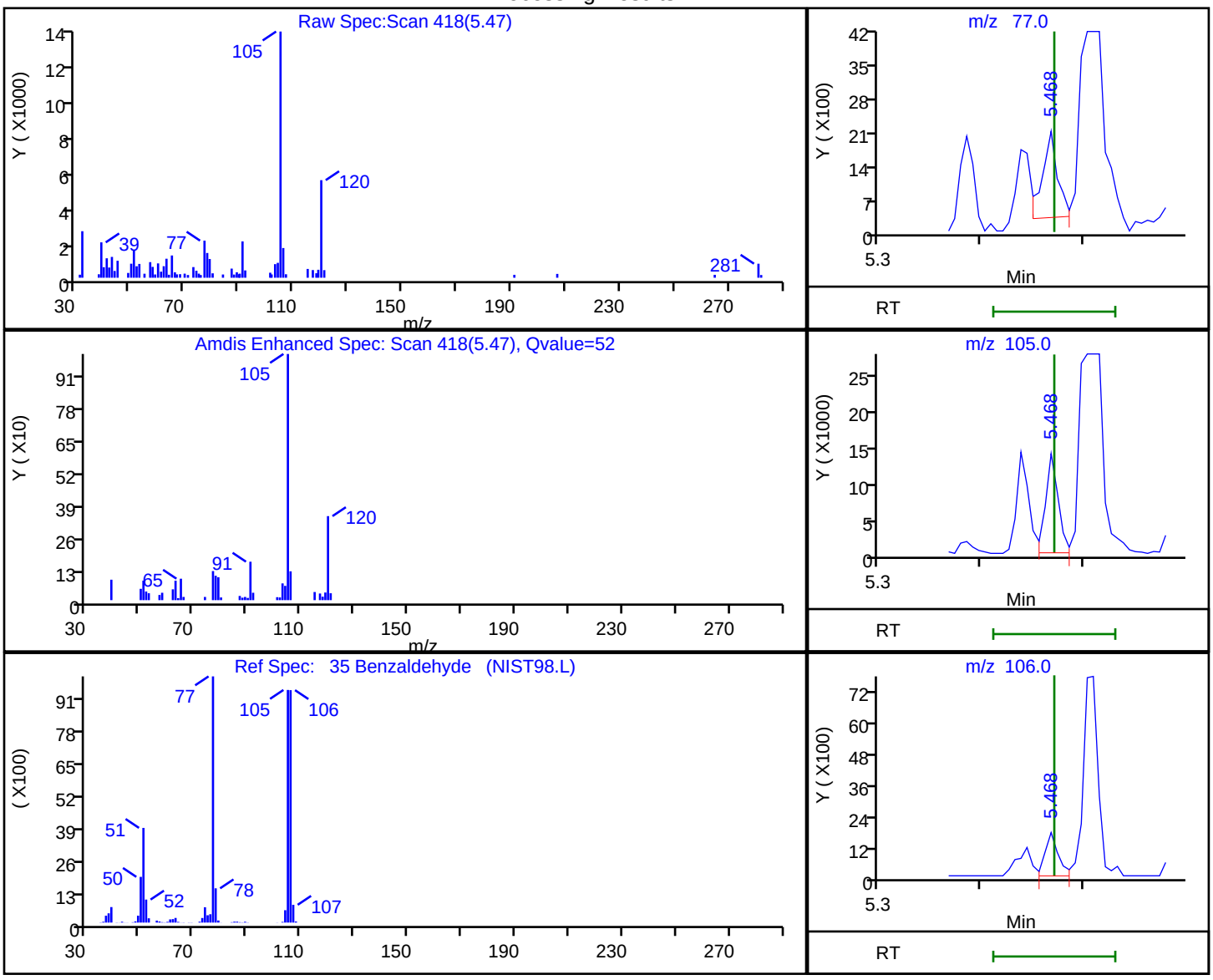
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

35 Benzaldehyde, CAS: 100-52-7

Processing Results



RT	Mass	Response	Amount
5.47	77.00	1891	-0.073578
5.47	105.00	12212	
5.47	106.00	1527	

Reviewer: IZ8L, 30-Oct-2024 15:13:51 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

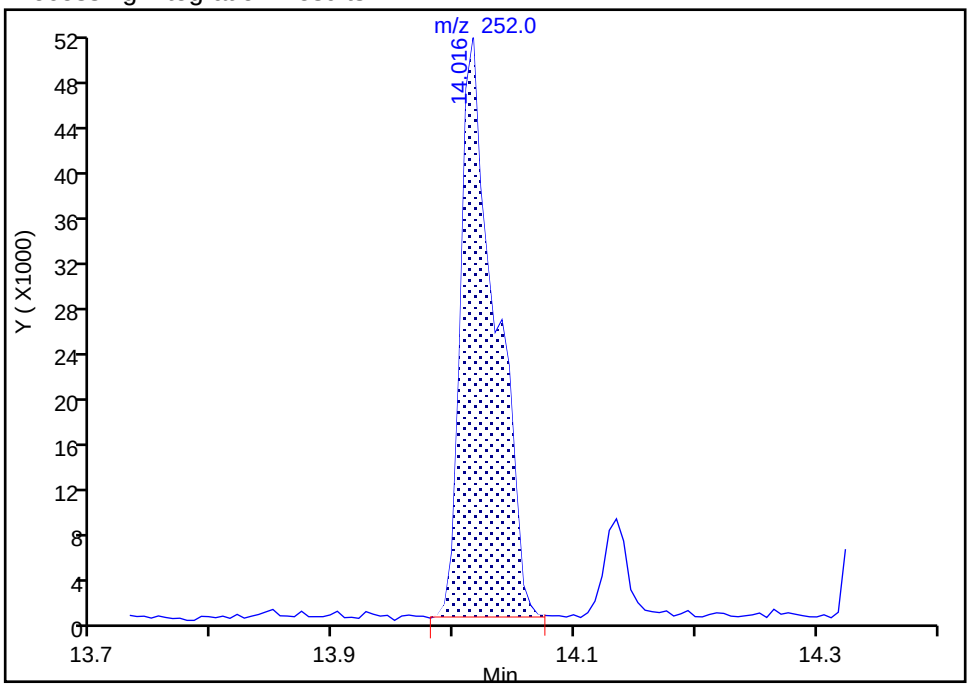
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

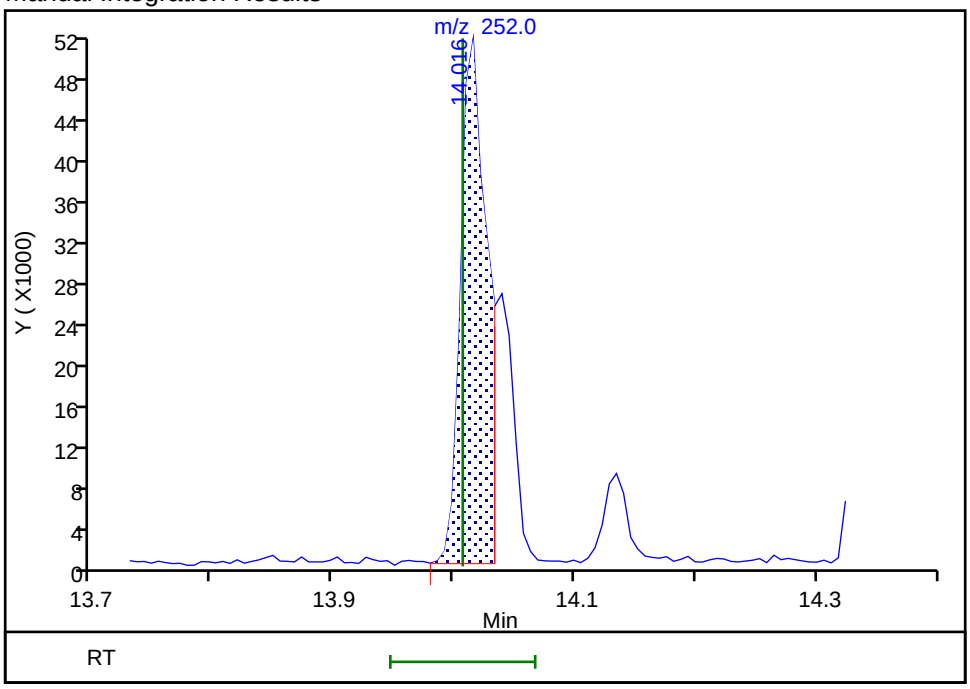
Processing Integration Results

RT: 14.02
Area: 102743
Amount: 0.576754
Amount Units: ng/uL



Manual Integration Results

RT: 14.02
Area: 79502
Amount: 0.450621
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:14:30 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

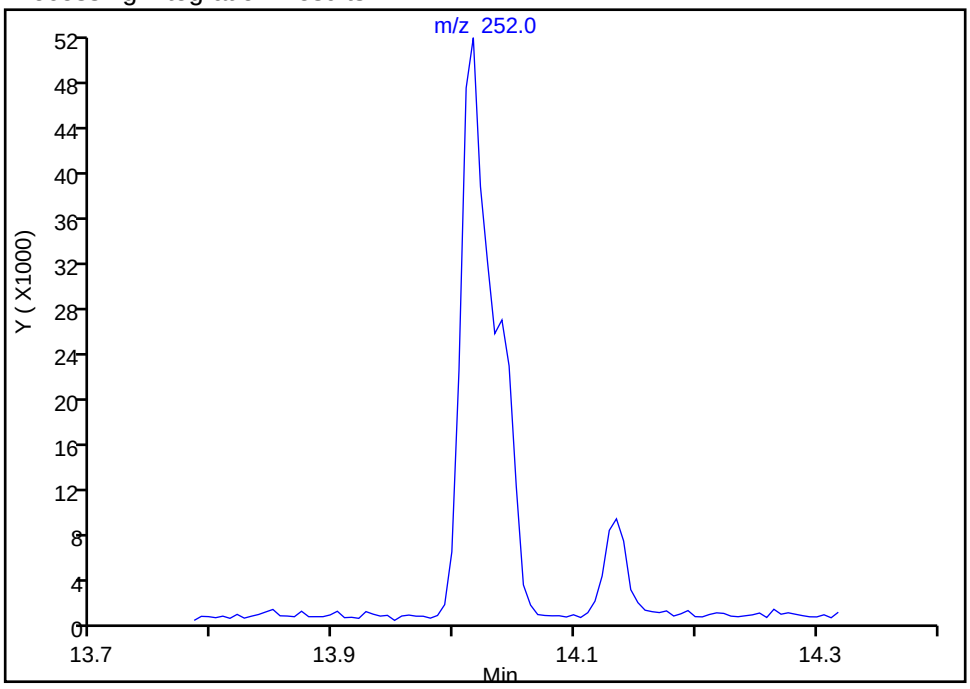
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

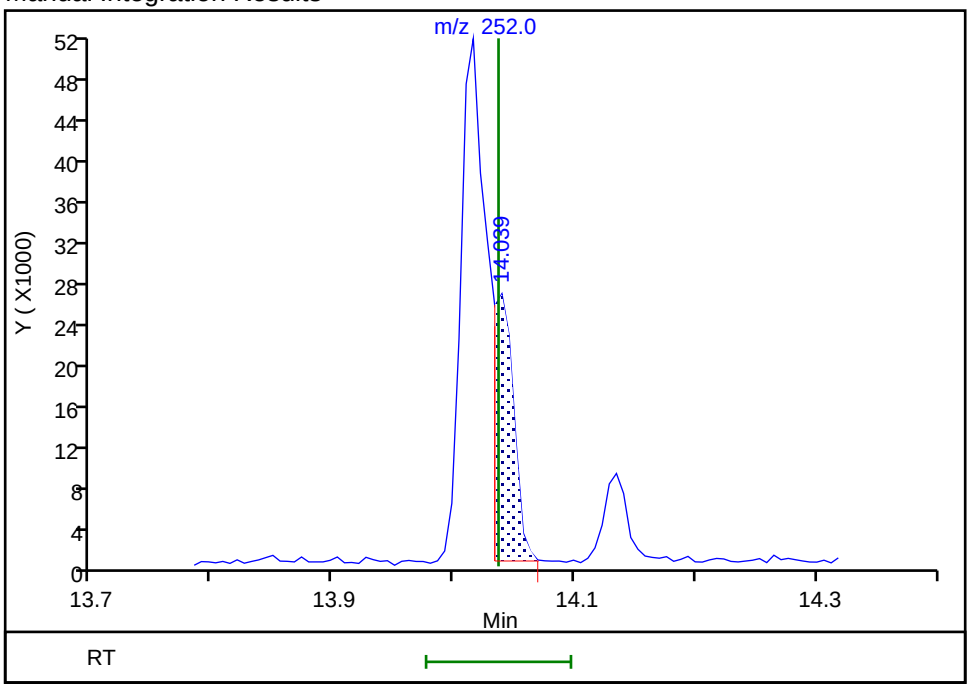
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 31619
Amount: 0.171416
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:14:38 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

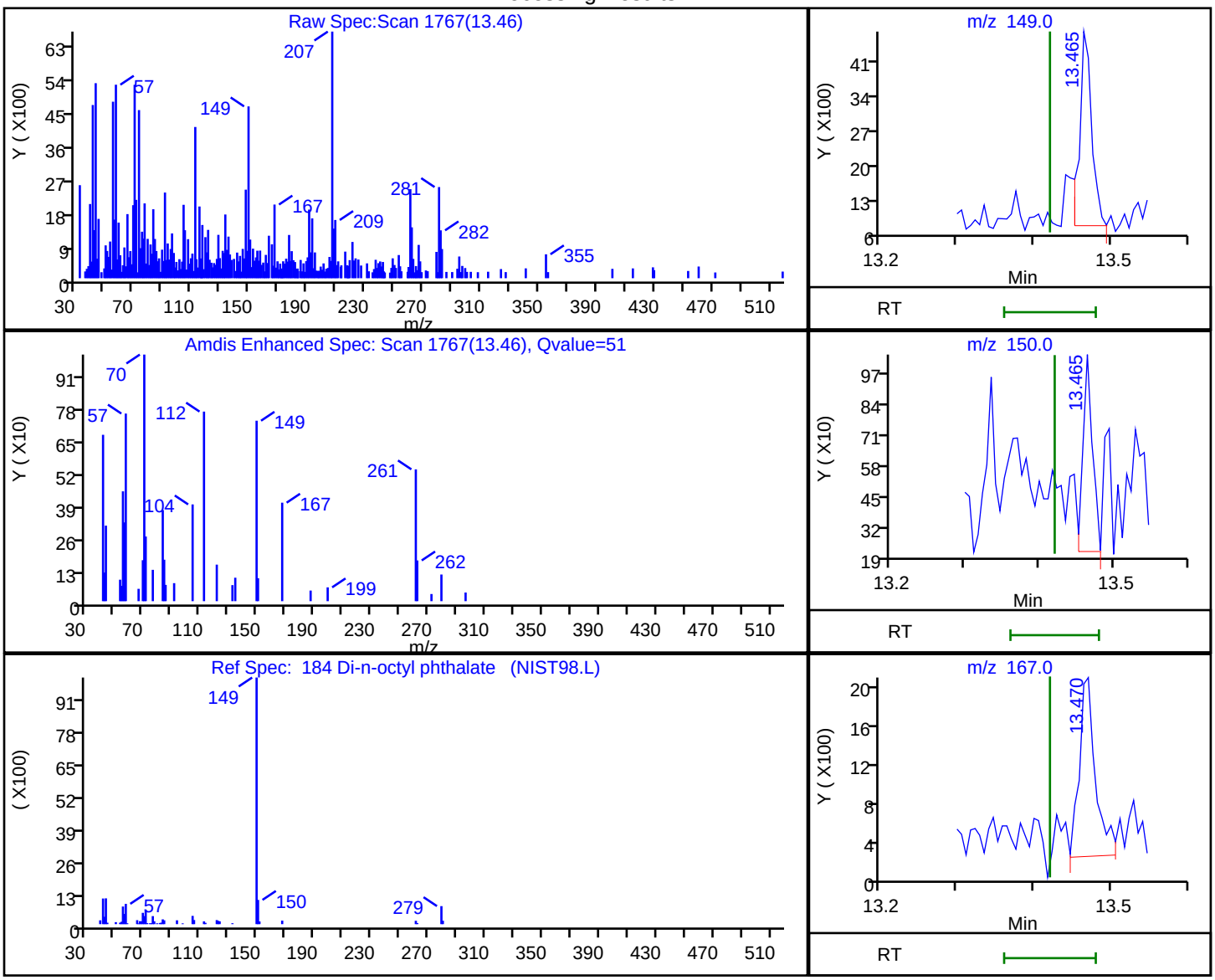
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

184 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
13.46	149.00	4194	0.101032
13.46	150.00	737	
13.47	167.00	2732	

Reviewer: IZ8L, 30-Oct-2024 15:14:23 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

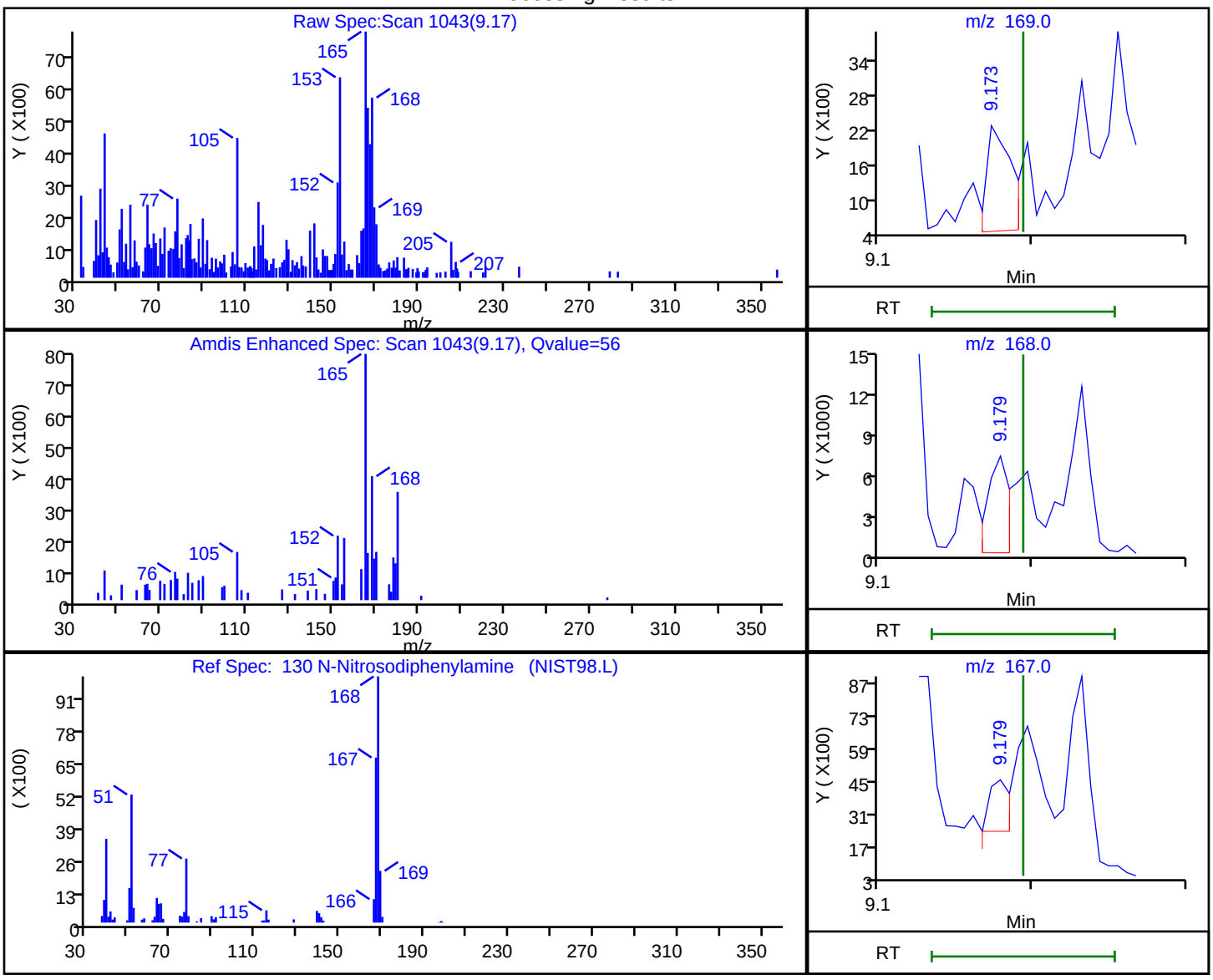
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

130 N-Nitrosodiphenylamine, CAS: 86-30-6

Processing Results



RT	Mass	Response	Amount
9.17	169.00	2030	0.024671
9.18	168.00	6468	
9.18	167.00	2068	

Reviewer: IZ8L, 30-Oct-2024 15:14:13 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

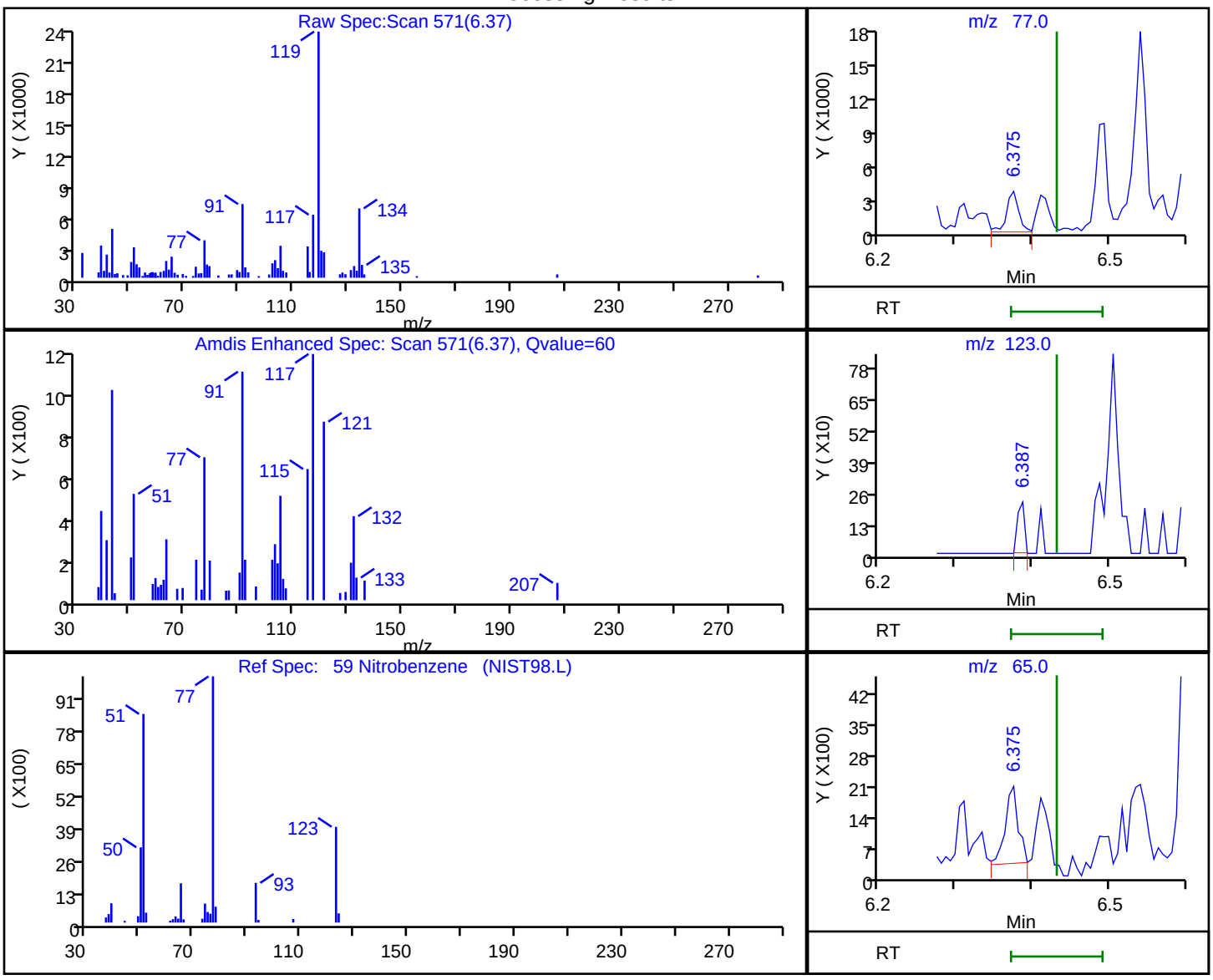
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

59 Nitrobenzene, CAS: 98-95-3

Processing Results



RT	Mass	Response	Amount
6.37	77.00	3590	0.063224
6.39	123.00	138	
6.37	65.00	2069	

Reviewer: IZ8L, 30-Oct-2024 15:13:56 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 DL | Lab Sample ID: 480-224869-13 DL

Matrix: Water | Lab File ID: Y04606.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:55

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 12:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	13	J	25	3.3
108-60-1	bis (2-chloroisopropyl) ether	ND		25	2.6
95-95-4	2,4,5-Trichlorophenol	ND		25	2.4
88-06-2	2,4,6-Trichlorophenol	ND		25	3.1
120-83-2	2,4-Dichlorophenol	ND		25	2.6
105-67-9	2,4-Dimethylphenol	ND		25	2.5
51-28-5	2,4-Dinitrophenol	ND		50	11
121-14-2	2,4-Dinitrotoluene	ND		25	2.2
606-20-2	2,6-Dinitrotoluene	ND		25	2.0
91-58-7	2-Chloronaphthalene	ND		25	2.3
95-57-8	2-Chlorophenol	ND		25	2.7
91-57-6	2-Methylnaphthalene	ND		25	3.0
95-48-7	2-Methylphenol	ND		25	2.0
88-74-4	2-Nitroaniline	ND		50	2.1
88-75-5	2-Nitrophenol	ND		25	2.4
91-94-1	3,3'-Dichlorobenzidine	ND		25	2.0
99-09-2	3-Nitroaniline	ND		50	2.4
534-52-1	4,6-Dinitro-2-methylphenol	ND		50	11
101-55-3	4-Bromophenyl phenyl ether	ND		25	2.3
59-50-7	4-Chloro-3-methylphenol	ND		25	2.3
106-47-8	4-Chloroaniline	ND		25	3.0
7005-72-3	4-Chlorophenyl phenyl ether	ND		25	1.8
106-44-5	4-Methylphenol	ND		50	1.8
100-01-6	4-Nitroaniline	ND		50	1.3
100-02-7	4-Nitrophenol	ND	*+	50	7.6
83-32-9	Acenaphthene	8.8	J	25	2.1
208-96-8	Acenaphthylene	49		25	1.9
98-86-2	Acetophenone	ND		25	2.7
120-12-7	Anthracene	14	J	25	1.4
1912-24-9	Atrazine	ND		25	2.3
100-52-7	Benzaldehyde	ND		25	1.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 DL | Lab Sample ID: 480-224869-13 DL

Matrix: Water | Lab File ID: Y04606.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:55

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 12:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	2.5	J	25	1.8
50-32-8	Benzo(a)pyrene	ND		25	2.4
205-99-2	Benzo(b)fluoranthene	2.2	J	25	1.7
191-24-2	Benzo(g,h,i)perylene	ND		25	1.8
207-08-9	Benzo(k)fluoranthene	ND		25	3.7
111-91-1	Bis(2-chloroethoxy)methane	ND		25	1.8
111-44-4	Bis(2-chloroethyl)ether	ND		25	2.0
117-81-7	Bis(2-ethylhexyl) phthalate	ND		25	11
85-68-7	Butyl benzyl phthalate	ND		25	5.0
105-60-2	Caprolactam	ND		25	11
86-74-8	Carbazole	26		25	1.5
218-01-9	Chrysene	2.5	J	25	1.7
84-74-2	Di-n-butyl phthalate	ND		25	1.6
117-84-0	Di-n-octyl phthalate	ND		25	2.4
53-70-3	Dibenz(a,h)anthracene	ND		25	2.1
132-64-9	Dibenzofuran	45	J	50	2.6
84-66-2	Diethyl phthalate	ND		25	1.1
131-11-3	Dimethyl phthalate	ND		25	1.8
206-44-0	Fluoranthene	23	J	25	2.0
86-73-7	Fluorene	63		25	1.8
118-74-1	Hexachlorobenzene	ND		25	2.6
87-68-3	Hexachlorobutadiene	ND		25	3.4
77-47-4	Hexachlorocyclopentadiene	ND		25	3.0
67-72-1	Hexachloroethane	ND		25	3.0
193-39-5	Indeno(1,2,3-cd)pyrene	ND		25	2.4
78-59-1	Isophorone	ND		25	2.2
621-64-7	N-Nitrosodi-n-propylamine	ND		25	2.7
86-30-6	N-Nitrosodiphenylamine	ND		25	2.6
91-20-3	Naphthalene	6.6	J	25	3.8
98-95-3	Nitrobenzene	ND		25	1.5
87-86-5	Pentachlorophenol	ND		50	11

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 DL | Lab Sample ID: 480-224869-13 DL

Matrix: Water | Lab File ID: Y04606.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:55

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 12:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	79		25	2.2
108-95-2	*Phenol*	*ND*		*25*	*2.0*
129-00-0	*Pyrene*	*15*	*J*	*25*	*1.7*

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	83		25-144
321-60-8	2-Fluorobiphenyl	86		53-126
367-12-4	2-Fluorophenol	67		24-120
4165-60-0	Nitrobenzene-d5	94		29-129
1718-51-0	p-Terphenyl-d14	69		33-132
4165-62-2	Phenol-d5	49		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D
Lims ID: 480-224869-A-13-A
Client ID: MW-BCP-19B-10252024
Sample Type: Client
Inject. Date: 30-Oct-2024 12:07:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Sample Info: 480-0120914-007
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:01:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.885	5.883	0.002	96	152701	4.00	
* 2 Naphthalene-d8	136	7.089	7.086	0.003	99	578547	4.00	
* 3 Acenaphthene-d10	164	8.648	8.651	-0.003	94	328376	4.00	
* 4 Phenanthrene-d10	188	9.922	9.926	-0.004	97	513338	4.00	
* 5 Chrysene-d12	240	12.773	12.777	-0.004	99	456316	4.00	
* 6 Perylene-d12	264	14.463	14.460	0.003	97	509986	4.00	
$ 7 2-Fluorophenol	112	4.652	4.638	0.014	93	50813	1.08	
$ 8 Phenol-d5	99	5.530	5.521	0.009	87	45661	0.7855	
$ 9 Nitrobenzene-d5	82	6.413	6.410	0.003	98	81193	1.50	
$ 10 2-Fluorobiphenyl	172	8.037	8.035	0.002	99	155271	1.38	
$ 11 2,4,6-Tribromophenol	330	9.329	9.327	0.002	79	15142	1.33	
$ 12 p-Terphenyl-d14	244	11.481	11.485	-0.004	97	136125	1.10	
35 Benzaldehyde	77		5.474				ND	U
37 Phenol	94		5.533				ND	
39 Bis(2-chloroethyl)ether	93		5.604				ND	
40 2-Chlorophenol	128		5.699				ND	
48 2-Methylphenol	108		6.108				ND	
49 2,2'-oxybis[1-chloropropane]	45		6.120				ND	
53 N-Nitrosodi-n-propylamine	70		6.244				ND	
57 4-Methylphenol	108	6.265	6.256	0.009	75	1565	0.0336	
52 Acetophenone	105		6.262				ND	U
58 Hexachloroethane	117		6.375				ND	
59 Nitrobenzene	77		6.434				ND	
62 Isophorone	82		6.647				ND	
64 2-Nitrophenol	139		6.730				ND	
66 2,4-Dimethylphenol	107		6.748				ND	
69 Bis(2-chloroethoxy)methane	93		6.819				ND	
72 2,4-Dichlorophenol	162		6.962				ND	
74 Naphthalene	128	7.107	7.110	-0.003	97	50712	0.3318	
76 4-Chloroaniline	127		7.145				ND	
79 Hexachlorobutadiene	225		7.205				ND	
84 Caprolactam	113		7.466				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.578				ND	
87 2-Methylnaphthalene	142	7.729	7.726	0.003	82	4443	0.0471	
90 Hexachlorocyclopentadiene	237		7.869				ND	
93 2,4,6-Trichlorophenol	196		7.981				ND	
94 2,4,5-Trichlorophenol	196		8.023				ND	
96 1,1'-Biphenyl	154	8.132	8.129	0.003	97	81224	0.6742	
97 2-Chloronaphthalene	162		8.165				ND	
100 2-Nitroaniline	65		8.248				ND	
105 Dimethyl phthalate	163		8.372				ND	
107 2,6-Dinitrotoluene	165		8.438				ND	
108 Acenaphthylene	152	8.529	8.533	-0.003	98	357498	2.46	
109 3-Nitroaniline	138		8.598				ND	
110 Acenaphthene	153	8.677	8.681	-0.004	95	42752	0.4390	
111 2,4-Dinitrophenol	184		8.693				ND	
112 4-Nitrophenol	109		8.752				ND	
114 2,4-Dinitrotoluene	165		8.799				ND	U
115 Dibenzofuran	168	8.820	8.823	-0.003	95	293336	2.23	
120 Diethyl phthalate	149		8.965				ND	
123 4-Chlorophenyl phenyl ether	204		9.090				ND	
124 Fluorene	166	9.116	9.119	-0.003	94	348436	3.14	
126 4-Nitroaniline	138		9.131				ND	
127 4,6-Dinitro-2-methylphenol	198		9.155				ND	
130 N-Nitrosodiphenylamine	169		9.190				ND	
139 4-Bromophenyl phenyl ether	248		9.511				ND	
140 Hexachlorobenzene	284		9.605				ND	
143 Atrazine	200		9.617				ND	
145 Pentachlorophenol	266		9.765				ND	
151 Phenanthrene	178	9.946	9.943	0.003	98	557106	3.93	
152 Anthracene	178	9.987	9.991	-0.004	98	101182	0.7126	
153 Carbazole	167	10.118	10.121	-0.003	97	165684	1.31	
157 Di-n-butyl phthalate	149	10.355	10.358	-0.003	54	1296	0.007985	
164 Fluoranthene	202	11.108	11.111	-0.003	98	171639	1.14	
167 Pyrene	202	11.369	11.372	-0.003	97	111505	0.7297	
174 Butyl benzyl phthalate	149		12.006				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.664				ND	
179 3,3'-Dichlorobenzidine	252		12.700				ND	
180 Benzo[a]anthracene	228	12.762	12.765	-0.003	97	19650	0.1258	
182 Chrysene	228	12.803	12.806	-0.003	96	18030	0.1263	
184 Di-n-octyl phthalate	149		13.417				ND	
186 Benzo[b]fluoranthene	252	14.012	14.010	0.002	96	14945	0.1106	M
187 Benzo[k]fluoranthene	252	14.030	14.039	-0.009	1	8084	0.0494	Ma
189 Benzo[a]pyrene	252	14.404	14.395	0.009	75	10754	0.0963	
194 Dibenz(a,h)anthracene	278		15.936				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.948				ND	
195 Benzo[g,h,i]perylene	276	16.425	16.393	0.032	67	5749	0.0574	

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D
Lims ID: 480-224869-A-13-A
Client ID: MW-BCP-19B-10252024
Sample Type: Client
Inject. Date: 30-Oct-2024 12:07:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Sample Info: 480-0120914-007
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:01:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	1.08	67.50
$ 8 Phenol-d5	8.00	0.7855	49.10
$ 9 Nitrobenzene-d5	8.00	1.50	93.57
$ 10 2-Fluorobiphenyl	8.00	1.38	85.98
$ 11 2,4,6-Tribromophenol	8.00	1.33	83.21
$ 12 p-Terphenyl-d14	8.00	1.10	68.78

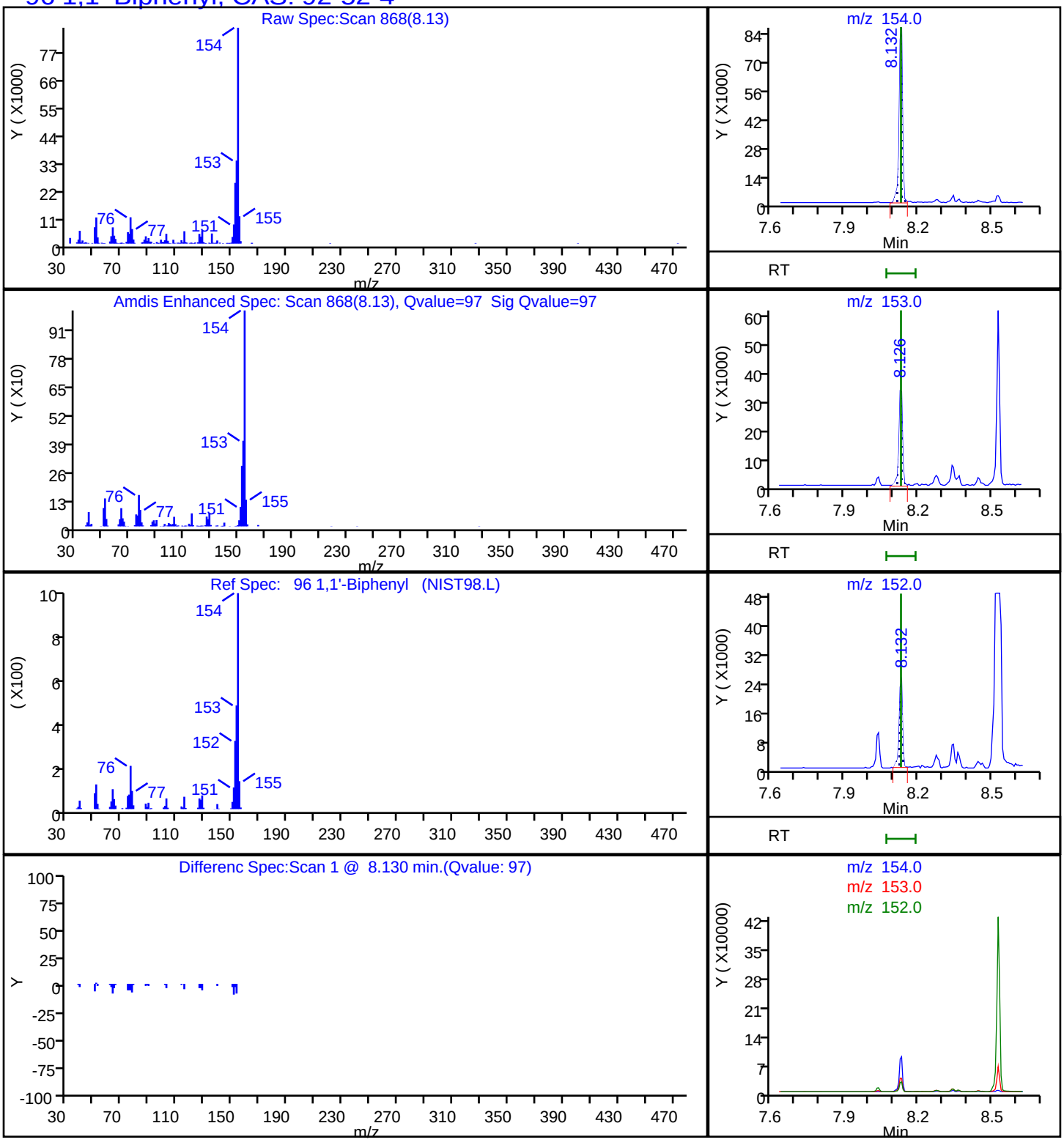
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

96 1,1'-Biphenyl, CAS: 92-52-4



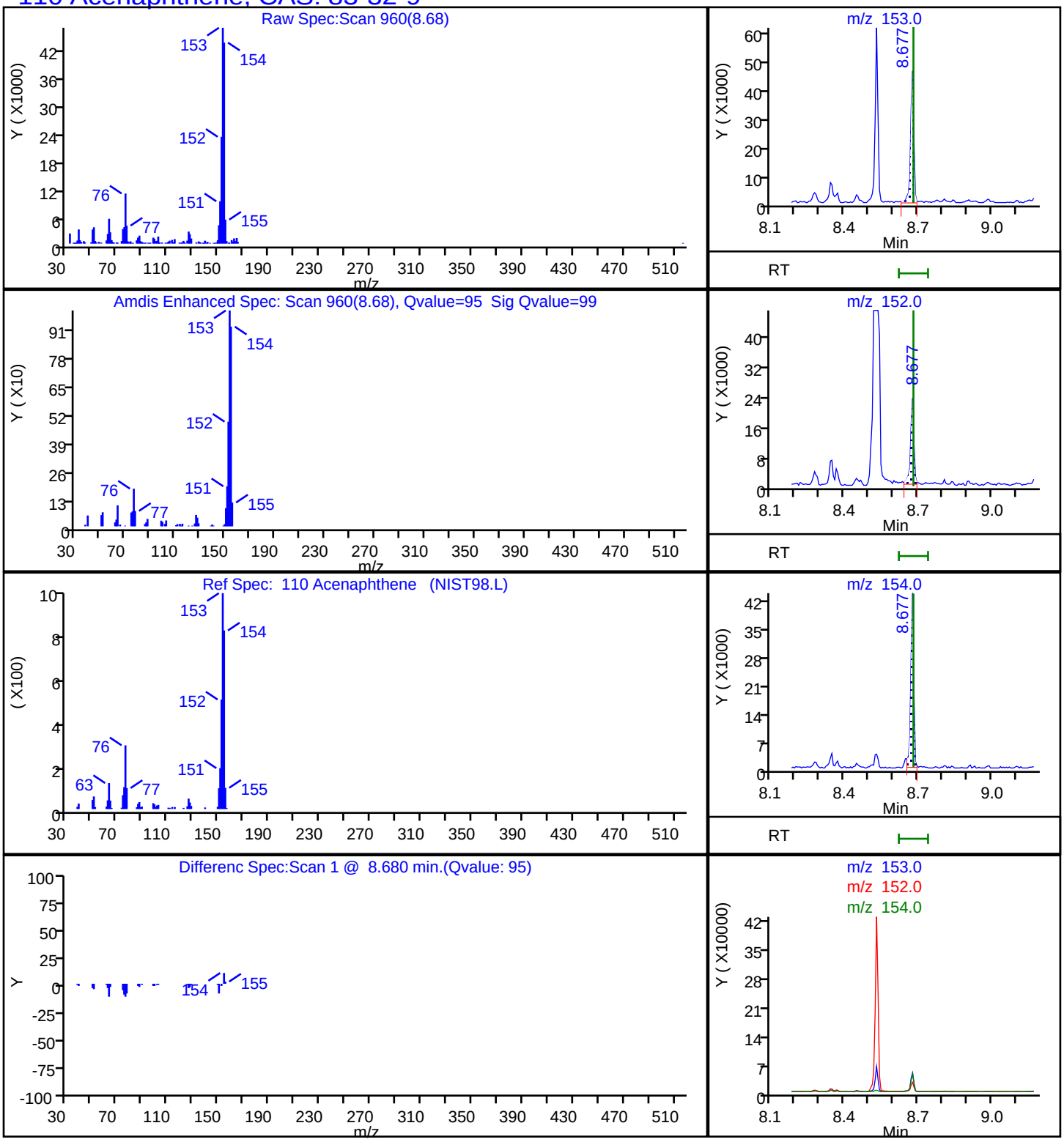
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

110 Acenaphthene, CAS: 83-32-9



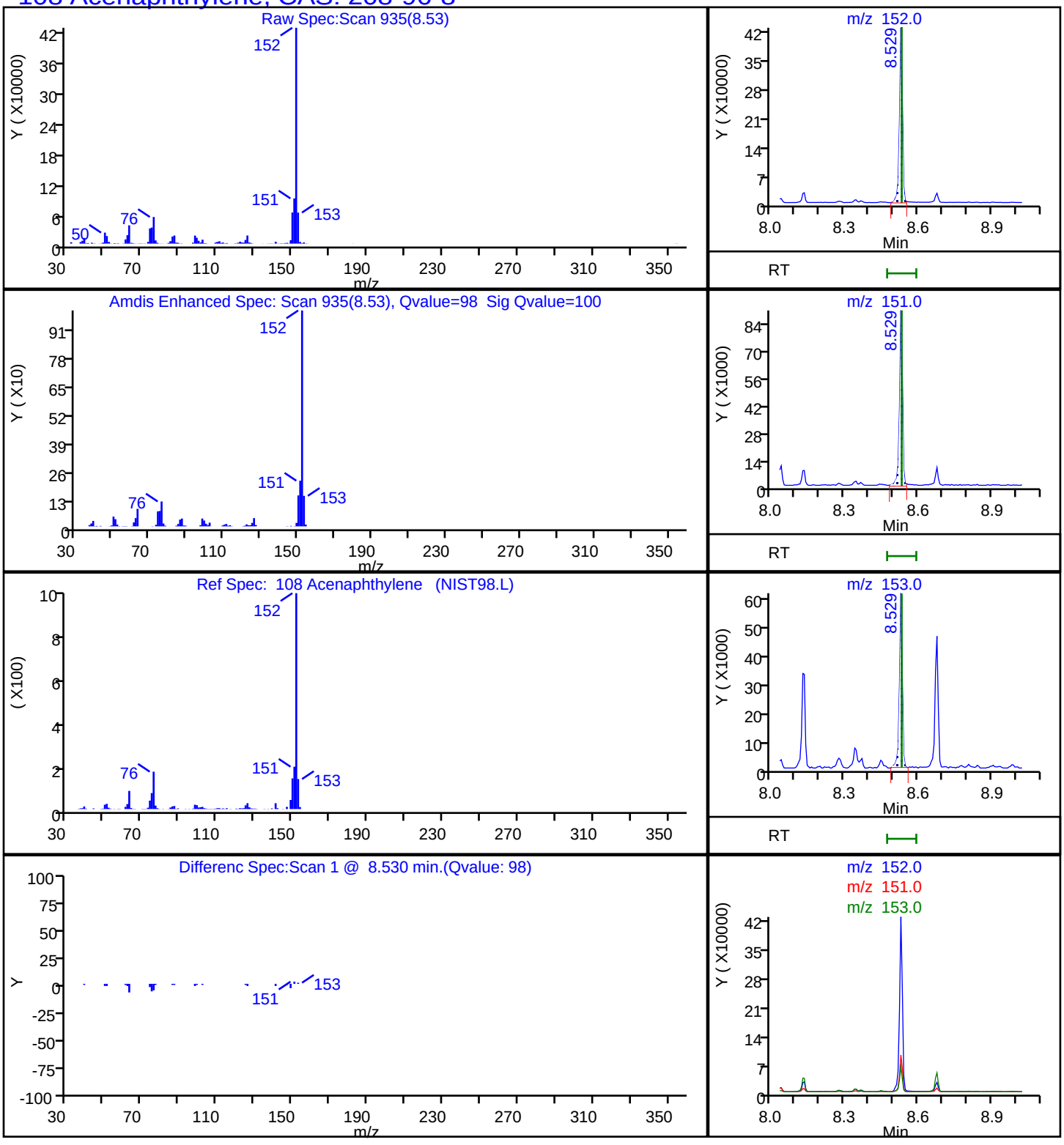
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

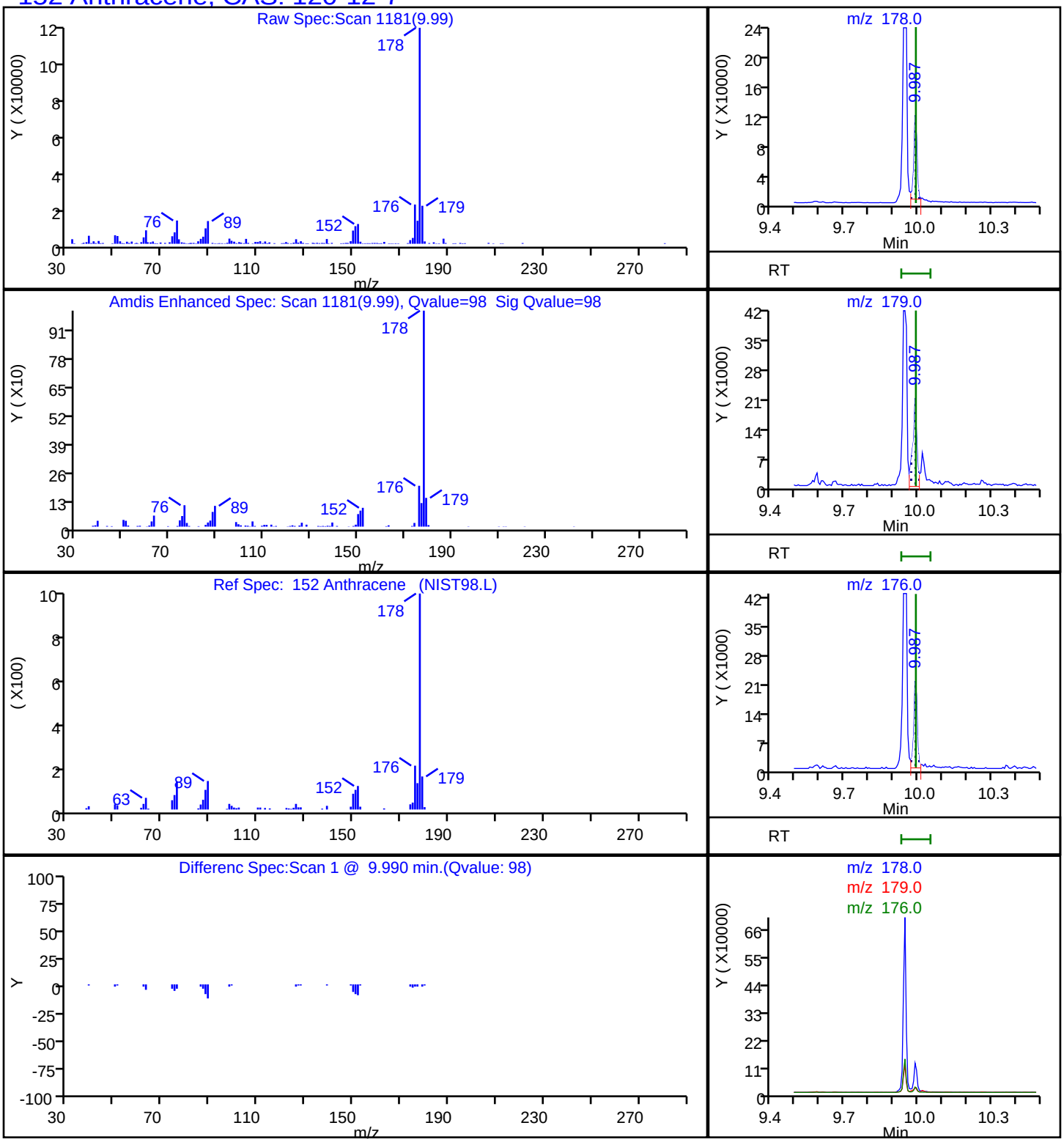
108 Acenaphthylene, CAS: 208-96-8



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D
Injection Date: 30-Oct-2024 12:07:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-13-A Lab Sample ID: 480-224869-13
Client ID: MW-BCP-19B-10252024
Operator ID: JM ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

152 Anthracene, CAS: 120-12-7



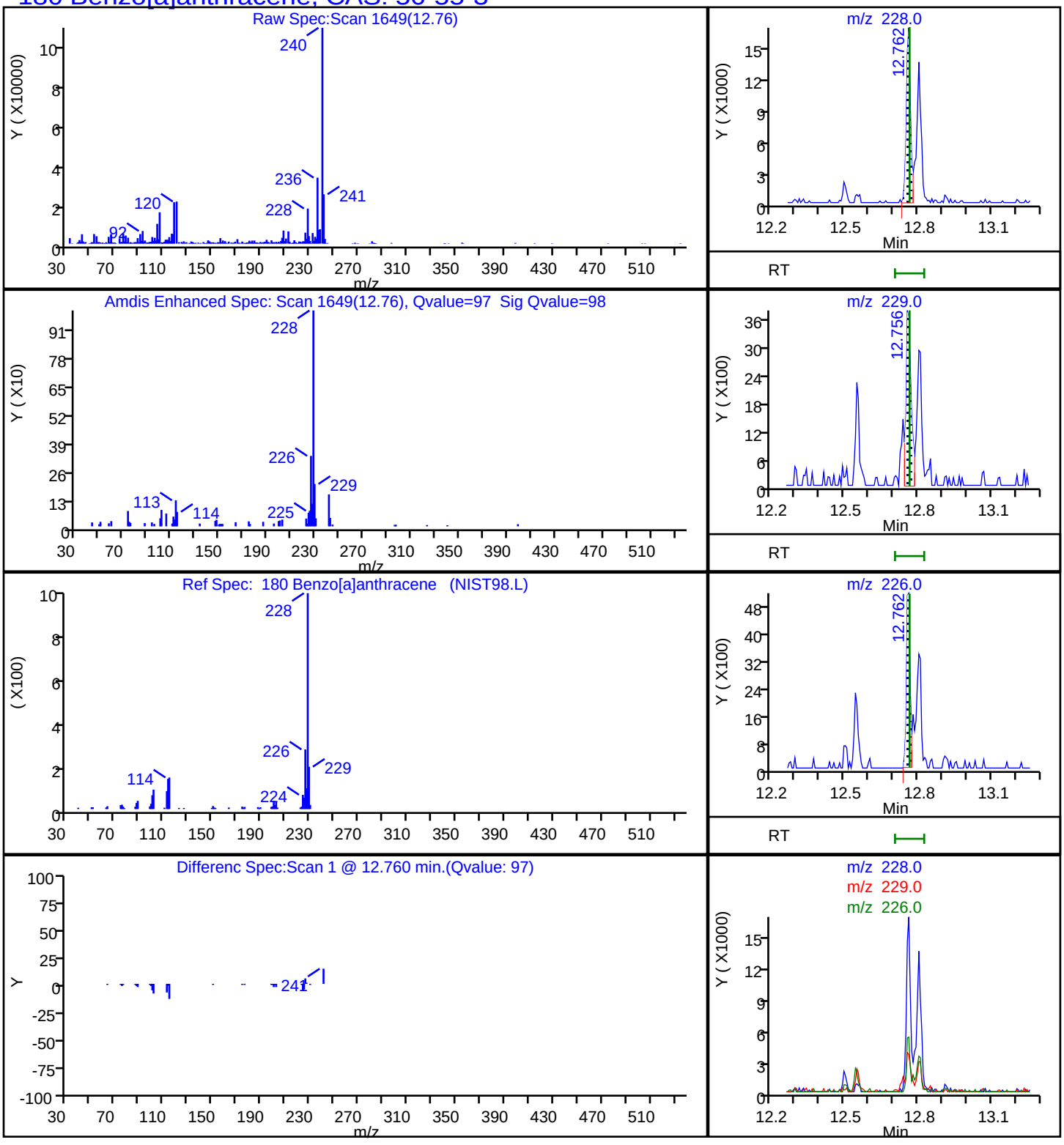
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

180 Benzo[a]anthracene, CAS: 56-55-3



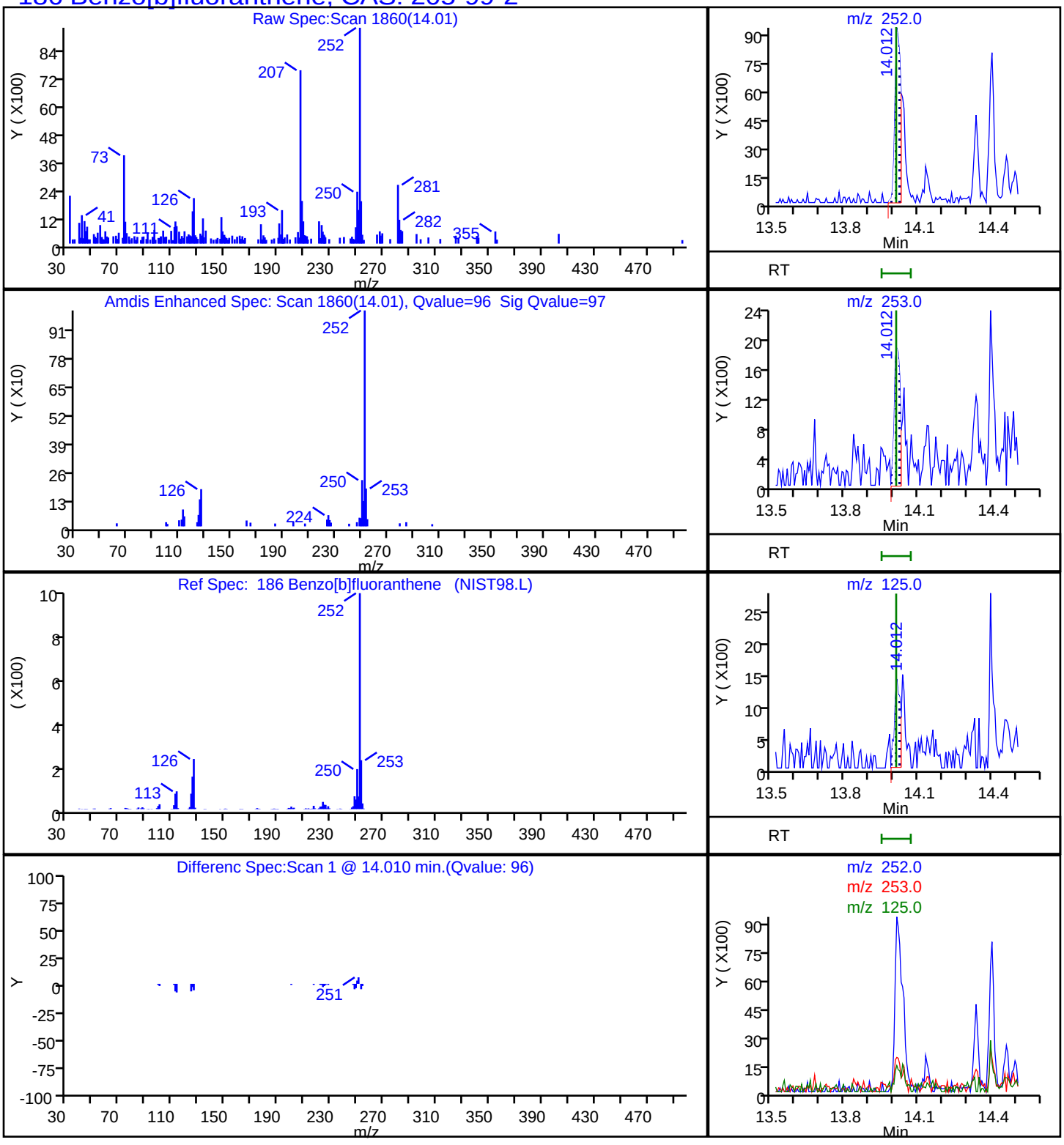
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2



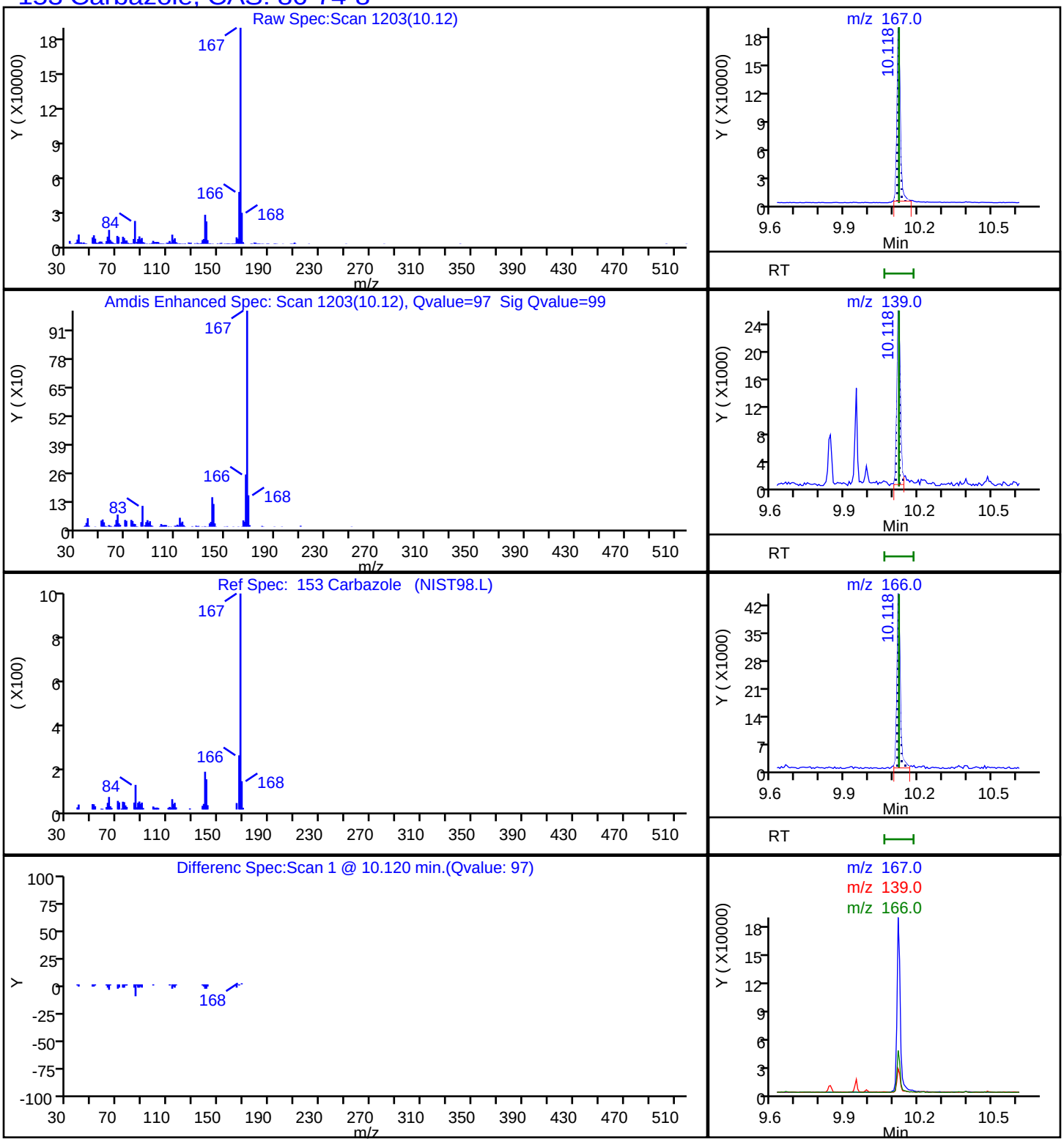
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

153 Carbazole, CAS: 86-74-8



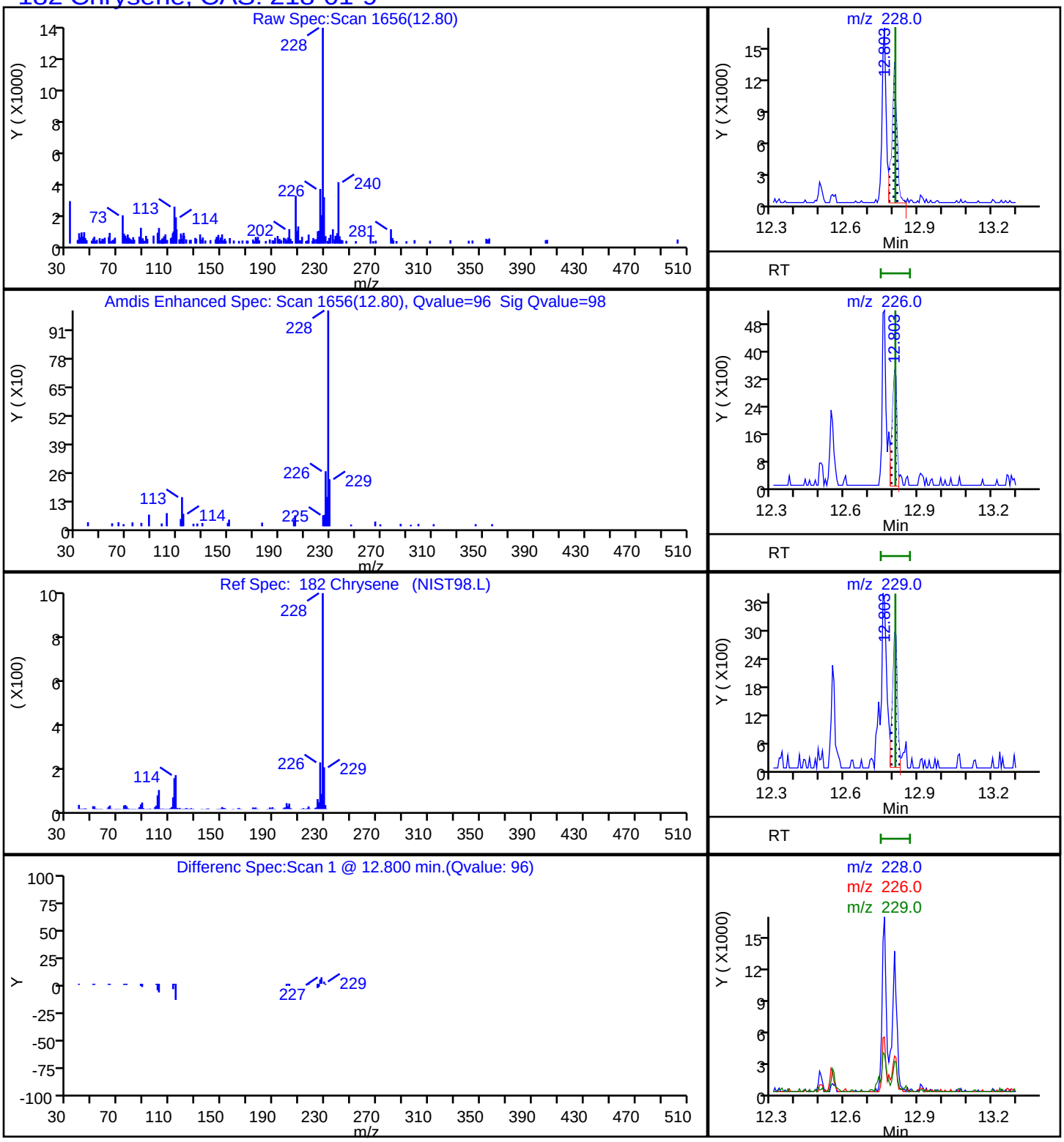
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

182 Chrysene, CAS: 218-01-9



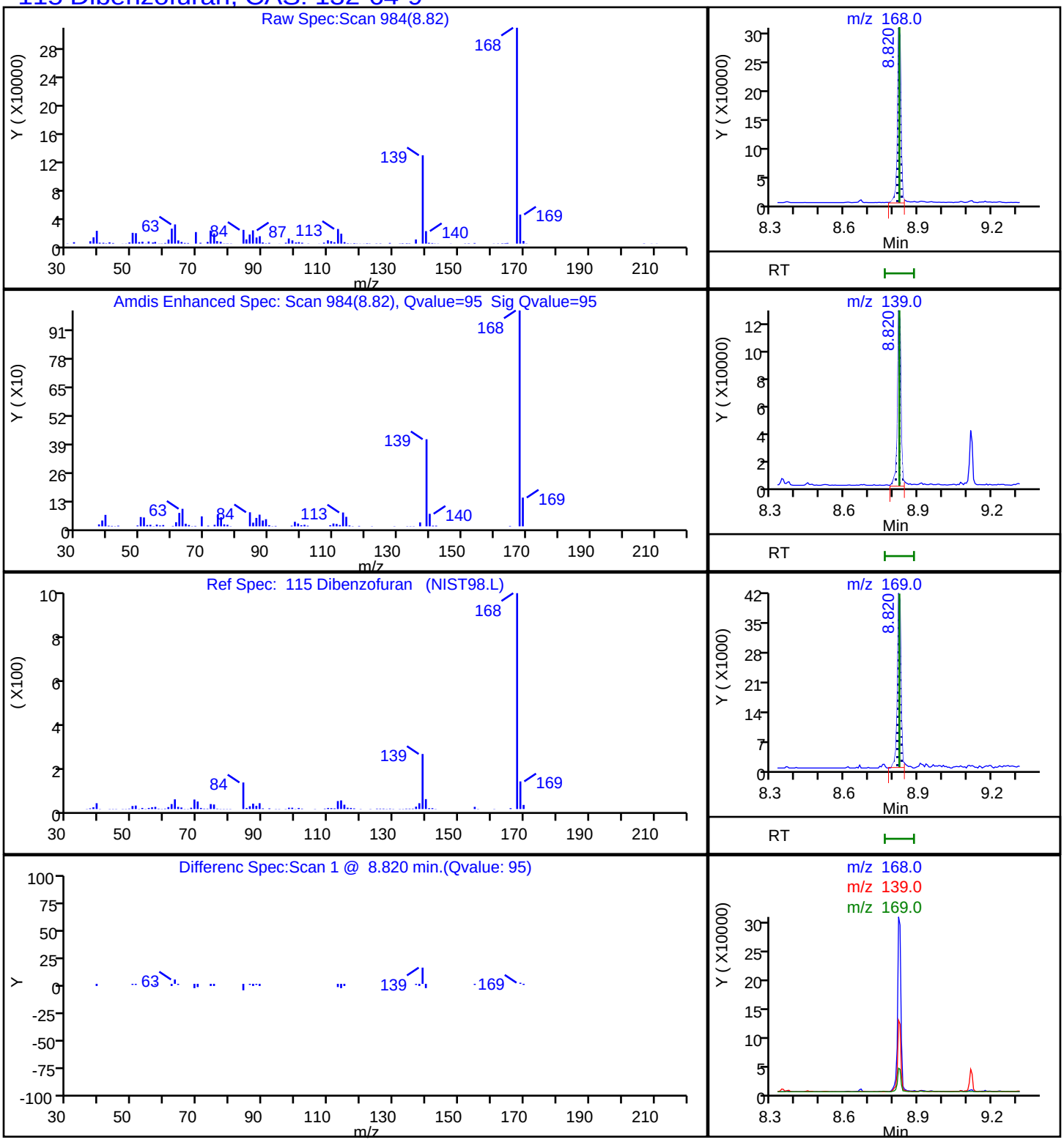
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

115 Dibenzofuran, CAS: 132-64-9



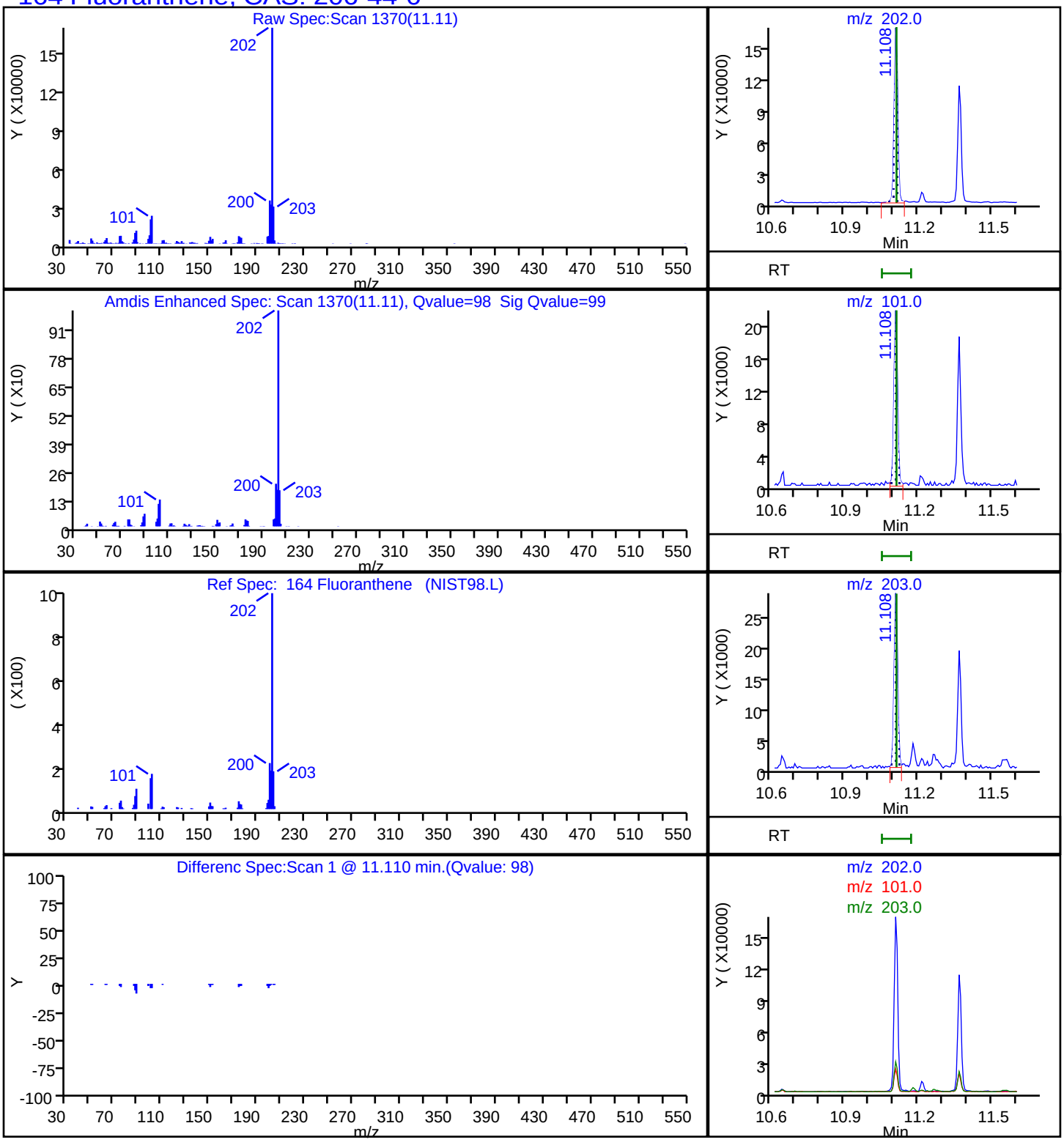
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

164 Fluoranthene, CAS: 206-44-0



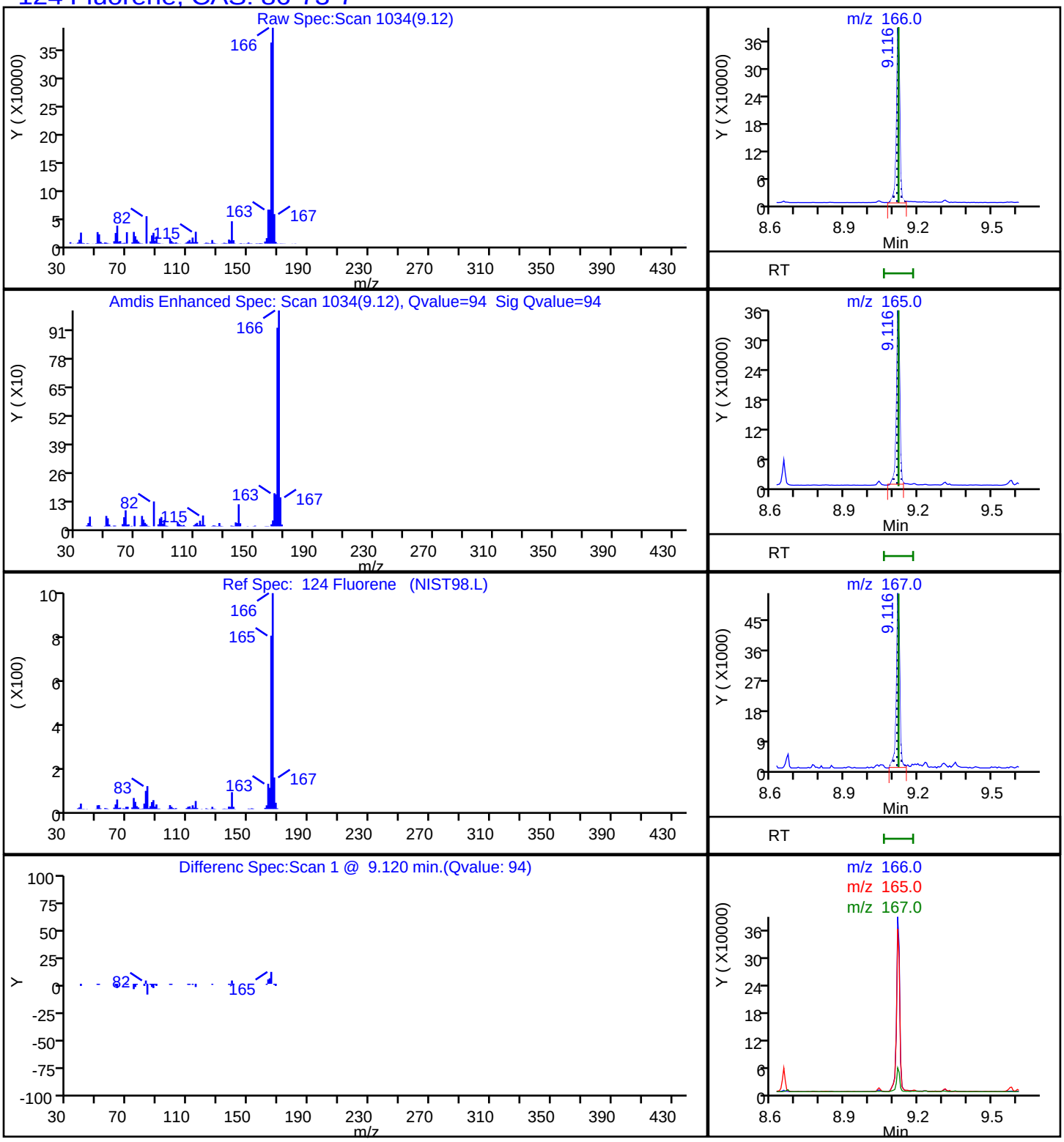
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

124 Fluorene, CAS: 86-73-7



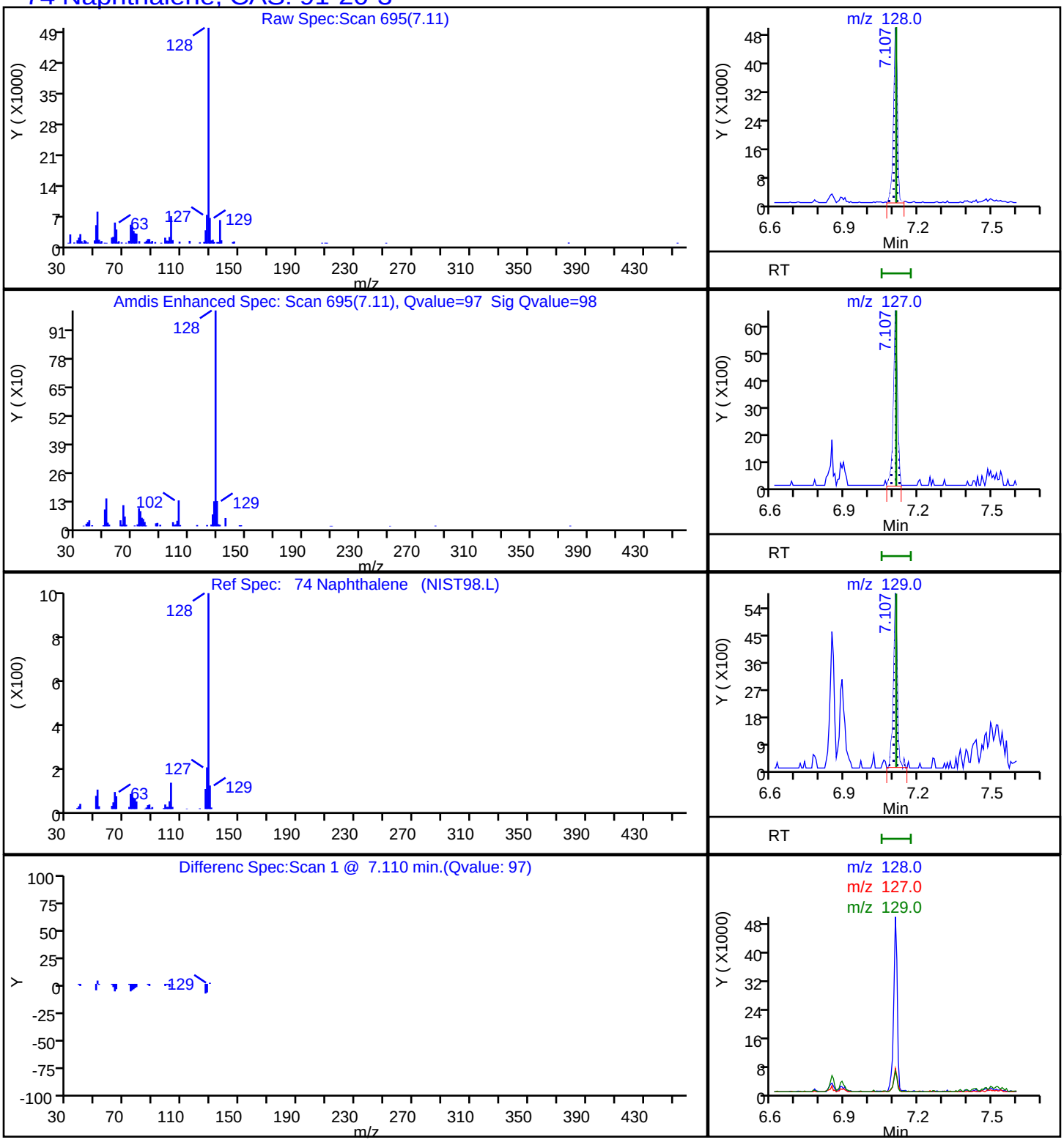
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

74 Naphthalene, CAS: 91-20-3



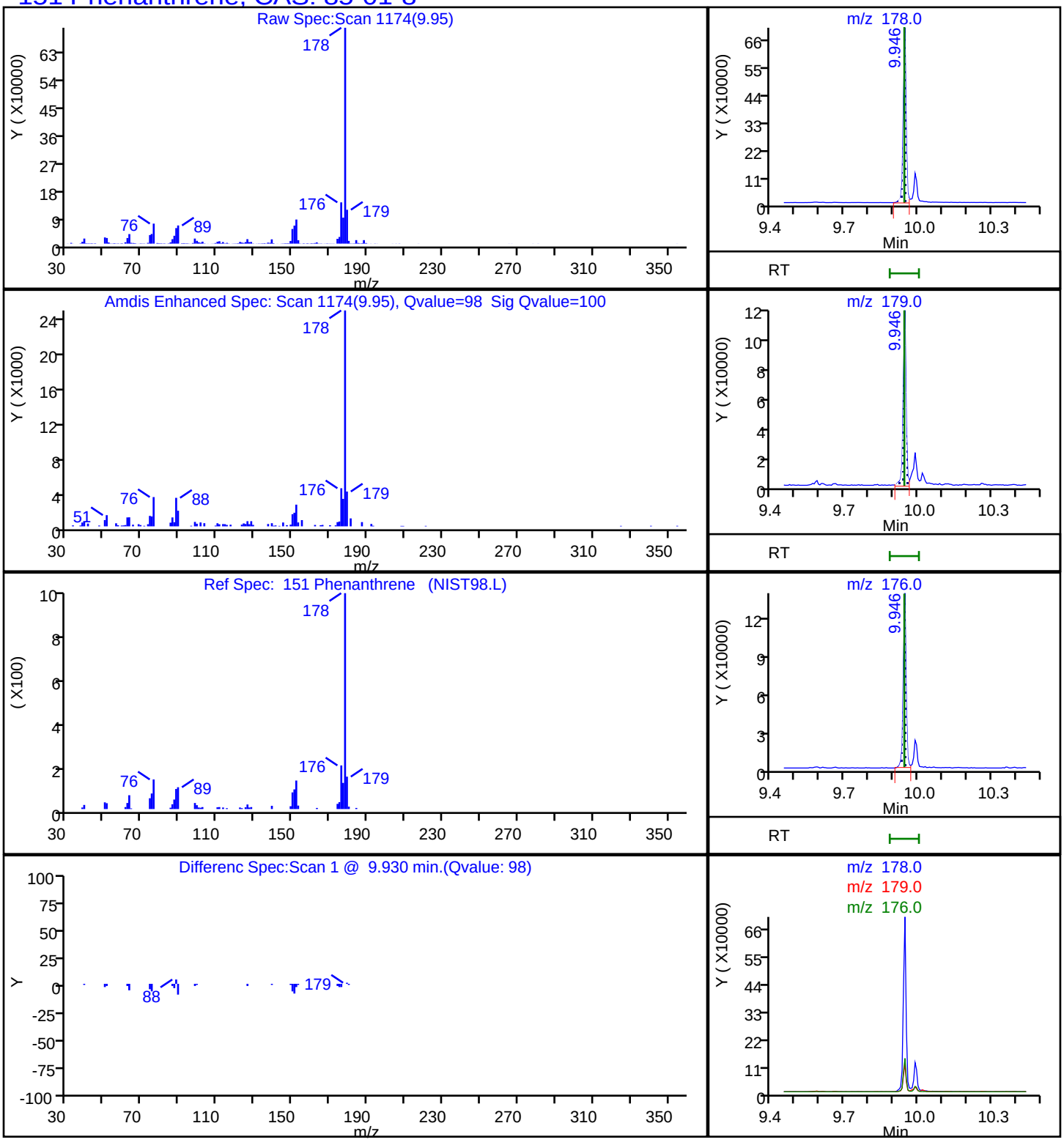
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

151 Phenanthrene, CAS: 85-01-8



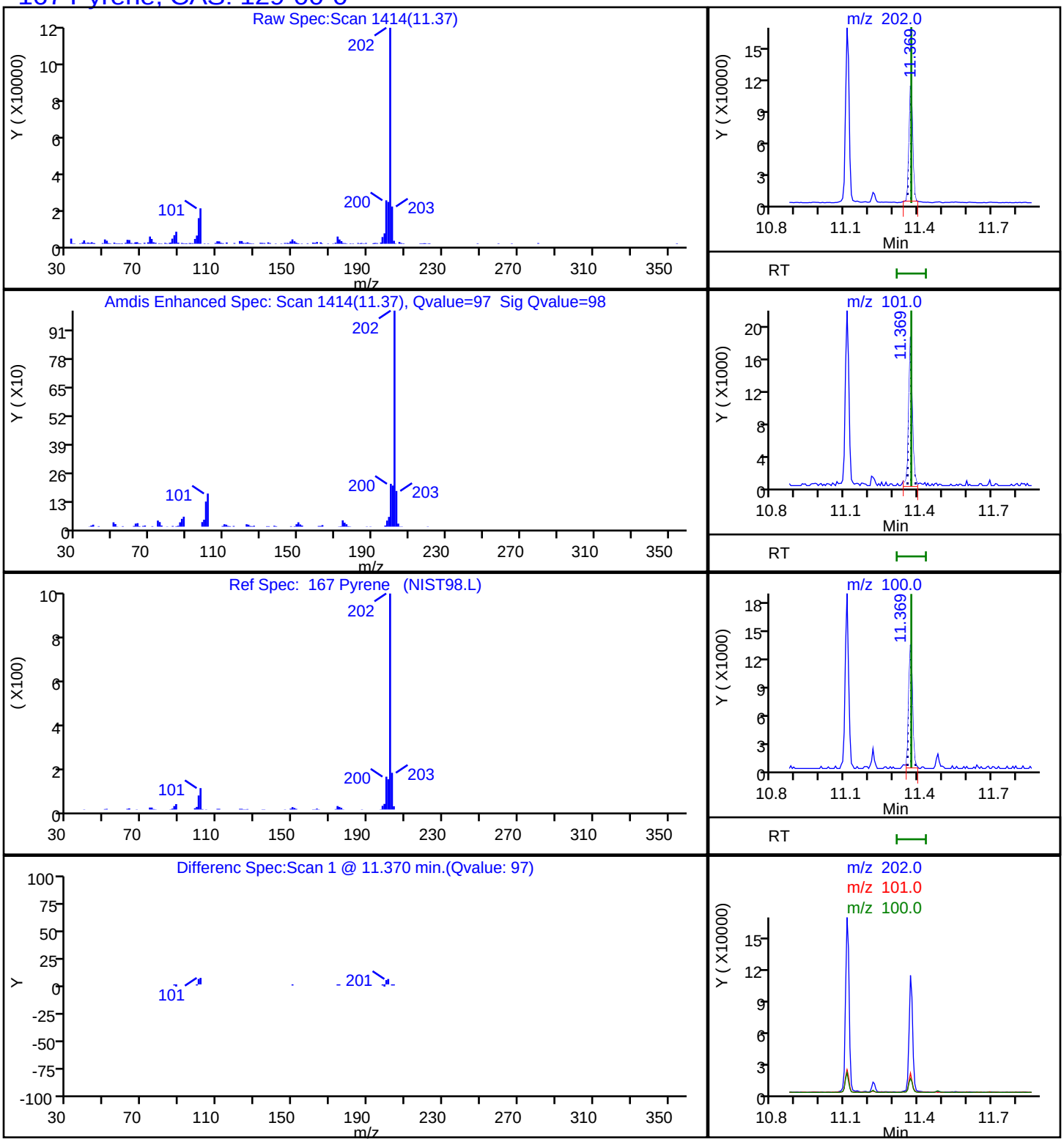
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

167 Pyrene, CAS: 129-00-0



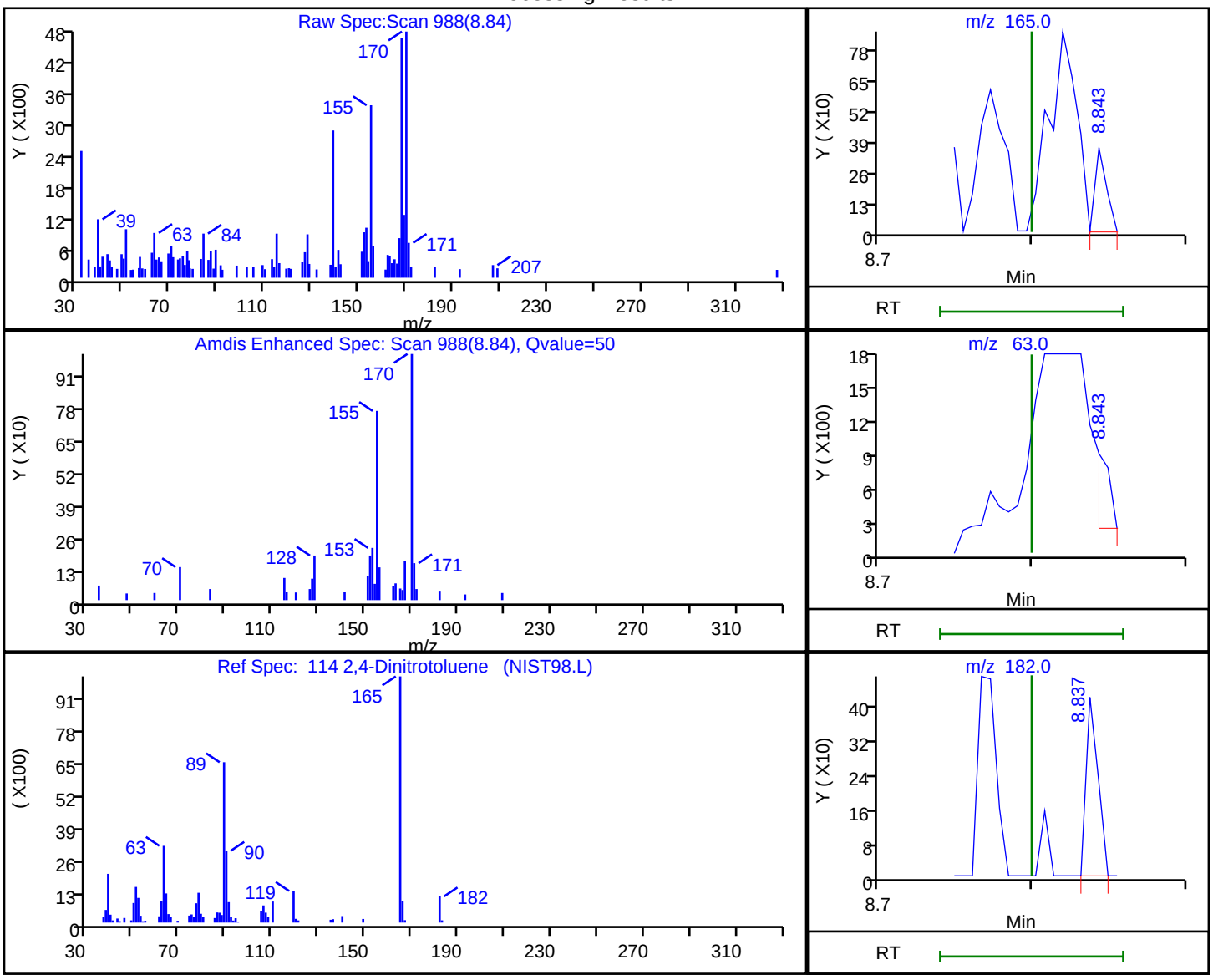
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D				
Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

114 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
8.84	165.00	183	0.126392
8.84	63.00	421	
8.84	182.00	225	

Reviewer: IZ8L, 30-Oct-2024 16:00:51 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

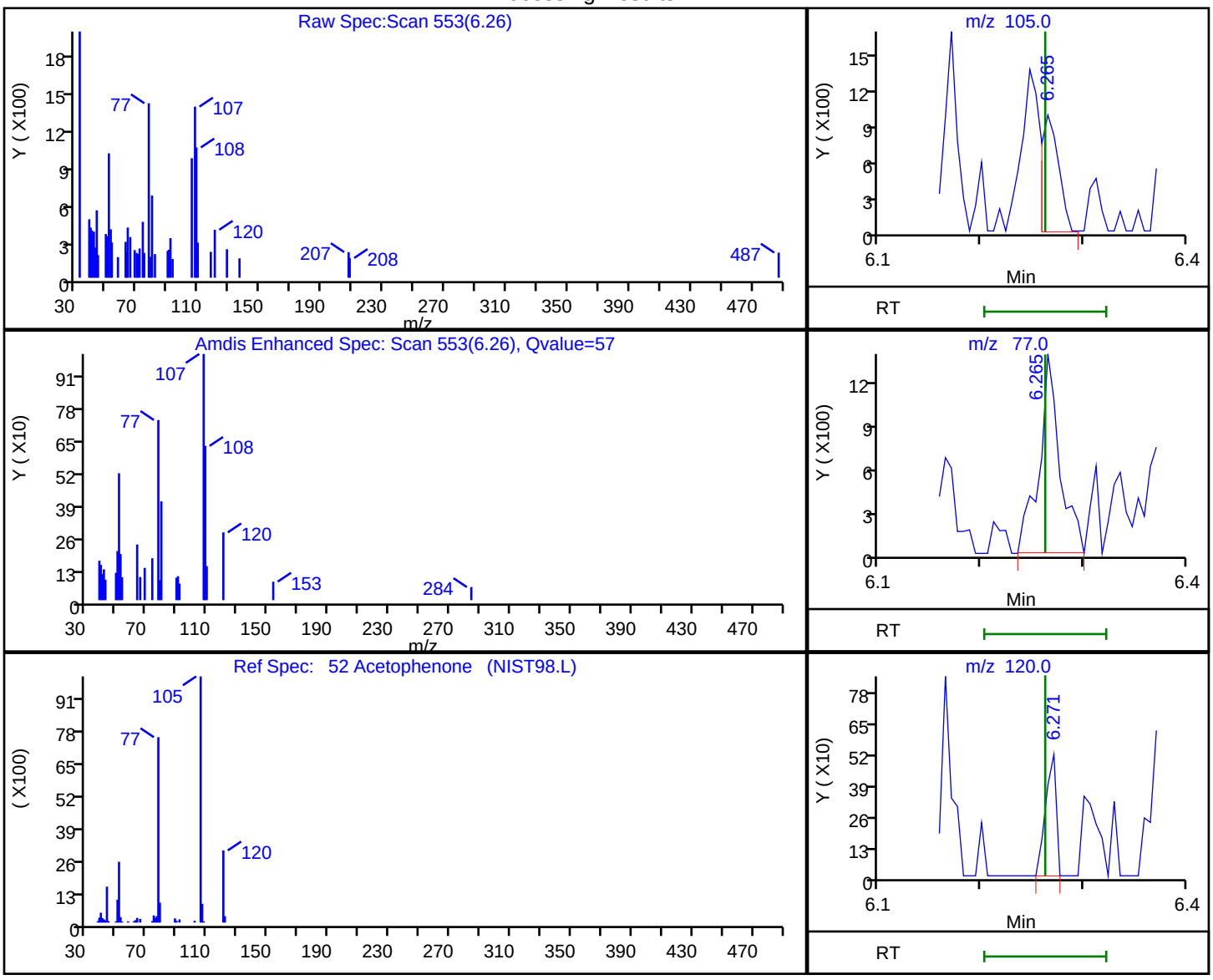
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D				
Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

52 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
6.26	105.00	1115	0.017168
6.26	77.00	1985	
6.27	120.00	374	

Reviewer: IZ8L, 30-Oct-2024 16:00:40 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

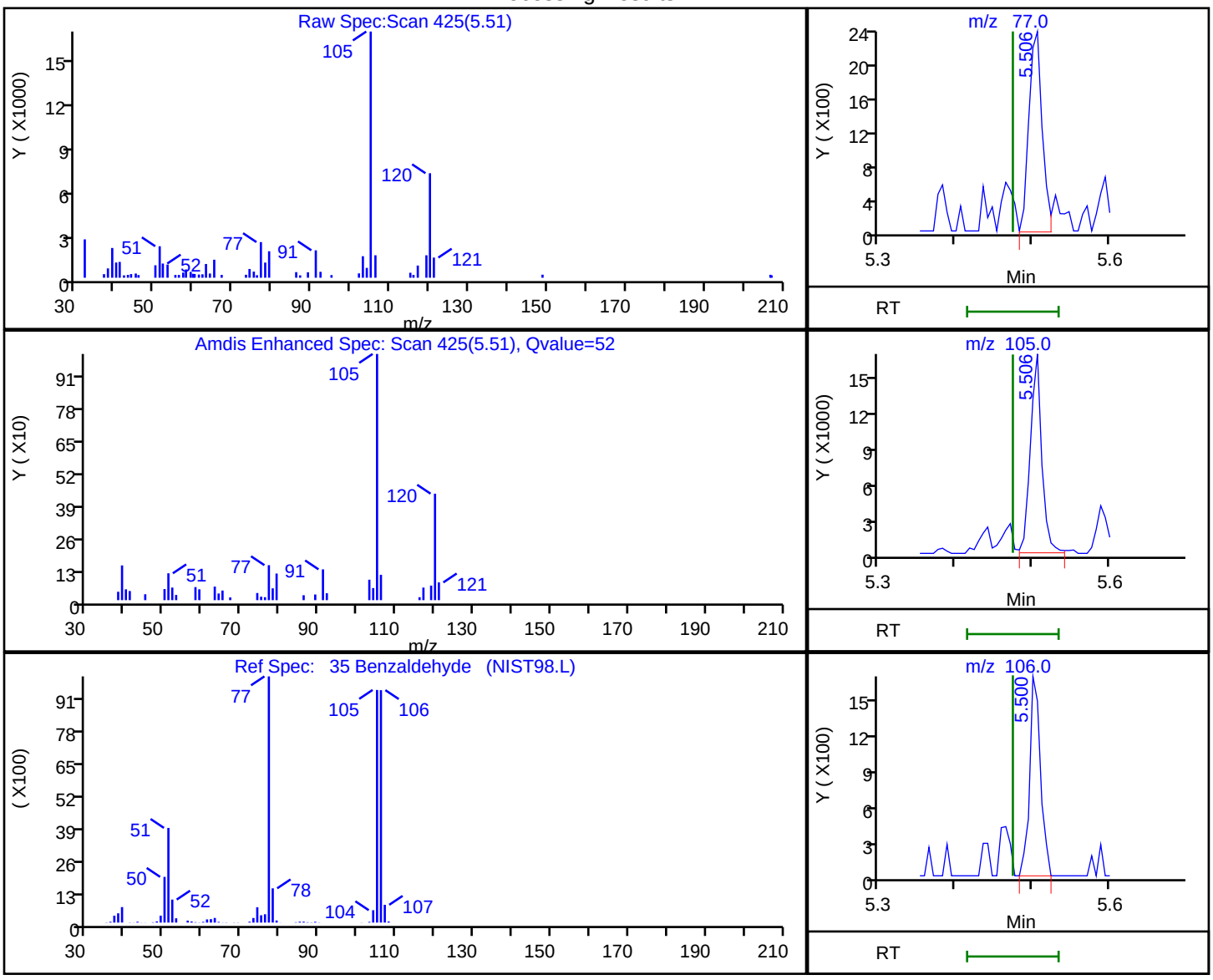
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D				
Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

35 Benzaldehyde, CAS: 100-52-7

Processing Results



RT	Mass	Response	Amount
5.51	77.00	2829	-0.043969
5.51	105.00	16982	
5.50	106.00	1677	

Reviewer: IZ8L, 30-Oct-2024 16:00:23 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

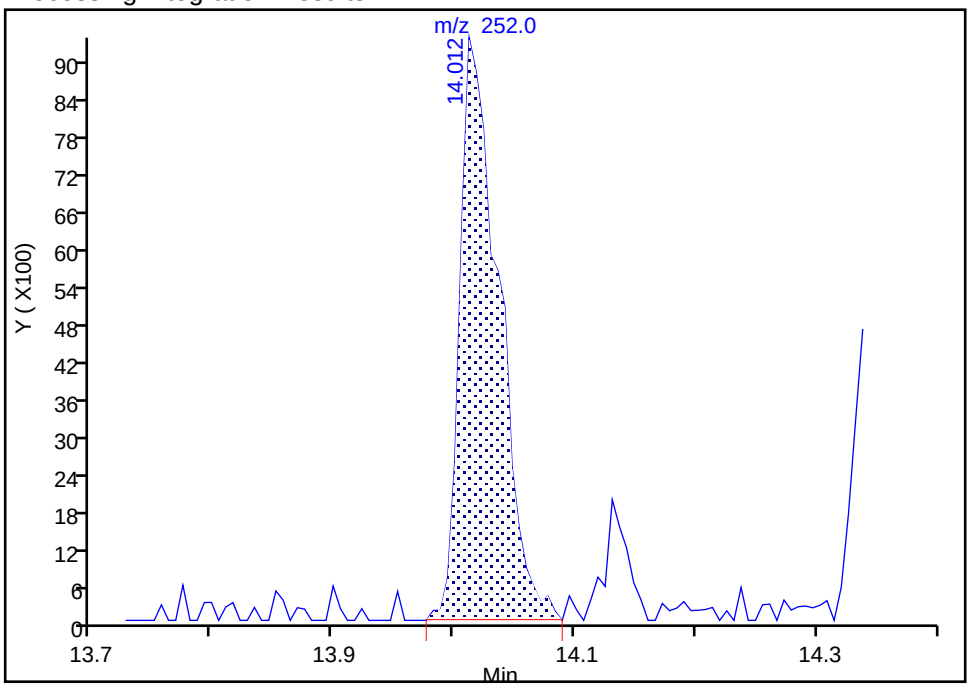
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D				
Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

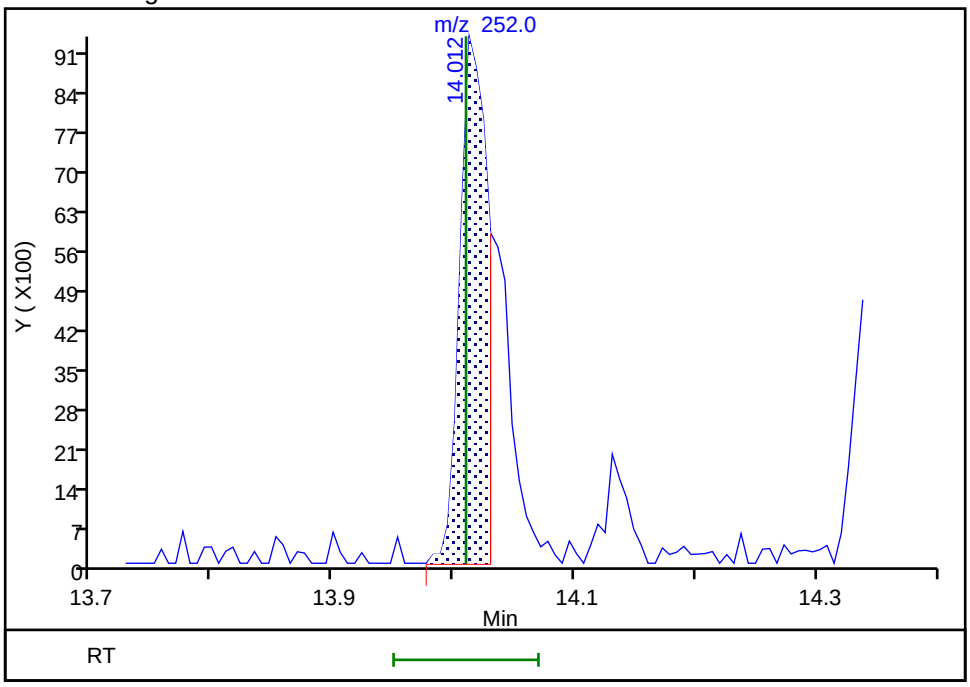
Processing Integration Results

RT: 14.01
Area: 20938
Amount: 0.147338
Amount Units: ng/uL



Manual Integration Results

RT: 14.01
Area: 14945
Amount: 0.110648
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 16:01:08 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

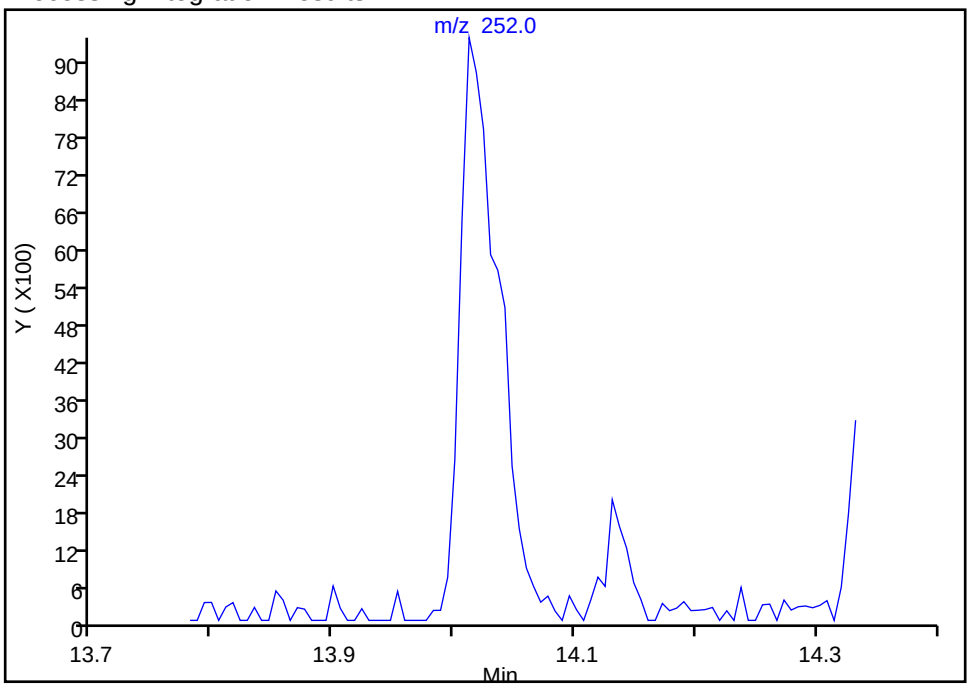
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D				
Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

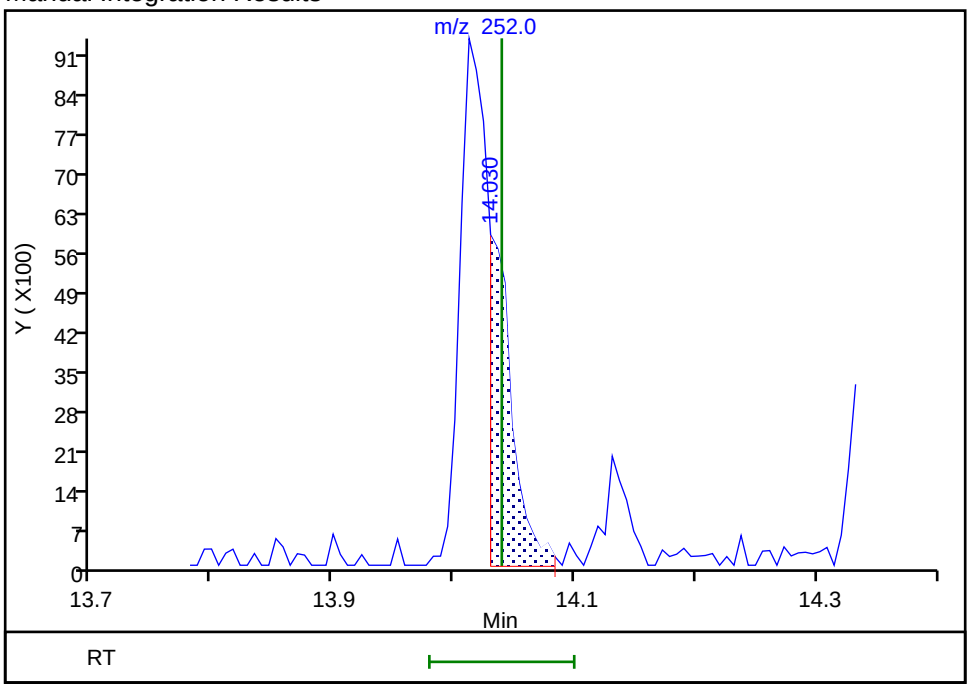
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.03
Area: 8084
Amount: 0.049438
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 16:01:15 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-21A-10252024 | Lab Sample ID: 480-224869-18

Matrix: Water | Lab File ID: Y04597.D

Analysis Method: 8270D | Date Collected: 10/25/2024 11:00

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 23:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.2	0.68
108-60-1	bis (2-chloroisopropyl) ether	ND		5.2	0.54
95-95-4	2,4,5-Trichlorophenol	ND		5.2	0.50
88-06-2	2,4,6-Trichlorophenol	ND		5.2	0.64
120-83-2	2,4-Dichlorophenol	ND		5.2	0.53
105-67-9	2,4-Dimethylphenol	ND		5.2	0.52
51-28-5	2,4-Dinitrophenol	ND		10	2.3
121-14-2	2,4-Dinitrotoluene	ND		5.2	0.47
606-20-2	2,6-Dinitrotoluene	ND		5.2	0.42
91-58-7	2-Chloronaphthalene	ND		5.2	0.48
95-57-8	2-Chlorophenol	ND		5.2	0.55
91-57-6	2-Methylnaphthalene	ND		5.2	0.63
95-48-7	2-Methylphenol	0.47	J	5.2	0.42
88-74-4	2-Nitroaniline	ND		10	0.44
88-75-5	2-Nitrophenol	ND		5.2	0.50
91-94-1	3,3'-Dichlorobenzidine	ND		5.2	0.42
99-09-2	3-Nitroaniline	ND		10	0.50
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.3
101-55-3	4-Bromophenyl phenyl ether	ND		5.2	0.47
59-50-7	4-Chloro-3-methylphenol	ND		5.2	0.47
106-47-8	4-Chloroaniline	ND		5.2	0.61
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.2	0.36
106-44-5	4-Methylphenol	0.70	J	10	0.38
100-01-6	4-Nitroaniline	ND		10	0.26
100-02-7	4-Nitrophenol	ND	*+	10	1.6
83-32-9	Acenaphthene	ND		5.2	0.43
208-96-8	Acenaphthylene	ND		5.2	0.40
98-86-2	Acetophenone	ND		5.2	0.56
120-12-7	Anthracene	ND		5.2	0.29
1912-24-9	Atrazine	ND		5.2	0.48
100-52-7	Benzaldehyde	ND		5.2	0.28

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-21A-10252024 | Lab Sample ID: 480-224869-18

Matrix: Water | Lab File ID: Y04597.D

Analysis Method: 8270D | Date Collected: 10/25/2024 11:00

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 23:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		5.2	0.38
50-32-8	Benzo(a)pyrene	ND		5.2	0.49
205-99-2	Benzo(b)fluoranthene	ND		5.2	0.35
191-24-2	Benzo(g,h,i)perylene	ND		5.2	0.36
207-08-9	Benzo(k)fluoranthene	ND		5.2	0.76
111-91-1	Bis(2-chloroethoxy)methane	ND		5.2	0.36
111-44-4	Bis(2-chloroethyl)ether	ND		5.2	0.42
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.2	2.3
85-68-7	Butyl benzyl phthalate	ND		5.2	1.0
105-60-2	Caprolactam	ND		5.2	2.3
86-74-8	Carbazole	0.66	J	5.2	0.31
218-01-9	Chrysene	ND		5.2	0.34
84-74-2	Di-n-butyl phthalate	ND		5.2	0.32
117-84-0	Di-n-octyl phthalate	ND		5.2	0.49
53-70-3	Dibenz(a,h)anthracene	ND		5.2	0.44
132-64-9	Dibenzofuran	ND		10	0.53
84-66-2	Diethyl phthalate	ND		5.2	0.23
131-11-3	Dimethyl phthalate	ND		5.2	0.38
206-44-0	Fluoranthene	0.43	J	5.2	0.42
86-73-7	Fluorene	ND		5.2	0.38
118-74-1	Hexachlorobenzene	ND		5.2	0.53
87-68-3	Hexachlorobutadiene	ND		5.2	0.71
77-47-4	Hexachlorocyclopentadiene	ND		5.2	0.61
67-72-1	Hexachloroethane	ND		5.2	0.61
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.2	0.49
78-59-1	Isophorone	ND		5.2	0.45
621-64-7	N-Nitrosodi-n-propylamine	ND		5.2	0.56
86-30-6	N-Nitrosodiphenylamine	ND		5.2	0.53
91-20-3	Naphthalene	1.8	J	5.2	0.79
98-95-3	Nitrobenzene	ND		5.2	0.30
87-86-5	Pentachlorophenol	ND		10	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-21A-10252024 | Lab Sample ID: 480-224869-18

Matrix: Water | Lab File ID: Y04597.D

Analysis Method: 8270D | Date Collected: 10/25/2024 11:00

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 23:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		5.2	0.46
108-95-2	Phenol	ND		5.2	0.41
129-00-0	Pyrene	0.40	J	5.2	0.35

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	93		25-144
321-60-8	2-Fluorobiphenyl	89		53-126
367-12-4	2-Fluorophenol	70		24-120
4165-60-0	Nitrobenzene-d5	100		29-129
1718-51-0	p-Terphenyl-d14	48		33-132
4165-62-2	Phenol-d5	52		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D
Lims ID: 480-224869-A-18-A
Client ID: MW-BCP-21A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 23:07:30 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-028
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:16:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.000	95	166540	4.00	
* 2 Naphthalene-d8	136	7.089	7.089	0.000	99	603903	4.00	
* 3 Acenaphthene-d10	164	8.648	8.648	0.000	95	344558	4.00	
* 4 Phenanthrene-d10	188	9.923	9.929	-0.006	97	600706	4.00	
* 5 Chrysene-d12	240	12.774	12.774	0.000	99	510087	4.00	
* 6 Perylene-d12	264	14.469	14.463	0.006	97	595588	4.00	
$ 7 2-Fluorophenol	112	4.677	4.644	0.036	92	288601	5.62	
$ 8 Phenol-d5	99	5.530	5.527	0.006	88	264467	4.17	
$ 9 Nitrobenzene-d5	82	6.414	6.410	0.000	96	464909	8.00	
$ 10 2-Fluorobiphenyl	172	8.038	8.040	0.000	99	843487	7.12	
$ 11 2,4,6-Tribromophenol	330	9.330	9.327	0.000	86	110945	7.42	
$ 12 p-Terphenyl-d14	244	11.482	11.484	0.000	97	535207	3.87	
35 Benzaldehyde	77		5.471				ND	
37 Phenol	94	5.542	5.538	0.006	55	4009	0.0622	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108	6.117	6.111	0.006	86	5471	0.1119	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.265	6.314	0.011	79	8508	0.1674	
52 Acetophenone	105		6.265				ND	U
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107	6.751	6.751	0.000	88	4210	0.0800	M
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.107	7.113	0.000	97	69639	0.4365	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113		7.463				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142		7.730				ND	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154		8.133				ND	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152	8.530	8.532	0.000	87	5480	0.0359	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153		8.678				ND	
111 2,4-Dinitrophenol	184		8.696				ND	U
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	U
115 Dibenzofuran	168	8.820	8.829	-0.006	96	5307	0.0384	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166	9.117	9.125	-0.006	90	4527	0.0520	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178		9.947				ND	U
152 Anthracene	178	9.988	10.001	0.000	89	5176	0.0312	
153 Carbazole	167	10.124	10.149	0.006	96	23538	0.1594	
157 Di-n-butyl phthalate	149		10.356				ND	
164 Fluoranthene	202	11.114	11.104	0.006	96	18129	0.1028	
167 Pyrene	202	11.369	11.366	0.000	97	16369	0.0958	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149	12.667	12.670	0.000	91	7939	0.1566	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228		12.762				ND	
182 Chrysene	228		12.810				ND	
184 Di-n-octyl phthalate	149		13.420				ND	
186 Benzo[b]fluoranthene	252	14.019	14.019	0.012	95	9443	0.0687	M
187 Benzo[k]fluoranthene	252	14.037	14.037	0.000	1	3294	0.0172	Ma
189 Benzo[a]pyrene	252	14.404	14.401	0.006	76	6078	0.0582	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.945				ND	
195 Benzo[g,h,i]perylene	276		16.396				ND	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

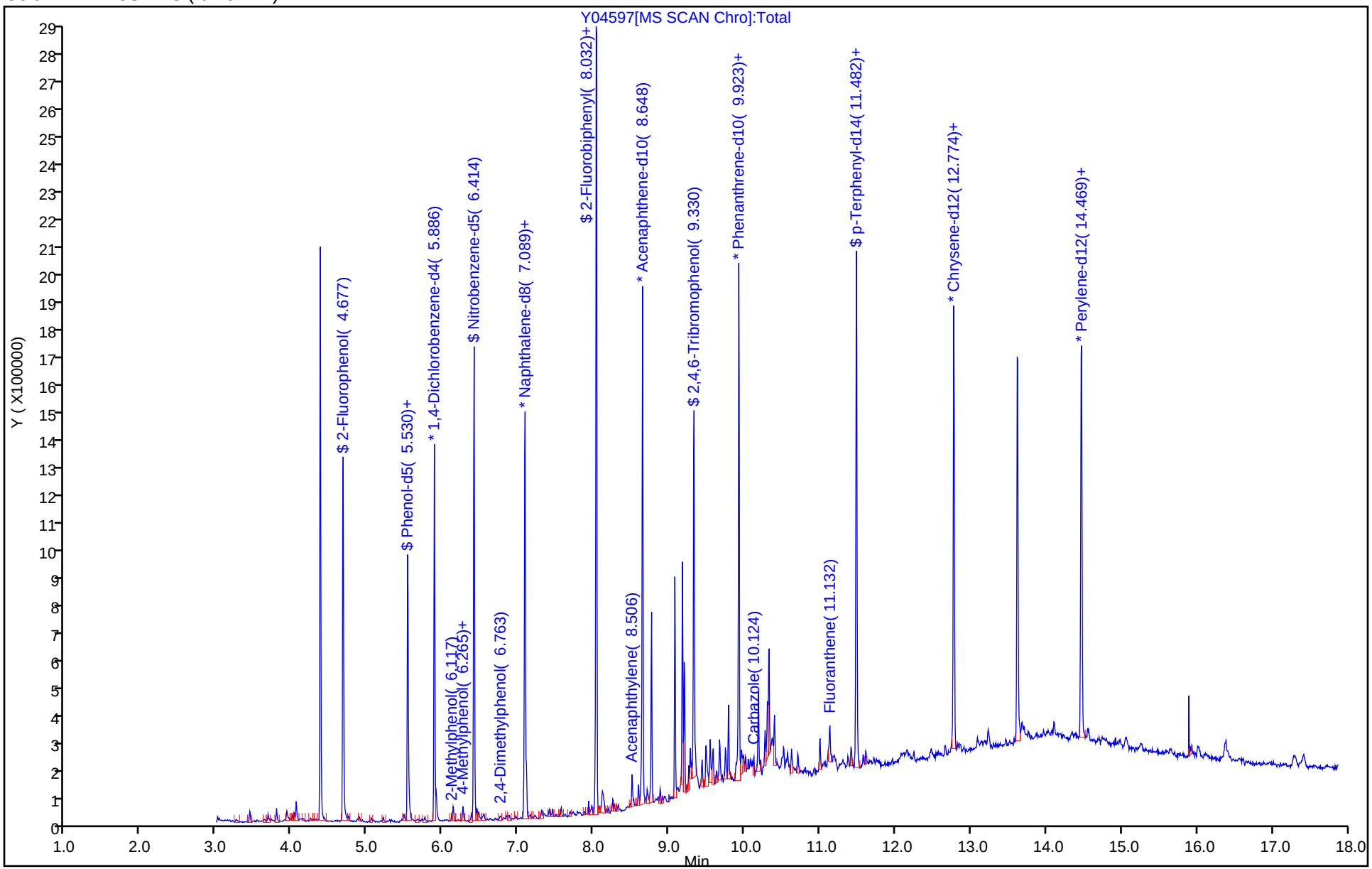
Report Date: 30-Oct-2024 15:17:47 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D

Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18	Worklist Smp#:	28
Client ID:	MW-BCP-21A-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D
Lims ID: 480-224869-A-18-A
Client ID: MW-BCP-21A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 23:07:30 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-028
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:16:04

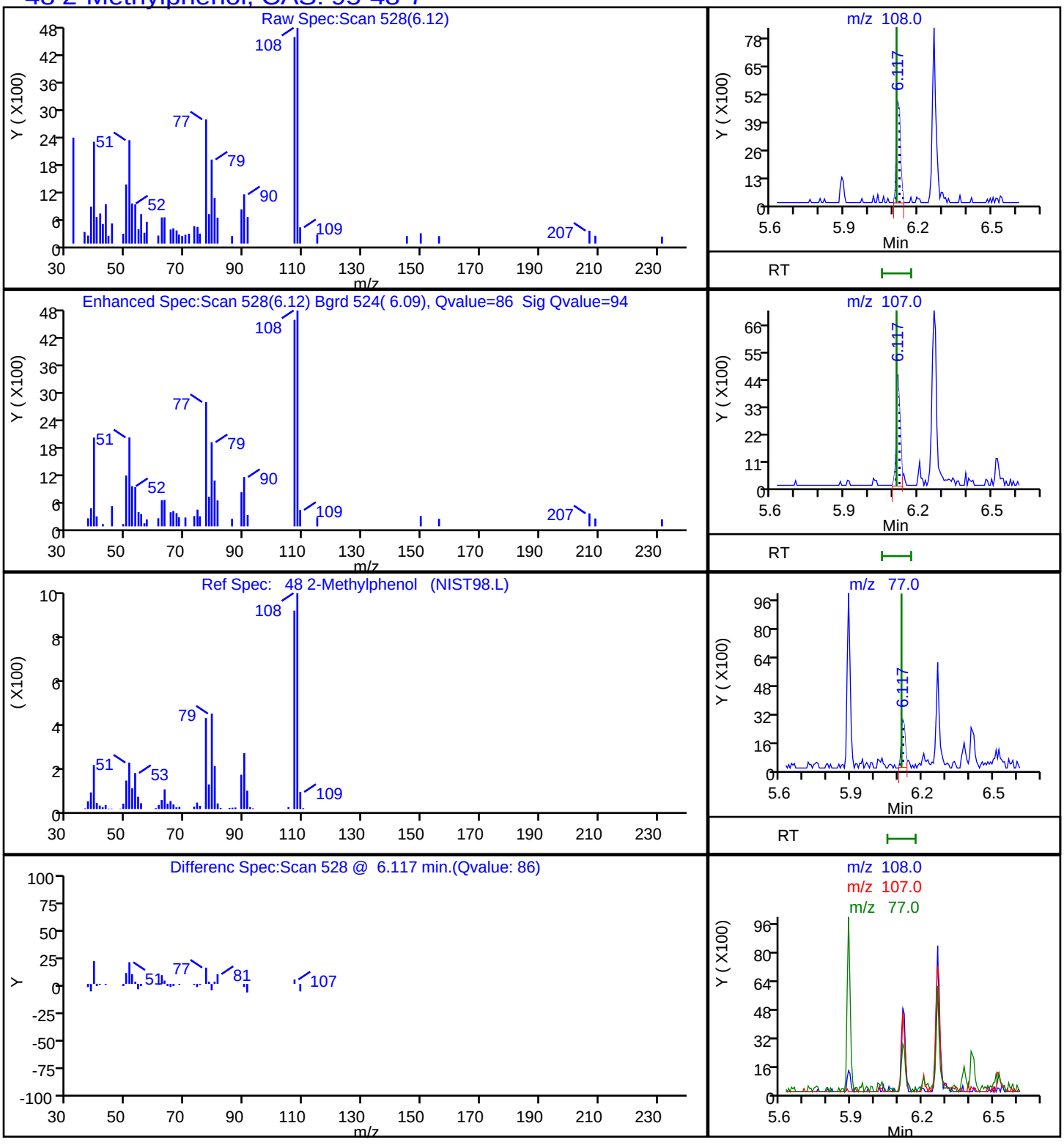
Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.62	70.30
$ 8 Phenol-d5	8.00	4.17	52.15
$ 9 Nitrobenzene-d5	8.00	8.00	99.97
$ 10 2-Fluorobiphenyl	8.00	7.12	89.03
$ 11 2,4,6-Tribromophenol	8.00	7.42	92.74
$ 12 p-Terphenyl-d14	8.00	3.87	48.38

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D

Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18
Client ID:	MW-BCP-21A-10252024		
Operator ID:	JM	ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

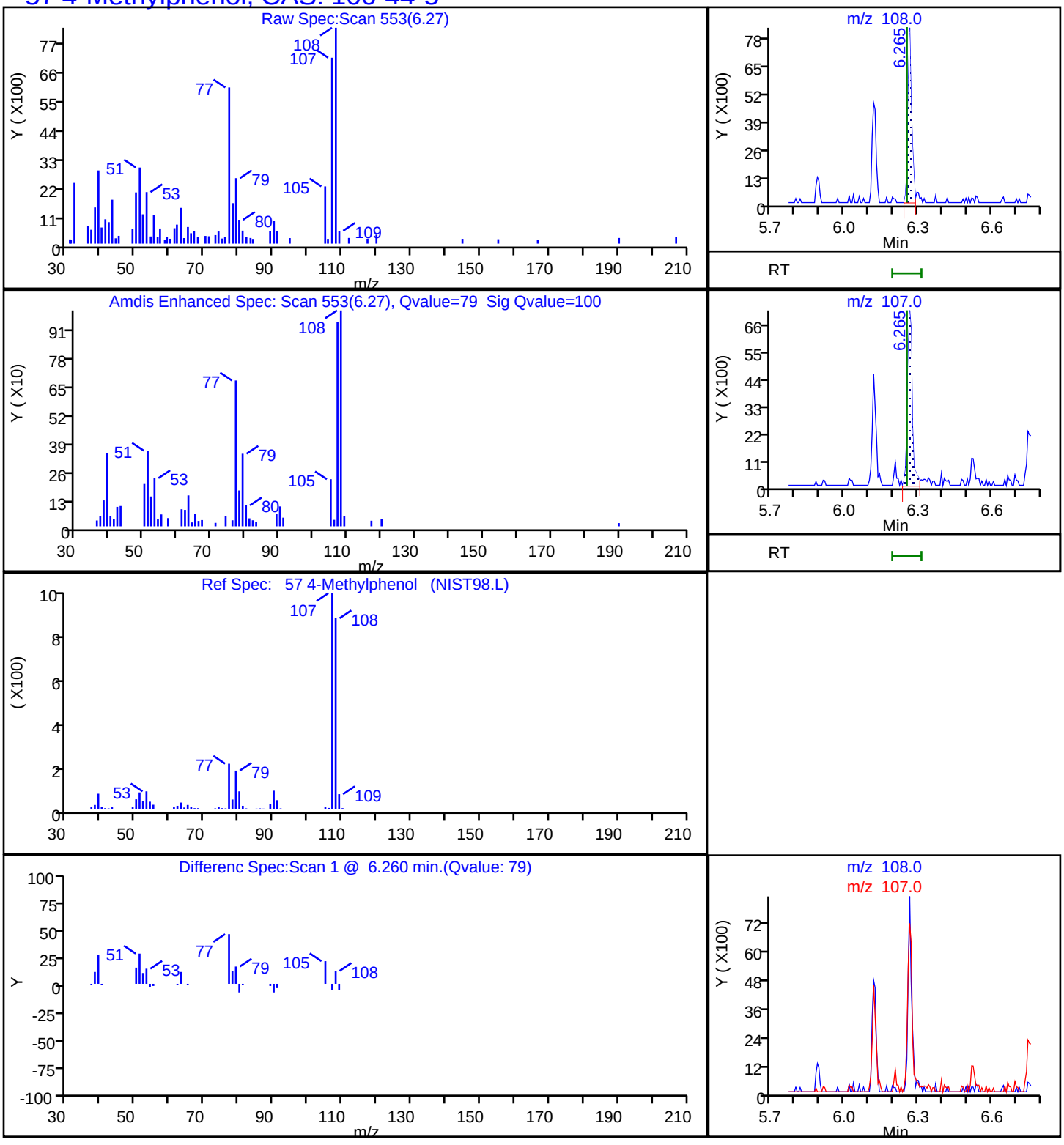
48 2-Methylphenol, CAS: 95-48-7



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

57 4-Methylphenol, CAS: 106-44-5



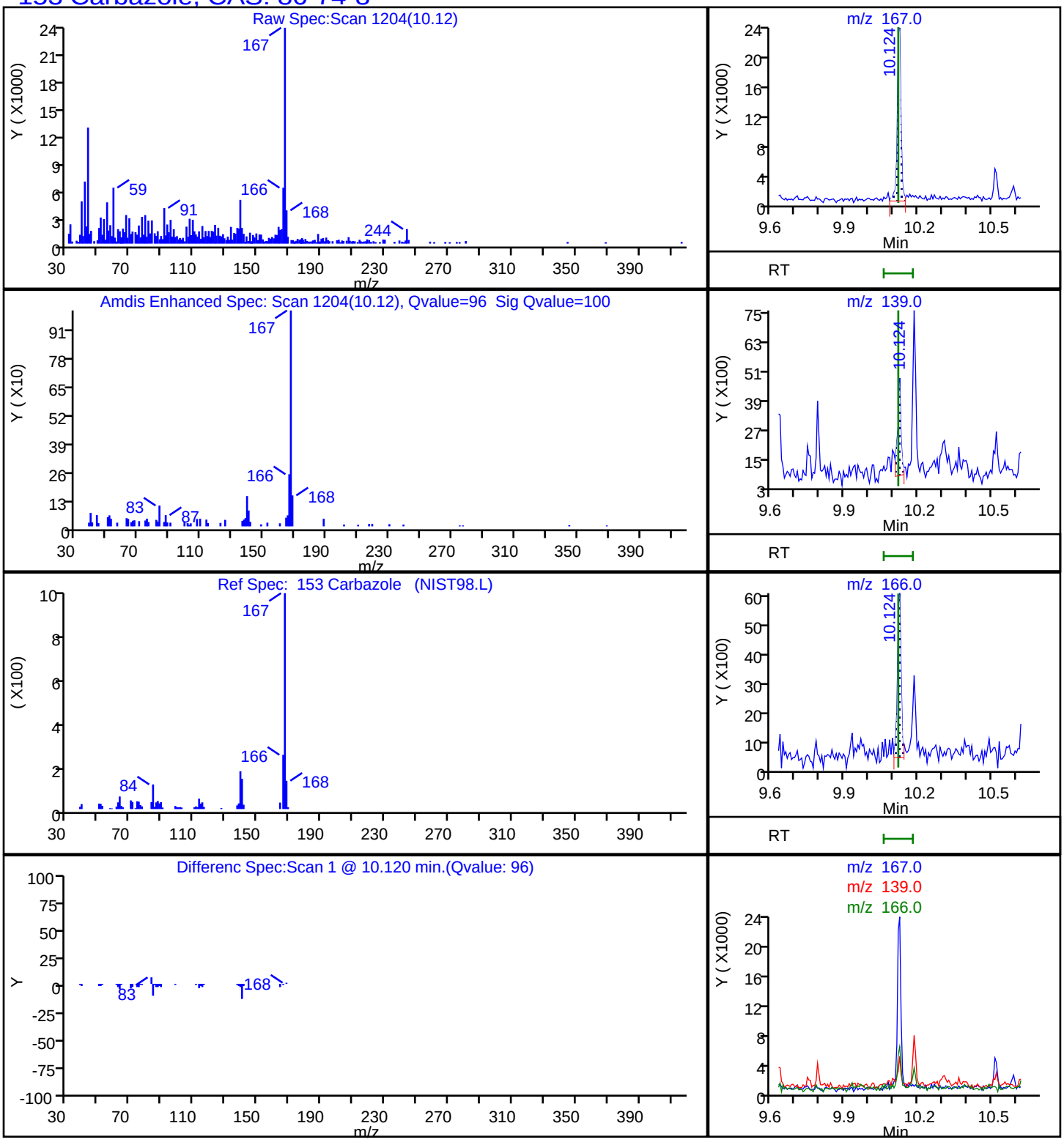
Report Date: 30-Oct-2024 15:17:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D

Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18
Client ID:	MW-BCP-21A-10252024		
Operator ID:	JM	ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

153 Carbazole, CAS: 86-74-8



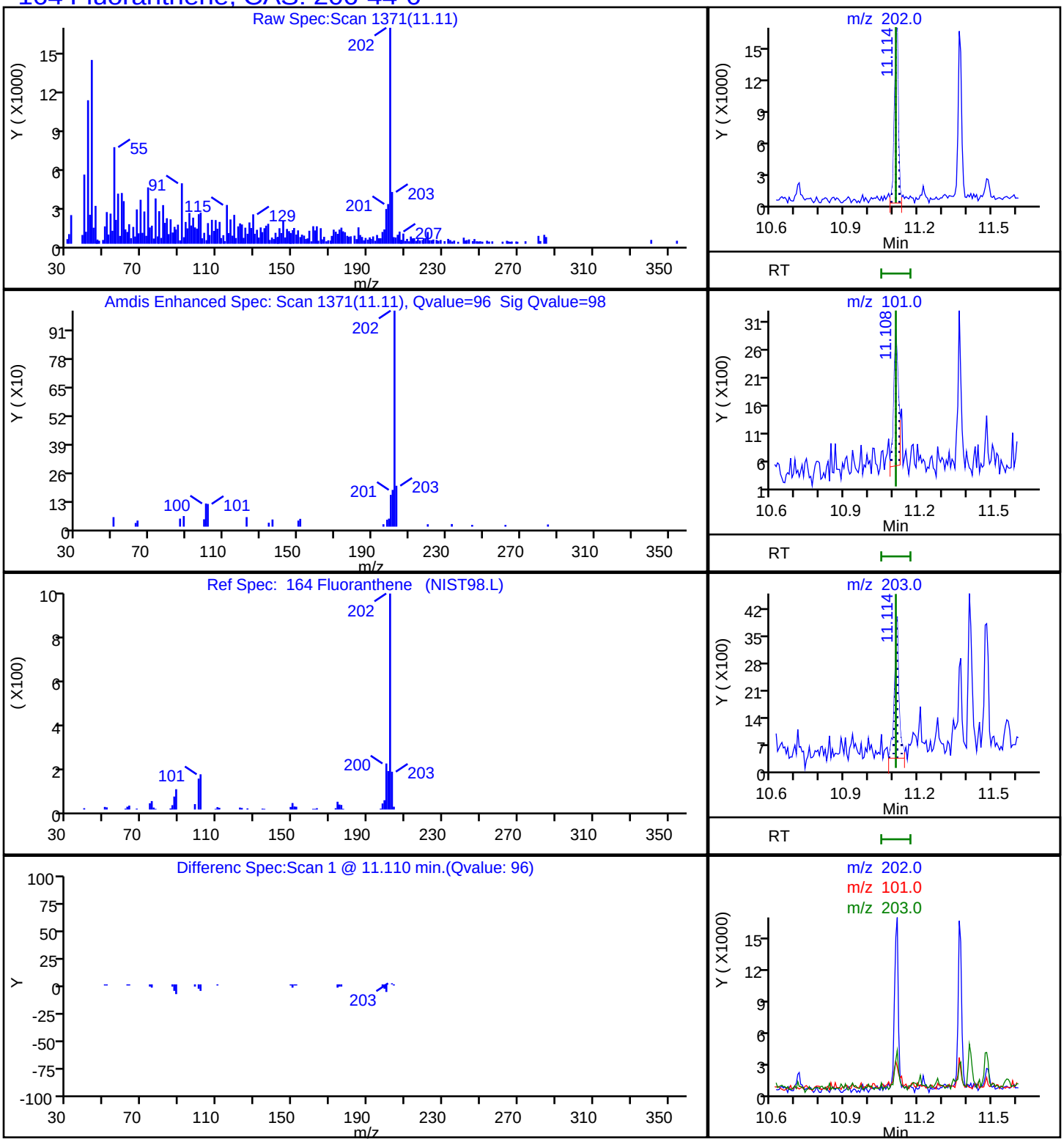
Report Date: 30-Oct-2024 15:17:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D

Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18
Client ID:	MW-BCP-21A-10252024		
Operator ID:	JM	ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

164 Fluoranthene, CAS: 206-44-0

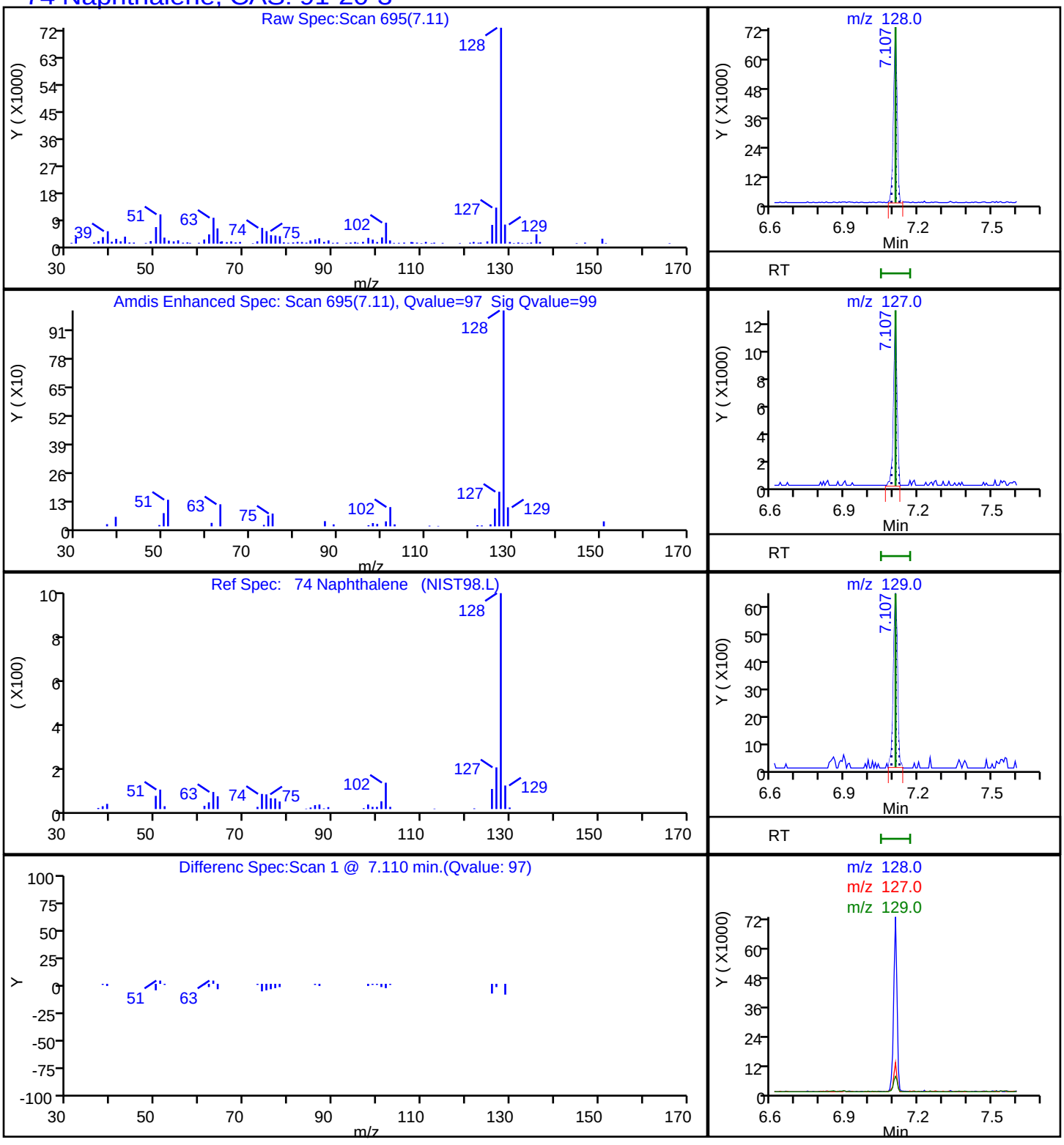


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D

Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3



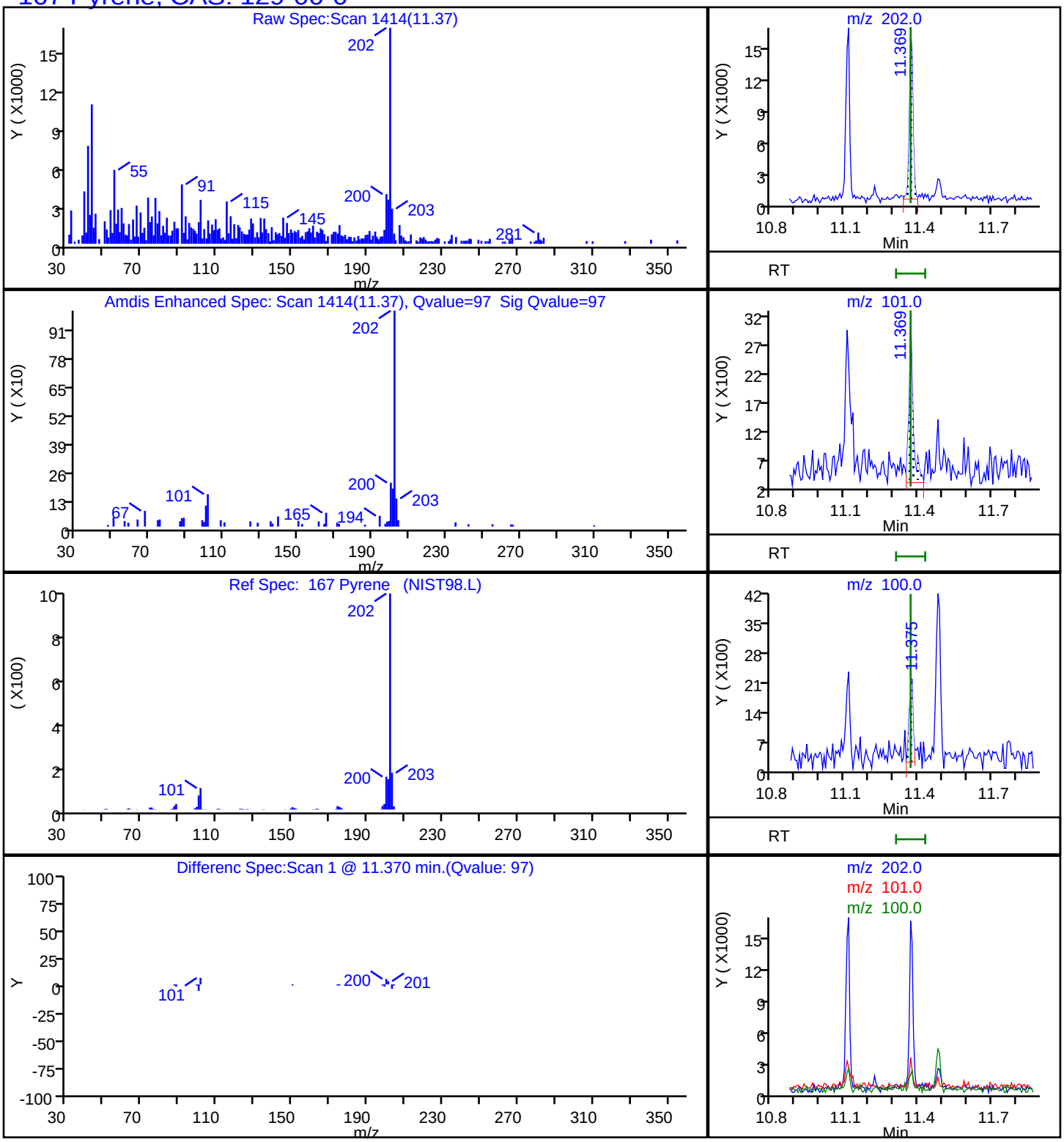
Report Date: 30-Oct-2024 15:17:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D

Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18
Client ID:	MW-BCP-21A-10252024		
Operator ID:	JM	ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

167 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Buffalo

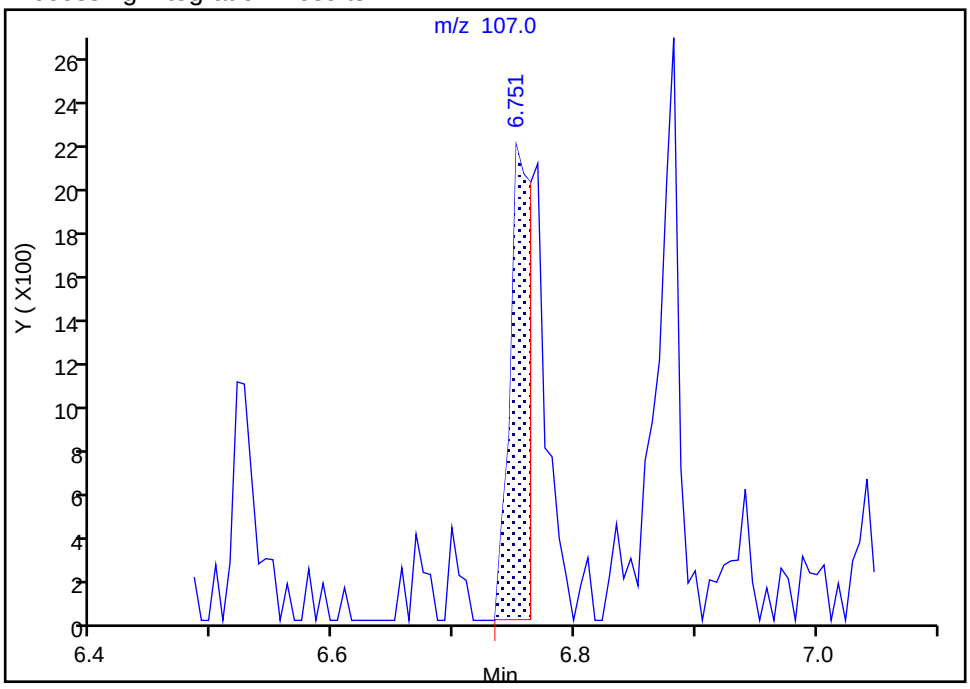
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dimethylphenol, CAS: 105-67-9

Signal: 1

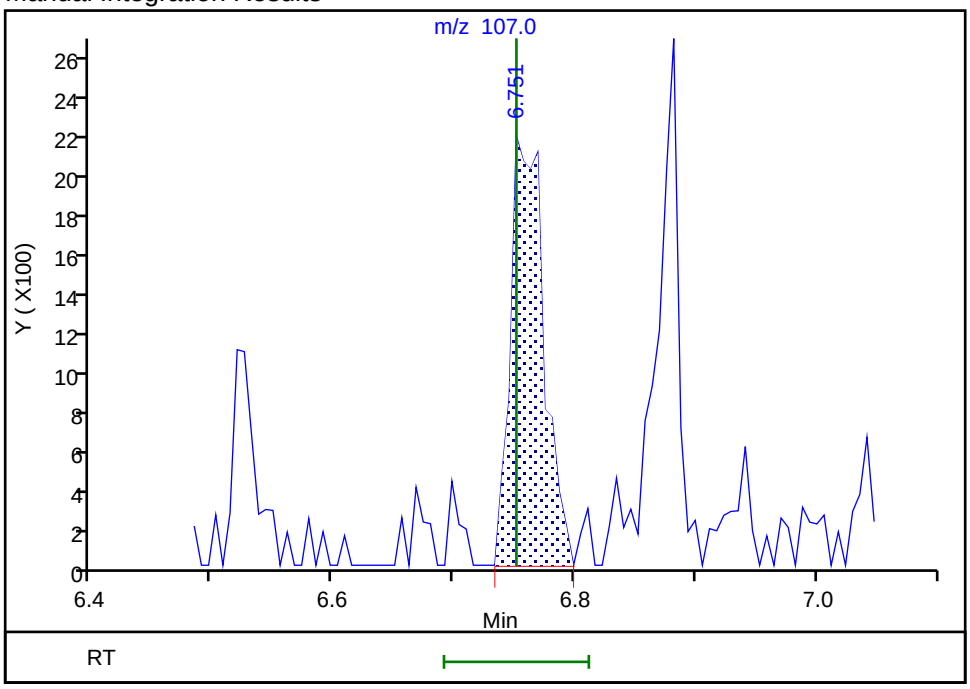
Processing Integration Results

RT: 6.75
Area: 2703
Amount: 0.051395
Amount Units: ng/uL



Manual Integration Results

RT: 6.75
Area: 4210
Amount: 0.080049
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:15:15 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

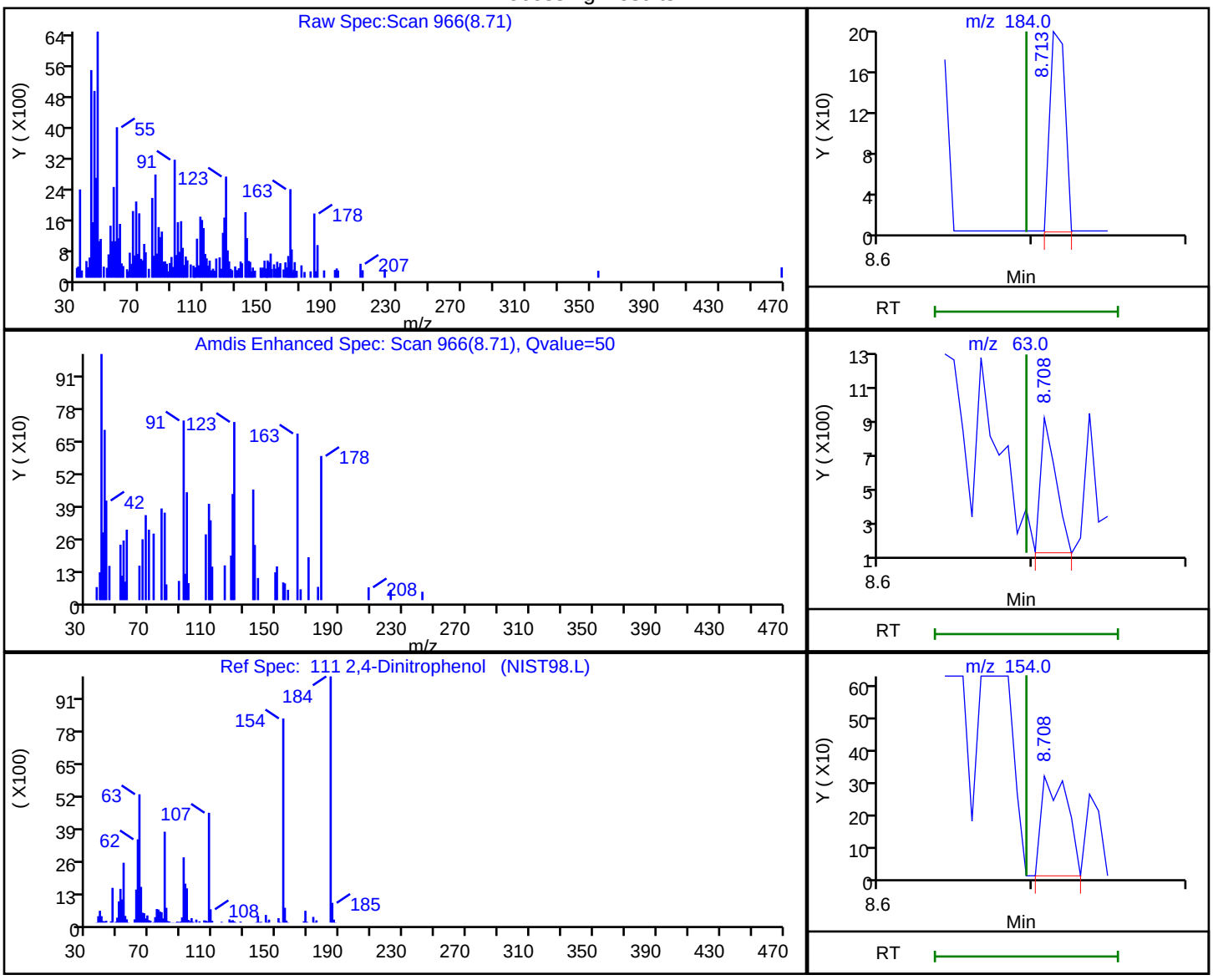
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

111 2,4-Dinitrophenol, CAS: 51-28-5

Processing Results



RT	Mass	Response	Amount
8.71	184.00	132	1.900556
8.71	63.00	479	
8.71	154.00	367	

Reviewer: IZ8L, 30-Oct-2024 15:15:27 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

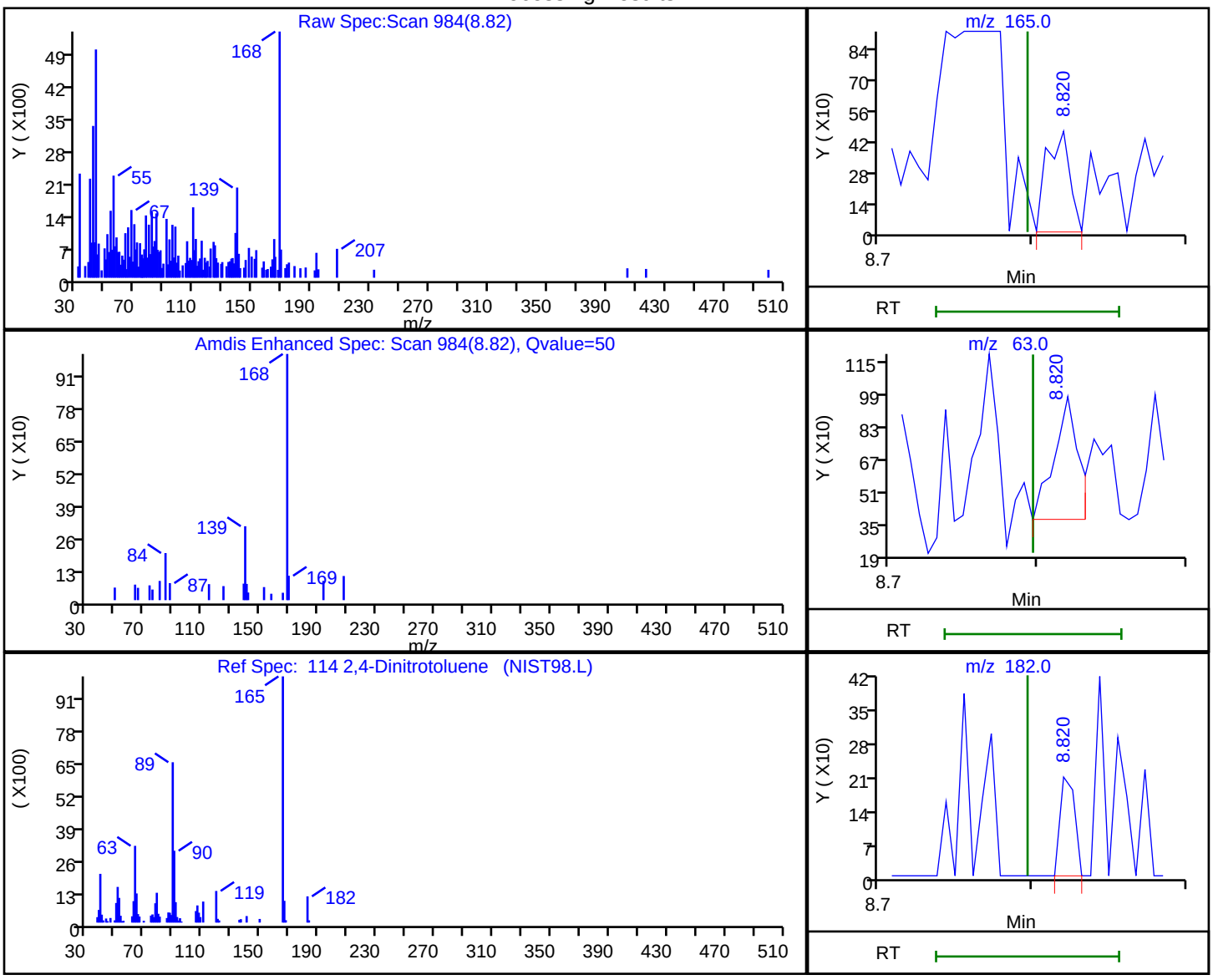
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

114 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
8.82	165.00	477	0.134937
8.82	63.00	708	
8.82	182.00	138	

Reviewer: IZ8L, 30-Oct-2024 15:15:29 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

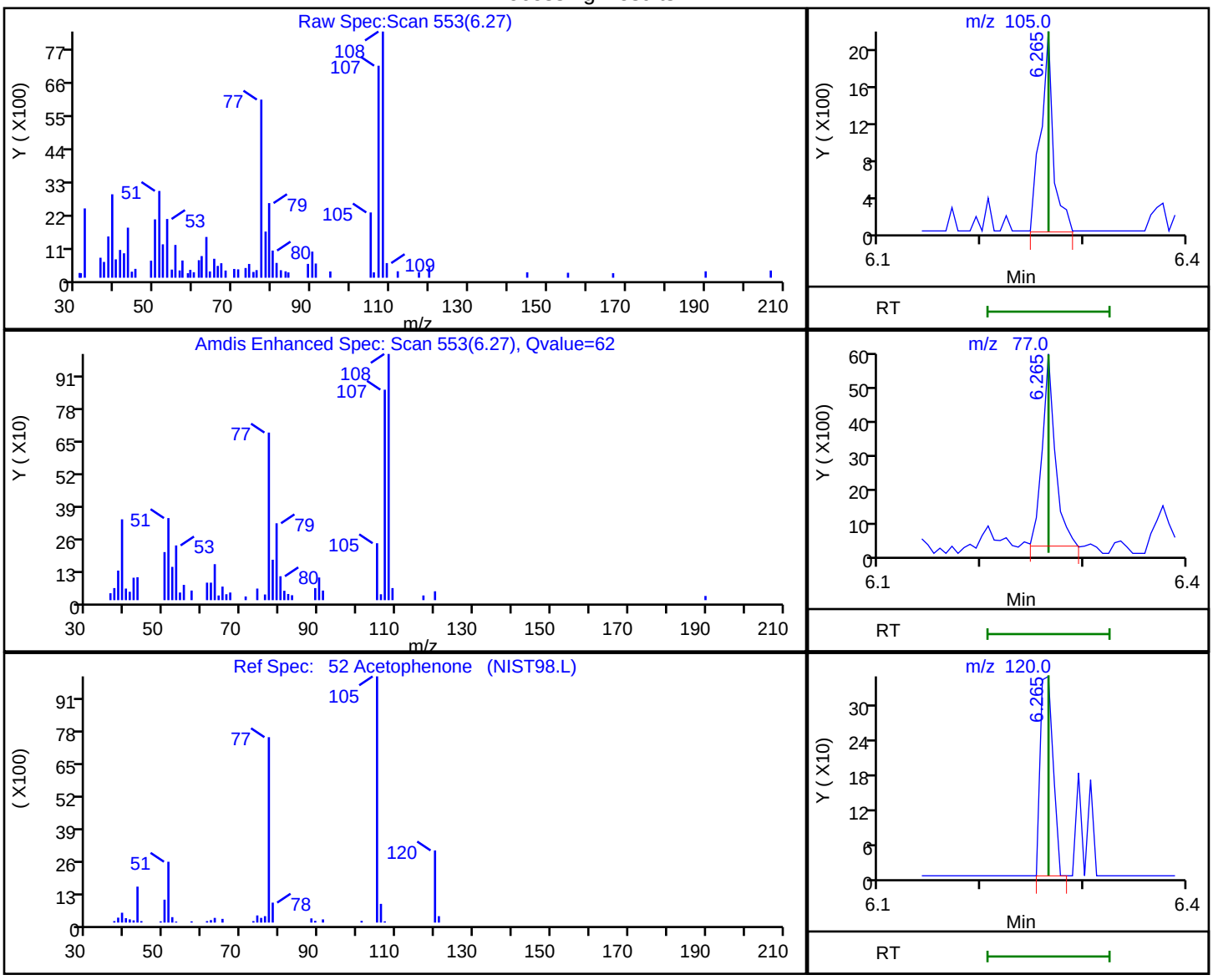
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

52 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
6.27	105.00	1863	0.026301
6.27	77.00	5203	
6.27	120.00	300	

Reviewer: IZ8L, 30-Oct-2024 15:15:05 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

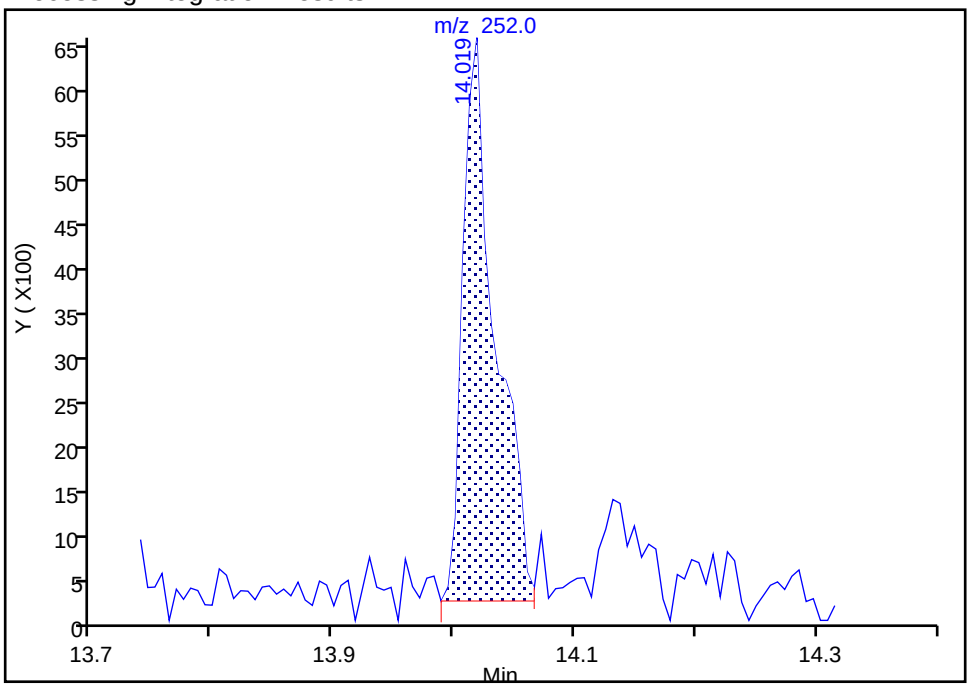
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

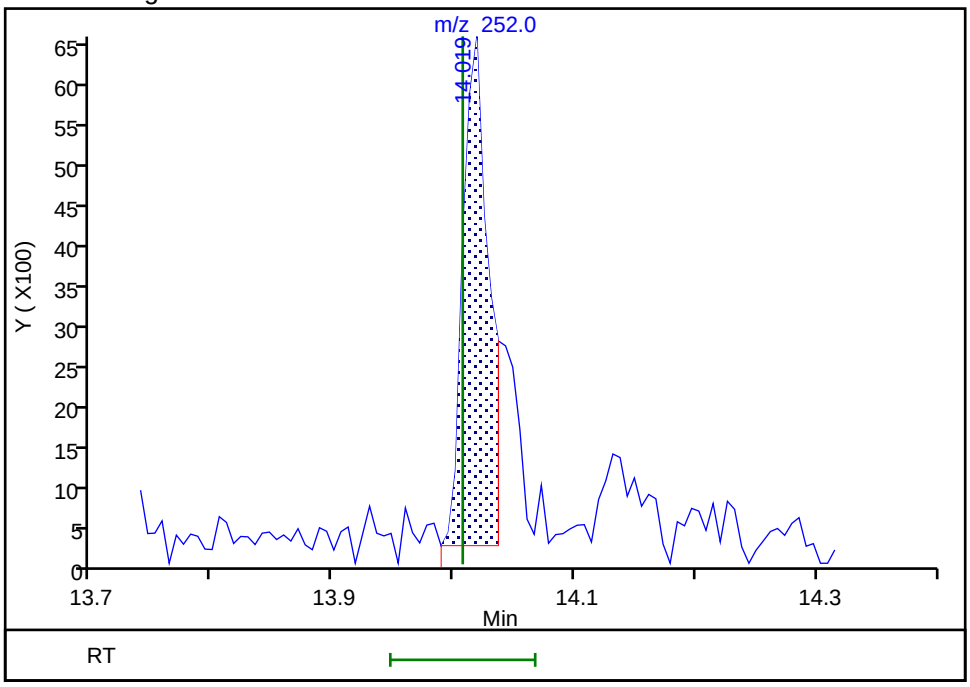
Processing Integration Results

RT: 14.02
Area: 11799
Amount: 0.081006
Amount Units: ng/uL



Manual Integration Results

RT: 14.02
Area: 9443
Amount: 0.068655
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:15:50 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

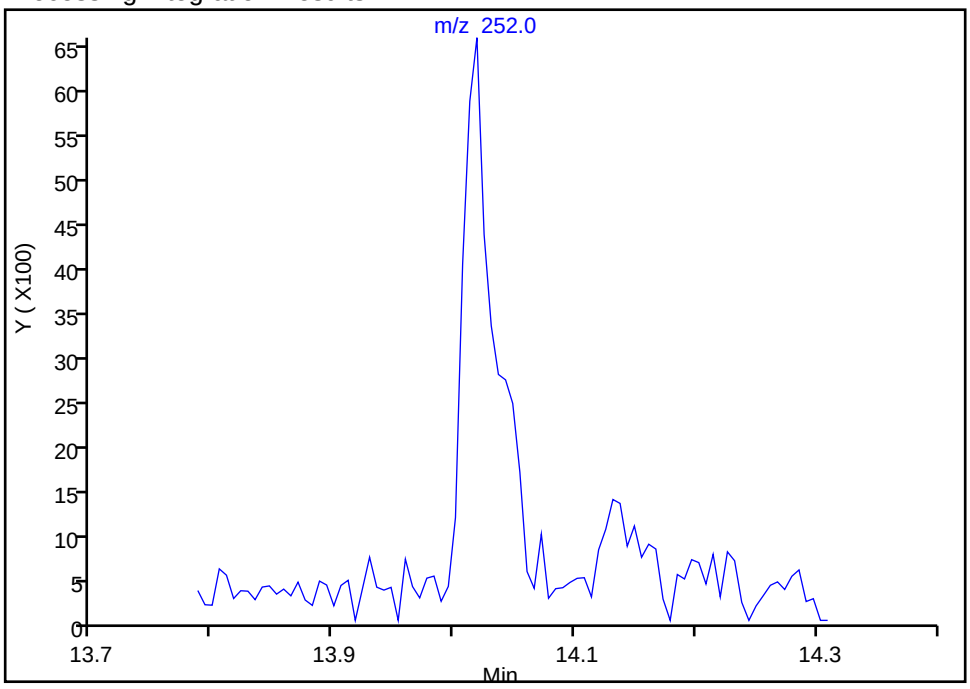
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

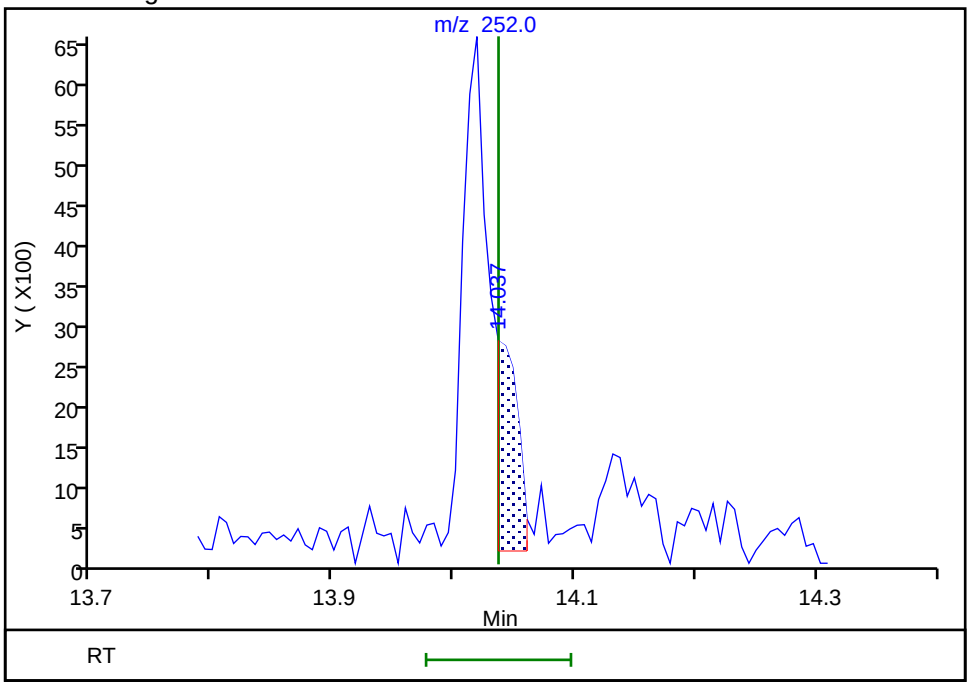
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 3294
Amount: 0.017249
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:15:59 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

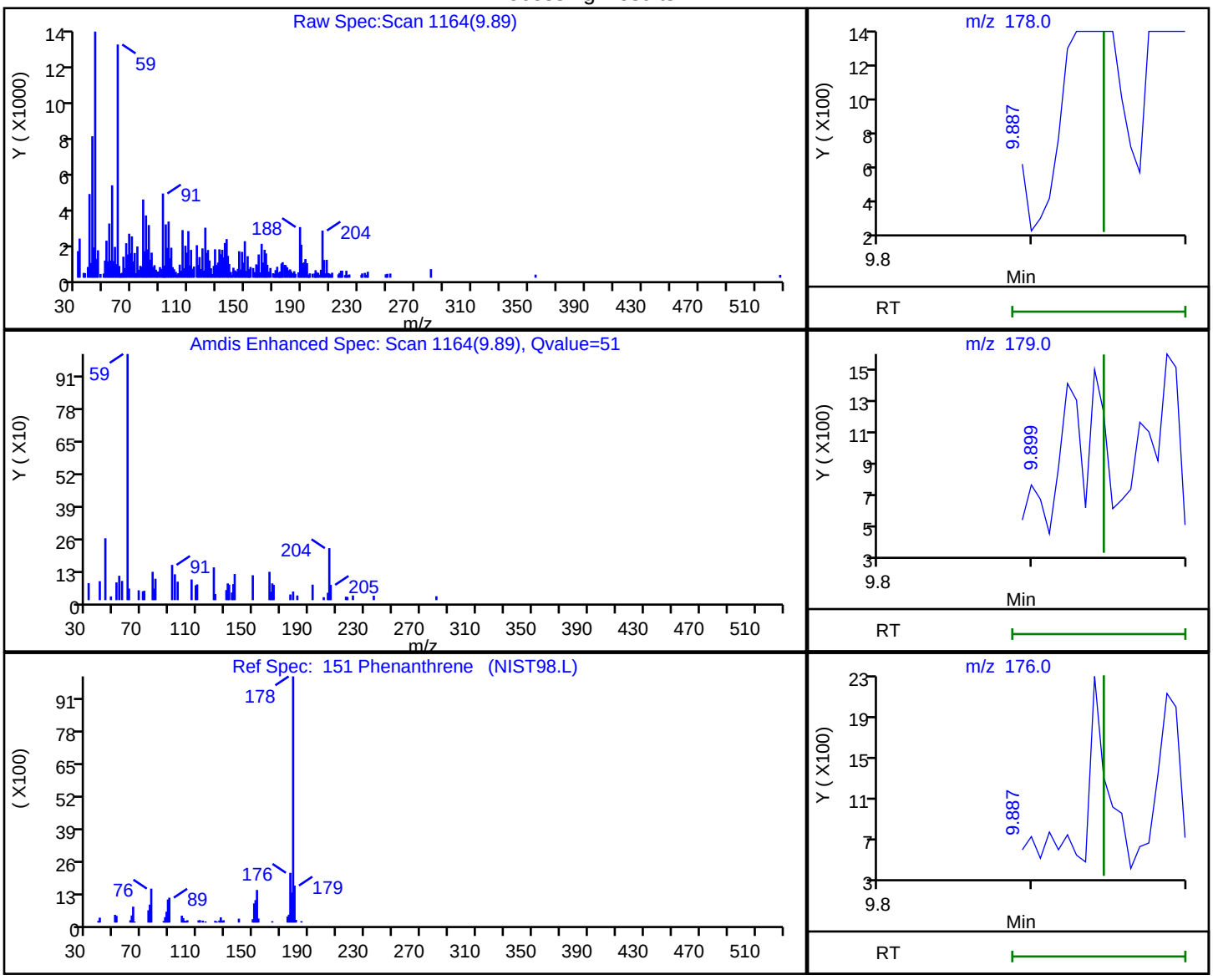
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

151 Phenanthrene, CAS: 85-01-8

Processing Results



RT	Mass	Response	Amount
9.89	178.00	337	0.002029
9.90	179.00	459	
9.89	176.00	528	

Reviewer: IZ8L, 30-Oct-2024 15:15:37 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19A-10252024 | Lab Sample ID: 480-224869-19

Matrix: Water | Lab File ID: Y04607.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 12:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 300

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1500	200
108-60-1	bis (2-chloroisopropyl) ether	ND		1500	160
95-95-4	2,4,5-Trichlorophenol	ND		1500	140
88-06-2	2,4,6-Trichlorophenol	ND		1500	180
120-83-2	2,4-Dichlorophenol	ND		1500	150
105-67-9	2,4-Dimethylphenol	530	J	1500	150
51-28-5	2,4-Dinitrophenol	ND		3000	670
121-14-2	2,4-Dinitrotoluene	ND		1500	130
606-20-2	2,6-Dinitrotoluene	ND		1500	120
91-58-7	2-Chloronaphthalene	ND		1500	140
95-57-8	2-Chlorophenol	ND		1500	160
91-57-6	2-Methylnaphthalene	370	J	1500	180
95-48-7	2-Methylphenol	410	J	1500	120
88-74-4	2-Nitroaniline	ND		3000	130
88-75-5	2-Nitrophenol	ND		1500	140
91-94-1	3,3'-Dichlorobenzidine	ND		1500	120
99-09-2	3-Nitroaniline	ND		3000	140
534-52-1	4,6-Dinitro-2-methylphenol	ND		3000	660
101-55-3	4-Bromophenyl phenyl ether	ND		1500	140
59-50-7	4-Chloro-3-methylphenol	ND		1500	140
106-47-8	4-Chloroaniline	ND		1500	180
7005-72-3	4-Chlorophenyl phenyl ether	ND		1500	110
106-44-5	4-Methylphenol	ND		3000	110
100-01-6	4-Nitroaniline	ND		3000	75
100-02-7	4-Nitrophenol	ND	*+	3000	460
83-32-9	Acenaphthene	ND		1500	120
208-96-8	Acenaphthylene	ND		1500	110
98-86-2	Acetophenone	ND		1500	160
120-12-7	Anthracene	ND		1500	84
1912-24-9	Atrazine	ND		1500	140
100-52-7	Benzaldehyde	ND		1500	80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19A-10252024 | Lab Sample ID: 480-224869-19

Matrix: Water | Lab File ID: Y04607.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 12:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 300

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		1500	110
50-32-8	Benzo(a)pyrene	ND		1500	140
205-99-2	Benzo(b)fluoranthene	ND		1500	100
191-24-2	Benzo(g,h,i)perylene	ND		1500	110
207-08-9	Benzo(k)fluoranthene	ND		1500	220
111-91-1	Bis(2-chloroethoxy)methane	ND		1500	110
111-44-4	Bis(2-chloroethyl)ether	ND		1500	120
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1500	660
85-68-7	Butyl benzyl phthalate	ND		1500	300
105-60-2	Caprolactam	ND		1500	660
86-74-8	Carbazole	110	J	1500	90
218-01-9	Chrysene	ND		1500	99
84-74-2	Di-n-butyl phthalate	ND		1500	93
117-84-0	Di-n-octyl phthalate	ND		1500	140
53-70-3	Dibenz(a,h)anthracene	ND		1500	130
132-64-9	Dibenzofuran	ND		3000	150
84-66-2	Diethyl phthalate	ND		1500	66
131-11-3	Dimethyl phthalate	ND		1500	110
206-44-0	Fluoranthene	ND		1500	120
86-73-7	Fluorene	ND		1500	110
118-74-1	Hexachlorobenzene	ND		1500	150
87-68-3	Hexachlorobutadiene	ND		1500	200
77-47-4	Hexachlorocyclopentadiene	ND		1500	180
67-72-1	Hexachloroethane	ND		1500	180
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1500	140
78-59-1	Isophorone	ND		1500	130
621-64-7	N-Nitrosodi-n-propylamine	ND		1500	160
86-30-6	N-Nitrosodiphenylamine	ND		1500	150
91-20-3	Naphthalene	5800		1500	230
98-95-3	Nitrobenzene	ND		1500	87
87-86-5	Pentachlorophenol	ND		3000	660

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19A-10252024 | Lab Sample ID: 480-224869-19

Matrix: Water | Lab File ID: Y04607.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 12:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 300

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		1500	130
108-95-2	Phenol	ND		1500	120
129-00-0	Pyrene	ND		1500	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	S1-	25-144
321-60-8	2-Fluorobiphenyl	88		53-126
367-12-4	2-Fluorophenol	0	S1-	24-120
4165-60-0	Nitrobenzene-d5	0	S1-	29-129
1718-51-0	p-Terphenyl-d14	58		33-132
4165-62-2	Phenol-d5	0	S1-	10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D
Lims ID: 480-224869-B-19-A
Client ID: MW-BCP-19A-10252024
Sample Type: Client
Inject. Date: 30-Oct-2024 12:34:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 300.0000
Sample Info: 480-0120914-008
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:02:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.883	0.003	96	149305	4.00	
* 2 Naphthalene-d8	136	7.090	7.086	0.004	99	580517	4.00	
* 3 Acenaphthene-d10	164	8.649	8.651	-0.002	95	313224	4.00	
* 4 Phenanthrene-d10	188	9.923	9.926	-0.003	97	551205	4.00	
* 5 Chrysene-d12	240	12.774	12.777	-0.003	99	448752	4.00	
* 6 Perylene-d12	264	14.464	14.460	0.004	97	508008	4.00	
$ 7 2-Fluorophenol	112		4.638				ND	
$ 8 Phenol-d5	99		5.521				ND	
$ 9 Nitrobenzene-d5	82		6.410				ND	
$ 10 2-Fluorobiphenyl	172	8.038	8.035	0.003	95	2522	0.0234	
$ 11 2,4,6-Tribromophenol	330		9.327				ND	
$ 12 p-Terphenyl-d14	244	11.482	11.485	-0.003	93	1894	0.0156	a
35 Benzaldehyde	77		5.474				ND	
37 Phenol	94		5.533				ND	
39 Bis(2-chloroethyl)ether	93		5.604				ND	
40 2-Chlorophenol	128		5.699				ND	
48 2-Methylphenol	108	6.112	6.108	0.004	94	15096	0.3444	
49 2,2'-oxybis[1-chloropropane]	45		6.120				ND	
53 N-Nitrosodi-n-propylamine	70		6.244				ND	
57 4-Methylphenol	108	6.266	6.256	0.010	88	3691	0.0810	
52 Acetophenone	105		6.262				ND	
58 Hexachloroethane	117		6.375				ND	
59 Nitrobenzene	77		6.434				ND	
62 Isophorone	82		6.647				ND	
64 2-Nitrophenol	139		6.730				ND	
66 2,4-Dimethylphenol	107	6.764	6.748	0.016	91	22232	0.4397	
69 Bis(2-chloroethoxy)methane	93		6.819				ND	
72 2,4-Dichlorophenol	162		6.962				ND	
74 Naphthalene	128	7.107	7.110	-0.003	98	743015	4.84	
76 4-Chloroaniline	127		7.145				ND	
79 Hexachlorobutadiene	225		7.205				ND	
84 Caprolactam	113		7.466				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.578				ND	
87 2-Methylnaphthalene	142	7.730	7.726	0.004	89	29367	0.3105	
90 Hexachlorocyclopentadiene	237		7.869				ND	
93 2,4,6-Trichlorophenol	196		7.981				ND	
94 2,4,5-Trichlorophenol	196		8.023				ND	
96 1,1'-Biphenyl	154	8.127	8.129	-0.002	93	4801	0.0418	
97 2-Chloronaphthalene	162		8.165				ND	
100 2-Nitroaniline	65		8.248				ND	
105 Dimethyl phthalate	163		8.372				ND	
107 2,6-Dinitrotoluene	165		8.438				ND	
108 Acenaphthylene	152	8.530	8.533	-0.002	98	8393	0.0605	
109 3-Nitroaniline	138		8.598				ND	
110 Acenaphthene	153		8.681				ND	
111 2,4-Dinitrophenol	184		8.693				ND	
112 4-Nitrophenol	109		8.752				ND	
114 2,4-Dinitrotoluene	165		8.799				ND	
115 Dibenzofuran	168	8.827	8.823	0.003	96	10354	0.0824	
120 Diethyl phthalate	149		8.965				ND	
123 4-Chlorophenyl phenyl ether	204		9.090				ND	
124 Fluorene	166	9.117	9.119	-0.002	94	7748	0.0863	
126 4-Nitroaniline	138		9.131				ND	
127 4,6-Dinitro-2-methylphenol	198		9.155				ND	
130 N-Nitrosodiphenylamine	169		9.190				ND	
139 4-Bromophenyl phenyl ether	248		9.511				ND	
140 Hexachlorobenzene	284		9.605				ND	
143 Atrazine	200		9.617				ND	
145 Pentachlorophenol	266		9.765				ND	
151 Phenanthrene	178	9.947	9.943	0.004	93	8805	0.0578	
152 Anthracene	178		9.991				ND	
153 Carbazole	167	10.125	10.121	0.004	97	12638	0.0933	
157 Di-n-butyl phthalate	149		10.358				ND	
164 Fluoranthene	202		11.111				ND	
167 Pyrene	202		11.372				ND	
174 Butyl benzyl phthalate	149		12.006				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.664				ND	
179 3,3'-Dichlorobenzidine	252		12.700				ND	
180 Benzo[a]anthracene	228		12.765				ND	
182 Chrysene	228		12.806				ND	
184 Di-n-octyl phthalate	149		13.417				ND	
186 Benzo[b]fluoranthene	252		14.010				ND	
187 Benzo[k]fluoranthene	252		14.039				ND	
189 Benzo[a]pyrene	252		14.395				ND	
194 Dibenz(a,h)anthracene	278		15.936				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.948				ND	
195 Benzo[g,h,i]perylene	276		16.393				ND	

QC Flag Legend

Processing Flags

Review Flags
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

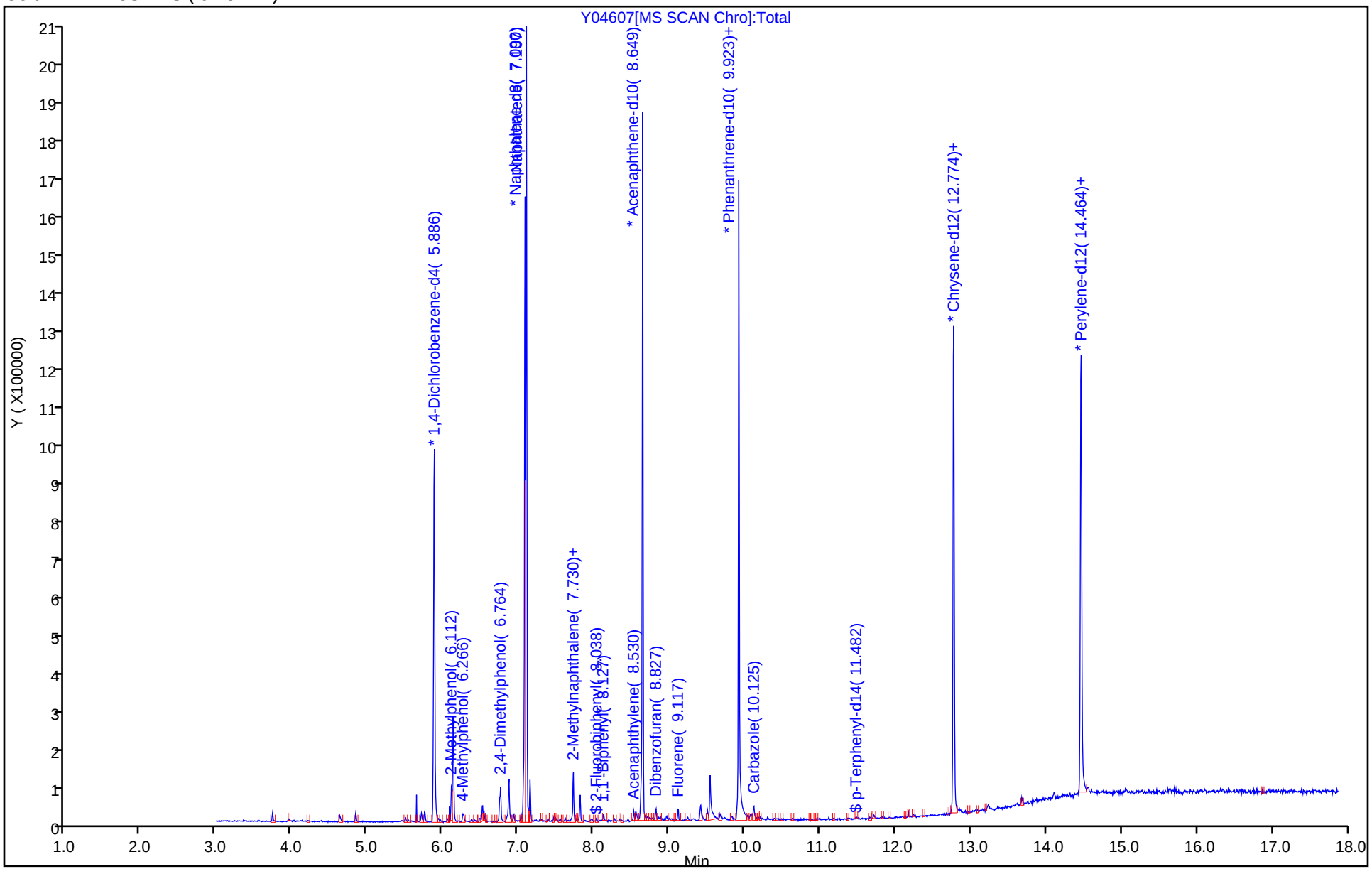
Report Date: 30-Oct-2024 16:06:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D

Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19	Worklist Smp#:	8
Client ID:	MW-BCP-19A-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	300.0000	ALS Bottle#:	8
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D				
Lims ID:	480-224869-B-19-A				
Client ID:	MW-BCP-19A-10252024				
Sample Type:	Client				
Inject. Date:	30-Oct-2024 12:34:30	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Sample Info:	480-0120914-008				
Operator ID:	JM	Instrument ID:	HP5973Y		
Method:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m				
Limit Group:	MB - 8270D ICAL				
Last Update:	30-Oct-2024 16:06:33	Calib Date:	11-Oct-2024 18:51:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D				
Column 1 :	RXI-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1636				

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:02:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorobiphenyl	8.00	0.0234	87.85
$ 12 p-Terphenyl-d14	8.00	0.0156	58.39

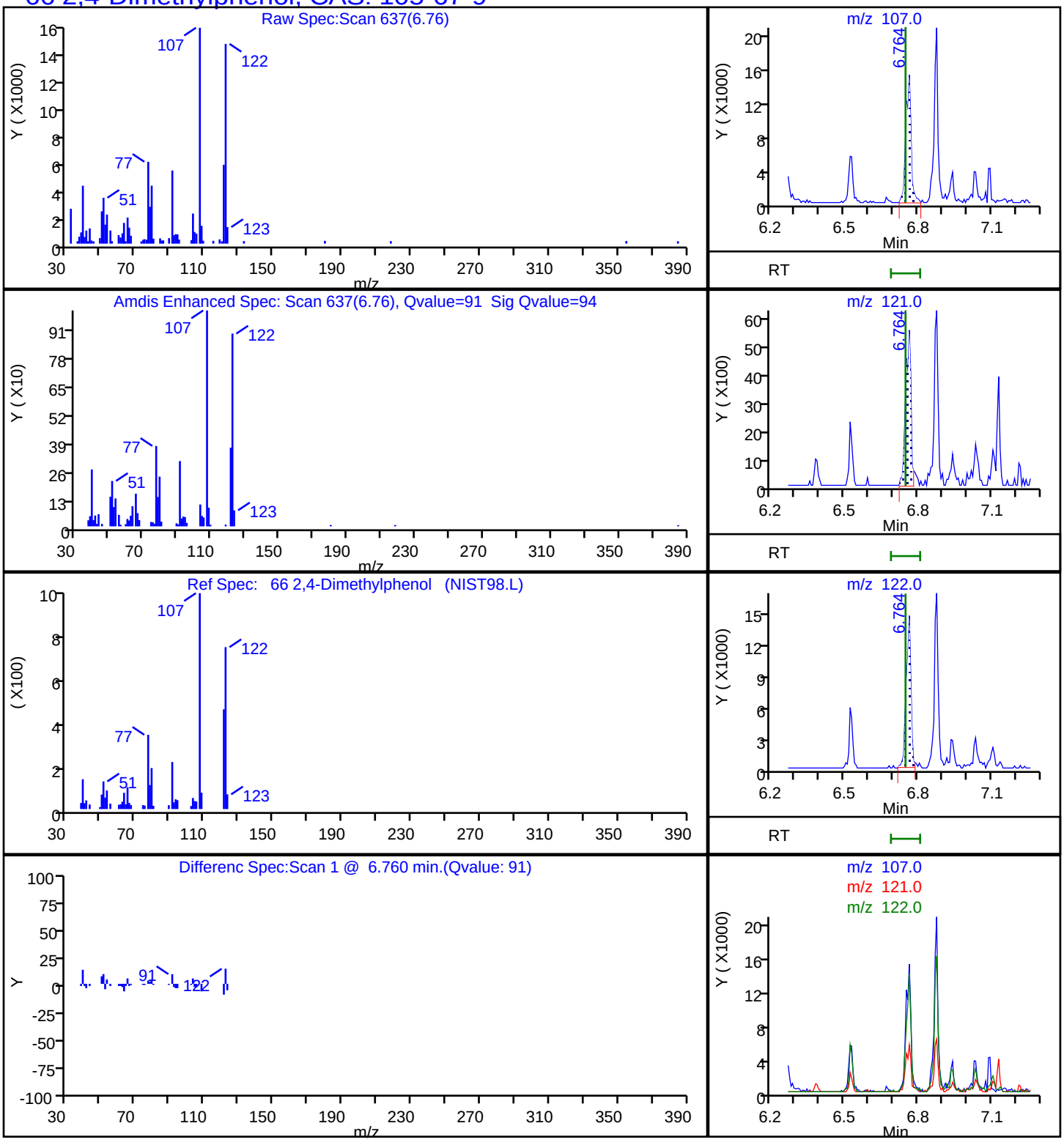
Report Date: 30-Oct-2024 16:06:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D

Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dimethylphenol, CAS: 105-67-9



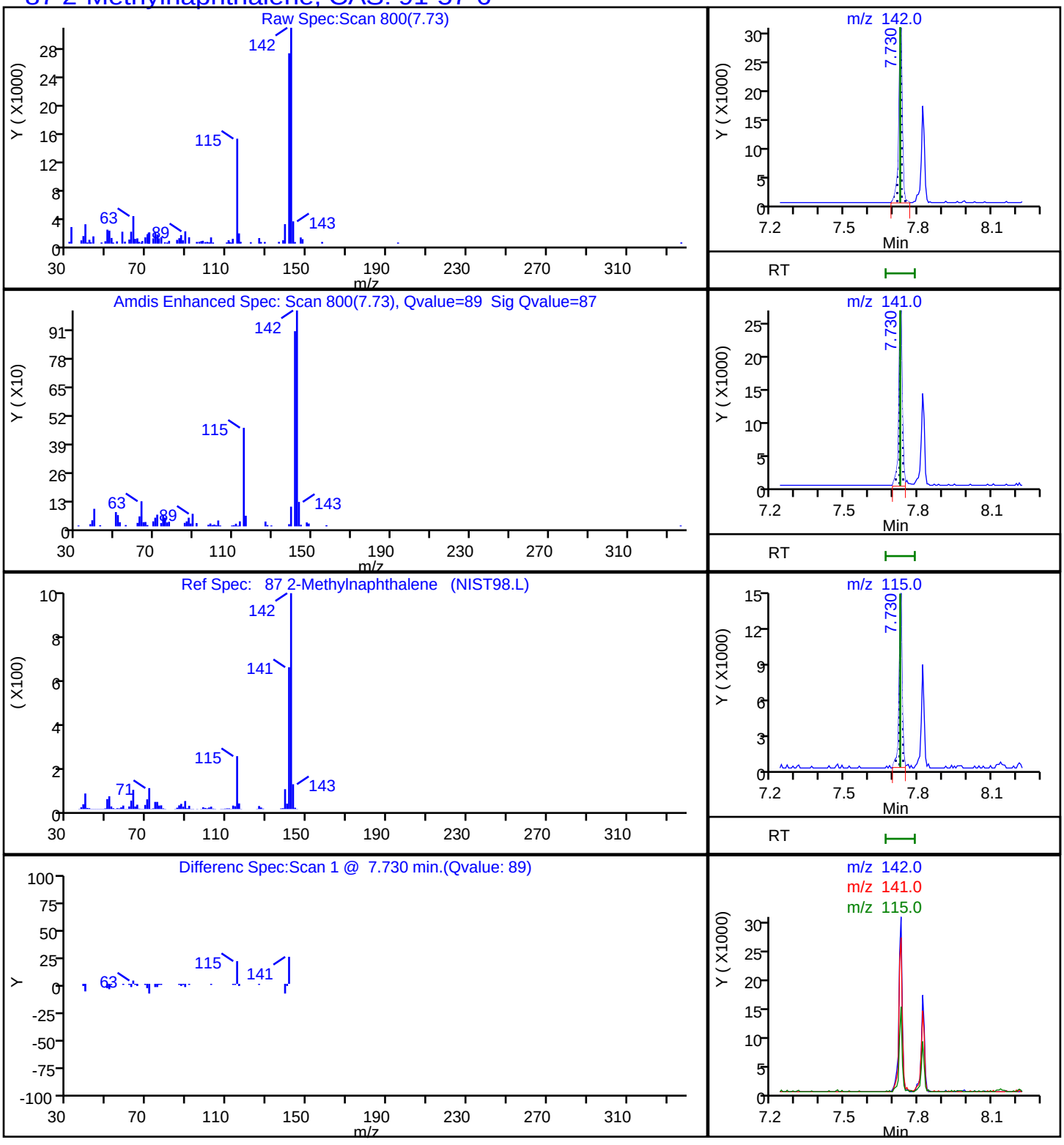
Report Date: 30-Oct-2024 16:06:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D

Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

87 2-Methylnaphthalene, CAS: 91-57-6



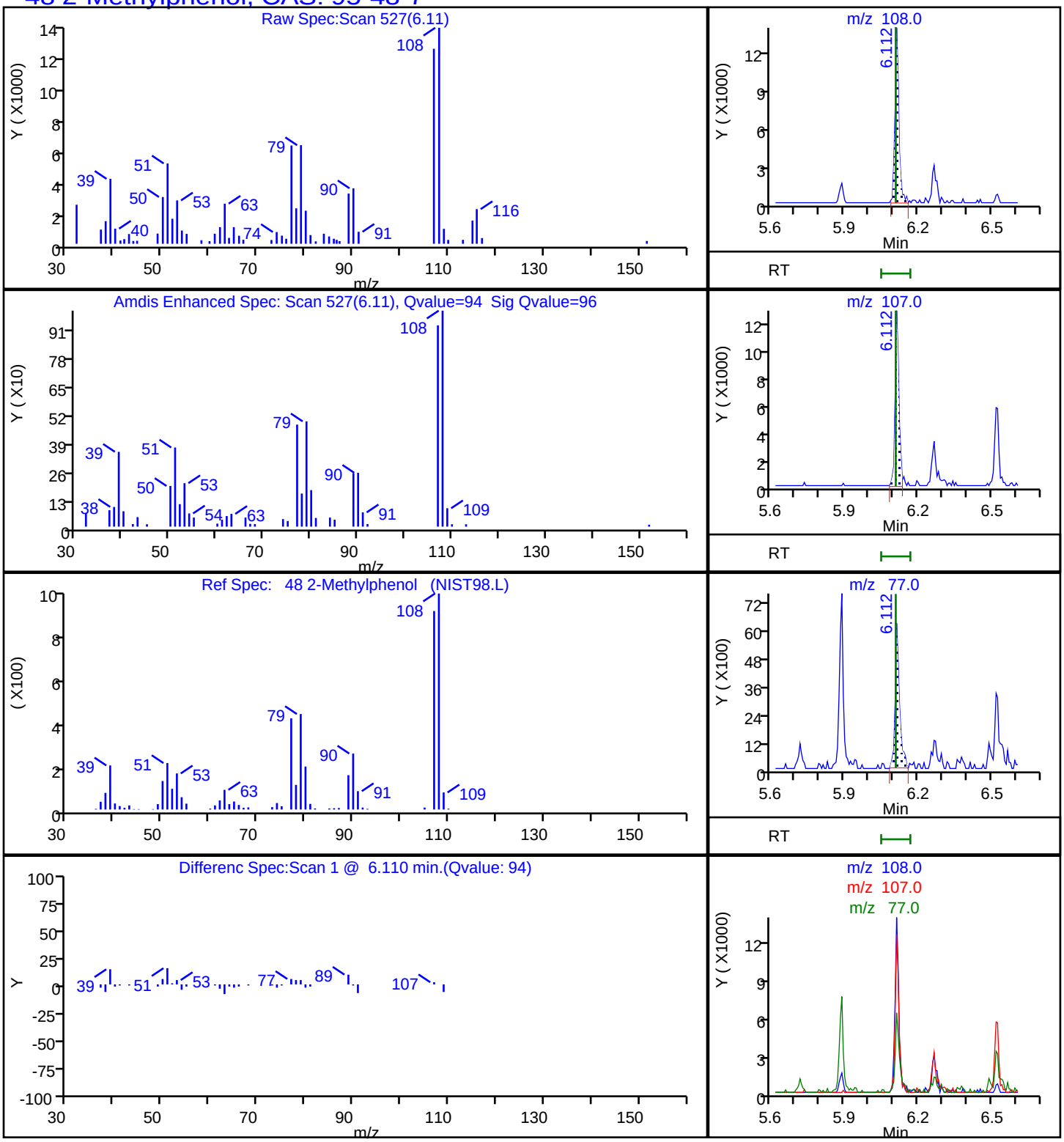
Report Date: 30-Oct-2024 16:06:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D

Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

48 2-Methylphenol, CAS: 95-48-7



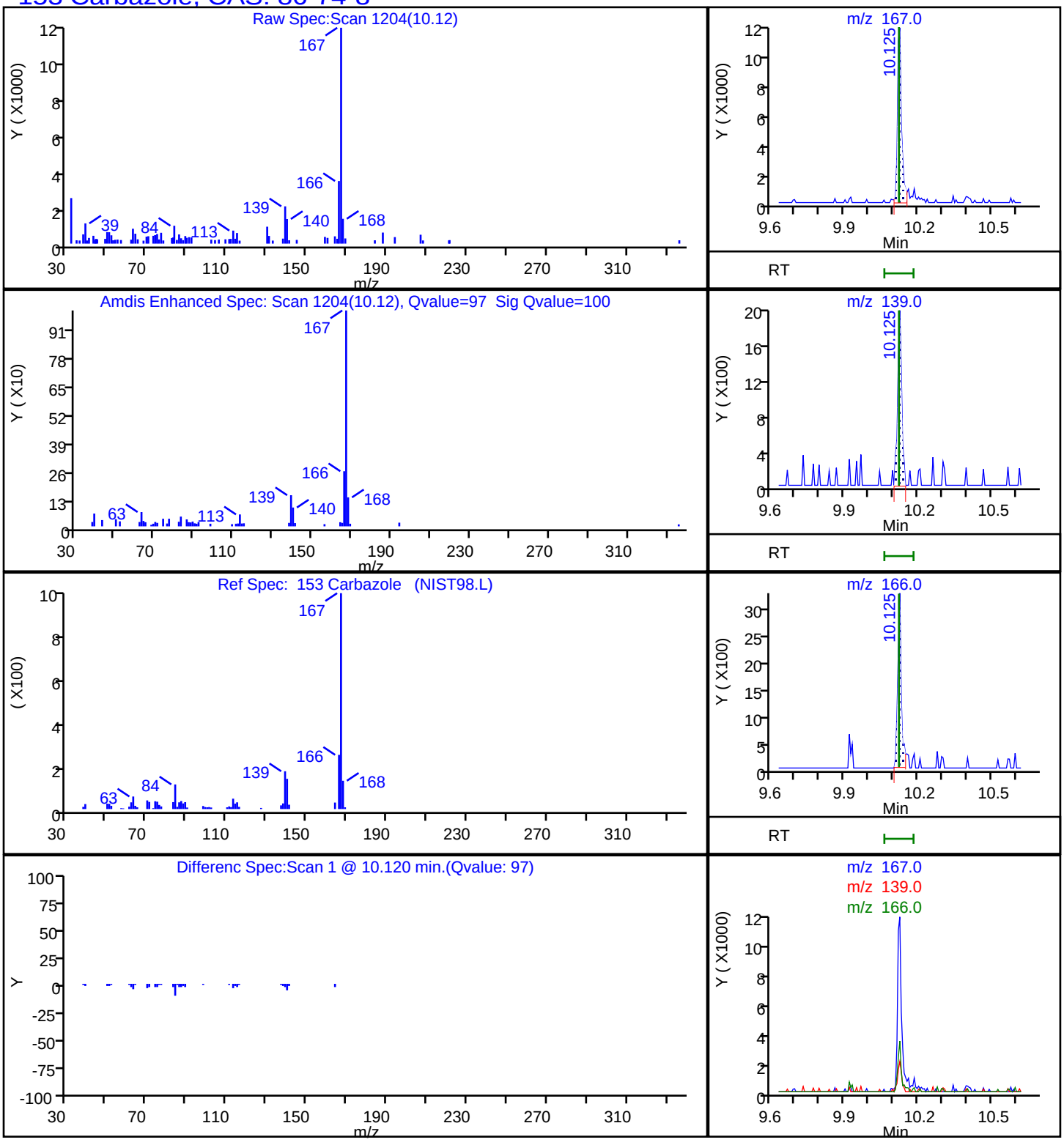
Report Date: 30-Oct-2024 16:06:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D

Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

153 Carbazole, CAS: 86-74-8



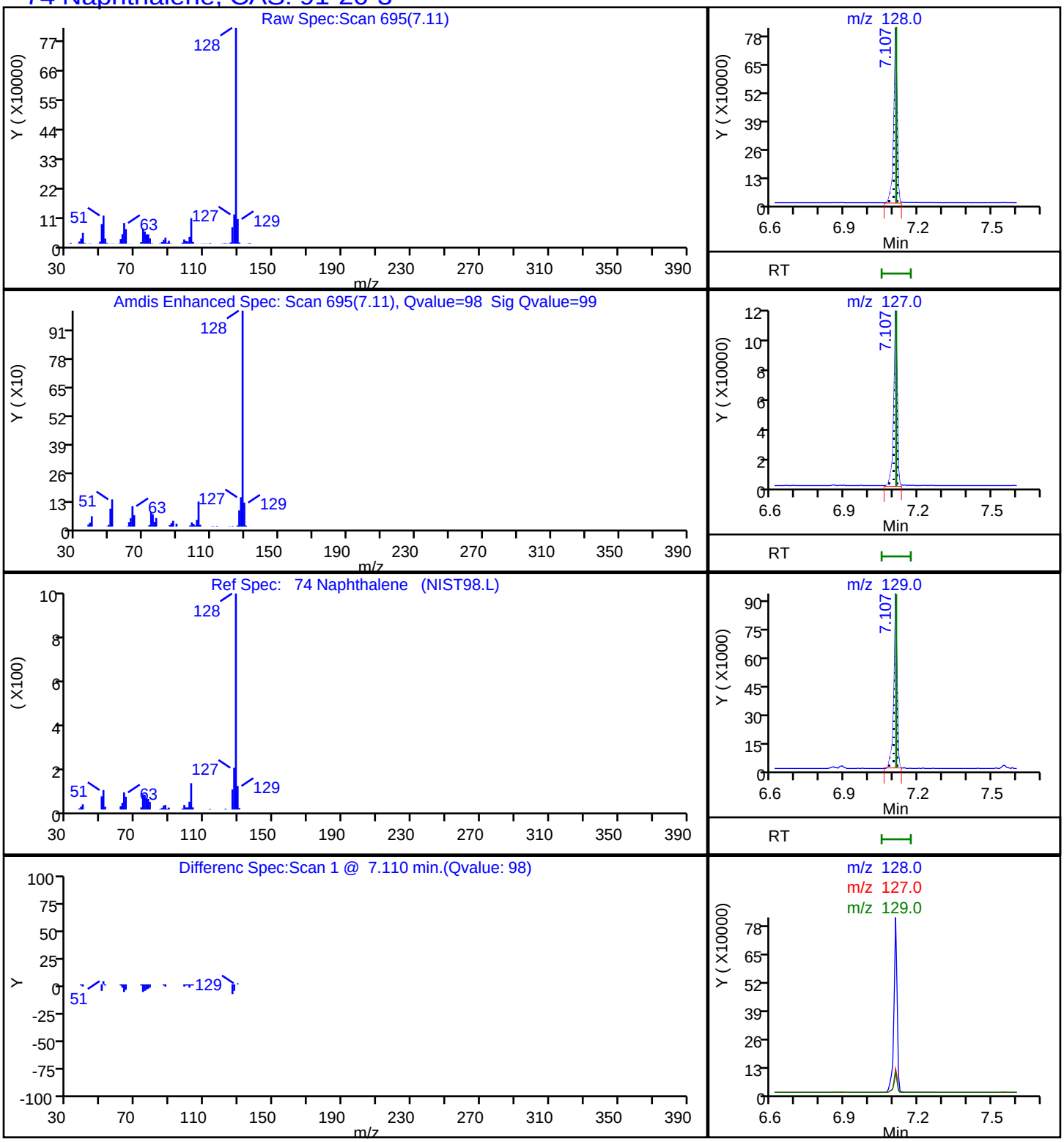
Report Date: 30-Oct-2024 16:06:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D

Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

Eurofins Buffalo

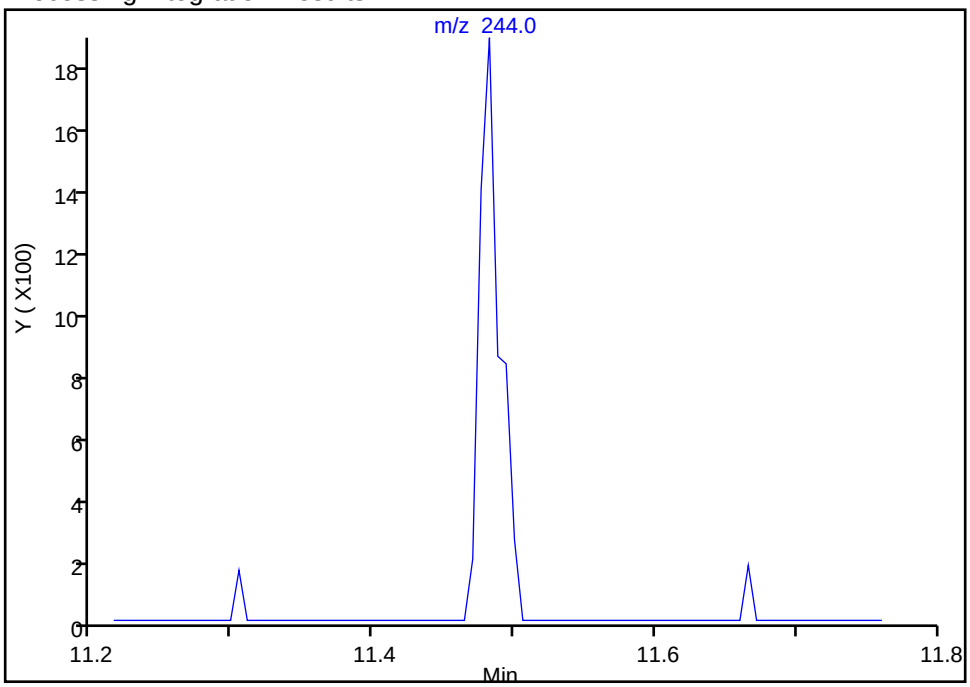
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D				
Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

$ 12 p-Terphenyl-d14, CAS: 1718-51-0

Signal: 1

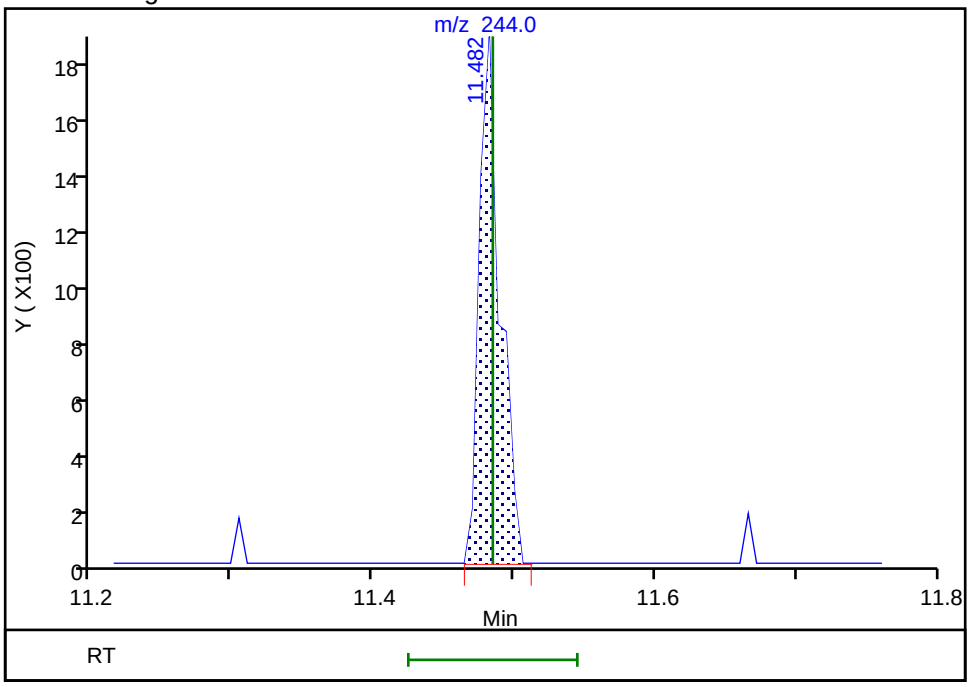
Not Detected
Expected RT: 11.48

Processing Integration Results



Manual Integration Results

RT: 11.48
Area: 1894
Amount: 0.015570
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 16:01:36 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-727763/3	Y04075.D
Level 2	IC 480-727763/4	Y04076.D
Level 3	IC 480-727763/5	Y04077.D
Level 4	IC 480-727763/6	Y04078.D
Level 5	ICIS 480-727763/7	Y04079.D
Level 6	IC 480-727763/8	Y04080.D
Level 7	IC 480-727763/9	Y04081.D
Level 8	IC 480-727763/10	Y04082.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.5130	0.5207 0.4805	0.4978 0.4743	0.4929	0.4830	Ave		0.4946			0.0100	3.5		20.0			
N-Nitrosodimethylamine	0.6419	0.6684 0.6227	0.6243 0.5962	0.6368	0.6134	Ave		0.6291			0.0100	3.6		20.0			
Pyridine	0.7535	0.6144 0.7336	0.6071 0.7365	0.6296	0.6591	Lin2	-0.134	0.7146			0.0100	6.4		20.0	0.9950		0.9900
Benzaldehyde	1.0057	1.1250 0.8977	1.0795 0.8155	1.0949	0.9939	Lin2	0.1152	0.9356			0.0100	9.0		20.0	0.9900		0.9900
Phenol	1.6183	1.5626 1.5865	1.4826 1.5302	1.5490	1.5061	Ave		1.5479			0.8000	3.0		20.0			
Aniline	2.0524	1.8506 1.9274	1.7843 1.9315	1.8579	1.8159	Ave		1.8886			0.0100	4.8		20.0			
Bis(2-chloroethyl)ether	1.2600	1.4208 1.2514	1.3631 1.1641	1.4204	1.2910	Lin2	0.1005	1.2524			0.7000	5.6		20.0	0.9960		0.9900
n-Decane	1.5307	1.5983 1.4225	1.5145 1.3789	1.5099	1.4665	Ave		1.4887			0.0100	4.9		20.0			
2-Chlorophenol	1.3568	1.3028 1.2779	1.2326 1.2811	1.3009	1.2628	Ave		1.2879			0.8000	3.0		20.0			
1,3-Dichlorobenzene	1.5799	1.5975 1.4897	1.5280 1.4669	1.5599	1.4728	Ave		1.5278			0.0100	3.5		20.0			
1,4-Dichlorobenzene	1.6198	1.6272 1.5534	1.5362 1.5215	1.5752	1.5214	Ave		1.5650			0.0100	2.8		20.0			
Benzyl alcohol	0.8713	0.7684 0.8565	0.7544 0.8365	0.8178	0.7968	Lin2	-0.047	0.8417			0.0100	3.7		20.0	0.9980		0.9900
1,2-Dichlorobenzene	1.5162	1.4789 1.4725	1.4560 1.4346	1.4794	1.4384	Ave		1.4680			0.0100	1.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Methylphenol	1.2315	1.1960 1.1806	1.1416 1.1480	1.1883	1.1345	Ave		1.1744			0.7000	3.0		20.0			
bis (2-chloroisopropyl) ether	2.0216	2.1749 1.9088	2.0828 1.8474	2.1058	1.9681	Lin2	0.1321	1.9397			0.0100	3.8		20.0	0.9980		0.9900
Indene	2.3506	2.5901 2.1305	2.4626 1.9362	2.5177	2.3976	Lin2	1.3499	2.2115			0.0100	8.2		20.0	0.9920		0.9900
4-Methylphenol	1.2621	1.1765 1.2637	1.2146 1.2035	1.2170	1.2063	Ave		1.2205			0.6000	2.6		20.0			
N-Nitrosodi-n-propylamine	0.9111	0.8847 0.8838	0.8697 0.8612	0.8959	0.8694	Ave		0.8823			0.5000	2.0		20.0			
Acetophenone	1.7130	1.7556 1.6732	1.6684 1.6896	1.7347	1.6747	Ave		1.7013			0.0100	2.0		20.0			
Hexachloroethane	0.6217	0.6200 0.6036	0.5653 0.5811	0.6019	0.5737	Ave		0.5953			0.3000	3.8		20.0			
Nitrobenzene	0.4013	0.3724 0.3747	0.3485 0.3718	0.3659	0.3698	Ave		0.3721			0.2000	4.2		20.0			
Isophorone	0.7145	0.6423 0.6492	0.6447 0.6554	0.6624	0.6496	Ave		0.6597			0.4000	3.8		20.0			
2-Nitrophenol	0.2060	0.1589 0.1892	0.1574 0.1919	0.1743	0.1798	Lin2	-0.020	0.1913			0.1000	5.9		20.0	0.9960		0.9900
2,4-Dimethylphenol	0.3800	0.3333 0.3485	0.3308 0.3510	0.3489	0.3459	Ave		0.3484			0.2000	4.6		20.0			
Bis(2-chloroethoxy)methane	0.4324	0.4146 0.3939	0.3788 0.3968	0.3960	0.4083	Ave		0.4030			0.3000	4.3		20.0			
Benzoic acid	0.1642	+++++ 0.1720	0.0306 0.1933	0.0710	0.1139	Lin1	-1.245	0.1941			0.0100	14.8		20.0	0.9910		0.9900
2,4-Dichlorophenol	0.3273	0.2673 0.2997	0.2669 0.3045	0.2897	0.2929	Lin2	-0.024	0.3062			0.2000	4.6		20.0	0.9970		0.9900
1,2,4-Trichlorobenzene	0.3631	0.3345 0.3377	0.3204 0.3396	0.3306	0.3472	Ave		0.3390			0.0100	4.0		20.0			
Naphthalene	1.0554 1.1204	1.1020 1.0368	1.0270 1.0265	1.0637	1.0224	Ave		1.0568			0.7000	3.5		20.0			
4-Chloroaniline	0.4438	0.3934 0.3954	0.3865 0.4061	0.4008	0.4015	Ave		0.4039			0.0100	4.6		20.0			
2,6-Dichlorophenol	0.3195	0.2862 0.2985	0.2821 0.3029	0.2926	0.2936	Ave		0.2965			0.0100	4.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.2118	0.1995 0.1935	0.1877 0.1994	0.1955	0.1893	Ave		0.1967			0.0100	4.1		20.0			
Caprolactam	0.1147	0.0958 0.1053	0.0958 0.1128	0.1074	0.1041	Lin2	-0.008	0.1099			0.0100	4.4		20.0	0.9980		0.9900
4-Chloro-3-methylphenol	0.3106	0.2523 0.2797	0.2527 0.2862	0.2835	0.2798	Lin2	-0.022	0.2907			0.2000	4.7		20.0	0.9970		0.9900
2-Methylnaphthalene	0.6317 0.6968	0.6611 0.6399	0.6377 0.6353	0.6650	0.6467	Ave		0.6518			0.4000	3.3		20.0			
1-Methylnaphthalene	0.6180 0.7198	0.6762 0.6538	0.6429 0.6580	0.6694	0.6628	Ave		0.6626			0.0100	4.4		20.0			
Hexachlorocyclopentadiene	0.2638	0.0981 0.2677	0.1395 0.2707	0.1946	0.2234	Lin2	-0.091	0.2606			0.0500	8.7		20.0	0.9900		0.9900
1,2,4,5-Tetrachlorobenzene	0.6246	0.5877 0.5934	0.5902 0.5850	0.5887	0.5748	Ave		0.5921			0.0100	2.6		20.0			
2,4,6-Trichlorophenol	0.3864	0.2974 0.3750	0.3106 0.3745	0.3352	0.3503	Lin2	-0.044	0.3721			0.2000	4.3		20.0	0.9980		0.9900
2,4,5-Trichlorophenol	0.4093	0.3001 0.3908	0.3099 0.4105	0.3490	0.3676	Lin2	-0.057	0.3950			0.2000	5.6		20.0	0.9960		0.9900
Biphenyl	1.5299	1.4665 1.4475	1.4837 1.4166	1.4764	1.4514	Ave		1.4674			0.0100	2.4		20.0			
2-Chloronaphthalene	1.2275	1.2181 1.1617	1.1190 1.1381	1.1899	1.1550	Ave		1.1727			0.8000	3.5		20.0			
2-Nitroaniline	0.3499	0.2607 0.3265	0.2873 0.3320	0.3074	0.3177	Lin2	-0.039	0.3343			0.0100	3.3		20.0	0.9990		0.9900
Dimethyl phthalate	1.3423	1.2523 1.2713	1.2823 1.2586	1.2629	1.2196	Ave		1.2699			0.0100	2.9		20.0			
1,3-Dinitrobenzene	0.1226	0.0769 0.1192	0.0822 0.1235	0.0960	0.1076	Lin2	-0.025	0.1181			0.0100	7.8		20.0	0.9920		0.9900
2,6-Dinitrotoluene	0.3175	0.2393 0.2891	0.2813 0.2868	0.2748	0.2935	Lin2	-0.028	0.2996			0.2000	4.4		20.0	0.9980		0.9900
Acenaphthylene	1.6013 1.8862	1.8092 1.7506	1.7783 1.7333	1.8108	1.8036	Ave		1.7717			0.9000	4.7		20.0			
3-Nitroaniline	0.3220	0.2249 0.3094	0.2425 0.3067	0.2787	0.2937	Lin2	-0.048	0.3102			0.0100	4.3		20.0	0.9980		0.9900
Acenaphthene	1.1529 1.2306	1.2051 1.1672	1.1784 1.1819	1.2064	1.1673	Ave		1.1862			0.9000	2.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2,4-Dinitrophenol	0.1220	+++++ 0.1319	0.0386 0.1413	0.0647	0.0855	Lin1	-0.270	0.1428			0.0100	14.3		20.0	0.9920		0.9900
4-Nitrophenol	0.1373	0.0707 0.1325	0.0864 0.1360	0.1041	0.1179	Lin2	-0.069	0.1320			0.0100	7.3		20.0	0.9930		0.9900
2,4-Dinitrotoluene	0.4067	0.3033 0.3859	0.3300 0.3892	0.3467	0.3606	Lin2	-0.047	0.3872			0.2000	4.3		20.0	0.9980		0.9900
Dibenzofuran	1.5670 1.6835	1.6454 1.5484	1.5971 1.5623	1.6320	1.5990	Ave		1.6043			0.8000	2.9		20.0			
2,3,4,6-Tetrachlorophenol	0.2961	0.1824 0.2910	0.1975 0.2859	0.2292	0.2507	Lin2	-0.058	0.2810			0.0100	8.0		20.0	0.9920		0.9900
Hexadecane	0.8548	0.8248 0.7771	0.7851 0.7273	0.8201	0.7899	Ave		0.7970			0.0100	5.1		20.0			
Diethyl phthalate	1.3357	1.2309 1.2226	1.2347 1.2274	1.2742	1.2600	Ave		1.2550			0.0100	3.2		20.0			
4-Chlorophenyl phenyl ether	0.6760	0.6613 0.6102	0.6230 0.6095	0.6357	0.6215	Ave		0.6339			0.4000	4.1		20.0			
Fluorene	1.1877 1.4297	1.4059 1.2491	1.3576 1.3167	1.3614	1.3196	Lin2	-0.018	1.3555			0.9000	5.0		20.0	0.9970		0.9900
4-Nitroaniline	0.3424	0.2734 0.3187	0.2756 0.3226	0.3106	0.3138	Lin2	-0.031	0.3259			0.0100	4.2		20.0	0.9980		0.9900
4,6-Dinitro-2-methylphenol	0.1175	0.0481 0.1160	0.0640 0.1264	0.0883	0.0970	Lin1	-0.103	0.1234			0.0100	12.2		20.0	0.9960		0.9900
Diphenylamine	0.6855	0.6257 0.6555	0.6309 0.6529	0.6553	0.6245	Ave		0.6472			0.0100	3.4		20.0			
N-Nitrosodiphenylamine	0.5861	0.5350 0.5605	0.5394 0.5582	0.5603	0.5340	Ave		0.5533			0.0100	3.4		20.0			
1,2-Diphenylhydrazine	0.7622	0.7397 0.7169	0.7123 0.6988	0.7788	0.7481	Ave		0.7367			0.0100	3.9		20.0			
trans-Azobenzene	0.7622	0.7397 0.7169	0.7123 0.6988	0.7788	0.7481	Ave		0.7367			0.0100	3.9		20.0			
4-Bromophenyl phenyl ether	0.2428	0.2171 0.2275	0.2186 0.2263	0.2255	0.2228	Ave		0.2258			0.1000	3.8		20.0			
Hexachlorobenzene	0.2553	0.2448 0.2496	0.2244 0.2379	0.2504	0.2397	Ave		0.2431			0.1000	4.2		20.0			
Atrazine	0.3463	0.3507 0.3307	0.3338 0.2917	0.3478	0.3314	Lin2	0.0136	0.3254			0.0100	5.9		20.0	0.9960		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octadecane	0.5061	0.4724 0.4721	0.4838 0.4618	0.5188	0.5033	Ave		0.4883			0.0100	4.4		20.0			
Pentachlorophenol	0.1136	0.0290 0.1194	0.0414 0.1195	0.0630	0.0842	Lin1	-0.137	0.1207			0.0500	20.7	*	20.0	0.9910		0.9900
Phenanthrene	1.1079 1.1245	1.1425 1.0733	1.0794 1.0802	1.1280	1.1104	Ave		1.1058			0.7000	2.3		20.0			
Anthracene	1.0100 1.1640	1.1017 1.0958	1.0976 1.1031	1.1717	1.1073	Ave		1.1064			0.7000	4.5		20.0			
Carbazole	1.0198	0.9607 0.9741	0.9613 0.9625	1.0153	0.9878	Ave		0.9831			0.0100	2.6		20.0			
Di-n-butyl phthalate	1.3401	1.2259 1.2602	1.2347 1.2239	1.2884	1.2794	Ave		1.2647			0.0100	3.3		20.0			
Fluoranthene	1.1480 1.2450	1.1257 1.1923	1.1381 1.1437	1.2223	1.1765	Ave		1.1740			0.6000	3.7		20.0			
Benzidine	0.9092	0.6844 0.8802	0.7918 0.7978	0.7445	0.7749	Lin2	-0.161	0.8437			0.0100	6.7		20.0	0.9940		0.9900
Pyrene	1.2469 1.4414	1.3480 1.3443	1.3448 1.2800	1.3927	1.3187	Ave		1.3396			0.6000	4.5		20.0			
Butyl benzyl phthalate	0.6766	0.5334 0.6583	0.5785 0.6133	0.6115	0.5969	Lin2	-0.057	0.6427			0.0100	4.3		20.0	0.9980		0.9900
Bis(2-ethylhexyl) phthalate	0.9697	0.7612 0.9196	0.8121 0.8513	0.8962	0.8871	Lin2	-0.081	0.9178			0.0100	4.6		20.0	0.9970		0.9900
3,3'-Dichlorobenzidine	0.6993	0.6153 0.6620	0.6062 0.6210	0.5973	0.6307	Lin2	-0.047	0.6466			0.0100	5.4		20.0	0.9960		0.9900
Benzo(a)anthracene	1.3814 1.4379	1.3782 1.3760	1.3477 1.3087	1.3932	1.3338	Ave		1.3696			0.8000	2.9		20.0			
Chrysene	1.2455 1.2995	1.2671 1.2668	1.2332 1.1868	1.2917	1.2207	Ave		1.2514			0.7000	3.0		20.0			
Di-n-octyl phthalate	1.6104	1.3055 1.5489	1.3993 1.4642	1.5090	1.5011	Lin2	-0.124	1.5483			0.0100	3.3		20.0	0.9990		0.9900
Benzo(b)fluoranthene	1.1028 1.3951	1.2035 1.2554	1.1342 1.2763	1.3187	1.2682	Lin2	-0.025	1.2812			0.7000	5.8		20.0	0.9970		0.9900
Benzo(k)fluoranthene	1.2077 1.2933	1.3562 1.2980	1.2668 1.1984	1.4090	1.2309	Ave		1.2825			0.7000	5.7		20.0			
Benzo(a)pyrene	0.9422 1.2171	1.0964 1.1564	1.0658 1.1055	1.1392	1.1181	Lin2	-0.026	1.1438			0.7000	3.7		20.0	0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibenz(a,h)anthracene	0.9314 1.2053	1.1038 1.1419	1.0595 1.0922	1.1070	1.1226	Lin2	-0.025	1.1336			0.4000	3.7		20.0	0.9990		0.9900
Indeno(1,2,3-cd)pyrene	1.1904 1.5095	1.3328 1.4192	1.3057 1.3314	1.4091	1.3937	Lin2	-0.028	1.4033			0.5000	4.4		20.0	0.9980		0.9900
Benzo(g,h,i)perylene	0.9518 1.1747	1.0935 1.0839	1.0503 1.0366	1.0982	1.0997	Lin2	-0.018	1.1008			0.5000	4.1		20.0	0.9980		0.9900
2-Fluorophenol	1.3078	1.2140 1.2417	1.1704 1.2544	1.2561	1.1829	Ave		1.2325			0.0100	3.8		20.0			
Phenol-d5	1.5795	1.5086 1.5368	1.4629 1.5178	1.5456	1.5075	Ave		1.5227			0.0100	2.4		20.0			
Nitrobenzene-d5	0.4093	0.3608 0.3729	0.3468 0.3768	0.3668	0.4035	Lin2	-0.019	0.3874			0.0100	5.2		20.0	0.9970		0.9900
2-Fluorobiphenyl	1.4187	1.4170 1.3701	1.3558 1.3290	1.3873	1.3459	Ave		1.3748			0.0100	2.5		20.0			
2,4,6-Tribromophenol	0.0970	0.0689 0.1070	0.0811 0.1041	0.0901	0.0941	Lin2	-0.018	0.1020			0.0100	4.3		20.0	0.9980		0.9900
p-Terphenyl-d14	1.1603	1.0637 1.1099	1.0500 1.0535	1.1198	1.0330	Ave		1.0843			0.0100	4.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil M ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-727763/3	Y04075.D
Level 2	IC 480-727763/4	Y04076.D
Level 3	IC 480-727763/5	Y04077.D
Level 4	IC 480-727763/6	Y04078.D
Level 5	ICIS 480-727763/7	Y04079.D
Level 6	IC 480-727763/8	Y04080.D
Level 7	IC 480-727763/9	Y04081.D
Level 8	IC 480-727763/10	Y04082.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd4	Ave	201388	12893 288589	25620 388563	50362	103302	8.00	0.500 12.0	1.00 16.0	2.00	4.00
N-Nitrosodimethylamine	DCBd4	Ave	252000	16549 374033	32131 488368	65056	131212	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Pyridine	DCBd4	Lin2	591576	30426 881201	62500 1206662	128655	281968	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Benzaldehyde	DCBd4	Lin2	394805	27856 539180	55562 668047	111862	212593	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Phenol	DCBd4	Ave	635286	38689 952917	76310 1253502	158259	322154	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Aniline	DCBd4	Ave	805708	45821 1157628	91840 1582175	189816	388415	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Bis(2-chloroethyl)ether	DCBd4	Lin2	494654	35178 751606	70159 953587	145111	276130	8.00	0.500 12.0	1.00 16.0	2.00	4.00
n-Decane	DCBd4	Ave	600915	39573 854400	77950 1129545	154256	313672	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Chlorophenol	DCBd4	Ave	532626	32258 767543	63442 1049409	132912	270114	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,3-Dichlorobenzene	DCBd4	Ave	620226	39554 894753	78644 1201589	159373	315016	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,4-Dichlorobenzene	DCBd4	Ave	635898	40290 933023	79069 1246313	160927	325428	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzyl alcohol	DCBd4	Lin2	342028	19026 514426	38828 685189	83551	170430	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,2-Dichlorobenzene	DCBd4	Ave	595203	36618 884432	74941 1175134	151147	307674	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Methylphenol	DCBd4	Ave	483464	29614 709102	58756 940390	121402	242675	8.00	0.500 12.0	1.00 16.0	2.00	4.00
bis (2-chloroisopropyl) ether	DCBd4	Lin2	793612	53851 1146472	107201 1513324	215142	420966	8.00	0.500 12.0	1.00 16.0	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil M ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Indene	DCBd4	Lin2	5536590	384781 7677773	760498 9516331	1543302	3077049	48.0	3.00 72.0	6.00 96.0	12.0	24.0
4-Methylphenol	DCBd4	Ave	495459	29131 759028	62517 985877	124337	258015	8.00	0.500 12.0	1.00 16.0	2.00	4.00
N-Nitrosodi-n-propylamine	DCBd4	Ave	357657	21906 530861	44766 705482	91529	185957	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Acetophenone	DCBd4	Ave	672484	43469 1004965	85873 1384078	177222	358207	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Hexachloroethane	DCBd4	Ave	244076	15352 362568	29094 476051	61496	122711	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Nitrobenzene	NPT	Ave	552766	34315 830391	67406 1093846	139031	286118	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Isophorone	NPT	Ave	984281	59179 1438481	124676 1928267	251667	502690	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Nitrophenol	NPT	Lin2	283844	14641 419172	30445 564513	66228	139128	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4-Dimethylphenol	NPT	Ave	523454	30712 772241	63972 1032776	132567	267653	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Bis(2-chloroethoxy)methane	NPT	Ave	595617	38197 872899	73252 1167515	150446	315943	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzoic acid	NPT	Lin1	1357379	+++++ 2286859	35478 3413031	161927	528596	48.0	+++++ 72.0	6.00 96.0	12.0	24.0
2,4-Dichlorophenol	NPT	Lin2	450841	24629 664033	51608 895773	110071	226619	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,2,4-Trichlorobenzene	NPT	Ave	500259	30818 748247	61955 999125	125604	268660	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Naphthalene	NPT	Ave	24071 1543465	101531 2297512	198619 3020076	404137	791133	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Chloroaniline	NPT	Ave	611393	36243 876079	74750 1194831	152287	310670	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,6-Dichlorophenol	NPT	Ave	440175	26371 661450	54561 891154	111168	227171	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Hexachlorobutadiene	NPT	Ave	291805	18378 428760	36304 586725	74282	146471	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Caprolactam	NPT	Lin2	158008	8828 233241	18523 331924	40787	80525	8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Chloro-3-methylphenol	NPT	Lin2	427827	23244 619791	48868 842075	107700	216526	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Methylnaphthalene	NPT	Ave	14407 959857	60907 1418012	123332 1868985	252648	500396	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
1-Methylnaphthalene	NPT	Ave	14096	62302	124338	254308	512870	0.125	0.500	1.00	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil M ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			991555	1448641	1935880			8.00	12.0	16.0		
Hexachlorocyclopentadiene	ANT	Lin2	219143	5221 347952	15226 474237	42836	101650	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	518910	31273 771203	64406 1024995	129575	261601	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4,6-Trichlorophenol	ANT	Lin2	321015	15827 487345	33894 656205	73777	159433	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4,5-Trichlorophenol	ANT	Lin2	340046	15969 507905	33819 719151	76811	167313	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Biphenyl	ANT	Ave	1271064	78035 1881341	161912 2481826	324951	660505	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Chloronaphthalene	ANT	Ave	1019822	64817 1509925	122108 1993918	261881	525631	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Nitroaniline	ANT	Lin2	290671	13872 424380	31352 581740	67657	144596	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Dimethyl phthalate	ANT	Ave	1115216	66641 1652345	139938 2205033	277953	555042	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,3-Dinitrobenzene	NPT	Lin2	168925	7085 264071	15905 363298	36464	83286	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,6-Dinitrotoluene	ANT	Lin2	263755	12732 375772	30701 502500	60492	133588	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Acenaphthylene	ANT	Ave	21302 1567151	96273 2275315	194062 3036756	398540	820797	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
3-Nitroaniline	ANT	Lin2	267530	11968 402145	26459 537274	61330	133682	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Acenaphthene	ANT	Ave	15337 1022418	64126 1517015	128599 2070750	265517	531244	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4-Dinitrophenol	ANT	Lin1	202787	+++++ 342942	8429 494994	28464	77786	16.0	+++++ 24.0	2.00 32.0	4.00	8.00
4-Nitrophenol	ANT	Lin2	228151	7519 344509	18865 476464	45823	107299	16.0	1.00 24.0	2.00 32.0	4.00	8.00
2,4-Dinitrotoluene	ANT	Lin2	337929	16138 501498	36017 681937	76310	164115	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Dibenzofuran	ANT	Ave	20845 1398713	87555 2012503	174288 2737154	359184	727701	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,3,4,6-Tetrachlorophenol	ANT	Lin2	246030	9708 378188	21552 500871	50444	114108	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Hexadecane	ANT	Ave	710170	43889 1009942	85679 1274228	180493	359465	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Diethyl phthalate	ANT	Ave	1109709	65498 1589042	134735 2150344	280443	573400	8.00	0.500 12.0	1.00 16.0	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil M ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Chlorophenyl phenyl ether	ANT	Ave	561637	35191 793024	67991 1067901	139909	282839	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Fluorene	ANT	Lin2	15799 1187855	74813 1623432	148146 2306864	299635	600540	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Nitroaniline	ANT	Lin2	284479	14546 414193	30077 565231	68356	142820	8.00	0.500 12.0	1.00 16.0	2.00	4.00
4,6-Dinitro-2-methylphenol	PHN	Lin1	332968	8814 508159	23677 747273	63585	146586	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Diphenylamine	PHN	Ave	830154	48983 1227935	99771 1649635	201662	403564	6.84	0.428 10.3	0.855 13.7	1.71	3.42
N-Nitrosodiphenylamine	PHN	Ave	830154	48983 1227935	99771 1649635	201662	403564	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,2-Diphenylhydrazine	PHN	Ave	1079590	67731 1570713	131738 2065244	280298	565352	8.00	0.500 12.0	1.00 16.0	2.00	4.00
trans-Azobenzene	PHN	Ave	1079590	67731 1570713	131738 2065244	280298	565352	8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Bromophenyl phenyl ether	PHN	Ave	343965	19876 498403	40431 668810	81167	168378	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Hexachlorobenzene	PHN	Ave	361589	22415 546809	41505 702964	90116	181121	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Atrazine	ANT	Lin2	287727	18661 429829	36423 511017	76542	150801	8.00	0.500 12.0	1.00 16.0	2.00	4.00
n-Octadecane	PHN	Ave	716892	43257 1034353	89489 1364719	186712	380381	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Pentachlorophenol	PHN	Lin1	321748	5308 523056	15301 706536	45351	127197	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Phenanthrene	PHN	Ave	24706 1592887	104609 2351609	199642 3192350	405994	839173	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Anthracene	PHN	Ave	22524 1648721	100873 2400927	203009 3260039	421687	836882	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Carbazole	PHN	Ave	1444483	87962 2134181	177791 2844523	365408	746568	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Di-n-butyl phthalate	PHN	Ave	1898271	112246 2761074	228357 3616808	463712	966919	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Fluoranthene	PHN	Ave	25601 1763574	103070 2612265	210496 3379959	439926	889154	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzidine	CRY	Lin2	2275679	109030 3412982	259080 4372822	486997	1077602	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Pyrene	CRY	Ave	24539 1803963	107370 2606366	220026 3507640	455511	916947	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Butyl benzyl phthalate	CRY	Lin2		42491	94654	200010	415066		0.500	1.00	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil M ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			846735	1276414	1680744			8.00	12.0	16.0		
Bis(2-ethylhexyl) phthalate	CRY	Lin2	1213598	60634 1782979	132866 2333006	293127	616846	8.00	0.500 12.0	1.00 16.0	2.00	4.00
3,3'-Dichlorobenzidine	CRY	Lin2	1750306	98027 2567015	198370 3403584	390748	877136	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Benzo(a)anthracene	CRY	Ave	27186 1799591	109780 2667730	220504 3586318	455684	927418	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Chrysene	CRY	Ave	24512 1626396	100926 2456054	201770 3252458	422497	848822	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Di-n-octyl phthalate	CRY	Lin2	2015497	103991 3003021	228942 4012444	493562	1043796	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzo(b)fluoranthene	PRY	Lin2	24628 1953855	102415 2717115	209670 3860199	478423	962391	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzo(k)fluoranthene	PRY	Ave	26970 1811402	115402 2809276	234177 3624460	511188	934084	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzo(a)pyrene	PRY	Lin2	21040 1704643	93299 2502727	197031 3343506	413291	848526	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Dibenz(a,h)anthracene	PRY	Lin2	20800 1688159	93927 2471417	195851 3303319	401632	851909	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Indeno(1,2,3-cd)pyrene	PRY	Lin2	26583 2114181	113413 3071505	241367 4026912	511230	1057684	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzo(g,h,i)perylene	PRY	Lin2	21256 1645181	93047 2345761	194159 3135261	398412	834543	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Fluorophenol	DCBd4	Ave	513399	30058 745825	60238 1027546	128328	253018	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Phenol-d5	DCBd4	Ave	620078	37352 923025	75294 1243307	157909	322443	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Nitrobenzene-d5	NPT	Lin2	563810	33238 826407	67075 1108589	139372	312189	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Fluorobiphenyl	ANT	Ave	1178690	75403 1780666	147957 2328409	305334	612523	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4,6-Tribromophenol	PHN	Lin2	137370	6313 234535	15004 307553	32424	71123	8.00	0.500 12.0	1.00 16.0	2.00	4.00
p-Terphenyl-d14	CRY	Ave	1452130	84729 2151959	171799 2886973	366271	718271	8.00	0.500 12.0	1.00 16.0	2.00	4.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil MS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-727763/3	Y04075.D
Level 2	IC 480-727763/4	Y04076.D
Level 3	IC 480-727763/5	Y04077.D
Level 4	IC 480-727763/6	Y04078.D
Level 5	ICIS 480-727763/7	Y04079.D
Level 6	IC 480-727763/8	Y04080.D
Level 7	IC 480-727763/9	Y04081.D
Level 8	IC 480-727763/10	Y04082.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dioxane	-2.9	5.3 -4.1	0.6	-0.3	-2.4	3.7	30	30 30	30	30	30	30
N-Nitrosodimethylamine	-1.0	6.2 -5.2	-0.8	1.2	-2.5	2.0	30	30 30	30	30	30	30
Pyridine	3.4	4.7 3.6	-5.7	-7.2	-5.4	6.6	30	30 30	30	30	30	30
Benzaldehyde	-5.1	-4.4 -13.6	3.1	10.9	3.2	6.0	30	30 30	30	30	30	30
Phenol	2.5	0.9 -1.1	-4.2	0.1	-2.7	4.5	30	30 30	30	30	30	30
Aniline	2.1	-2.0 2.3	-5.5	-1.6	-3.8	8.7	30	30 30	30	30	30	30
Bis(2-chloroethyl)ether	-0.7	-2.6 -7.5	0.8	9.4	1.1	-0.4	30	30 30	30	30	30	30
n-Decane	-4.4	7.4 -7.4	1.7	1.4	-1.5	2.8	30	30 30	30	30	30	30
2-Chlorophenol	-0.8	1.2 -0.5	-4.3	1.0	-1.9	5.4	30	30 30	30	30	30	30
1,3-Dichlorobenzene	-2.5	4.6 -4.0	0.0	2.1	-3.6	3.4	30	30 30	30	30	30	30
1,4-Dichlorobenzene	-0.7	4.0 -2.8	-1.8	0.7	-2.8	3.5	30	30 30	30	30	30	30
Benzyl alcohol	2.2	2.5 -0.3	-4.8	0.0	-3.9	4.2	30	30 30	30	30	30	30
1,2-Dichlorobenzene	0.3	0.7 -2.3	-0.8	0.8	-2.0	3.3	30	30 30	30	30	30	30
2-Methylphenol	0.5	1.8 -2.2	-2.8	1.2	-3.4	4.9	30	30 30	30	30	30	30
bis (2-chloroisopropyl) ether	-2.2	-1.5 -5.2	0.6	5.2	-0.2	3.4	30	30 30	30	30	30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil MS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Indene	-4.5	-3.2 -13.1	1.2	8.8	5.9	5.0	30	30 30	30	30	30	30
4-Methylphenol	3.5	-3.6 -1.4	-0.5	-0.3	-1.2	3.4	30	30 30	30	30	30	30
N-Nitrosodi-n-propylamine	0.2	0.3 -2.4	-1.4	1.5	-1.5	3.3	30	30 30	30	30	30	30
Acetophenone	-1.7	3.2 -0.7	-1.9	2.0	-1.6	0.7	30	30 30	30	30	30	30
Hexachloroethane	1.4	4.1 -2.4	-5.1	1.1	-3.6	4.4	30	30 30	30	30	30	30
Nitrobenzene	0.7	0.1 -0.1	-6.3	-1.6	-0.6	7.8	30	30 30	30	30	30	30
Isophorone	-1.6	-2.6 -0.7	-2.3	0.4	-1.5	8.3	30	30 30	30	30	30	30
2-Nitrophenol	-0.2	4.3 1.0	-7.1	-3.6	-3.4	9.0	30	30 30	30	30	30	30
2,4-Dimethylphenol	0.0	-4.3 0.8	-5.0	0.2	-0.7	9.1	30	30 30	30	30	30	30
Bis(2-chloroethoxy)methane	-2.2	2.9 -1.5	-6.0	-1.7	1.3	7.3	30	30 30	30	30	30	30
Benzoic acid	-2.5	+++++ 6.3	22.7	-9.9	-14.6	-2.0	30	30	30	30	30	30
2,4-Dichlorophenol	-1.5	2.8 -0.1	-5.1	-1.5	-2.4	7.8	30	30 30	30	30	30	30
1,2,4-Trichlorobenzene	-0.4	-1.3 0.2	-5.5	-2.5	2.4	7.1	30	30 30	30	30	30	30
Naphthalene	-0.1 -1.9	4.3 -2.9	-2.8	0.7	-3.3	6.0	30 30	30 30	30	30	30	30
4-Chloroaniline	-2.1	-2.6 0.5	-4.3	-0.8	-0.6	9.9	30	30 30	30	30	30	30
2,6-Dichlorophenol	0.7	-3.5 2.2	-4.8	-1.3	-1.0	7.8	30	30 30	30	30	30	30
Hexachlorobutadiene	-1.6	1.4 1.4	-4.6	-0.6	-3.8	7.7	30	30 30	30	30	30	30
Caprolactam	-3.6	2.4 3.1	-5.2	1.5	-3.4	5.3	30	30 30	30	30	30	30
4-Chloro-3-methylphenol	-3.2	2.2 -1.1	-5.4	1.4	-1.8	7.8	30	30 30	30	30	30	30
2-Methylnaphthalene	-3.1 -1.8	1.4 -2.5	-2.2	2.0	-0.8	6.9	30 30	30 30	30	30	30	30
1-Methylnaphthalene	-6.7 -1.3	2.1 -0.7	-3.0	1.0	0.0	8.6	30 30	30 30	30	30	30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil MS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Hexachlorocyclopentadiene	5.6	7.6 6.0	-11.5	-7.8	-5.6	5.6	30	30 30	30	30	30	30
1,2,4,5-Tetrachlorobenzene	0.2	-0.7 -1.2	-0.3	-0.6	-2.9	5.5	30	30 30	30	30	30	30
2,4,6-Trichlorophenol	1.8	3.3 1.4	-4.8	-4.1	-2.9	5.3	30	30 30	30	30	30	30
2,4,5-Trichlorophenol	0.1	4.6 4.8	-7.2	-4.5	-3.3	5.4	30	30 30	30	30	30	30
Biphenyl	-1.4	-0.1 -3.5	1.1	0.6	-1.1	4.3	30	30 30	30	30	30	30
2-Chloronaphthalene	-0.9	3.9 -3.0	-4.6	1.5	-1.5	4.7	30	30 30	30	30	30	30
2-Nitroaniline	-1.3	1.6 0.1	-2.3	-2.1	-2.0	6.1	30	30 30	30	30	30	30
Dimethyl phthalate	0.1	-1.4 -0.9	1.0	-0.6	-4.0	5.7	30	30 30	30	30	30	30
1,3-Dinitrobenzene	2.6	6.6 5.9	-9.6	-8.3	-3.7	6.4	30	30 30	30	30	30	30
2,6-Dinitrotoluene	-2.7	-1.1 -3.7	3.4	-3.5	0.4	7.2	30	30 30	30	30	30	30
Acenaphthylene	-9.6 -1.2	2.1 -2.2	0.4	2.2	1.8	6.5	30 30	30 30	30	30	30	30
3-Nitroaniline	1.0	3.5 -0.2	-6.3	-2.4	-1.4	5.7	30	30 30	30	30	30	30
Acenaphthene	-2.8 -1.6	1.6 -0.4	-0.7	1.7	-1.6	3.7	30 30	30 30	30	30	30	30
2,4-Dinitrophenol	0.3	+++++ 4.9	21.5	-7.5	-16.5	-2.7	30	30	30	30	30	30
4-Nitrophenol	2.6	6.0 4.6	-8.3	-8.0	-4.1	7.3	30	30 30	30	30	30	30
2,4-Dinitrotoluene	0.7	2.5 1.3	-2.7	-4.4	-3.8	6.6	30	30 30	30	30	30	30
Dibenzofuran	-2.3 -3.5	2.6 -2.6	-0.5	1.7	-0.3	4.9	30 30	30 30	30	30	30	30
2,3,4,6-Tetrachlorophenol	5.3	6.4 3.0	-9.0	-8.1	-5.6	8.0	30	30 30	30	30	30	30
Hexadecane	-2.5	3.5 -8.7	-1.5	2.9	-0.9	7.2	30	30 30	30	30	30	30
Diethyl phthalate	-2.6	-1.9 -2.2	-1.6	1.5	0.4	6.4	30	30 30	30	30	30	30
4-Chlorophenyl phenyl ether	-3.7	4.3 -3.8	-1.7	0.3	-2.0	6.6	30	30 30	30	30	30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil MS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Fluorene	-1.8 -7.7	6.4 -2.8	1.5	1.1	-2.3	5.6	30 30	30 30	30	30	30	30
4-Nitroaniline	 -1.4	2.8 -0.4	-6.0	0.0	-1.3	6.3	 30	30 30	30	30	30	30
4,6-Dinitro-2-methylphenol	 -2.5	22.1 5.1	-6.6	-7.6	-11.0	0.5	 30	30 30	30	30	30	30
Diphenylamine	 1.3	-3.3 0.9	-2.5	1.3	-3.5	5.9	 30	30 30	30	30	30	30
N-Nitrosodiphenylamine	 1.3	-3.3 0.9	-2.5	1.3	-3.5	5.9	 30	30 30	30	30	30	30
1,2-Diphenylhydrazine	 -2.7	0.4 -5.1	-3.3	5.7	1.5	3.5	 30	30 30	30	30	30	30
trans-Azobenzene	 -2.7	0.4 -5.1	-3.3	5.7	1.5	3.5	 30	30 30	30	30	30	30
4-Bromophenyl phenyl ether	 0.7	-3.9 0.2	-3.2	-0.1	-1.3	7.5	 30	30 30	30	30	30	30
Hexachlorobenzene	 2.6	0.7 -2.2	-7.7	3.0	-1.4	5.0	 30	30 30	30	30	30	30
Atrazine	 1.3	-0.6 -10.6	-1.6	4.8	0.8	5.9	 30	30 30	30	30	30	30
n-Octadecane	 -3.3	-3.3 -5.4	-0.9	6.2	3.1	3.6	 30	30 30	30	30	30	30
Pentachlorophenol	 3.6	37.3 * 2.6	-9.1	-19.5	-16.1	1.2	 30	30 30	30	30	30	30
Phenanthrene	0.2 -2.9	3.3 -2.3	-2.4	2.0	0.4	1.7	30 30	30 30	30	30	30	30
Anthracene	-8.7 -1.0	-0.4 -0.3	-0.8	5.9	0.1	5.2	30 30	30 30	30	30	30	30
Carbazole	 -0.9	-2.3 -2.1	-2.2	3.3	0.5	3.7	 30	30 30	30	30	30	30
Di-n-butyl phthalate	 -0.4	-3.1 -3.2	-2.4	1.9	1.2	6.0	 30	30 30	30	30	30	30
Fluoranthene	-2.2 1.6	-4.1 -2.6	-3.1	4.1	0.2	6.1	30 30	30 30	30	30	30	30
Benzidine	 5.1	0.2 -4.8	3.4	-7.0	-5.8	9.0	 30	30 30	30	30	30	30
Pyrene	-6.9 0.4	0.6 -4.5	0.4	4.0	-1.6	7.6	30 30	30 30	30	30	30	30
Butyl benzyl phthalate	 3.2	0.8 -4.0	-1.1	-0.4	-4.9	6.4	 30	30 30	30	30	30	30
Bis(2-ethylhexyl) phthalate	 0.9	0.7 -6.7	-2.6	2.1	-1.1	6.8	 30	30 30	30	30	30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil MS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
3,3'-Dichlorobenzidine	2.7	2.4 -3.7	-2.6	-5.8	-1.5	8.6	30	30 30	30	30	30	30
Benzo(a)anthracene	0.9 0.5	0.6 -4.4	-1.6	1.7	-2.6	5.0	30 30	30 30	30	30	30	30
Chrysene	-0.5 1.2	1.2 -5.2	-1.5	3.2	-2.5	3.8	30 30	30 30	30	30	30	30
Di-n-octyl phthalate	0.7	0.4 -4.9	-1.6	1.5	-1.0	5.0	30	30 30	30	30	30	30
Benzo(b)fluoranthene	1.4 -1.8	-2.2 -0.3	-9.6	3.9	-0.5	9.1	30 30	30 30	30	30	30	30
Benzo(k)fluoranthene	-5.8 1.2	5.7 -6.6	-1.2	9.9	-4.0	0.8	30 30	30 30	30	30	30	30
Benzo(a)pyrene	0.4 1.3	0.4 -3.2	-4.6	0.7	-1.7	6.7	30 30	30 30	30	30	30	30
Dibenz(a,h)anthracene	0.1 0.9	1.8 -3.5	-4.3	-1.2	-0.4	6.6	30 30	30 30	30	30	30	30
Indeno(1,2,3-cd)pyrene	0.7 1.3	-1.1 -5.0	-5.0	1.4	-0.2	7.8	30 30	30 30	30	30	30	30
Benzo(g,h,i)perylene	-0.4 -1.4	2.6 -5.7	-2.9	0.6	0.3	6.9	30 30	30 30	30	30	30	30
2-Fluorophenol	0.8	-1.5 1.8	-5.0	1.9	-4.0	6.1	30	30 30	30	30	30	30
Phenol-d5	0.9	-0.9 -0.3	-3.9	1.5	-1.0	3.7	30	30 30	30	30	30	30
Nitrobenzene-d5	-3.3	2.7 -2.4	-5.7	-2.9	5.4	6.3	30	30 30	30	30	30	30
2-Fluorobiphenyl	-0.3	3.1 -3.3	-1.4	0.9	-2.1	3.2	30	30 30	30	30	30	30
2,4,6-Tribromophenol	6.4	2.5 3.1	-3.0	-2.9	-3.4	-2.7	30	30 30	30	30	30	30
p-Terphenyl-d14	2.4	-1.9 -2.8	-3.2	3.3	-4.7	7.0	30	30 30	30	30	30	30

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04075.D
Lims ID: IC - List 1 - 0.125
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 10-Oct-2024 14:47:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-003
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:30:29 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:53:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.019	6.021	-0.002	95	202558	4.00	4.00	
* 2 Naphthalene-d8	136	7.216	7.213	0.003	99	729844	4.00	4.00	
* 3 Acenaphthene-d10	164	8.775	8.777	-0.002	94	425685	4.00	4.00	
* 4 Phenanthrene-d10	188	10.056	10.058	-0.002	97	713621	4.00	4.00	
* 5 Chrysene-d12	240	12.937	12.939	-0.002	98	629775	4.00	4.00	
* 6 Perylene-d12	264	14.662	14.658	0.004	97	714615	4.00	4.00	
74 Naphthalene	128	7.234	7.237	-0.003	96	24071	0.1250	0.1248	
87 2-Methylnaphthalene	142	7.857	7.853	0.004	92	14407	0.1250	0.1211	
89 1-Methylnaphthalene	142	7.945	7.948	-0.003	92	14096	0.1250	0.1166	
108 Acenaphthylene	152	8.657	8.660	-0.003	98	21302	0.1250	0.1130	
110 Acenaphthene	153	8.805	8.808	-0.003	93	15337	0.1250	0.1215	
115 Dibenzofuran	168	8.953	8.950	0.003	97	20845	0.1250	0.1221	
124 Fluorene	166	9.250	9.246	0.004	93	15799	0.1250	0.1228	
151 Phenanthrene	178	10.079	10.076	0.003	95	24706	0.1250	0.1252	
152 Anthracene	178	10.121	10.124	-0.003	98	22524	0.1250	0.1141	
164 Fluoranthene	202	11.271	11.268	0.003	97	25601	0.1250	0.1222	
167 Pyrene	202	11.532	11.535	-0.002	96	24539	0.1250	0.1163	
180 Benzo[a]anthracene	228	12.925	12.928	-0.003	99	27186	0.1250	0.1261	
182 Chrysene	228	12.972	12.975	-0.003	97	24512	0.1250	0.1244	
186 Benzo[b]fluoranthene	252	14.181	14.184	-0.003	97	24628	0.1250	0.1268	
187 Benzo[k]fluoranthene	252	14.211	14.214	-0.003	99	26970	0.1250	0.1177	
189 Benzo[a]pyrene	252	14.590	14.593	-0.003	77	21040	0.1250	0.1255	
194 Dibenz(a,h)anthracene	278	16.209	16.217	-0.008	89	20800	0.1250	0.1251	
193 Indeno[1,2,3-cd]pyrene	276	16.221	16.223	-0.002	97	26583	0.1250	0.1259	
195 Benzo[g,h,i]perylene	276	16.689	16.698	-0.009	94	21256	0.1250	0.1245	

QC Flag Legend
Processing Flags

Reagents:

MB_L1LVI_WRK_00642 Amount Added: 1.00 Units: mL

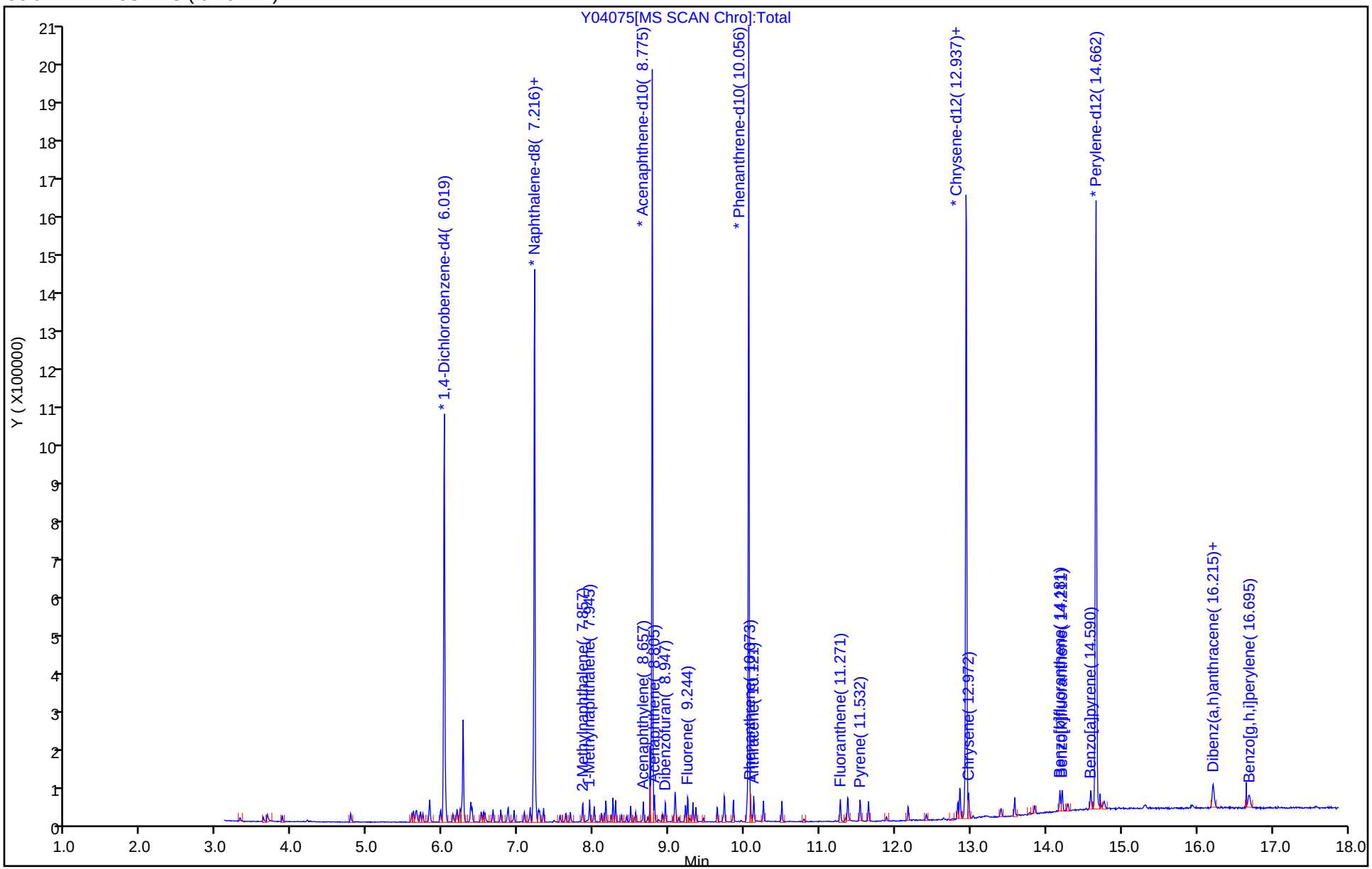
Report Date: 11-Oct-2024 11:30:30 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04075.D

Injection Date:	10-Oct-2024 14:47:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 0.125			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04076.D
Lims ID: IC - List 1 - 0.50
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 10-Oct-2024 15:14:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-004
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:30:36 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:53:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.019	6.021	-0.002	95	198081	4.00	4.00	
* 2 Naphthalene-d8	136	7.217	7.213	0.004	99	737081	4.00	4.00	
* 3 Acenaphthene-d10	164	8.776	8.777	-0.001	93	425703	4.00	4.00	
* 4 Phenanthrene-d10	188	10.056	10.058	-0.002	97	732507	4.00	4.00	
* 5 Chrysene-d12	240	12.937	12.939	-0.002	99	637234	4.00	4.00	
* 6 Perylene-d12	264	14.662	14.658	0.004	97	680758	4.00	4.00	
$ 7 2-Fluorophenol	112	4.774	4.771	0.003	92	30058	0.5000	0.4925	
$ 8 Phenol-d5	99	5.640	5.636	0.004	93	37352	0.5000	0.4954	
$ 9 Nitrobenzene-d5	82	6.541	6.537	0.004	89	33238	0.5000	0.5136	
$ 10 2-Fluorobiphenyl	172	8.159	8.162	-0.003	100	75403	0.5000	0.5153	
$ 11 2,4,6-Tribromophenol	330	9.451	9.454	-0.003	93	6313	0.5000	0.5123	
$ 12 p-Terphenyl-d14	244	11.645	11.647	-0.002	98	84729	0.5000	0.4905	
13 1,4-Dioxane	88	3.304	3.307	-0.003	98	12893	0.5000	0.5264	
14 N-Nitrosodimethylamine	42	3.613	3.609	0.003	91	16549	0.5000	0.5312	
15 Pyridine	52	3.654	3.639	0.015	91	30426	1.00	1.05	
35 Benzaldehyde	77	5.610	5.607	0.003	96	27856	0.5000	0.4781	
37 Phenol	94	5.652	5.654	-0.002	99	38689	0.5000	0.5047	
36 Aniline	93	5.705	5.702	0.003	97	45821	0.5000	0.4899	
39 Bis(2-chloroethyl)ether	93	5.735	5.737	-0.002	92	35178	0.5000	0.4870	
41 n-Decane	57	5.824	5.820	0.004	92	39573	0.5000	0.5368	
40 2-Chlorophenol	128	5.829	5.826	0.003	98	32258	0.5000	0.5058	
43 1,3-Dichlorobenzene	146	5.972	5.968	0.004	99	39554	0.5000	0.5228	
44 1,4-Dichlorobenzene	146	6.037	6.034	0.003	95	40290	0.5000	0.5199	
45 Benzyl alcohol	108	6.132	6.134	-0.002	94	19026	0.5000	0.5126	
46 1,2-Dichlorobenzene	146	6.185	6.188	-0.003	96	36618	0.5000	0.5037	
48 2-Methylphenol	108	6.227	6.229	-0.002	93	29614	0.5000	0.5092	
49 2,2'-oxybis[1-chloropropane]	45	6.244	6.247	-0.003	93	53851	0.5000	0.4925	
47 Indene	115	6.268	6.271	-0.003	88	384781	3.00	2.90	
57 4-Methylphenol	108	6.369	6.366	0.003	96	29131	0.5000	0.4820	
53 N-Nitrosodi-n-propylamine	70	6.369	6.371	-0.002	89	21906	0.5000	0.5014	
52 Acetophenone	105	6.387	6.389	-0.002	97	43469	0.5000	0.5160	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.511	6.508	0.003	95	15352	0.5000	0.5207	
59 Nitrobenzene	77	6.559	6.555	0.004	88	34315	0.5000	0.5005	
62 Isophorone	82	6.766	6.769	-0.003	99	59179	0.5000	0.4868	
64 2-Nitrophenol	139	6.855	6.858	-0.003	92	14641	0.5000	0.5214	
66 2,4-Dimethylphenol	107	6.867	6.869	-0.002	94	30712	0.5000	0.4784	
69 Bis(2-chloroethoxy)methane	93	6.944	6.946	-0.002	97	38197	0.5000	0.5144	
70 Benzoic acid	105	6.926	6.994	-0.068	90	8087	3.00	6.64	
72 2,4-Dichlorophenol	162	7.080	7.077	0.003	93	24629	0.5000	0.5140	
73 1,2,4-Trichlorobenzene	180	7.157	7.160	-0.003	93	30818	0.5000	0.4933	
74 Naphthalene	128	7.234	7.237	-0.003	97	101531	0.5000	0.5214	
76 4-Chloroaniline	127	7.264	7.267	-0.003	96	36243	0.5000	0.4869	
77 2,6-Dichlorophenol	162	7.282	7.284	-0.002	97	26371	0.5000	0.4827	
79 Hexachlorobutadiene	225	7.335	7.338	-0.003	94	18378	0.5000	0.5071	
84 Caprolactam	113	7.554	7.581	-0.027	78	8828	0.5000	0.5120	a
85 4-Chloro-3-methylphenol	107	7.691	7.693	-0.002	95	23244	0.5000	0.5112	
87 2-Methylnaphthalene	142	7.857	7.853	0.004	92	60907	0.5000	0.5071	
89 1-Methylnaphthalene	142	7.946	7.948	-0.002	93	62302	0.5000	0.5103	
90 Hexachlorocyclopentadiene	237	7.993	7.996	-0.003	94	5221	0.5000	0.5381	
91 1,2,4,5-Tetrachlorobenzene	216	8.005	8.008	-0.003	96	31273	0.5000	0.4963	
93 2,4,6-Trichlorophenol	196	8.100	8.102	-0.002	92	15827	0.5000	0.5167	
94 2,4,5-Trichlorophenol	196	8.141	8.138	0.003	92	15969	0.5000	0.5232	M
96 1,1'-Biphenyl	154	8.254	8.256	-0.002	96	78035	0.5000	0.4997	
97 2-Chloronaphthalene	162	8.289	8.292	-0.003	94	64817	0.5000	0.5193	
100 2-Nitroaniline	65	8.367	8.363	0.004	83	13872	0.5000	0.5079	
105 Dimethyl phthalate	163	8.491	8.494	-0.003	99	66641	0.5000	0.4931	
106 1,3-Dinitrobenzene	168	8.538	8.541	-0.003	83	7085	0.5000	0.5332	
107 2,6-Dinitrotoluene	165	8.556	8.559	-0.003	94	12732	0.5000	0.4945	
108 Acenaphthylene	152	8.657	8.660	-0.003	98	96273	0.5000	0.5106	
109 3-Nitroaniline	138	8.716	8.719	-0.003	97	11968	0.5000	0.5177	
110 Acenaphthene	153	8.805	8.808	-0.003	95	64126	0.5000	0.5079	
111 2,4-Dinitrophenol	184	8.811	8.814	-0.003	85	2348	1.00	2.04	
112 4-Nitrophenol	109	8.853	8.855	-0.002	89	7519	1.00	1.06	
114 2,4-Dinitrotoluene	165	8.912	8.914	-0.002	95	16138	0.5000	0.5123	
115 Dibenzofuran	168	8.947	8.950	-0.003	97	87555	0.5000	0.5128	
118 2,3,4,6-Tetrachlorophenol	232	9.054	9.057	-0.003	72	9708	0.5000	0.5320	
121 Hexadecane	57	9.078	9.080	-0.002	94	43889	0.5000	0.5174	
120 Diethyl phthalate	149	9.084	9.092	-0.008	98	65498	0.5000	0.4904	
123 4-Chlorophenyl phenyl ether	204	9.214	9.217	-0.003	92	35191	0.5000	0.5216	
124 Fluorene	166	9.244	9.246	-0.002	96	74813	0.5000	0.5319	
126 4-Nitroaniline	138	9.244	9.246	-0.002	62	14546	0.5000	0.5141	
127 4,6-Dinitro-2-methylphenol	198	9.273	9.276	-0.003	88	8814	1.00	1.22	
129 Diphenylamine	169	9.315	9.318	-0.003	94	48983	0.4275	0.4133	
130 N-Nitrosodiphenylamine	169	9.315	9.318	-0.003	63	48983	0.5000	0.4834	
131 1,2-Diphenylhydrazine	77	9.356	9.359	-0.003	41	67731	0.5000	0.5021	
132 Azobenzene	77	9.356	9.359	-0.003	99	67731	0.5000	0.5021	
139 4-Bromophenyl phenyl ether	248	9.641	9.638	0.003	66	19876	0.5000	0.4807	
140 Hexachlorobenzene	284	9.730	9.732	-0.002	96	22415	0.5000	0.5034	
143 Atrazine	200	9.736	9.738	-0.002	93	18661	0.5000	0.4971	
148 n-Octadecane	57	9.848	9.851	-0.003	93	43257	0.5000	0.4837	
145 Pentachlorophenol	266	9.890	9.893	-0.003	93	5308	1.00	1.37	
151 Phenanthrene	178	10.074	10.076	-0.002	96	104609	0.5000	0.5166	M
152 Anthracene	178	10.121	10.124	-0.003	97	100873	0.5000	0.4979	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.252	10.254	-0.002	96	87962	0.5000	0.4886	
157 Di-n-butyl phthalate	149	10.495	10.497	-0.002	100	112246	0.5000	0.4847	
164 Fluoranthene	202	11.271	11.268	0.003	98	103070	0.5000	0.4794	
166 Benzidine	184	11.366	11.374	-0.008	100	109030	1.00	1.00	
167 Pyrene	202	11.532	11.535	-0.002	97	107370	0.5000	0.5031	
174 Butyl benzyl phthalate	149	12.166	12.169	-0.003	98	42491	0.5000	0.5042	
181 Bis(2-ethylhexyl) phthalate	149	12.824	12.833	-0.009	98	60634	0.5000	0.5035	
179 3,3'-Dichlorobenzidine	252	12.854	12.862	-0.008	73	98027	1.00	1.02	
180 Benzo[a]anthracene	228	12.925	12.928	-0.003	99	109780	0.5000	0.5031	
182 Chrysene	228	12.972	12.975	-0.003	97	100926	0.5000	0.5062	
184 Di-n-octyl phthalate	149	13.583	13.586	-0.003	99	103991	0.5000	0.5019	
186 Benzo[b]fluoranthene	252	14.182	14.184	-0.002	98	102415	0.5000	0.4889	
187 Benzo[k]fluoranthene	252	14.211	14.214	-0.003	99	115402	0.5000	0.5287	
189 Benzo[a]pyrene	252	14.591	14.593	-0.002	79	93299	0.5000	0.5018	
194 Dibenz(a,h)anthracene	278	16.209	16.217	-0.008	94	93927	0.5000	0.5092	
193 Indeno[1,2,3-cd]pyrene	276	16.215	16.223	-0.008	98	113413	0.5000	0.4947	
195 Benzo[g,h,i]perylene	276	16.689	16.698	-0.009	96	93047	0.5000	0.5131	
S 261 Total Cresols	1				0			0.99	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00643 Amount Added: 1.00 Units: mL

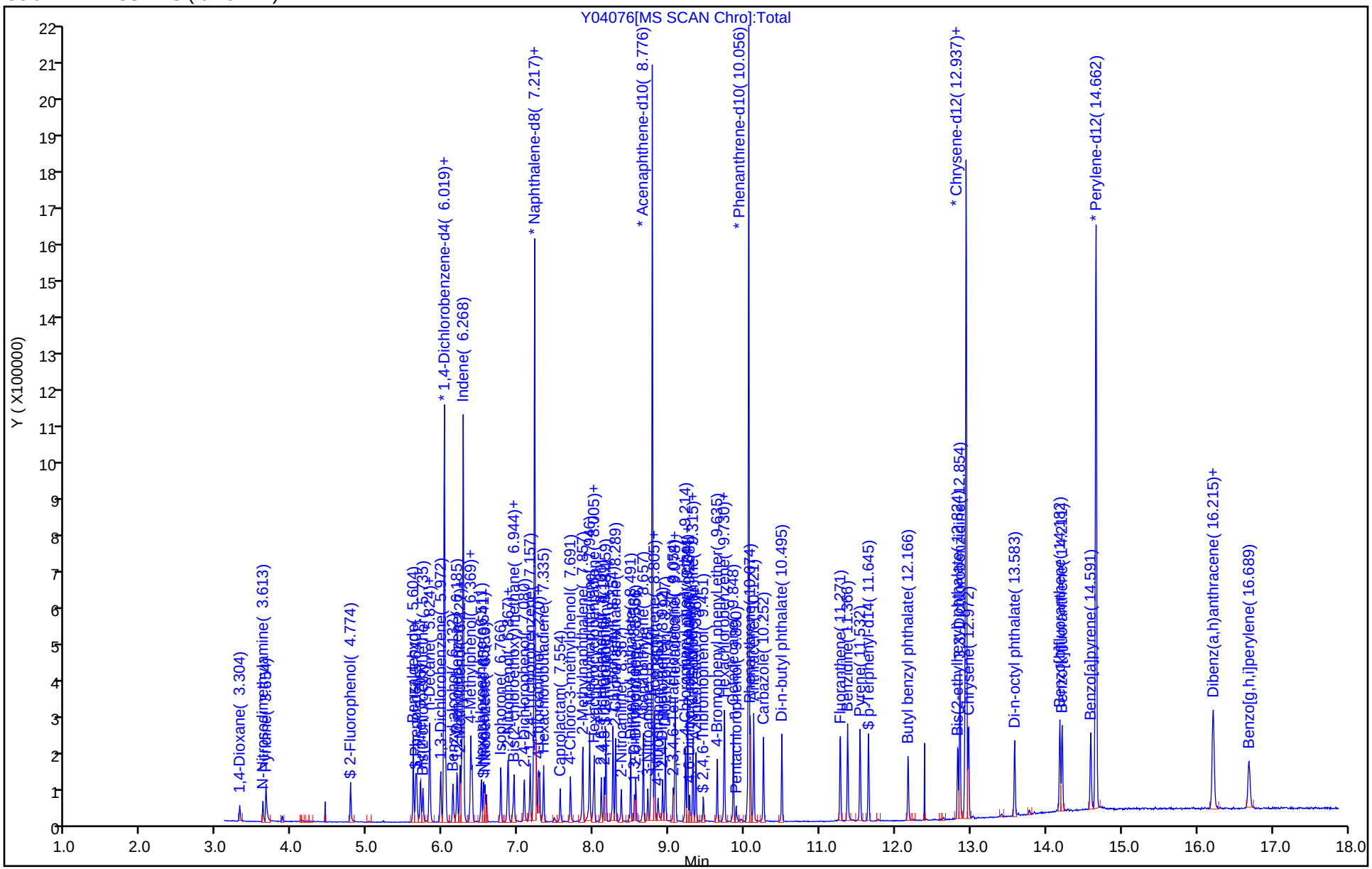
Report Date: 11-Oct-2024 11:30:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04076.D

Injection Date:	10-Oct-2024 15:14:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 0.50			Worklist Smp#:	4
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

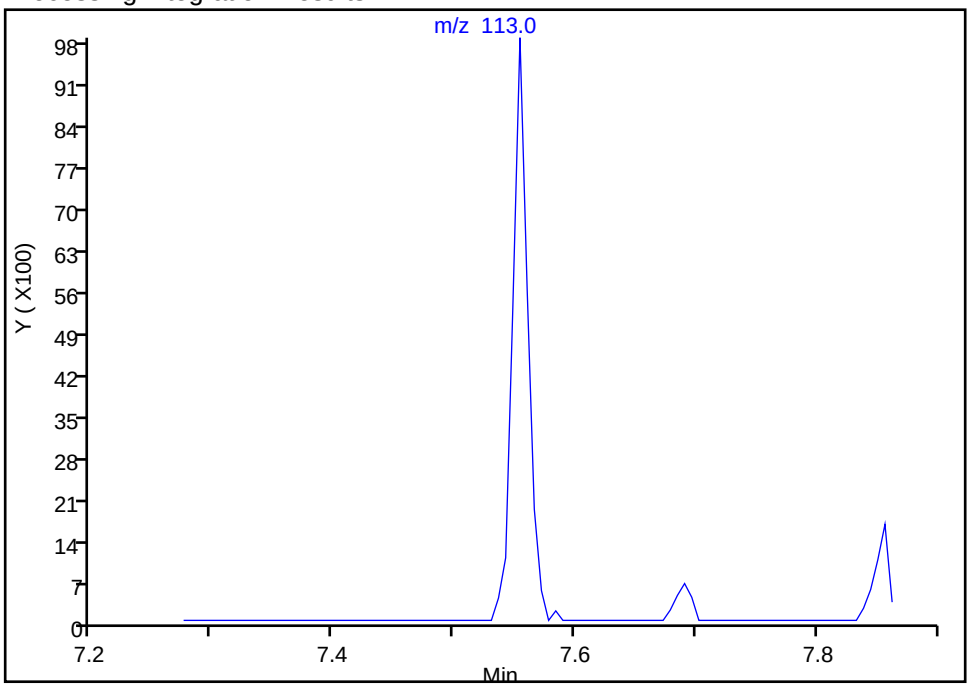
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04076.D
Injection Date: 10-Oct-2024 15:14:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.50
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

84 Caprolactam, CAS: 105-60-2

Signal: 1

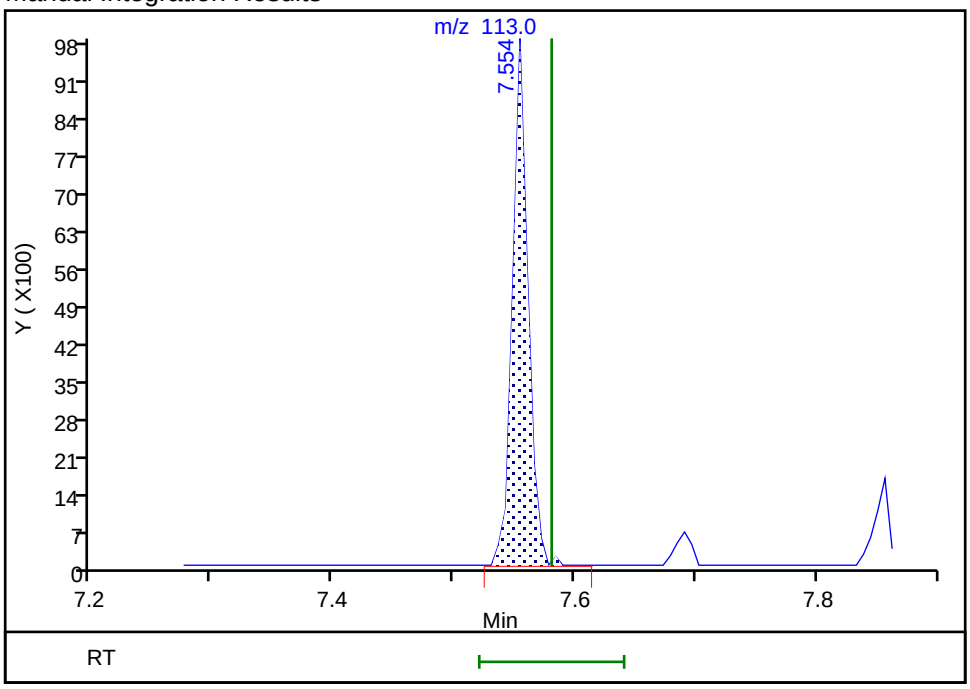
Not Detected
Expected RT: 7.58

Processing Integration Results



Manual Integration Results

RT: 7.55
Area: 8828
Amount: 0.512031
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 08:53:30 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Buffalo

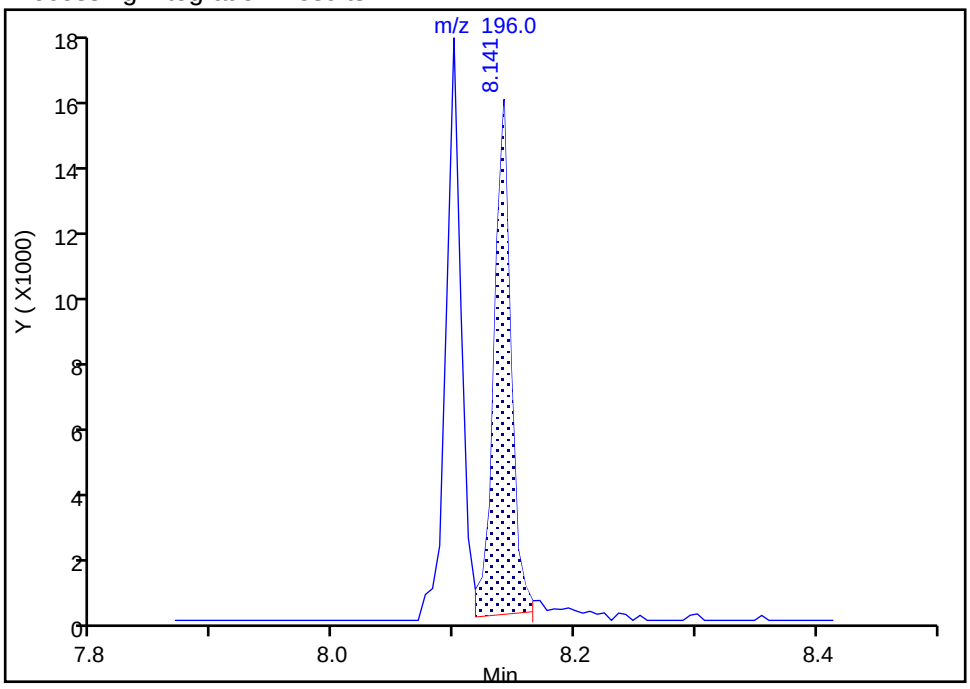
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04076.D
Injection Date: 10-Oct-2024 15:14:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.50
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

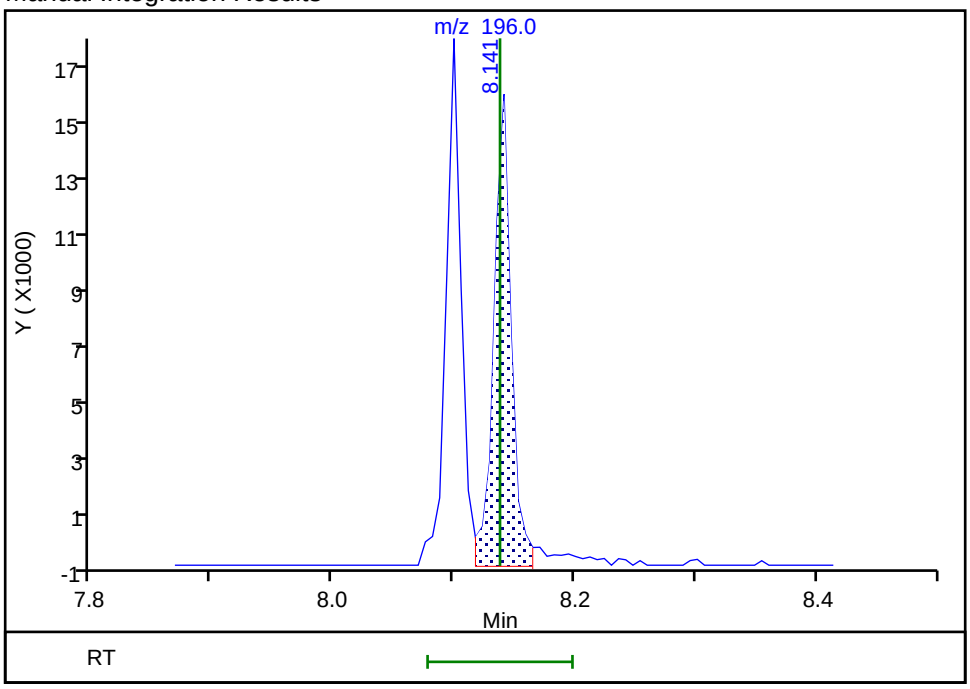
Processing Integration Results

RT: 8.14
Area: 15322
Amount: 0.513372
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 15969
Amount: 0.523216
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:20:08 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Buffalo

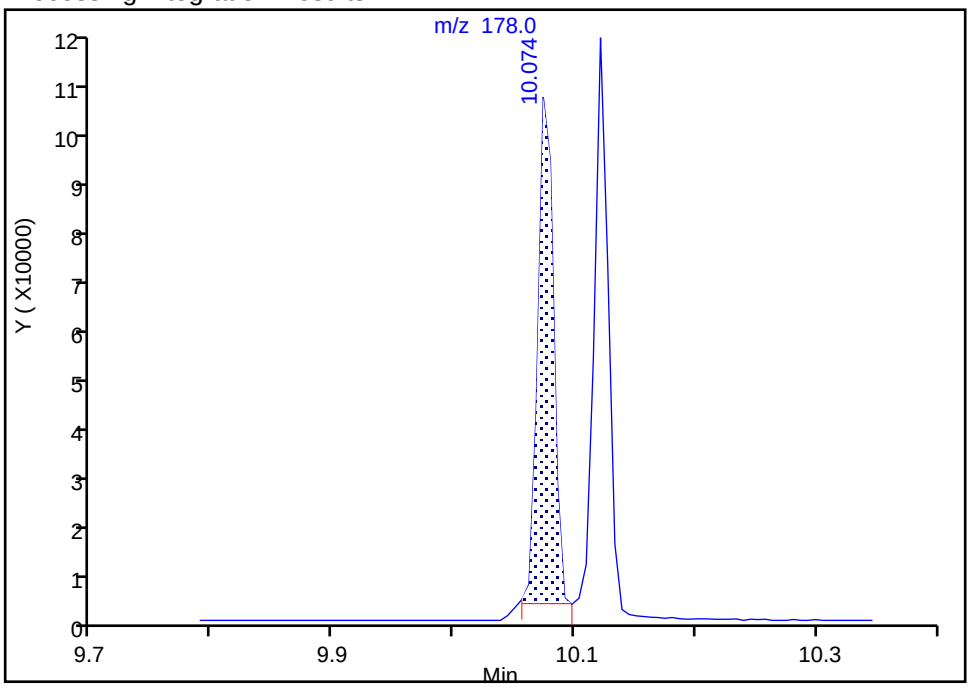
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04076.D
Injection Date: 10-Oct-2024 15:14:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.50
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

151 Phenanthrene, CAS: 85-01-8

Signal: 1

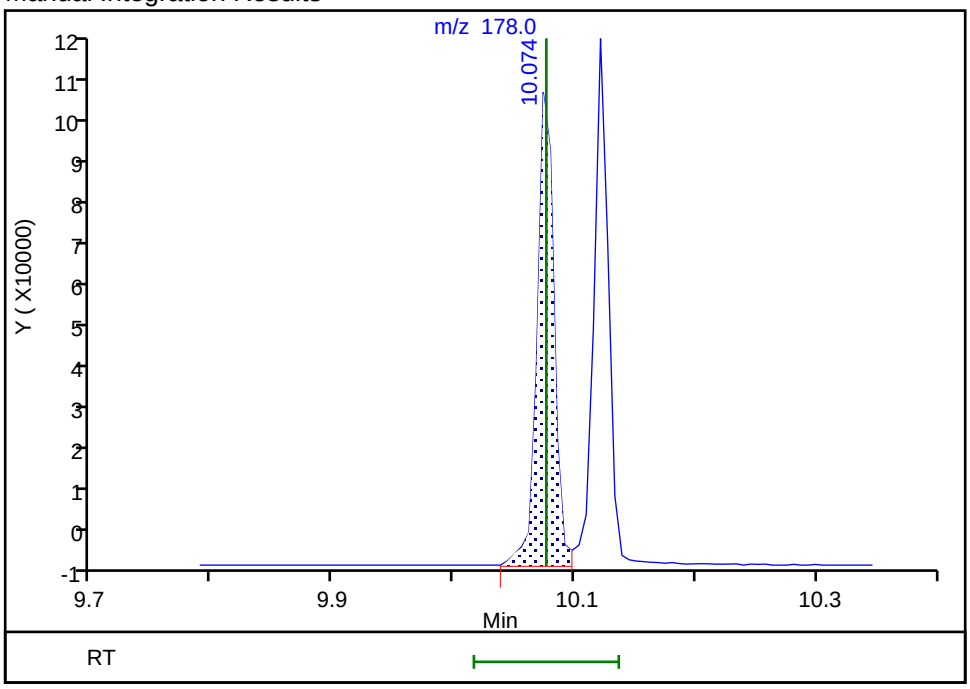
Processing Integration Results

RT: 10.07
Area: 93926
Amount: 0.470034
Amount Units: ng/uL



Manual Integration Results

RT: 10.07
Area: 104609
Amount: 0.516591
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:20:26 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Buffalo

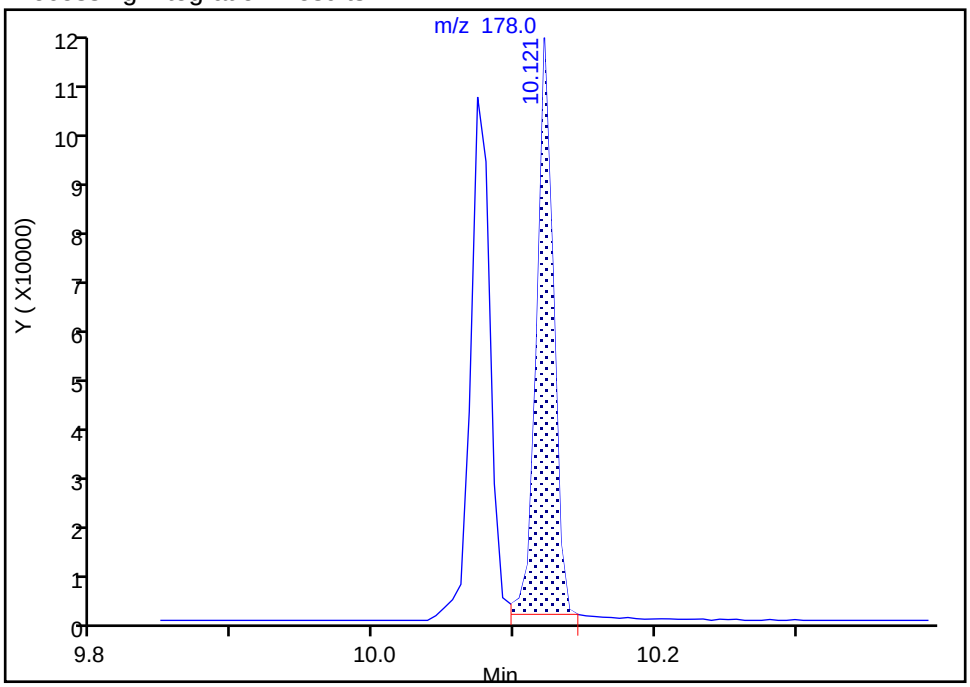
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04076.D
Injection Date: 10-Oct-2024 15:14:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.50
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

152 Anthracene, CAS: 120-12-7

Signal: 1

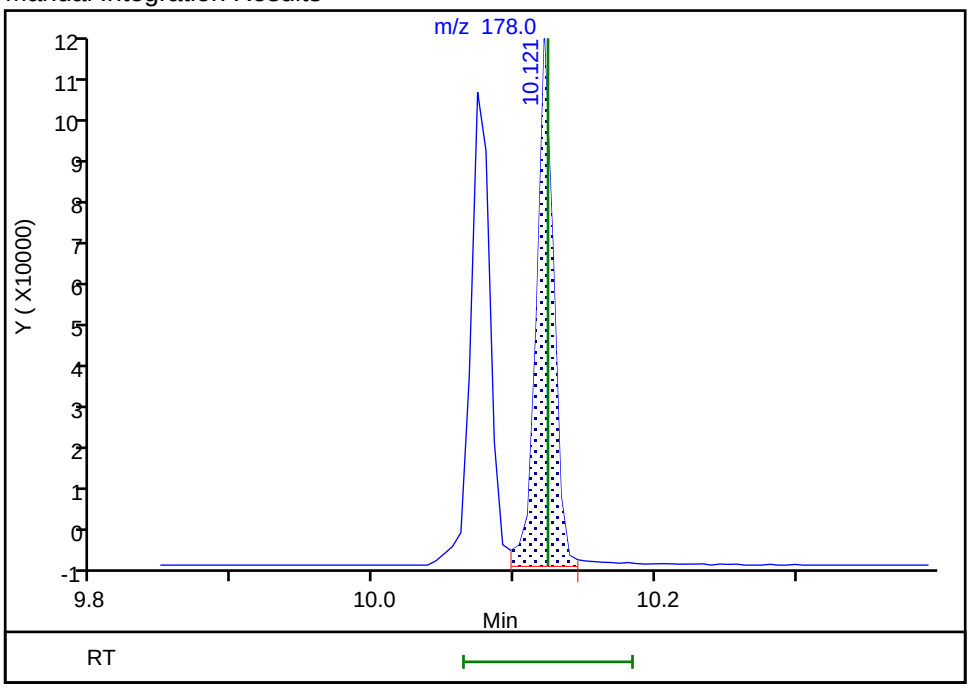
Processing Integration Results

RT: 10.12
Area: 96936
Amount: 0.480766
Amount Units: ng/uL



Manual Integration Results

RT: 10.12
Area: 100873
Amount: 0.497862
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:20:37 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04077.D
Lims ID: IC - List 1 - 1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 10-Oct-2024 15:42:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-005
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:30:55 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:53:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.019	6.021	-0.002	95	205880	4.00	4.00	
* 2 Naphthalene-d8	136	7.217	7.213	0.004	99	773570	4.00	4.00	
* 3 Acenaphthene-d10	164	8.776	8.777	-0.001	93	436509	4.00	4.00	
* 4 Phenanthrene-d10	188	10.056	10.058	-0.002	96	739822	4.00	4.00	
* 5 Chrysene-d12	240	12.943	12.939	0.004	99	654448	4.00	4.00	
* 6 Perylene-d12	264	14.662	14.658	0.004	97	739443	4.00	4.00	
$ 7 2-Fluorophenol	112	4.774	4.771	0.003	93	60238	1.00	0.9496	
$ 8 Phenol-d5	99	5.640	5.636	0.004	97	75294	1.00	0.9607	
$ 9 Nitrobenzene-d5	82	6.541	6.537	0.004	90	67075	1.00	0.9433	
$ 10 2-Fluorobiphenyl	172	8.159	8.162	-0.003	100	147957	1.00	0.9862	
$ 11 2,4,6-Tribromophenol	330	9.457	9.454	0.003	95	15004	1.00	0.9698	
$ 12 p-Terphenyl-d14	244	11.645	11.647	-0.002	97	171799	1.00	0.9684	
13 1,4-Dioxane	88	3.304	3.307	-0.003	97	25620	1.00	1.01	
14 N-Nitrosodimethylamine	42	3.607	3.609	-0.002	93	32131	1.00	0.99	
15 Pyridine	52	3.648	3.639	0.009	92	62500	2.00	1.89	
35 Benzaldehyde	77	5.604	5.607	-0.003	95	55562	1.00	1.03	
37 Phenol	94	5.652	5.654	-0.002	99	76310	1.00	0.9578	
36 Aniline	93	5.705	5.702	0.003	97	91840	1.00	0.9448	
39 Bis(2-chloroethyl)ether	93	5.735	5.737	-0.002	92	70159	1.00	1.01	
41 n-Decane	57	5.824	5.820	0.004	91	77950	1.00	1.02	
40 2-Chlorophenol	128	5.830	5.826	0.004	97	63442	1.00	0.9571	
43 1,3-Dichlorobenzene	146	5.972	5.968	0.004	99	78644	1.00	1.00	
44 1,4-Dichlorobenzene	146	6.037	6.034	0.003	96	79069	1.00	0.9816	
45 Benzyl alcohol	108	6.132	6.134	-0.002	93	38828	1.00	0.9525	
46 1,2-Dichlorobenzene	146	6.185	6.188	-0.003	98	74941	1.00	0.99	
48 2-Methylphenol	108	6.227	6.229	-0.002	92	58756	1.00	0.9721	
49 2,2'-oxybis[1-chloropropane]	45	6.245	6.247	-0.002	94	107201	1.00	1.01	
47 Indene	115	6.268	6.271	-0.003	89	760498	6.00	6.07	
57 4-Methylphenol	108	6.369	6.366	0.003	95	62517	1.00	1.00	
53 N-Nitrosodi-n-propylamine	70	6.369	6.371	-0.002	89	44766	1.00	0.9858	
52 Acetophenone	105	6.387	6.389	-0.002	96	85873	1.00	0.9807	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.511	6.508	0.003	95	29094	1.00	0.9495	
59 Nitrobenzene	77	6.559	6.555	0.004	88	67406	1.00	0.9368	
62 Isophorone	82	6.766	6.769	-0.003	99	124676	1.00	0.9772	
64 2-Nitrophenol	139	6.855	6.858	-0.003	93	30445	1.00	0.9290	
66 2,4-Dimethylphenol	107	6.867	6.869	-0.002	94	63972	1.00	0.9496	
69 Bis(2-chloroethoxy)methane	93	6.944	6.946	-0.002	98	73252	1.00	0.9400	
70 Benzoic acid	105	6.938	6.994	-0.056	91	35478	6.00	7.36	
72 2,4-Dichlorophenol	162	7.080	7.077	0.003	93	51608	1.00	0.9490	
73 1,2,4-Trichlorobenzene	180	7.157	7.160	-0.003	94	61955	1.00	0.9450	
74 Naphthalene	128	7.234	7.237	-0.003	97	198619	1.00	0.9718	
76 4-Chloroaniline	127	7.264	7.267	-0.003	97	74750	1.00	0.9569	
77 2,6-Dichlorophenol	162	7.282	7.284	-0.002	97	54561	1.00	0.9515	
79 Hexachlorobutadiene	225	7.335	7.338	-0.003	95	36304	1.00	0.9545	
84 Caprolactam	113	7.561	7.581	-0.021	79	18523	1.00	0.9475	
85 4-Chloro-3-methylphenol	107	7.691	7.693	-0.002	96	48868	1.00	0.9465	
87 2-Methylnaphthalene	142	7.857	7.853	0.004	96	123332	1.00	0.9785	
89 1-Methylnaphthalene	142	7.946	7.948	-0.002	92	124338	1.00	0.9703	
90 Hexachlorocyclopentadiene	237	7.993	7.996	-0.003	92	15226	1.00	0.8852	
91 1,2,4,5-Tetrachlorobenzene	216	8.005	8.008	-0.003	97	64406	1.00	1.00	
93 2,4,6-Trichlorophenol	196	8.100	8.102	-0.002	92	33894	1.00	0.9518	
94 2,4,5-Trichlorophenol	196	8.141	8.138	0.003	94	33819	1.00	0.9279	
96 1,1'-Biphenyl	154	8.254	8.256	-0.002	95	161912	1.00	1.01	
97 2-Chloronaphthalene	162	8.290	8.292	-0.002	96	122108	1.00	0.9541	
100 2-Nitroaniline	65	8.367	8.363	0.004	84	31352	1.00	0.9774	
105 Dimethyl phthalate	163	8.491	8.494	-0.003	99	139938	1.00	1.01	
106 1,3-Dinitrobenzene	168	8.545	8.541	0.004	85	15905	1.00	0.9041	
107 2,6-Dinitrotoluene	165	8.556	8.559	-0.003	94	30701	1.00	1.03	
108 Acenaphthylene	152	8.657	8.660	-0.003	98	194062	1.00	1.00	
109 3-Nitroaniline	138	8.716	8.719	-0.003	93	26459	1.00	0.9368	
110 Acenaphthene	153	8.805	8.808	-0.003	94	128599	1.00	0.99	
111 2,4-Dinitrophenol	184	8.811	8.814	-0.003	79	8429	2.00	2.43	
112 4-Nitrophenol	109	8.853	8.855	-0.002	90	18865	2.00	1.83	
114 2,4-Dinitrotoluene	165	8.912	8.914	-0.002	95	36017	1.00	0.9731	
115 Dibenzofuran	168	8.954	8.950	0.004	97	174288	1.00	1.00	
118 2,3,4,6-Tetrachlorophenol	232	9.054	9.057	-0.003	74	21552	1.00	0.9102	
121 Hexadecane	57	9.078	9.080	-0.002	93	85679	1.00	0.9851	
120 Diethyl phthalate	149	9.090	9.092	-0.002	98	134735	1.00	0.9838	
123 4-Chlorophenyl phenyl ether	204	9.220	9.217	0.003	91	67991	1.00	0.9829	
124 Fluorene	166	9.244	9.246	-0.002	94	148146	1.00	1.01	
126 4-Nitroaniline	138	9.244	9.246	-0.002	84	30077	1.00	0.9404	
127 4,6-Dinitro-2-methylphenol	198	9.274	9.276	-0.002	87	23677	2.00	1.87	
129 Diphenylamine	169	9.315	9.318	-0.003	94	99771	0.8550	0.8335	
130 N-Nitrosodiphenylamine	169	9.315	9.318	-0.003	63	99771	1.00	0.9749	
131 1,2-Diphenylhydrazine	77	9.357	9.359	-0.002	41	131738	1.00	0.9669	
132 Azobenzene	77	9.357	9.359	-0.002	99	131738	1.00	0.9669	
139 4-Bromophenyl phenyl ether	248	9.641	9.638	0.003	65	40431	1.00	0.9681	
140 Hexachlorobenzene	284	9.730	9.732	-0.002	96	41505	1.00	0.9230	
143 Atrazine	200	9.736	9.738	-0.002	92	36423	1.00	0.9840	
148 n-Octadecane	57	9.855	9.851	0.004	93	89489	1.00	0.99	
145 Pentachlorophenol	266	9.890	9.893	-0.003	93	15301	2.00	1.82	
151 Phenanthrene	178	10.080	10.076	0.004	98	199642	1.00	0.9761	
152 Anthracene	178	10.121	10.124	-0.003	98	203009	1.00	0.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.252	10.254	-0.002	96	177791	1.00	0.9778	
157 Di-n-butyl phthalate	149	10.495	10.497	-0.002	100	228357	1.00	0.9763	
164 Fluoranthene	202	11.271	11.268	0.003	98	210496	1.00	0.9694	
166 Benzidine	184	11.366	11.374	-0.008	99	259080	2.00	2.07	
167 Pyrene	202	11.532	11.535	-0.002	97	220026	1.00	1.00	
174 Butyl benzyl phthalate	149	12.166	12.169	-0.003	97	94654	1.00	0.9893	
181 Bis(2-ethylhexyl) phthalate	149	12.830	12.833	-0.003	97	132866	1.00	0.9736	
179 3,3'-Dichlorobenzidine	252	12.860	12.862	-0.002	73	198370	2.00	1.95	
180 Benzo[a]anthracene	228	12.925	12.928	-0.003	99	220504	1.00	0.9840	
182 Chrysene	228	12.973	12.975	-0.002	97	201770	1.00	0.9855	
184 Di-n-octyl phthalate	149	13.583	13.586	-0.003	99	228942	1.00	0.9840	
186 Benzo[b]fluoranthene	252	14.182	14.184	-0.002	98	209670	1.00	0.9045	
187 Benzo[k]fluoranthene	252	14.211	14.214	-0.003	99	234177	1.00	0.9877	
189 Benzo[a]pyrene	252	14.591	14.593	-0.002	80	197031	1.00	0.9544	
194 Dibenz(a,h)anthracene	278	16.209	16.217	-0.008	90	195851	1.00	0.9570	
193 Indeno[1,2,3-cd]pyrene	276	16.215	16.223	-0.008	96	241367	1.00	0.9503	
195 Benzo[g,h,i]perylene	276	16.689	16.698	-0.009	96	194159	1.00	0.9706	
S 261 Total Cresols	1				0			1.97	

QC Flag Legend

Processing Flags

Reagents:

MB_L1LVI_WRK_00644 Amount Added: 1.00 Units: mL

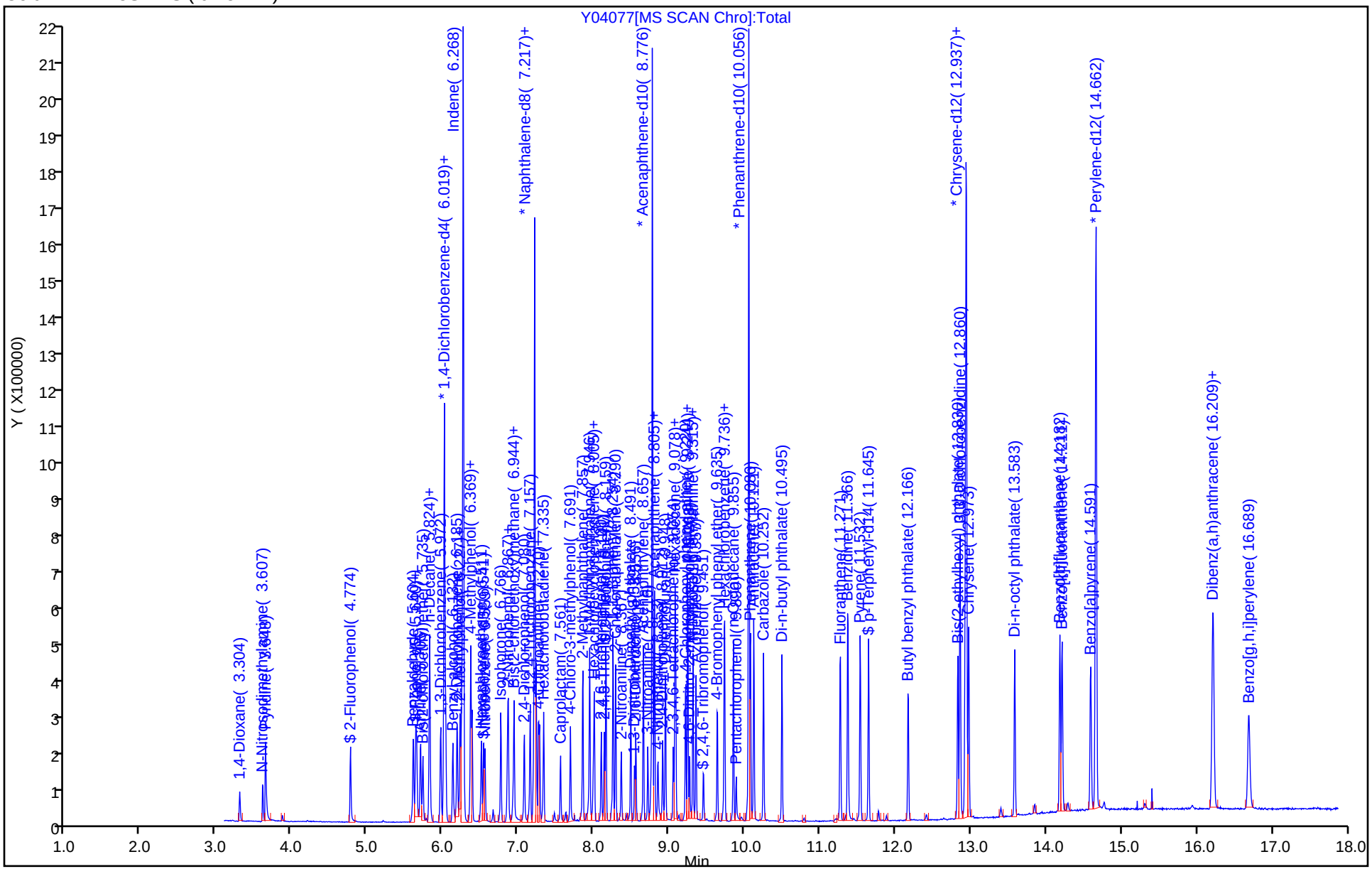
Report Date: 11-Oct-2024 11:30:57 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04077.D

Injection Date:	10-Oct-2024 15:42:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 1			Worklist Smp#:	5
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04078.D
Lims ID: IC - List 1 - 2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 10-Oct-2024 16:10:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-006
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:31:18 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:53:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.018	6.021	-0.003	95	204331	4.00	4.00	
* 2 Naphthalene-d8	136	7.216	7.213	0.003	99	759842	4.00	4.00	
* 3 Acenaphthene-d10	164	8.775	8.777	-0.002	93	440182	4.00	4.00	
* 4 Phenanthrene-d10	188	10.055	10.058	-0.003	97	719816	4.00	4.00	
* 5 Chrysene-d12	240	12.942	12.939	0.003	99	654159	4.00	4.00	
* 6 Perylene-d12	264	14.661	14.658	0.003	97	725592	4.00	4.00	
$ 7 2-Fluorophenol	112	4.773	4.771	0.002	92	128328	2.00	2.04	
$ 8 Phenol-d5	99	5.639	5.636	0.003	98	157909	2.00	2.03	
$ 9 Nitrobenzene-d5	82	6.540	6.537	0.003	89	139372	2.00	1.94	
$ 10 2-Fluorobiphenyl	172	8.164	8.162	0.002	100	305334	2.00	2.02	
$ 11 2,4,6-Tribromophenol	330	9.456	9.454	0.002	95	32424	2.00	1.94	
$ 12 p-Terphenyl-d14	244	11.644	11.647	-0.003	96	366271	2.00	2.07	
13 1,4-Dioxane	88	3.303	3.307	-0.004	99	50362	2.00	1.99	
14 N-Nitrosodimethylamine	42	3.606	3.609	-0.003	94	65056	2.00	2.02	
15 Pyridine	52	3.641	3.639	0.002	93	128655	4.00	3.71	
35 Benzaldehyde	77	5.609	5.607	0.002	95	111862	2.00	2.22	
37 Phenol	94	5.651	5.654	-0.003	99	158259	2.00	2.00	
36 Aniline	93	5.704	5.702	0.002	97	189816	2.00	1.97	
39 Bis(2-chloroethyl)ether	93	5.734	5.737	-0.003	94	145111	2.00	2.19	
41 n-Decane	57	5.823	5.820	0.003	92	154256	2.00	2.03	
40 2-Chlorophenol	128	5.829	5.826	0.003	97	132912	2.00	2.02	
43 1,3-Dichlorobenzene	146	5.971	5.968	0.003	99	159373	2.00	2.04	
44 1,4-Dichlorobenzene	146	6.036	6.034	0.002	96	160927	2.00	2.01	
45 Benzyl alcohol	108	6.131	6.134	-0.003	94	83551	2.00	2.00	
46 1,2-Dichlorobenzene	146	6.190	6.188	0.002	98	151147	2.00	2.02	
48 2-Methylphenol	108	6.226	6.229	-0.003	93	121402	2.00	2.02	
49 2,2'-oxybis[1-chloropropane]	45	6.243	6.247	-0.004	94	215142	2.00	2.10	
47 Indene	115	6.267	6.271	-0.004	89	1543302	12.0	13.1	
57 4-Methylphenol	108	6.368	6.366	0.002	96	124337	2.00	1.99	
53 N-Nitrosodi-n-propylamine	70	6.368	6.371	-0.003	90	91529	2.00	2.03	
52 Acetophenone	105	6.386	6.389	-0.003	96	177222	2.00	2.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.510	6.508	0.002	96	61496	2.00	2.02	
59 Nitrobenzene	77	6.558	6.555	0.003	88	139031	2.00	1.97	
62 Isophorone	82	6.765	6.769	-0.004	99	251667	2.00	2.01	
64 2-Nitrophenol	139	6.854	6.858	-0.004	94	66228	2.00	1.93	
66 2,4-Dimethylphenol	107	6.866	6.869	-0.003	95	132567	2.00	2.00	
69 Bis(2-chloroethoxy)methane	93	6.943	6.946	-0.003	97	150446	2.00	1.97	
70 Benzoic acid	105	6.967	6.994	-0.027	89	161927	12.0	10.8	
72 2,4-Dichlorophenol	162	7.079	7.077	0.002	92	110071	2.00	1.97	
73 1,2,4-Trichlorobenzene	180	7.156	7.160	-0.004	94	125604	2.00	1.95	
74 Naphthalene	128	7.233	7.237	-0.004	98	404137	2.00	2.01	
76 4-Chloroaniline	127	7.269	7.267	0.002	96	152287	2.00	1.98	
77 2,6-Dichlorophenol	162	7.281	7.284	-0.003	97	111168	2.00	1.97	
79 Hexachlorobutadiene	225	7.334	7.338	-0.004	95	74282	2.00	1.99	
84 Caprolactam	113	7.565	7.581	-0.016	79	40787	2.00	2.03	
85 4-Chloro-3-methylphenol	107	7.690	7.693	-0.003	96	107700	2.00	2.03	
87 2-Methylnaphthalene	142	7.856	7.853	0.003	93	252648	2.00	2.04	
89 1-Methylnaphthalene	142	7.945	7.948	-0.003	93	254308	2.00	2.02	
90 Hexachlorocyclopentadiene	237	7.992	7.996	-0.004	92	42836	2.00	1.84	
91 1,2,4,5-Tetrachlorobenzene	216	8.004	8.008	-0.004	96	129575	2.00	1.99	
93 2,4,6-Trichlorophenol	196	8.099	8.102	-0.003	93	73777	2.00	1.92	
94 2,4,5-Trichlorophenol	196	8.140	8.138	0.002	95	76811	2.00	1.91	
96 1,1'-Biphenyl	154	8.253	8.256	-0.003	96	324951	2.00	2.01	
97 2-Chloronaphthalene	162	8.289	8.292	-0.003	95	261881	2.00	2.03	
100 2-Nitroaniline	65	8.366	8.363	0.003	87	67657	2.00	1.96	
105 Dimethyl phthalate	163	8.490	8.494	-0.004	99	277953	2.00	1.99	
106 1,3-Dinitrobenzene	168	8.543	8.541	0.002	84	36464	2.00	1.83	
107 2,6-Dinitrotoluene	165	8.561	8.559	0.002	94	60492	2.00	1.93	
108 Acenaphthylene	152	8.656	8.660	-0.004	98	398540	2.00	2.04	
109 3-Nitroaniline	138	8.715	8.719	-0.004	96	61330	2.00	1.95	
110 Acenaphthene	153	8.804	8.808	-0.004	95	265517	2.00	2.03	
111 2,4-Dinitrophenol	184	8.810	8.814	-0.004	81	28464	4.00	3.70	
112 4-Nitrophenol	109	8.852	8.855	-0.003	90	45823	4.00	3.68	
114 2,4-Dinitrotoluene	165	8.917	8.914	0.003	95	76310	2.00	1.91	
115 Dibenzofuran	168	8.952	8.950	0.002	97	359184	2.00	2.03	
118 2,3,4,6-Tetrachlorophenol	232	9.053	9.057	-0.004	72	50444	2.00	1.84	
121 Hexadecane	57	9.077	9.080	-0.003	93	180493	2.00	2.06	
120 Diethyl phthalate	149	9.089	9.092	-0.003	98	280443	2.00	2.03	
123 4-Chlorophenyl phenyl ether	204	9.219	9.217	0.002	90	139909	2.00	2.01	
124 Fluorene	166	9.249	9.246	0.003	94	299635	2.00	2.02	
126 4-Nitroaniline	138	9.249	9.246	0.003	54	68356	2.00	2.00	
127 4,6-Dinitro-2-methylphenol	198	9.273	9.276	-0.003	90	63585	4.00	3.70	
129 Diphenylamine	169	9.314	9.318	-0.004	95	201662	1.71	1.73	
130 N-Nitrosodiphenylamine	169	9.314	9.318	-0.004	62	201662	2.00	2.03	
131 1,2-Diphenylhydrazine	77	9.356	9.359	-0.003	44	280298	2.00	2.11	
132 Azobenzene	77	9.356	9.359	-0.003	99	280298	2.00	2.11	
139 4-Bromophenyl phenyl ether	248	9.640	9.638	0.002	65	81167	2.00	2.00	
140 Hexachlorobenzene	284	9.729	9.732	-0.003	94	90116	2.00	2.06	
143 Atrazine	200	9.735	9.738	-0.003	92	76542	2.00	2.10	
148 n-Octadecane	57	9.853	9.851	0.002	93	186712	2.00	2.12	
145 Pentachlorophenol	266	9.889	9.893	-0.004	94	45351	4.00	3.22	
151 Phenanthrene	178	10.079	10.076	0.003	97	405994	2.00	2.04	
152 Anthracene	178	10.120	10.124	-0.004	98	421687	2.00	2.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.251	10.254	-0.003	95	365408	2.00	2.07	
157 Di-n-butyl phthalate	149	10.494	10.497	-0.003	100	463712	2.00	2.04	
164 Fluoranthene	202	11.270	11.268	0.002	98	439926	2.00	2.08	
166 Benzidine	184	11.371	11.374	-0.003	99	486997	4.00	3.72	
167 Pyrene	202	11.531	11.535	-0.003	97	455511	2.00	2.08	
174 Butyl benzyl phthalate	149	12.171	12.169	0.002	97	200010	2.00	1.99	
181 Bis(2-ethylhexyl) phthalate	149	12.829	12.833	-0.004	96	293127	2.00	2.04	
179 3,3'-Dichlorobenzidine	252	12.859	12.862	-0.003	73	390748	4.00	3.77	
180 Benzo[a]anthracene	228	12.924	12.928	-0.004	99	455684	2.00	2.03	
182 Chrysene	228	12.971	12.975	-0.004	97	422497	2.00	2.06	
184 Di-n-octyl phthalate	149	13.582	13.586	-0.004	99	493562	2.00	2.03	
186 Benzo[b]fluoranthene	252	14.181	14.184	-0.003	98	478423	2.00	2.08	
187 Benzo[k]fluoranthene	252	14.210	14.214	-0.004	99	511188	2.00	2.20	
189 Benzo[a]pyrene	252	14.590	14.593	-0.003	78	413291	2.00	2.01	
194 Dibenz(a,h)anthracene	278	16.208	16.217	-0.009	88	401632	2.00	1.98	
193 Indeno[1,2,3-cd]pyrene	276	16.214	16.223	-0.009	97	511230	2.00	2.03	
195 Benzo[g,h,i]perylene	276	16.688	16.698	-0.010	97	398412	2.00	2.01	
S 261 Total Cresols	1				0			4.02	

QC Flag Legend

Processing Flags

Reagents:

MB_L1LVI_WRK_00645 Amount Added: 1.00 Units: mL

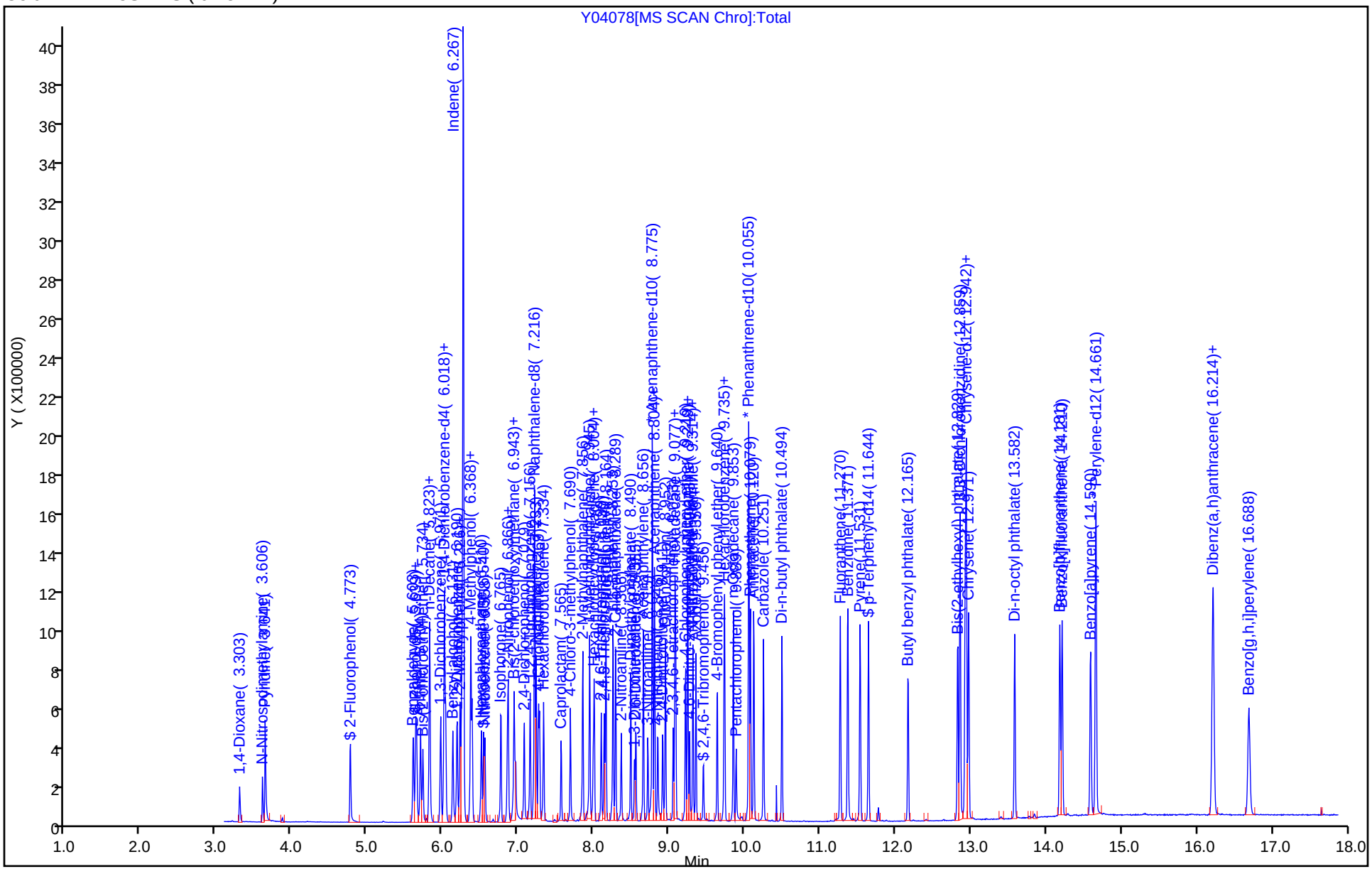
Report Date: 11-Oct-2024 11:31:20 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04078.D

Injection Date:	10-Oct-2024 16:10:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 2			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04079.D
Lims ID: ICIS - List 1 - 4
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 10-Oct-2024 16:37:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-007
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:31:46 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:42:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.022	6.022	0.000	94	213896	4.00	4.00	
* 2 Naphthalene-d8	136	7.219	7.219	0.000	99	773798	4.00	4.00	
* 3 Acenaphthene-d10	164	8.778	8.778	0.000	93	455089	4.00	4.00	
* 4 Phenanthrene-d10	188	10.058	10.058	0.000	97	755758	4.00	4.00	
* 5 Chrysene-d12	240	12.945	12.945	0.000	99	695335	4.00	4.00	
* 6 Perylene-d12	264	14.664	14.664	0.000	97	758890	4.00	4.00	
$ 7 2-Fluorophenol	112	4.771	4.771	0.000	93	253018	4.00	3.84	
$ 8 Phenol-d5	99	5.636	5.636	0.000	96	322443	4.00	3.96	
$ 9 Nitrobenzene-d5	82	6.537	6.537	0.000	90	312189	4.00	4.21	
$ 10 2-Fluorobiphenyl	172	8.162	8.162	0.000	100	612523	4.00	3.92	
$ 11 2,4,6-Tribromophenol	330	9.454	9.454	0.000	95	71123	4.00	3.87	
$ 12 p-Terphenyl-d14	244	11.647	11.647	0.000	97	718271	4.00	3.81	
13 1,4-Dioxane	88	3.307	3.307	0.000	97	103302	4.00	3.91	
14 N-Nitrosodimethylamine	42	3.609	3.609	0.000	93	131212	4.00	3.90	
15 Pyridine	52	3.639	3.639	0.000	92	281968	8.00	7.57	
35 Benzaldehyde	77	5.607	5.607	0.000	94	212593	4.00	4.13	
37 Phenol	94	5.654	5.654	0.000	99	322154	4.00	3.89	
36 Aniline	93	5.702	5.702	0.000	95	388415	4.00	3.85	
39 Bis(2-chloroethyl)ether	93	5.737	5.737	0.000	94	276130	4.00	4.04	
41 n-Decane	57	5.820	5.820	0.000	92	313672	4.00	3.94	
40 2-Chlorophenol	128	5.826	5.826	0.000	98	270114	4.00	3.92	
43 1,3-Dichlorobenzene	146	5.968	5.968	0.000	99	315016	4.00	3.86	
44 1,4-Dichlorobenzene	146	6.034	6.034	0.000	95	325428	4.00	3.89	
45 Benzyl alcohol	108	6.134	6.134	0.000	93	170430	4.00	3.84	
46 1,2-Dichlorobenzene	146	6.188	6.188	0.000	98	307674	4.00	3.92	
48 2-Methylphenol	108	6.229	6.229	0.000	92	242675	4.00	3.86	
49 2,2'-oxybis[1-chloropropane]	45	6.247	6.247	0.000	93	420966	4.00	3.99	
47 Indene	115	6.271	6.271	0.000	88	3077049	24.0	25.4	
57 4-Methylphenol	108	6.366	6.366	0.000	96	258015	4.00	3.95	
53 N-Nitrosodi-n-propylamine	70	6.371	6.371	0.000	91	185957	4.00	3.94	
52 Acetophenone	105	6.389	6.389	0.000	98	358207	4.00	3.94	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.508	6.508	0.000	98	122711	4.00	3.85	
59 Nitrobenzene	77	6.555	6.555	0.000	88	286118	4.00	3.98	
62 Isophorone	82	6.769	6.769	0.000	99	502690	4.00	3.94	
64 2-Nitrophenol	139	6.858	6.858	0.000	94	139128	4.00	3.87	
66 2,4-Dimethylphenol	107	6.869	6.869	0.000	94	267653	4.00	3.97	
69 Bis(2-chloroethoxy)methane	93	6.946	6.946	0.000	98	315943	4.00	4.05	
70 Benzoic acid	105	6.994	6.994	0.000	88	528596	24.0	20.5	
72 2,4-Dichlorophenol	162	7.077	7.077	0.000	94	226619	4.00	3.90	
73 1,2,4-Trichlorobenzene	180	7.160	7.160	0.000	94	268660	4.00	4.10	
74 Naphthalene	128	7.237	7.237	0.000	98	791133	4.00	3.87	
76 4-Chloroaniline	127	7.267	7.267	0.000	97	310670	4.00	3.98	
77 2,6-Dichlorophenol	162	7.284	7.284	0.000	98	227171	4.00	3.96	
79 Hexachlorobutadiene	225	7.338	7.338	0.000	96	146471	4.00	3.85	
84 Caprolactam	113	7.581	7.581	0.000	78	80525	4.00	3.86	
85 4-Chloro-3-methylphenol	107	7.693	7.693	0.000	96	216526	4.00	3.93	
87 2-Methylnaphthalene	142	7.853	7.853	0.000	93	500396	4.00	3.97	
89 1-Methylnaphthalene	142	7.948	7.948	0.000	94	512870	4.00	4.00	
90 Hexachlorocyclopentadiene	237	7.996	7.996	0.000	94	101650	4.00	3.78	
91 1,2,4,5-Tetrachlorobenzene	216	8.008	8.008	0.000	97	261601	4.00	3.88	
93 2,4,6-Trichlorophenol	196	8.102	8.102	0.000	92	159433	4.00	3.88	
94 2,4,5-Trichlorophenol	196	8.138	8.138	0.000	95	167313	4.00	3.87	M
96 1,1'-Biphenyl	154	8.256	8.256	0.000	96	660505	4.00	3.96	
97 2-Chloronaphthalene	162	8.292	8.292	0.000	95	525631	4.00	3.94	
100 2-Nitroaniline	65	8.363	8.363	0.000	87	144596	4.00	3.92	
105 Dimethyl phthalate	163	8.494	8.494	0.000	99	555042	4.00	3.84	
106 1,3-Dinitrobenzene	168	8.541	8.541	0.000	85	83286	4.00	3.85	
107 2,6-Dinitrotoluene	165	8.559	8.559	0.000	94	133588	4.00	4.01	
108 Acenaphthylene	152	8.660	8.660	0.000	98	820797	4.00	4.07	
109 3-Nitroaniline	138	8.719	8.719	0.000	95	133682	4.00	3.94	
110 Acenaphthene	153	8.808	8.808	0.000	95	531244	4.00	3.94	
111 2,4-Dinitrophenol	184	8.814	8.814	0.000	80	77786	8.00	6.68	
112 4-Nitrophenol	109	8.855	8.855	0.000	89	107299	8.00	7.67	
114 2,4-Dinitrotoluene	165	8.914	8.914	0.000	95	164115	4.00	3.85	
115 Dibenzofuran	168	8.950	8.950	0.000	97	727701	4.00	3.99	
118 2,3,4,6-Tetrachlorophenol	232	9.057	9.057	0.000	71	114108	4.00	3.78	
121 Hexadecane	57	9.080	9.080	0.000	94	359465	4.00	3.96	
120 Diethyl phthalate	149	9.092	9.092	0.000	98	573400	4.00	4.02	
123 4-Chlorophenyl phenyl ether	204	9.217	9.217	0.000	92	282839	4.00	3.92	
124 Fluorene	166	9.246	9.246	0.000	93	600540	4.00	3.91	
126 4-Nitroaniline	138	9.246	9.246	0.000	57	142820	4.00	3.95	
127 4,6-Dinitro-2-methylphenol	198	9.276	9.276	0.000	88	146586	8.00	7.12	
129 Diphenylamine	169	9.318	9.318	0.000	95	403564	3.42	3.30	
130 N-Nitrosodiphenylamine	169	9.318	9.318	0.000	62	403564	4.00	3.86	
131 1,2-Diphenylhydrazine	77	9.359	9.359	0.000	41	565352	4.00	4.06	
132 Azobenzene	77	9.359	9.359	0.000	99	565352	4.00	4.06	
139 4-Bromophenyl phenyl ether	248	9.638	9.638	0.000	65	168378	4.00	3.95	
140 Hexachlorobenzene	284	9.732	9.732	0.000	95	181121	4.00	3.94	
143 Atrazine	200	9.738	9.738	0.000	93	150801	4.00	4.03	
148 n-Octadecane	57	9.851	9.851	0.000	93	380381	4.00	4.12	
145 Pentachlorophenol	266	9.893	9.893	0.000	94	127197	8.00	6.71	
151 Phenanthrene	178	10.076	10.076	0.000	98	839173	4.00	4.02	
152 Anthracene	178	10.124	10.124	0.000	98	836882	4.00	4.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.254	10.254	0.000	96	746568	4.00	4.02	
157 Di-n-butyl phthalate	149	10.497	10.497	0.000	100	966919	4.00	4.05	
164 Fluoranthene	202	11.268	11.268	0.000	98	889154	4.00	4.01	
166 Benzidine	184	11.374	11.374	0.000	100	1077602	8.00	7.54	
167 Pyrene	202	11.535	11.535	0.000	96	916947	4.00	3.94	
174 Butyl benzyl phthalate	149	12.169	12.169	0.000	98	415066	4.00	3.80	
181 Bis(2-ethylhexyl) phthalate	149	12.833	12.833	0.000	96	616846	4.00	3.95	
179 3,3'-Dichlorobenzidine	252	12.862	12.862	0.000	73	877136	8.00	7.88	
180 Benzo[a]anthracene	228	12.928	12.928	0.000	99	927418	4.00	3.90	
182 Chrysene	228	12.975	12.975	0.000	97	848822	4.00	3.90	
184 Di-n-octyl phthalate	149	13.586	13.586	0.000	99	1043796	4.00	3.96	
186 Benzo[b]fluoranthene	252	14.184	14.184	0.000	98	962391	4.00	3.98	
187 Benzo[k]fluoranthene	252	14.214	14.214	0.000	99	934084	4.00	3.84	M
189 Benzo[a]pyrene	252	14.593	14.593	0.000	78	848526	4.00	3.93	
194 Dibenz(a,h)anthracene	278	16.217	16.217	0.000	88	851909	4.00	3.98	
193 Indeno[1,2,3-cd]pyrene	276	16.223	16.223	0.000	97	1057684	4.00	3.99	
195 Benzo[g,h,i]perylene	276	16.698	16.698	0.000	96	834543	4.00	4.01	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00646 Amount Added: 1.00 Units: mL

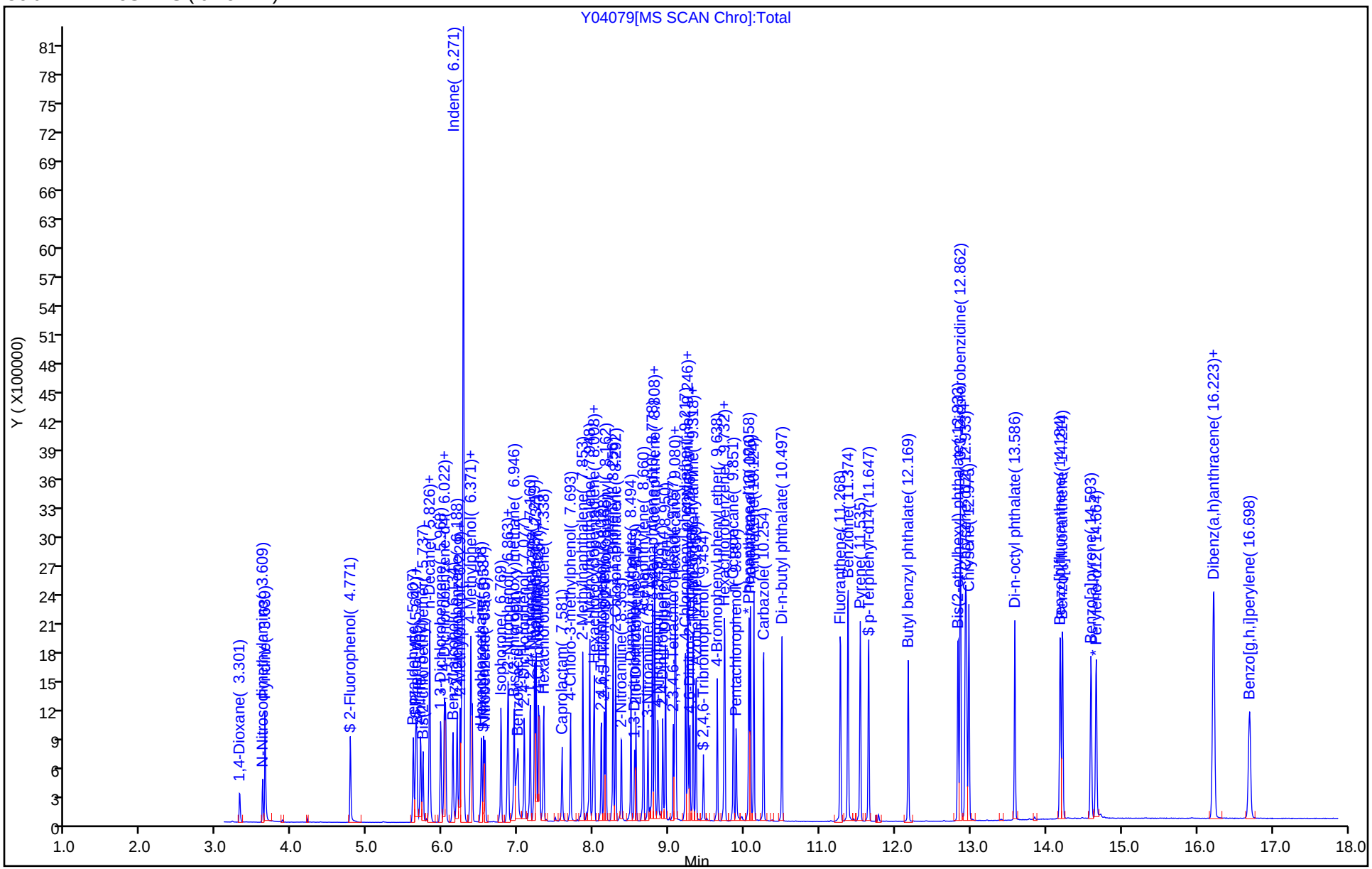
Report Date: 11-Oct-2024 11:31:54 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04079.D

Injection Date:	10-Oct-2024 16:37:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	ICIS - List 1 - 4			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Resolution Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04079.D
Injection Date: 10-Oct-2024 16:37:30 Instrument ID: HP5973Y
Lims ID: ICIS - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

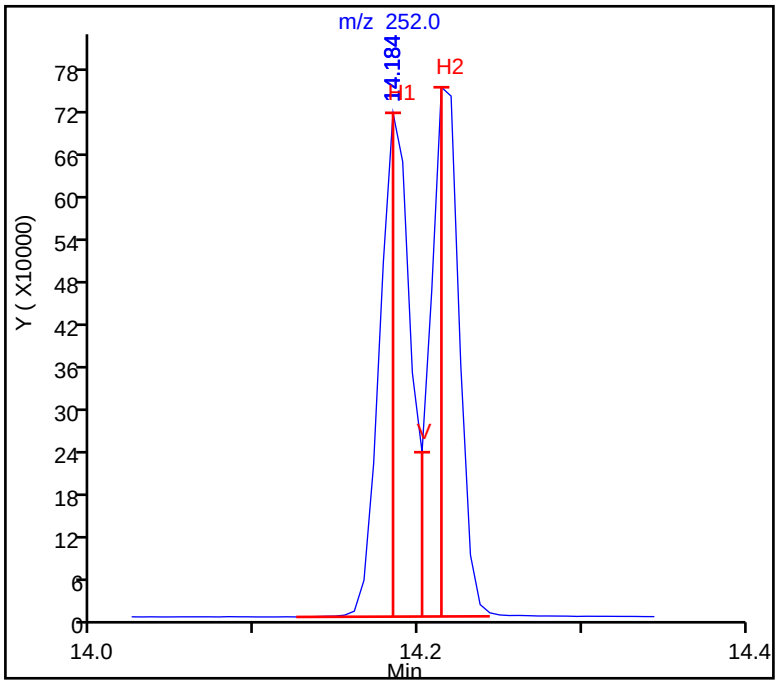
186 Benzo[b]fluoranthene - 187 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 231286
H1(186 Benzo[b]fluoranthen) = 709053
H2(187 Benzo[k]fluoranthen) = 744860

Version D: %R = 31.8 <= 50.0
Passed



Manual Integration/User Assign Peak Report

Eurofins Buffalo

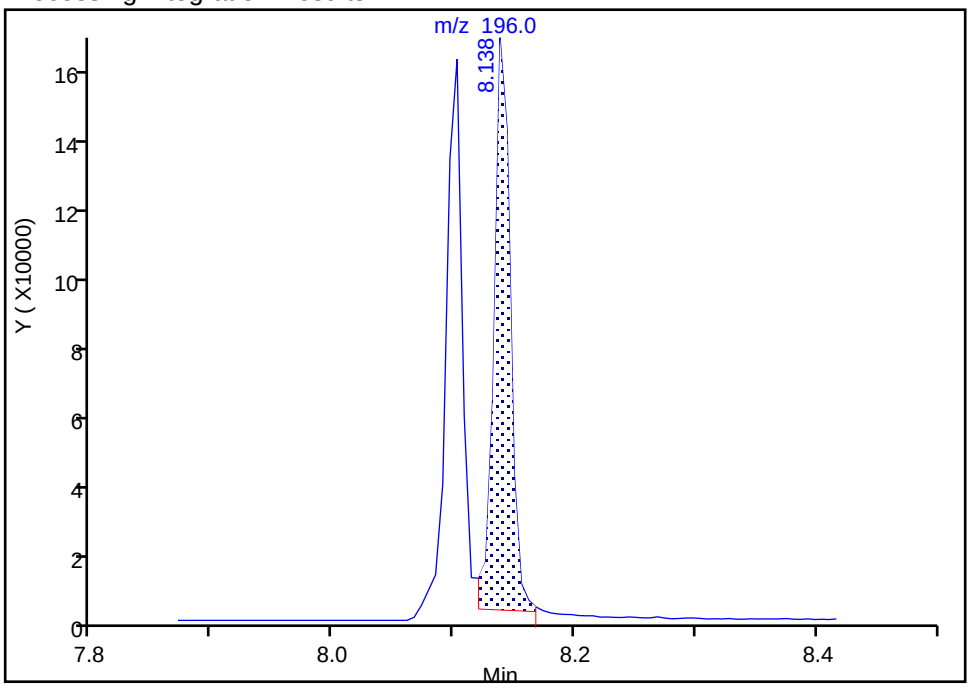
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04079.D
Injection Date: 10-Oct-2024 16:37:30 Instrument ID: HP5973Y
Lims ID: ICIS - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

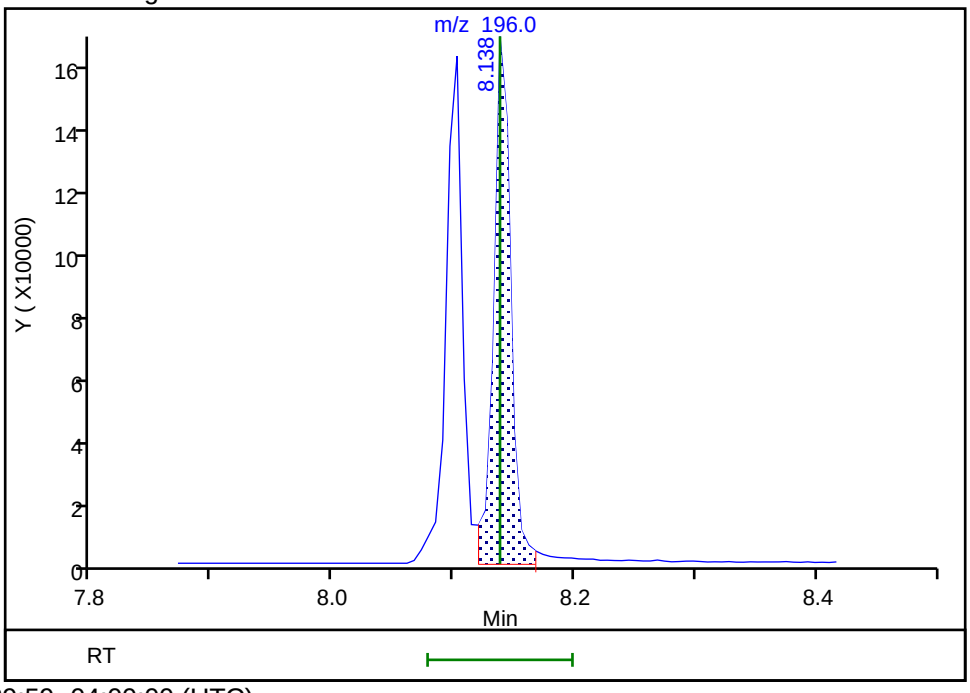
Processing Integration Results

RT: 8.14
Area: 157547
Amount: 3.809318
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 167313
Amount: 3.866626
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:29:59 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Buffalo

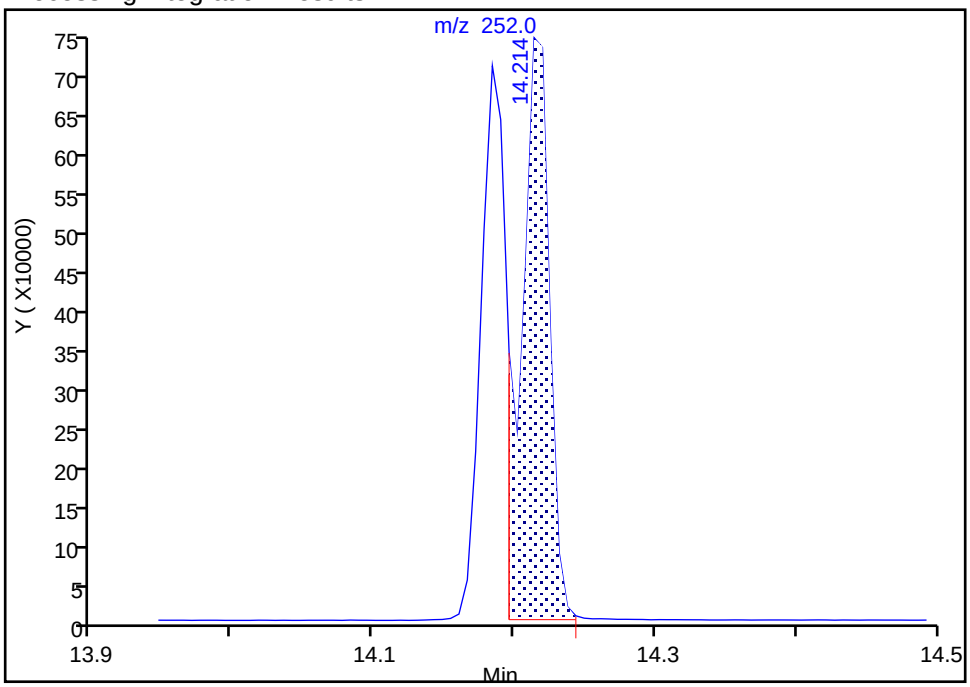
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04079.D
Injection Date: 10-Oct-2024 16:37:30 Instrument ID: HP5973Y
Lims ID: ICIS - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

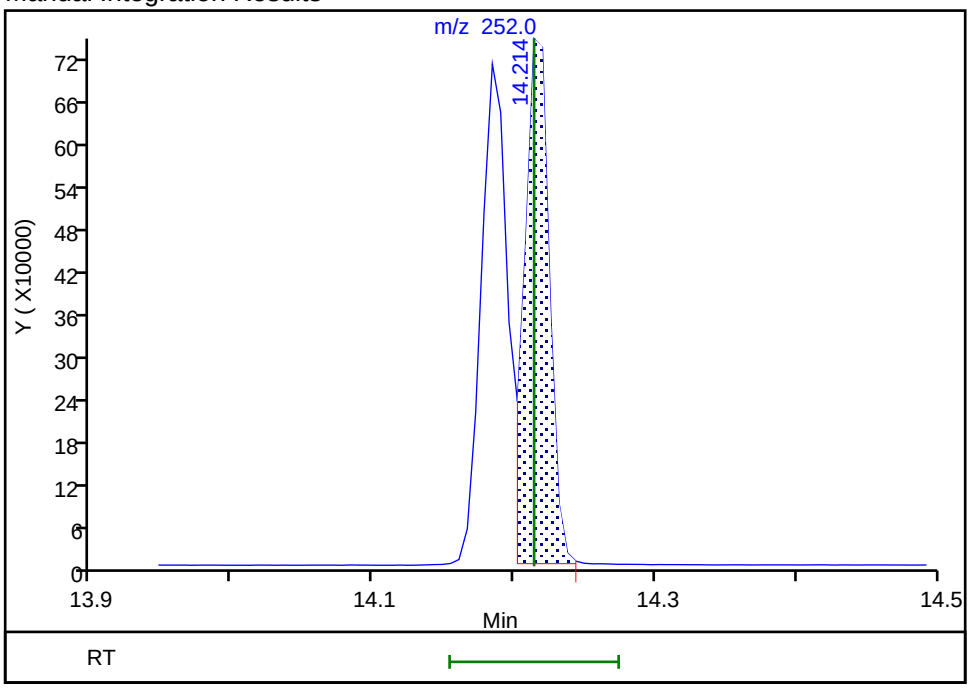
Processing Integration Results

RT: 14.21
Area: 1056032
Amount: 4.223397
Amount Units: ng/uL



Manual Integration Results

RT: 14.21
Area: 934084
Amount: 3.838831
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:30:25 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04080.D
Lims ID: IC - List 1 - 8
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 10-Oct-2024 17:05:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-008
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:32:10 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:54:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.022	6.022	0.000	94	196285	4.00	4.00	
* 2 Naphthalene-d8	136	7.219	7.219	0.000	99	688788	4.00	4.00	
* 3 Acenaphthene-d10	164	8.778	8.778	0.000	93	415416	4.00	4.00	
* 4 Phenanthrene-d10	188	10.058	10.058	0.000	97	708238	4.00	4.00	
* 5 Chrysene-d12	240	12.951	12.945	0.006	99	625760	4.00	4.00	
* 6 Perylene-d12	264	14.664	14.664	0.000	97	700280	4.00	4.00	
$ 7 2-Fluorophenol	112	4.771	4.771	0.000	93	513399	8.00	8.49	
$ 8 Phenol-d5	99	5.642	5.636	0.006	97	620078	8.00	8.30	
$ 9 Nitrobenzene-d5	82	6.543	6.537	0.006	88	563810	8.00	8.50	
$ 10 2-Fluorobiphenyl	172	8.167	8.162	0.005	99	1178690	8.00	8.26	
$ 11 2,4,6-Tribromophenol	330	9.460	9.454	0.006	94	137370	8.00	7.78	
$ 12 p-Terphenyl-d14	244	11.647	11.647	0.000	97	1452130	8.00	8.56	
13 1,4-Dioxane	88	3.301	3.307	-0.006	97	201388	8.00	8.30	
14 N-Nitrosodimethylamine	42	3.609	3.609	0.000	93	252000	8.00	8.16	
15 Pyridine	52	3.639	3.639	0.000	92	591576	16.0	17.1	
35 Benzaldehyde	77	5.607	5.607	0.000	96	394805	8.00	8.48	
37 Phenol	94	5.654	5.654	0.000	99	635286	8.00	8.36	
36 Aniline	93	5.707	5.702	0.005	97	805708	8.00	8.69	
39 Bis(2-chloroethyl)ether	93	5.737	5.737	0.000	93	494654	8.00	7.97	
41 n-Decane	57	5.826	5.820	0.006	92	600915	8.00	8.23	
40 2-Chlorophenol	128	5.832	5.826	0.006	98	532626	8.00	8.43	
43 1,3-Dichlorobenzene	146	5.974	5.968	0.006	99	620226	8.00	8.27	
44 1,4-Dichlorobenzene	146	6.039	6.034	0.005	95	635898	8.00	8.28	
45 Benzyl alcohol	108	6.134	6.134	0.000	93	342028	8.00	8.34	
46 1,2-Dichlorobenzene	146	6.187	6.188	-0.001	98	595203	8.00	8.26	
48 2-Methylphenol	108	6.229	6.229	0.000	97	483464	8.00	8.39	
49 2,2'-oxybis[1-chloropropane]	45	6.247	6.247	0.000	92	793612	8.00	8.27	
47 Indene	115	6.276	6.271	0.005	90	5536590	48.0	50.4	
57 4-Methylphenol	108	6.371	6.366	0.005	97	495459	8.00	8.27	
53 N-Nitrosodi-n-propylamine	70	6.377	6.371	0.006	88	357657	8.00	8.26	
52 Acetophenone	105	6.389	6.389	0.000	96	672484	8.00	8.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.508	6.508	0.000	99	244076	8.00	8.35	
59 Nitrobenzene	77	6.561	6.555	0.006	88	552766	8.00	8.63	
62 Isophorone	82	6.774	6.769	0.005	99	984281	8.00	8.66	
64 2-Nitrophenol	139	6.857	6.858	-0.001	93	283844	8.00	8.72	
66 2,4-Dimethylphenol	107	6.869	6.869	0.000	95	523454	8.00	8.73	
69 Bis(2-chloroethoxy)methane	93	6.946	6.946	0.000	98	595617	8.00	8.58	
70 Benzoic acid	105	7.041	6.994	0.047	89	1357379	48.0	47.0	
72 2,4-Dichlorophenol	162	7.083	7.077	0.006	93	450841	8.00	8.63	
73 1,2,4-Trichlorobenzene	180	7.160	7.160	0.000	94	500259	8.00	8.57	
74 Naphthalene	128	7.237	7.237	0.000	98	1543465	8.00	8.48	
76 4-Chloroaniline	127	7.272	7.267	0.005	96	611393	8.00	8.79	
77 2,6-Dichlorophenol	162	7.284	7.284	0.000	97	440175	8.00	8.62	
79 Hexachlorobutadiene	225	7.337	7.338	-0.001	96	291805	8.00	8.62	
84 Caprolactam	113	7.598	7.581	0.017	77	158008	8.00	8.42	
85 4-Chloro-3-methylphenol	107	7.699	7.693	0.006	97	427827	8.00	8.62	
87 2-Methylnaphthalene	142	7.859	7.853	0.006	92	959857	8.00	8.55	
89 1-Methylnaphthalene	142	7.948	7.948	0.000	94	991555	8.00	8.69	
90 Hexachlorocyclopentadiene	237	7.995	7.996	-0.001	95	219143	8.00	8.45	
91 1,2,4,5-Tetrachlorobenzene	216	8.007	8.008	-0.001	97	518910	8.00	8.44	
93 2,4,6-Trichlorophenol	196	8.102	8.102	0.000	92	321015	8.00	8.42	
94 2,4,5-Trichlorophenol	196	8.144	8.138	0.006	96	340046	8.00	8.43	M
96 1,1'-Biphenyl	154	8.256	8.256	0.000	96	1271064	8.00	8.34	
97 2-Chloronaphthalene	162	8.292	8.292	0.000	96	1019822	8.00	8.37	
100 2-Nitroaniline	65	8.369	8.363	0.006	86	290671	8.00	8.49	
105 Dimethyl phthalate	163	8.499	8.494	0.005	99	1115216	8.00	8.46	
106 1,3-Dinitrobenzene	168	8.547	8.541	0.006	85	168925	8.00	8.52	
107 2,6-Dinitrotoluene	165	8.564	8.559	0.005	94	263755	8.00	8.57	
108 Acenaphthylene	152	8.659	8.660	-0.001	98	1567151	8.00	8.52	
109 3-Nitroaniline	138	8.725	8.719	0.006	96	267530	8.00	8.46	
110 Acenaphthene	153	8.808	8.808	0.000	94	1022418	8.00	8.30	
111 2,4-Dinitrophenol	184	8.813	8.814	-0.001	83	202787	16.0	15.6	
112 4-Nitrophenol	109	8.855	8.855	0.000	91	228151	16.0	17.2	
114 2,4-Dinitrotoluene	165	8.920	8.914	0.006	95	337929	8.00	8.52	
115 Dibenzofuran	168	8.956	8.950	0.006	97	1398713	8.00	8.39	
118 2,3,4,6-Tetrachlorophenol	232	9.057	9.057	-0.001	72	246030	8.00	8.64	
121 Hexadecane	57	9.080	9.080	0.000	94	710170	8.00	8.58	
120 Diethyl phthalate	149	9.092	9.092	0.000	98	1109709	8.00	8.51	
123 4-Chlorophenyl phenyl ether	204	9.222	9.217	0.005	89	561637	8.00	8.53	
124 Fluorene	166	9.252	9.246	0.006	96	1187855	8.00	8.45	
126 4-Nitroaniline	138	9.258	9.246	0.012	89	284479	8.00	8.50	
127 4,6-Dinitro-2-methylphenol	198	9.282	9.276	0.006	90	332968	16.0	16.1	
129 Diphenylamine	169	9.323	9.318	0.005	94	830154	6.84	7.24	
130 N-Nitrosodiphenylamine	169	9.323	9.318	0.005	63	830154	8.00	8.47	
131 1,2-Diphenylhydrazine	77	9.359	9.359	0.000	41	1079590	8.00	8.28	
132 Azobenzene	77	9.359	9.359	0.000	99	1079590	8.00	8.28	
139 4-Bromophenyl phenyl ether	248	9.643	9.638	0.005	64	343965	8.00	8.60	
140 Hexachlorobenzene	284	9.732	9.732	0.000	95	361589	8.00	8.40	
143 Atrazine	200	9.744	9.738	0.006	93	287727	8.00	8.47	
148 n-Octadecane	57	9.857	9.851	0.006	94	716892	8.00	8.29	
145 Pentachlorophenol	266	9.892	9.893	-0.001	94	321748	16.0	16.2	
151 Phenanthrene	178	10.082	10.076	0.006	98	1592887	8.00	8.14	
152 Anthracene	178	10.129	10.124	0.005	98	1648721	8.00	8.42	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.254	10.254	0.000	96	1444483	8.00	8.30	
157 Di-n-butyl phthalate	149	10.497	10.497	0.000	100	1898271	8.00	8.48	
164 Fluoranthene	202	11.273	11.268	0.005	98	1763574	8.00	8.48	
166 Benzidine	184	11.380	11.374	0.006	99	2275679	16.0	17.4	
167 Pyrene	202	11.540	11.535	0.006	96	1803963	8.00	8.61	
174 Butyl benzyl phthalate	149	12.174	12.169	0.005	97	846735	8.00	8.51	
181 Bis(2-ethylhexyl) phthalate	149	12.832	12.833	-0.001	96	1213598	8.00	8.54	
179 3,3'-Dichlorobenzidine	252	12.874	12.862	0.012	73	1750306	16.0	17.4	
180 Benzo[a]anthracene	228	12.933	12.928	0.005	99	1799591	8.00	8.40	
182 Chrysene	228	12.981	12.975	0.006	97	1626396	8.00	8.31	
184 Di-n-octyl phthalate	149	13.585	13.586	-0.001	99	2015497	8.00	8.40	
186 Benzo[b]fluoranthene	252	14.190	14.184	0.006	98	1953855	8.00	8.73	
187 Benzo[k]fluoranthene	252	14.220	14.214	0.006	99	1811402	8.00	8.07	
189 Benzo[a]pyrene	252	14.599	14.593	0.006	78	1704643	8.00	8.54	
194 Dibenz(a,h)anthracene	278	16.229	16.217	0.012	90	1688159	8.00	8.53	
193 Indeno[1,2,3-cd]pyrene	276	16.235	16.223	0.012	98	2114181	8.00	8.63	
195 Benzo[g,h,i]perylene	276	16.709	16.698	0.011	98	1645181	8.00	8.55	
S 261 Total Cresols	1				0			16.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00647 Amount Added: 1.00 Units: mL

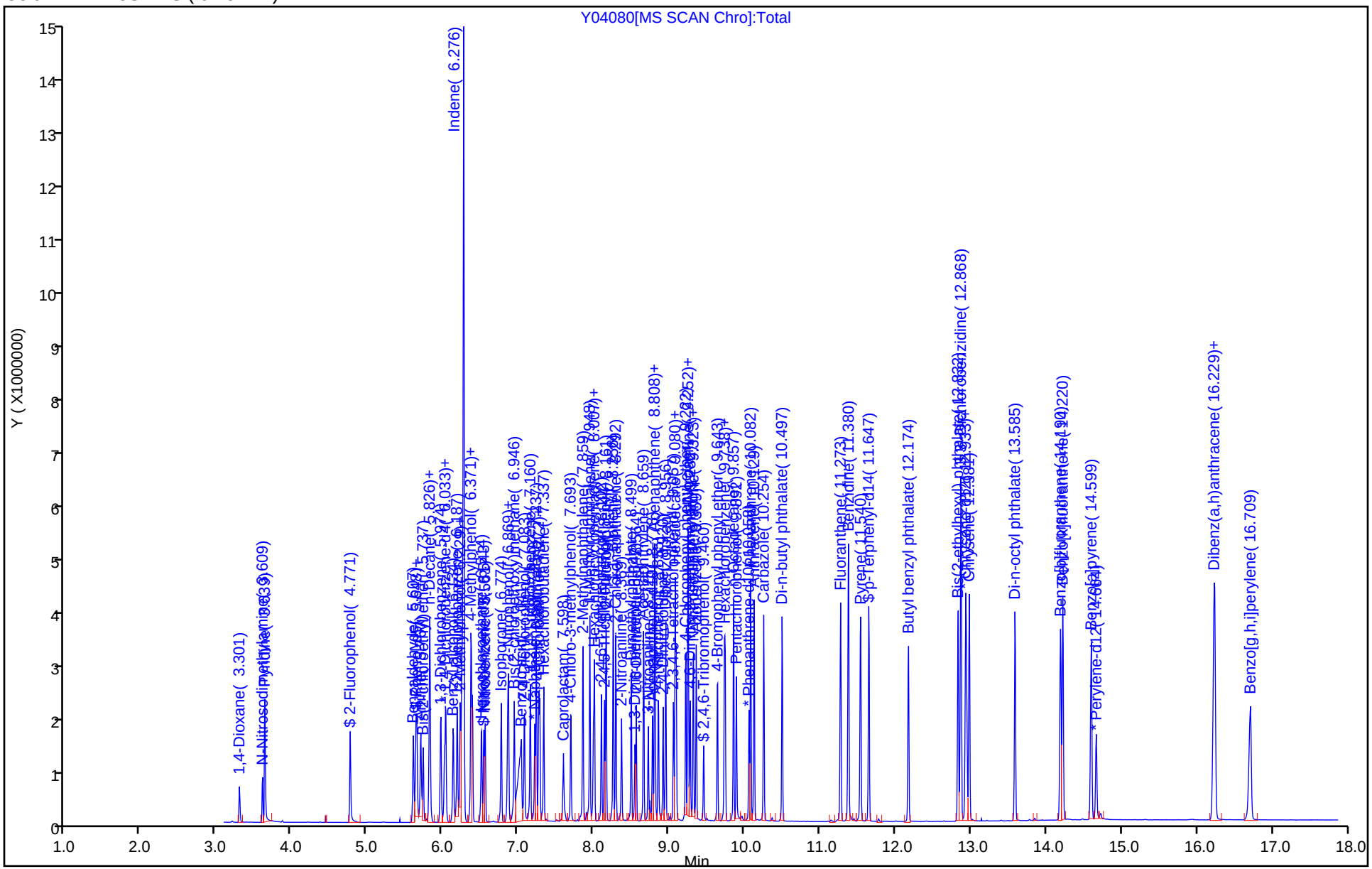
Report Date: 11-Oct-2024 11:32:12 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04080.D

Injection Date:	10-Oct-2024 17:05:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 8			Worklist Smp#:	8
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

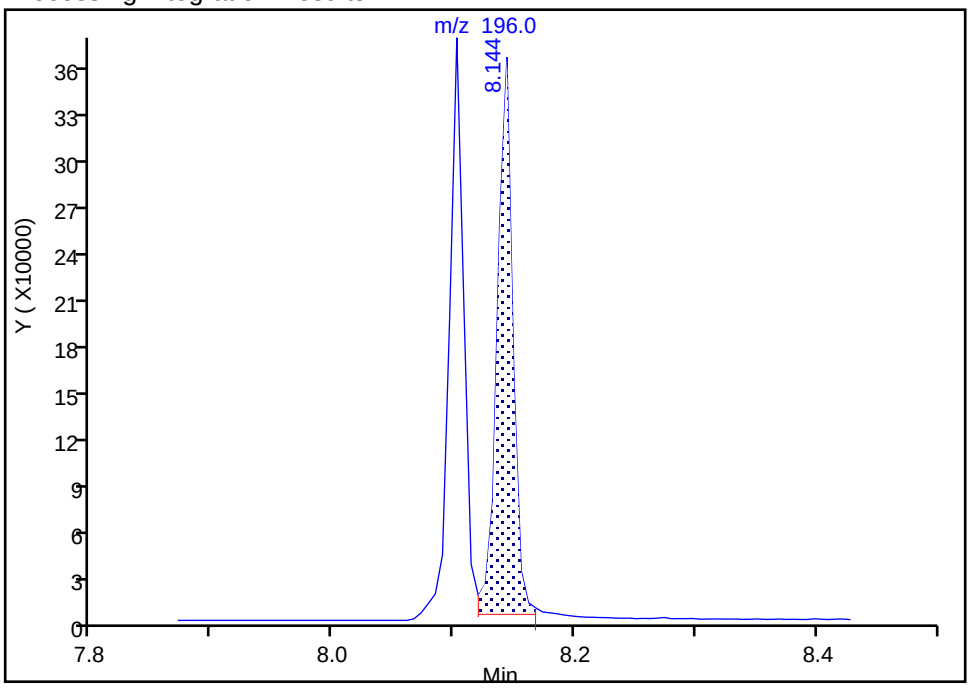
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04080.D
Injection Date: 10-Oct-2024 17:05:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 8
Client ID:
Operator ID: JM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

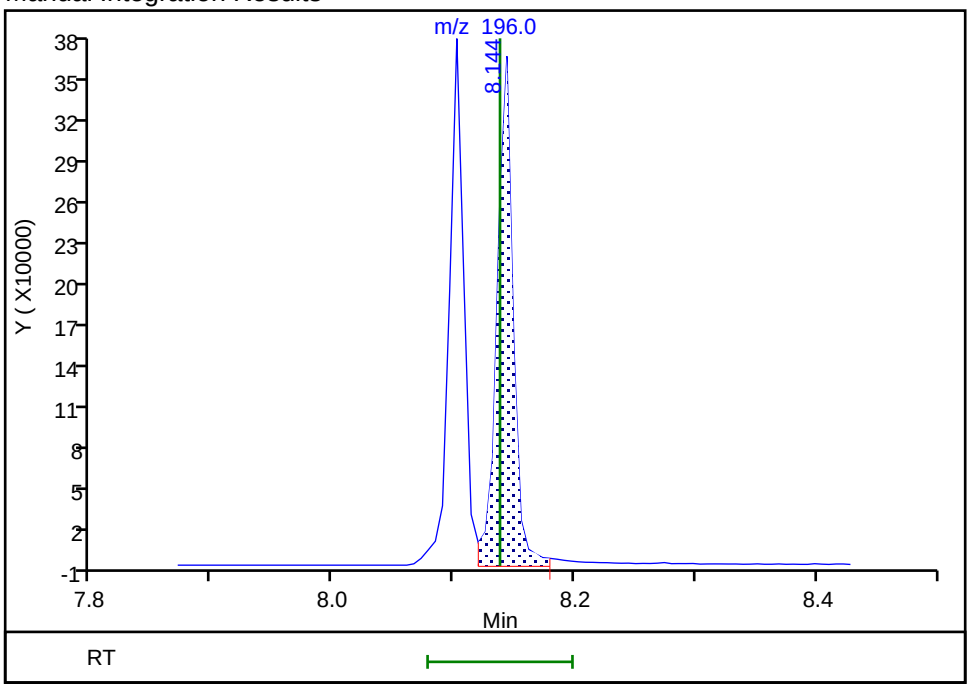
Processing Integration Results

RT: 8.14
Area: 324423
Amount: 8.355701
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 340046
Amount: 8.433232
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:31:37 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04081.D
Lims ID: IC - List 1 - 12
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 10-Oct-2024 17:32:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-009
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:32:28 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:54:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.023	6.022	0.001	94	200209	4.00	4.00	
* 2 Naphthalene-d8	136	7.220	7.219	0.001	99	738627	4.00	4.00	
* 3 Acenaphthene-d10	164	8.779	8.778	0.001	93	433234	4.00	4.00	
* 4 Phenanthrene-d10	188	10.059	10.058	0.001	97	730313	4.00	4.00	
* 5 Chrysene-d12	240	12.952	12.945	0.007	99	646275	4.00	4.00	
* 6 Perylene-d12	264	14.665	14.664	0.001	97	721419	4.00	4.00	
$ 7 2-Fluorophenol	112	4.772	4.771	0.001	93	745825	12.0	12.1	
$ 8 Phenol-d5	99	5.643	5.636	0.007	98	923025	12.0	12.1	
$ 9 Nitrobenzene-d5	82	6.544	6.537	0.007	89	826407	12.0	11.6	
$ 10 2-Fluorobiphenyl	172	8.168	8.162	0.006	99	1780666	12.0	12.0	
$ 11 2,4,6-Tribromophenol	330	9.461	9.454	0.007	94	234535	12.0	12.8	
$ 12 p-Terphenyl-d14	244	11.648	11.647	0.001	97	2151959	12.0	12.3	
13 1,4-Dioxane	88	3.302	3.307	-0.005	98	288589	12.0	11.7	
14 N-Nitrosodimethylamine	42	3.610	3.609	0.001	93	374033	12.0	11.9	
15 Pyridine	52	3.640	3.639	0.001	92	881201	24.0	24.8	
35 Benzaldehyde	77	5.608	5.607	0.001	96	539180	12.0	11.4	
37 Phenol	94	5.655	5.654	0.001	99	952917	12.0	12.3	
36 Aniline	93	5.708	5.702	0.006	95	1157628	12.0	12.2	
39 Bis(2-chloroethyl)ether	93	5.738	5.737	0.001	93	751606	12.0	11.9	
41 n-Decane	57	5.827	5.820	0.007	91	854400	12.0	11.5	
40 2-Chlorophenol	128	5.827	5.826	0.001	97	767543	12.0	11.9	
43 1,3-Dichlorobenzene	146	5.975	5.968	0.007	98	894753	12.0	11.7	
44 1,4-Dichlorobenzene	146	6.040	6.034	0.006	94	933023	12.0	11.9	
45 Benzyl alcohol	108	6.141	6.134	0.007	93	514426	12.0	12.3	
46 1,2-Dichlorobenzene	146	6.189	6.188	0.001	98	884432	12.0	12.0	
48 2-Methylphenol	108	6.230	6.229	0.001	92	709102	12.0	12.1	
49 2,2'-oxybis[1-chloropropane]	45	6.248	6.247	0.001	94	1146472	12.0	11.7	
47 Indene	115	6.278	6.271	0.007	89	7677773	72.0	68.8	
57 4-Methylphenol	108	6.372	6.366	0.006	95	759028	12.0	12.4	
53 N-Nitrosodi-n-propylamine	70	6.378	6.371	0.007	91	530861	12.0	12.0	
52 Acetophenone	105	6.396	6.389	0.007	96	1004965	12.0	11.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.509	6.508	0.001	98	362568	12.0	12.2	
59 Nitrobenzene	77	6.562	6.555	0.007	87	830391	12.0	12.1	
62 Isophorone	82	6.775	6.769	0.006	99	1438481	12.0	11.8	
64 2-Nitrophenol	139	6.858	6.858	0.000	95	419172	12.0	12.0	
66 2,4-Dimethylphenol	107	6.870	6.869	0.001	94	772241	12.0	12.0	
69 Bis(2-chloroethoxy)methane	93	6.947	6.946	0.001	98	872899	12.0	11.7	
70 Benzoic acid	105	7.072	6.994	0.078	94	2286859	72.0	70.2	
72 2,4-Dichlorophenol	162	7.084	7.077	0.007	93	664033	12.0	11.8	
73 1,2,4-Trichlorobenzene	180	7.161	7.160	0.001	93	748247	12.0	12.0	
74 Naphthalene	128	7.238	7.237	0.001	98	2297512	12.0	11.8	
76 4-Chloroaniline	127	7.273	7.267	0.006	96	876079	12.0	11.7	
77 2,6-Dichlorophenol	162	7.285	7.284	0.001	98	661450	12.0	12.1	
79 Hexachlorobutadiene	225	7.339	7.338	0.001	96	428760	12.0	11.8	
84 Caprolactam	113	7.611	7.581	0.030	78	233241	12.0	11.6	
85 4-Chloro-3-methylphenol	107	7.700	7.693	0.007	94	619791	12.0	11.6	
87 2-Methylnaphthalene	142	7.860	7.853	0.007	92	1418012	12.0	11.8	
89 1-Methylnaphthalene	142	7.949	7.948	0.001	93	1448641	12.0	11.8	
90 Hexachlorocyclopentadiene	237	7.997	7.996	0.001	95	347952	12.0	12.7	
91 1,2,4,5-Tetrachlorobenzene	216	8.008	8.008	0.000	97	771203	12.0	12.0	
93 2,4,6-Trichlorophenol	196	8.103	8.102	0.001	92	487345	12.0	12.2	
94 2,4,5-Trichlorophenol	196	8.145	8.138	0.007	96	507905	12.0	12.0	M
96 1,1'-Biphenyl	154	8.257	8.256	0.001	96	1881341	12.0	11.8	
97 2-Chloronaphthalene	162	8.293	8.292	0.001	96	1509925	12.0	11.9	
100 2-Nitroaniline	65	8.370	8.363	0.007	88	424380	12.0	11.8	
105 Dimethyl phthalate	163	8.500	8.494	0.006	99	1652345	12.0	12.0	
106 1,3-Dinitrobenzene	168	8.554	8.541	0.013	89	264071	12.0	12.3	
107 2,6-Dinitrotoluene	165	8.566	8.559	0.007	95	375772	12.0	11.7	
108 Acenaphthylene	152	8.660	8.660	0.000	98	2275315	12.0	11.9	
109 3-Nitroaniline	138	8.726	8.719	0.007	96	402145	12.0	12.1	
110 Acenaphthene	153	8.809	8.808	0.001	95	1517015	12.0	11.8	
111 2,4-Dinitrophenol	184	8.821	8.814	0.006	89	342942	24.0	24.1	
112 4-Nitrophenol	109	8.862	8.855	0.007	91	344509	24.0	24.6	
114 2,4-Dinitrotoluene	165	8.921	8.914	0.007	96	501498	12.0	12.1	
115 Dibenzofuran	168	8.957	8.950	0.007	97	2012503	12.0	11.6	
118 2,3,4,6-Tetrachlorophenol	232	9.058	9.057	0.001	72	378188	12.0	12.6	
121 Hexadecane	57	9.081	9.080	0.001	95	1009942	12.0	11.7	
120 Diethyl phthalate	149	9.099	9.092	0.007	99	1589042	12.0	11.7	
123 4-Chlorophenyl phenyl ether	204	9.224	9.217	0.007	90	793024	12.0	11.6	
124 Fluorene	166	9.253	9.246	0.007	93	1623432	12.0	11.1	
126 4-Nitroaniline	138	9.259	9.246	0.013	88	414193	12.0	11.8	
127 4,6-Dinitro-2-methylphenol	198	9.283	9.276	0.007	87	508159	24.0	23.4	
129 Diphenylamine	169	9.324	9.318	0.006	94	1227935	10.3	10.4	
130 N-Nitrosodiphenylamine	169	9.324	9.318	0.006	63	1227935	12.0	12.2	
131 1,2-Diphenylhydrazine	77	9.360	9.359	0.001	41	1570713	12.0	11.7	
132 Azobenzene	77	9.360	9.359	0.001	99	1570713	12.0	11.7	
139 4-Bromophenyl phenyl ether	248	9.644	9.638	0.006	64	498403	12.0	12.1	
140 Hexachlorobenzene	284	9.733	9.732	0.001	95	546809	12.0	12.3	
143 Atrazine	200	9.745	9.738	0.007	94	429829	12.0	12.2	
148 n-Octadecane	57	9.852	9.851	0.001	94	1034353	12.0	11.6	
145 Pentachlorophenol	266	9.893	9.893	0.000	94	523056	24.0	24.9	
151 Phenanthrene	178	10.083	10.076	0.007	98	2351609	12.0	11.6	
152 Anthracene	178	10.131	10.124	0.007	98	2400927	12.0	11.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.255	10.254	0.001	96	2134181	12.0	11.9	
157 Di-n-butyl phthalate	149	10.498	10.497	0.001	100	2761074	12.0	12.0	
164 Fluoranthene	202	11.275	11.268	0.007	98	2612265	12.0	12.2	
166 Benzidine	184	11.381	11.374	0.007	99	3412982	24.0	25.2	
167 Pyrene	202	11.541	11.535	0.007	96	2606366	12.0	12.0	
174 Butyl benzyl phthalate	149	12.176	12.169	0.007	96	1276414	12.0	12.4	
181 Bis(2-ethylhexyl) phthalate	149	12.834	12.833	0.001	96	1782979	12.0	12.1	
179 3,3'-Dichlorobenzidine	252	12.875	12.862	0.013	73	2567015	24.0	24.6	
180 Benzo[a]anthracene	228	12.940	12.928	0.012	99	2667730	12.0	12.1	
182 Chrysene	228	12.982	12.975	0.007	97	2456054	12.0	12.1	
184 Di-n-octyl phthalate	149	13.586	13.586	0.000	99	3003021	12.0	12.1	
186 Benzo[b]fluoranthene	252	14.197	14.184	0.013	98	2717115	12.0	11.8	
187 Benzo[k]fluoranthene	252	14.227	14.214	0.013	99	2809276	12.0	12.1	
189 Benzo[a]pyrene	252	14.600	14.593	0.007	78	2502727	12.0	12.2	
194 Dibenz(a,h)anthracene	278	16.242	16.217	0.025	91	2471417	12.0	12.1	
193 Indeno[1,2,3-cd]pyrene	276	16.248	16.223	0.025	97	3071505	12.0	12.2	
195 Benzo[g,h,i]perylene	276	16.716	16.698	0.018	97	2345761	12.0	11.8	
S 261 Total Cresols	1				0			24.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00648 Amount Added: 1.00 Units: mL

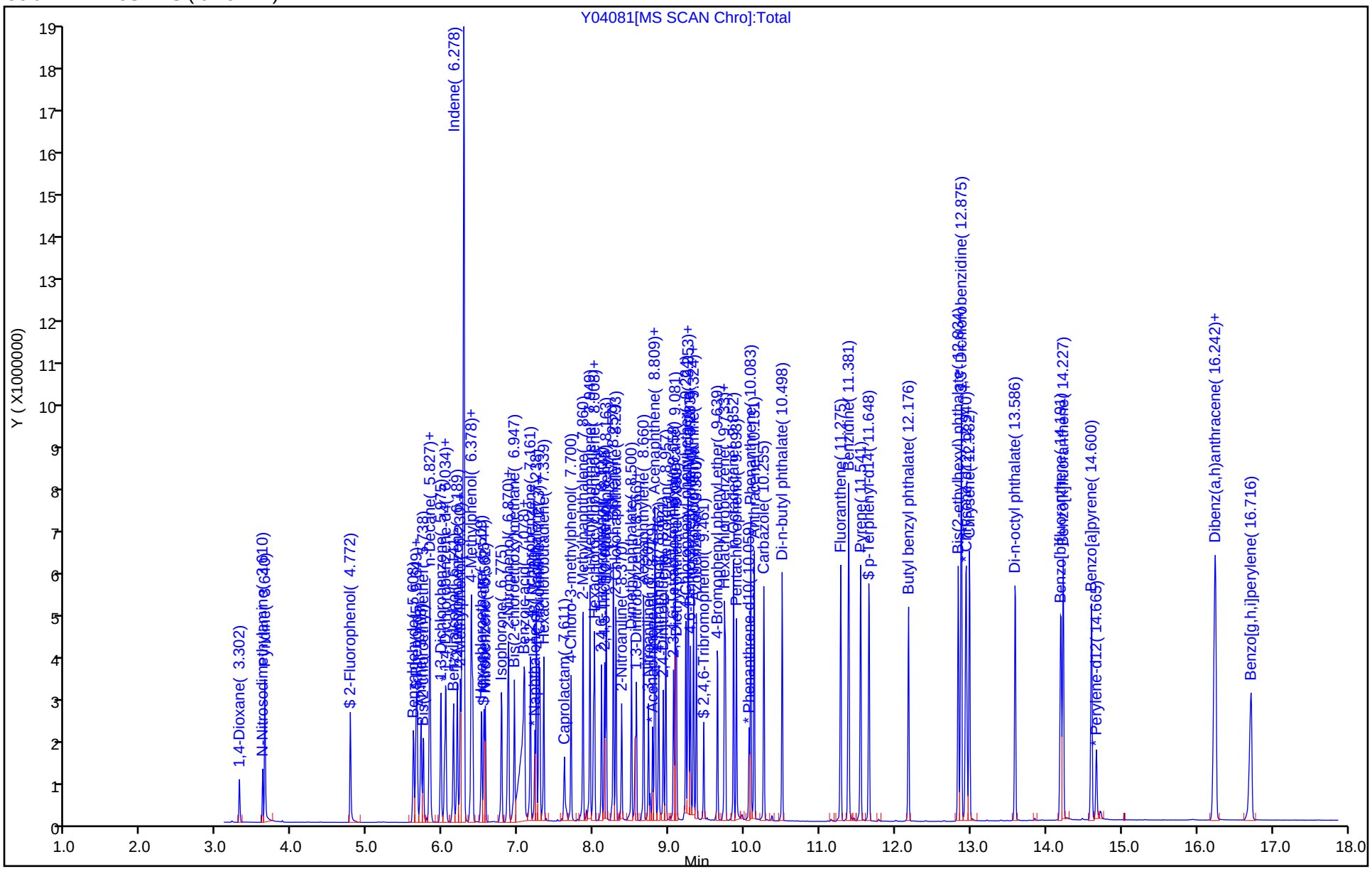
Report Date: 11-Oct-2024 11:32:30 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04081.D

Injection Date:	10-Oct-2024 17:32:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 12			Worklist Smp#:	9
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo

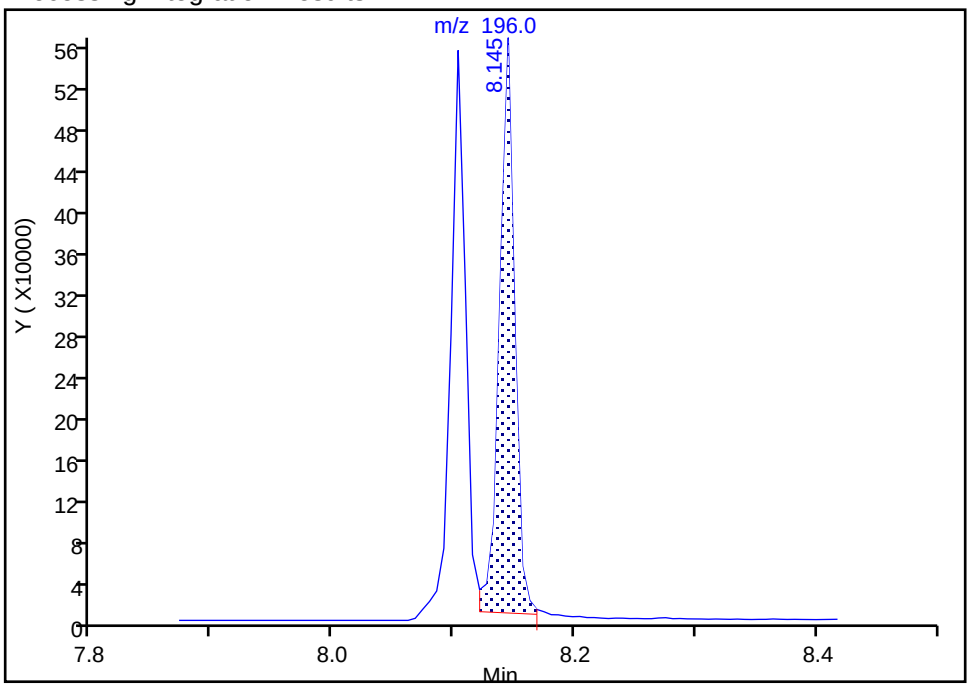
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04081.D
Injection Date: 10-Oct-2024 17:32:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 12
Client ID:
Operator ID: JM ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

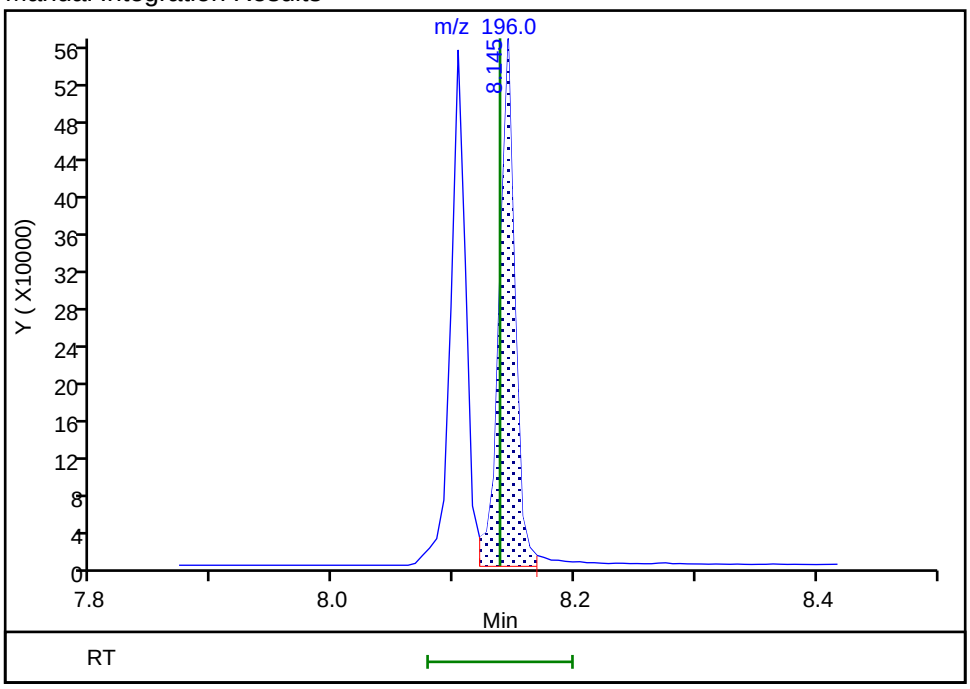
Processing Integration Results

RT: 8.14
Area: 487864
Amount: 11.868147
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 507905
Amount: 12.016182
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:32:44 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04082.D
Lims ID: IC - List 1 - 16
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 10-Oct-2024 18:00:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-010
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:32:46 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:54:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.021	6.022	-0.001	94	204789	4.00	4.00	
* 2 Naphthalene-d8	136	7.219	7.219	0.000	99	735514	4.00	4.00	
* 3 Acenaphthene-d10	164	8.784	8.778	0.006	93	438004	4.00	4.00	
* 4 Phenanthrene-d10	188	10.064	10.058	0.006	97	738805	4.00	4.00	
* 5 Chrysene-d12	240	12.951	12.945	0.006	99	685110	4.00	4.00	
* 6 Perylene-d12	264	14.670	14.664	0.006	97	756124	4.00	4.00	
$ 7 2-Fluorophenol	112	4.771	4.771	0.000	92	1027546	16.0	16.3	
$ 8 Phenol-d5	99	5.648	5.636	0.012	96	1243307	16.0	15.9	
$ 9 Nitrobenzene-d5	82	6.549	6.537	0.012	89	1108589	16.0	15.6	
$ 10 2-Fluorobiphenyl	172	8.167	8.162	0.005	99	2328409	16.0	15.5	
$ 11 2,4,6-Tribromophenol	330	9.465	9.454	0.011	94	307553	16.0	16.5	
$ 12 p-Terphenyl-d14	244	11.653	11.647	0.006	97	2886973	16.0	15.5	
13 1,4-Dioxane	88	3.301	3.307	-0.006	98	388563	16.0	15.3	
14 N-Nitrosodimethylamine	42	3.615	3.609	0.006	93	488368	16.0	15.2	
15 Pyridine	52	3.638	3.639	-0.001	92	1206662	32.0	33.2	
35 Benzaldehyde	77	5.612	5.607	0.005	96	668047	16.0	13.8	
37 Phenol	94	5.660	5.654	0.006	99	1253502	16.0	15.8	
36 Aniline	93	5.713	5.702	0.011	96	1582175	16.0	16.4	
39 Bis(2-chloroethyl)ether	93	5.743	5.737	0.006	95	953587	16.0	14.8	
41 n-Decane	57	5.826	5.820	0.006	92	1129545	16.0	14.8	
40 2-Chlorophenol	128	5.832	5.826	0.006	97	1049409	16.0	15.9	
43 1,3-Dichlorobenzene	146	5.974	5.968	0.006	99	1201589	16.0	15.4	
44 1,4-Dichlorobenzene	146	6.039	6.034	0.005	95	1246313	16.0	15.6	
45 Benzyl alcohol	108	6.146	6.134	0.012	93	685189	16.0	16.0	
46 1,2-Dichlorobenzene	146	6.193	6.188	0.005	98	1175134	16.0	15.6	
48 2-Methylphenol	108	6.235	6.229	0.006	92	940390	16.0	15.6	
49 2,2'-oxybis[1-chloropropane]	45	6.253	6.247	0.006	94	1513324	16.0	15.2	
47 Indene	115	6.282	6.271	0.011	89	9516331	96.0	83.4	
57 4-Methylphenol	108	6.377	6.366	0.011	96	985877	16.0	15.8	
53 N-Nitrosodi-n-propylamine	70	6.383	6.371	0.012	92	705482	16.0	15.6	
52 Acetophenone	105	6.395	6.389	0.006	96	1384078	16.0	15.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.513	6.508	0.005	94	476051	16.0	15.6	
59 Nitrobenzene	77	6.567	6.555	0.012	87	1093846	16.0	16.0	
62 Isophorone	82	6.780	6.769	0.011	99	1928267	16.0	15.9	
64 2-Nitrophenol	139	6.863	6.858	0.005	93	564513	16.0	16.2	
66 2,4-Dimethylphenol	107	6.875	6.869	0.006	95	1032776	16.0	16.1	
69 Bis(2-chloroethoxy)methane	93	6.952	6.946	0.006	99	1167515	16.0	15.8	
70 Benzoic acid	105	7.094	6.994	0.100	89	3413031	96.0	102.1	M
72 2,4-Dichlorophenol	162	7.082	7.077	0.005	93	895773	16.0	16.0	
73 1,2,4-Trichlorobenzene	180	7.160	7.160	0.000	94	999125	16.0	16.0	
74 Naphthalene	128	7.242	7.237	0.005	98	3020076	16.0	15.5	
76 4-Chloroaniline	127	7.272	7.267	0.005	97	1194831	16.0	16.1	
77 2,6-Dichlorophenol	162	7.290	7.284	0.006	98	891154	16.0	16.3	
79 Hexachlorobutadiene	225	7.337	7.338	-0.001	96	586725	16.0	16.2	
84 Caprolactam	113	7.622	7.581	0.041	79	331924	16.0	16.5	
85 4-Chloro-3-methylphenol	107	7.705	7.693	0.012	95	842075	16.0	15.8	
87 2-Methylnaphthalene	142	7.859	7.853	0.006	93	1868985	16.0	15.6	
89 1-Methylnaphthalene	142	7.948	7.948	0.000	93	1935880	16.0	15.9	
90 Hexachlorocyclopentadiene	237	8.001	7.996	0.005	95	474237	16.0	17.0	
91 1,2,4,5-Tetrachlorobenzene	216	8.013	8.008	0.005	97	1024995	16.0	15.8	
93 2,4,6-Trichlorophenol	196	8.108	8.102	0.006	92	656205	16.0	16.2	
94 2,4,5-Trichlorophenol	196	8.144	8.138	0.005	96	719151	16.0	16.8	M
96 1,1'-Biphenyl	154	8.262	8.256	0.006	96	2481826	16.0	15.4	
97 2-Chloronaphthalene	162	8.298	8.292	0.006	96	1993918	16.0	15.5	
100 2-Nitroaniline	65	8.375	8.363	0.012	86	581740	16.0	16.0	
105 Dimethyl phthalate	163	8.505	8.494	0.011	99	2205033	16.0	15.9	
106 1,3-Dinitrobenzene	168	8.553	8.541	0.012	87	363298	16.0	16.9	
107 2,6-Dinitrotoluene	165	8.570	8.559	0.011	95	502500	16.0	15.4	
108 Acenaphthylene	152	8.665	8.660	0.005	98	3036756	16.0	15.7	
109 3-Nitroaniline	138	8.730	8.719	0.011	96	537274	16.0	16.0	
110 Acenaphthene	153	8.813	8.808	0.005	94	2070750	16.0	15.9	
111 2,4-Dinitrophenol	184	8.819	8.814	0.005	84	494994	32.0	33.6	
112 4-Nitrophenol	109	8.867	8.855	0.012	89	476464	32.0	33.5	
114 2,4-Dinitrotoluene	165	8.926	8.914	0.012	96	681937	16.0	16.2	
115 Dibenzofuran	168	8.962	8.950	0.012	97	2737154	16.0	15.6	
118 2,3,4,6-Tetrachlorophenol	232	9.062	9.057	0.005	75	500871	16.0	16.5	
121 Hexadecane	57	9.080	9.080	0.000	94	1274228	16.0	14.6	
120 Diethyl phthalate	149	9.098	9.092	0.006	98	2150344	16.0	15.6	
123 4-Chlorophenyl phenyl ether	204	9.222	9.217	0.005	92	1067901	16.0	15.4	
124 Fluorene	166	9.252	9.246	0.006	94	2306864	16.0	15.6	
126 4-Nitroaniline	138	9.270	9.246	0.024	87	565231	16.0	15.9	
127 4,6-Dinitro-2-methylphenol	198	9.288	9.276	0.012	88	747273	32.0	33.6	
129 Diphenylamine	169	9.323	9.318	0.005	94	1649635	13.7	13.8	
130 N-Nitrosodiphenylamine	169	9.323	9.318	0.005	62	1649635	16.0	16.1	
131 1,2-Diphenylhydrazine	77	9.365	9.359	0.006	44	2065244	16.0	15.2	
132 Azobenzene	77	9.365	9.359	0.006	98	2065244	16.0	15.2	
139 4-Bromophenyl phenyl ether	248	9.643	9.638	0.005	65	668810	16.0	16.0	
140 Hexachlorobenzene	284	9.738	9.732	0.006	95	702964	16.0	15.7	
143 Atrazine	200	9.750	9.738	0.012	94	511017	16.0	14.3	
148 n-Octadecane	57	9.857	9.851	0.006	94	1364719	16.0	15.1	
145 Pentachlorophenol	266	9.898	9.893	0.005	94	706536	32.0	32.8	
151 Phenanthrene	178	10.082	10.076	0.006	98	3192350	16.0	15.6	
152 Anthracene	178	10.129	10.124	0.005	98	3260039	16.0	16.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.260	10.254	0.006	96	2844523	16.0	15.7	
157 Di-n-butyl phthalate	149	10.503	10.497	0.006	100	3616808	16.0	15.5	
164 Fluoranthene	202	11.279	11.268	0.011	99	3379959	16.0	15.6	
166 Benzidine	184	11.386	11.374	0.012	99	4372822	32.0	30.5	
167 Pyrene	202	11.540	11.535	0.006	96	3507640	16.0	15.3	
174 Butyl benzyl phthalate	149	12.174	12.169	0.005	97	1680744	16.0	15.4	
181 Bis(2-ethylhexyl) phthalate	149	12.838	12.833	0.005	97	2333006	16.0	14.9	
179 3,3'-Dichlorobenzidine	252	12.880	12.862	0.018	73	3403584	32.0	30.8	
180 Benzo[a]anthracene	228	12.939	12.928	0.011	99	3586318	16.0	15.3	
182 Chrysene	228	12.986	12.975	0.011	97	3252458	16.0	15.2	
184 Di-n-octyl phthalate	149	13.591	13.586	0.005	99	4012444	16.0	15.2	
186 Benzo[b]fluoranthene	252	14.196	14.184	0.012	98	3860199	16.0	16.0	
187 Benzo[k]fluoranthene	252	14.231	14.214	0.017	98	3624460	16.0	15.0	
189 Benzo[a]pyrene	252	14.605	14.593	0.012	79	3343506	16.0	15.5	
194 Dibenz(a,h)anthracene	278	16.247	16.217	0.030	91	3303319	16.0	15.4	
193 Indeno[1,2,3-cd]pyrene	276	16.259	16.223	0.036	98	4026912	16.0	15.2	
195 Benzo[g,h,i]perylene	276	16.727	16.698	0.029	96	3135261	16.0	15.1	
S 261 Total Cresols	1				0			31.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00649 Amount Added: 1.00 Units: mL

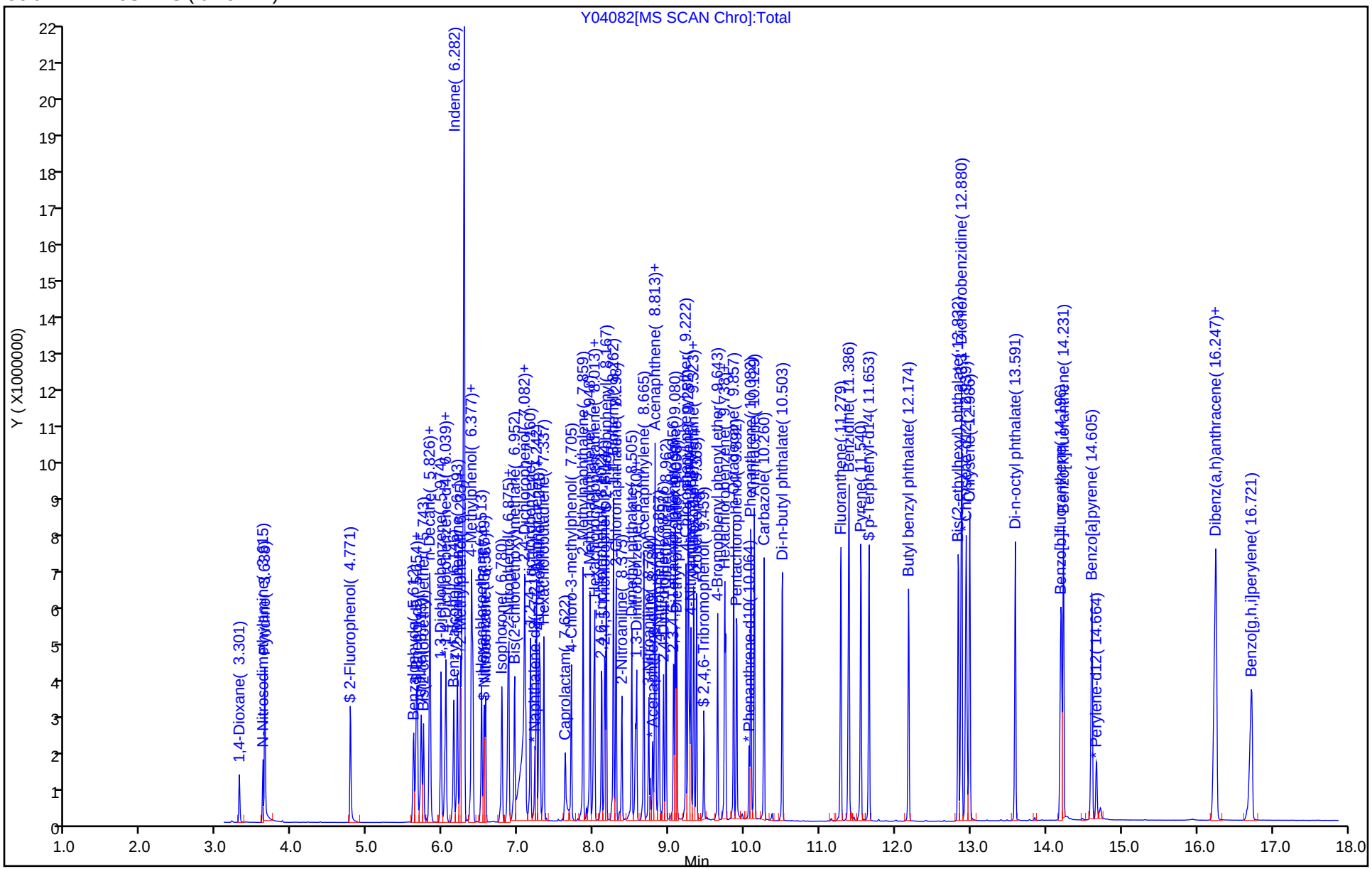
Report Date: 11-Oct-2024 11:32:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04082.D

Injection Date:	10-Oct-2024 18:00:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 16			Worklist Smp#:	10
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

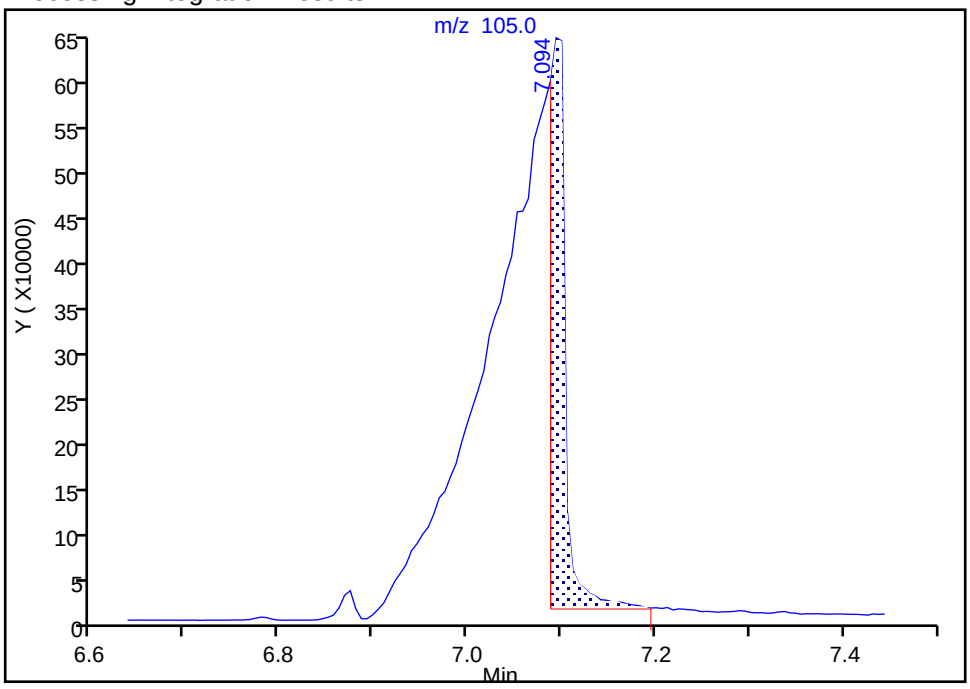
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04082.D
Injection Date: 10-Oct-2024 18:00:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16
Client ID:
Operator ID: JM ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

70 Benzoic acid, CAS: 65-85-0

Signal: 1

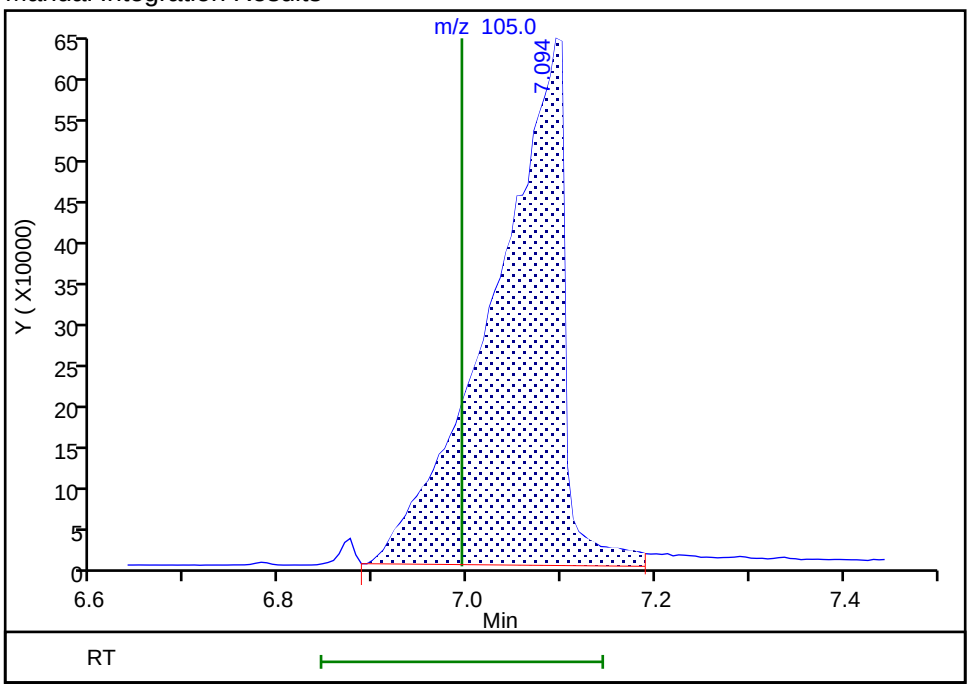
Processing Integration Results

RT: 7.09
Area: 749262
Amount: 37.740466
Amount Units: ng/uL



Manual Integration Results

RT: 7.09
Area: 3413031
Amount: 102.0651
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:33:36 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Buffalo

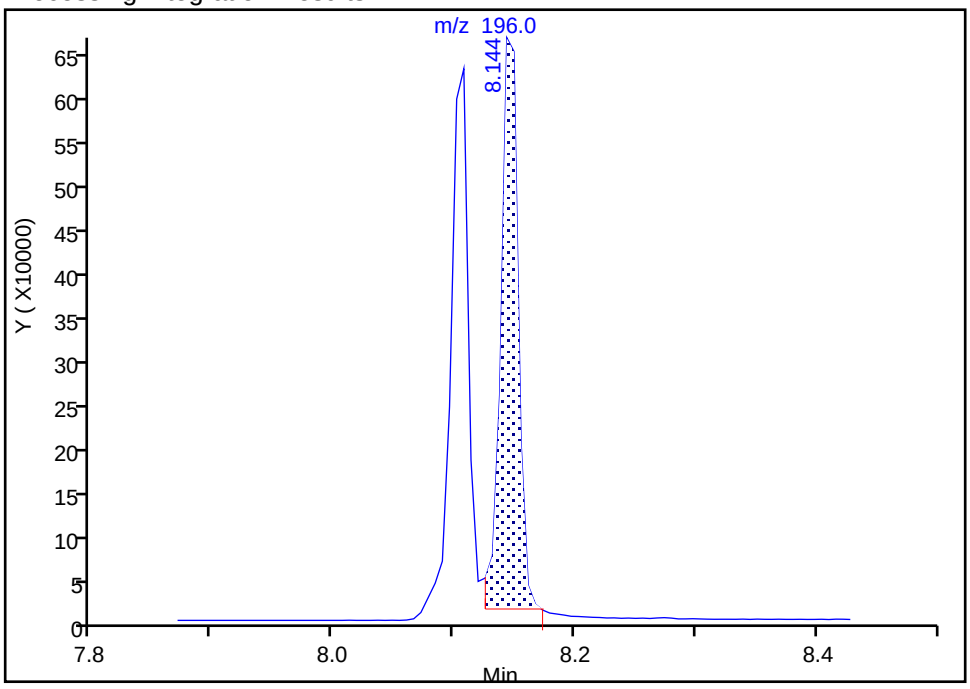
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04082.D
Injection Date: 10-Oct-2024 18:00:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16
Client ID:
Operator ID: JM ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

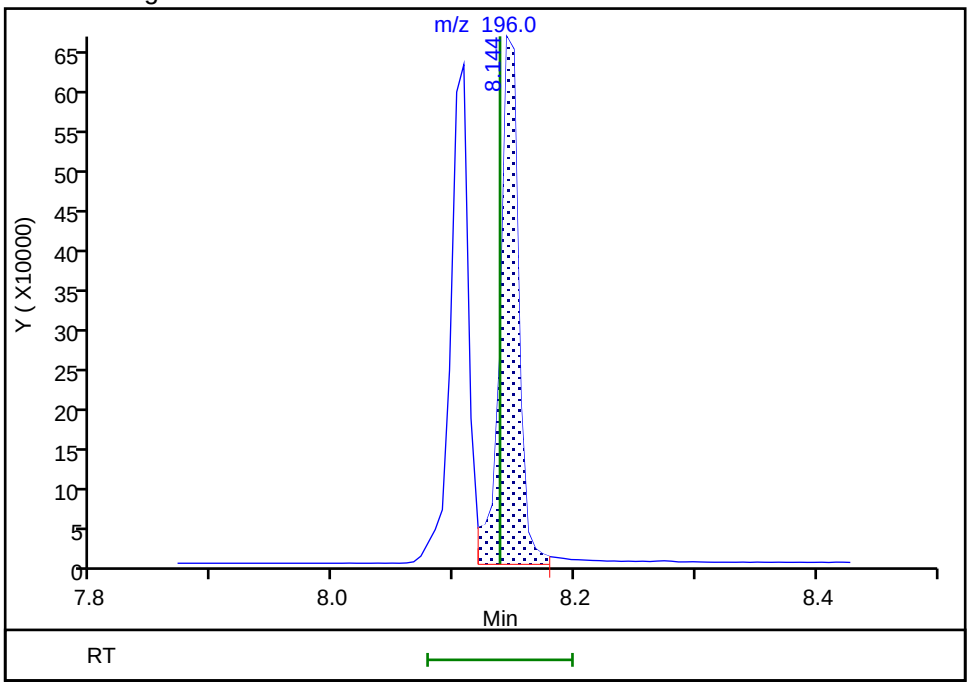
Processing Integration Results

RT: 8.14
Area: 662973
Amount: 15.765654
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 719151
Amount: 16.771223
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:33:52 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

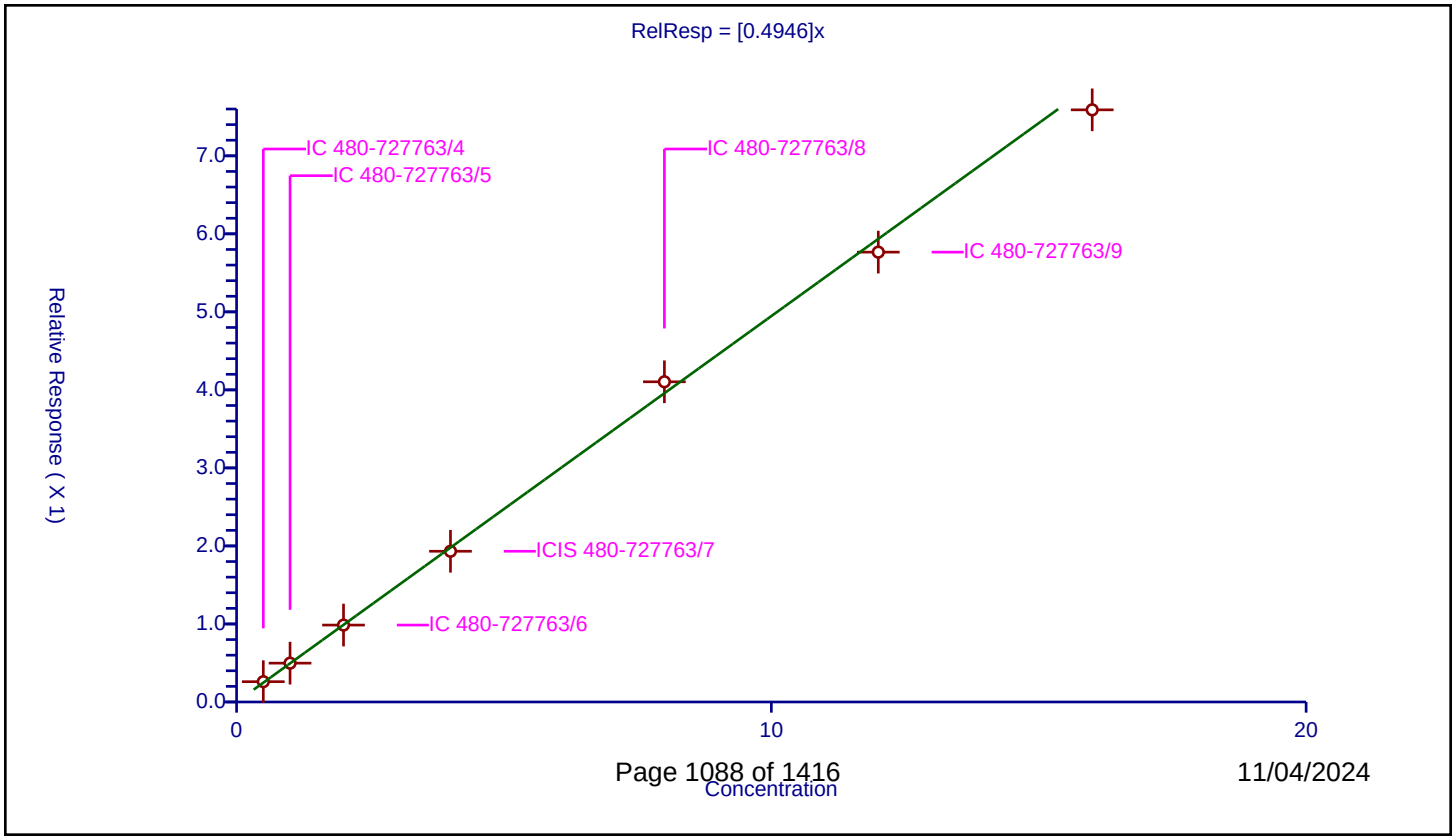
Curve Coefficients

Intercept:	0
Slope:	0.4946

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.260358	4.0	198081.0	0.520716	Y
2	IC 480-727763/5	1.0	0.497766	4.0	205880.0	0.497766	Y
3	IC 480-727763/6	2.0	0.985891	4.0	204331.0	0.492945	Y
4	ICIS 480-727763/7	4.0	1.931817	4.0	213896.0	0.482954	Y
5	IC 480-727763/8	8.0	4.103992	4.0	196285.0	0.512999	Y
6	IC 480-727763/9	12.0	5.765755	4.0	200209.0	0.48048	Y
7	IC 480-727763/10	16.0	7.589529	4.0	204789.0	0.474346	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

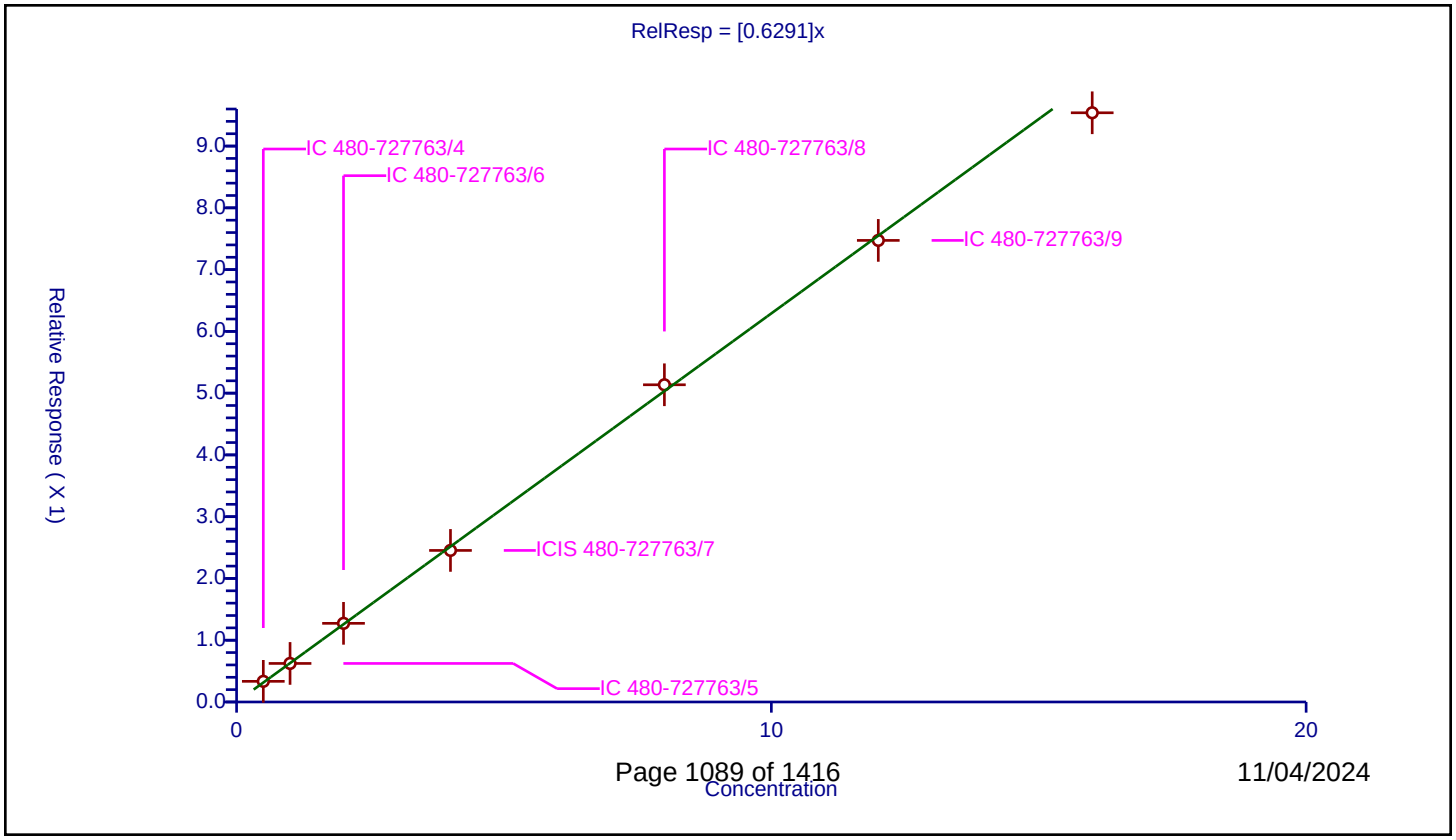
Curve Coefficients

Intercept:	0
Slope:	0.6291

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.334187	4.0	198081.0	0.668373	Y
2	IC 480-727763/5	1.0	0.624267	4.0	205880.0	0.624267	Y
3	IC 480-727763/6	2.0	1.273541	4.0	204331.0	0.636771	Y
4	ICIS 480-727763/7	4.0	2.453753	4.0	213896.0	0.613438	Y
5	IC 480-727763/8	8.0	5.13539	4.0	196285.0	0.641924	Y
6	IC 480-727763/9	12.0	7.472851	4.0	200209.0	0.622738	Y
7	IC 480-727763/10	16.0	9.53895	4.0	204789.0	0.596184	Y



Calibration / Pyridine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

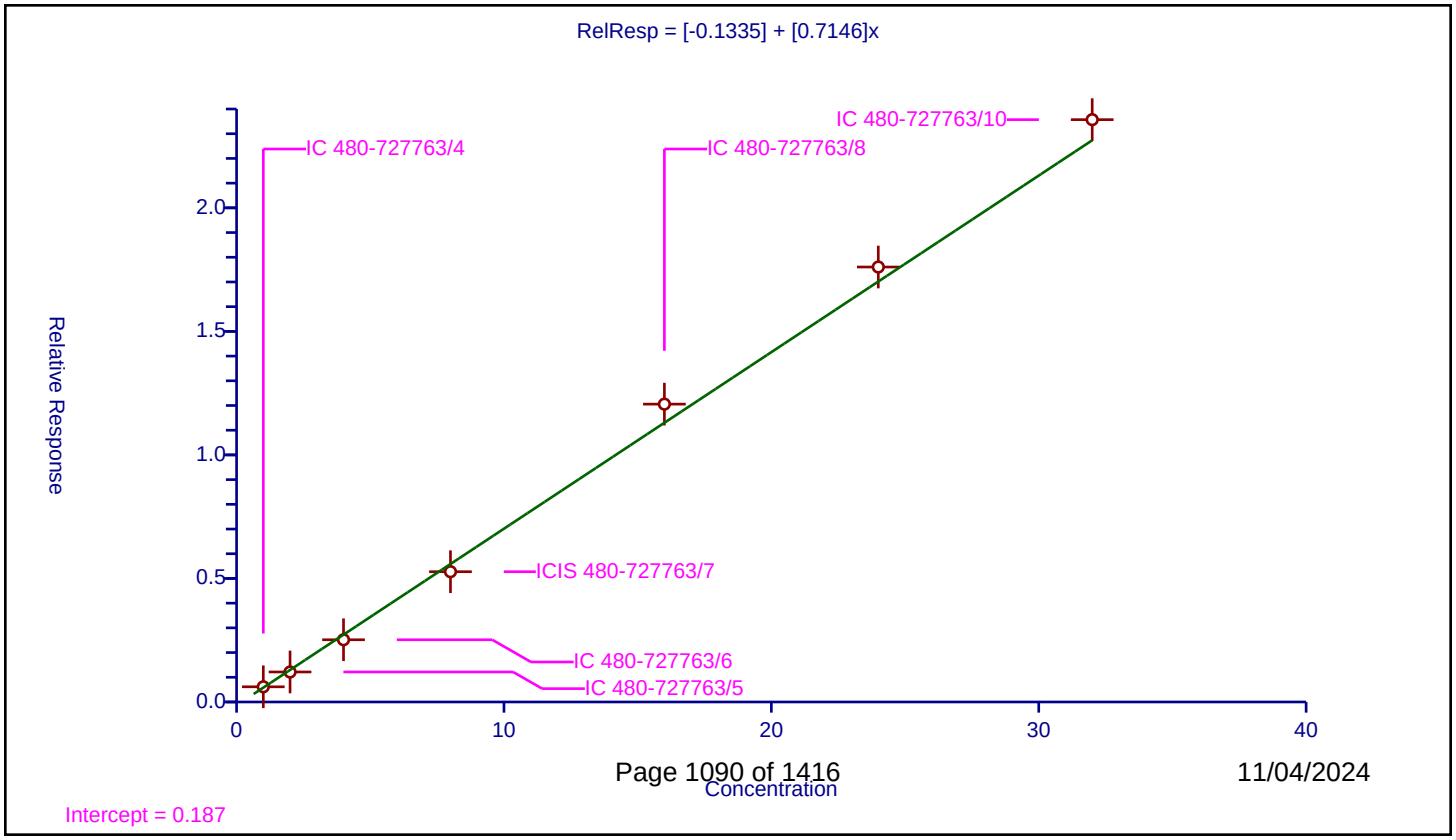
Curve Coefficients

Intercept:	-0.1335
Slope:	0.7146

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.614415	4.0	198081.0	0.614415	Y
2	IC 480-727763/5	2.0	1.2143	4.0	205880.0	0.60715	Y
3	IC 480-727763/6	4.0	2.518561	4.0	204331.0	0.62964	Y
4	ICIS 480-727763/7	8.0	5.272992	4.0	213896.0	0.659124	Y
5	IC 480-727763/8	16.0	12.05545	4.0	196285.0	0.753466	Y
6	IC 480-727763/9	24.0	17.605622	4.0	200209.0	0.733568	Y
7	IC 480-727763/10	32.0	23.568883	4.0	204789.0	0.736528	Y



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Calibration / 2-Fluorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

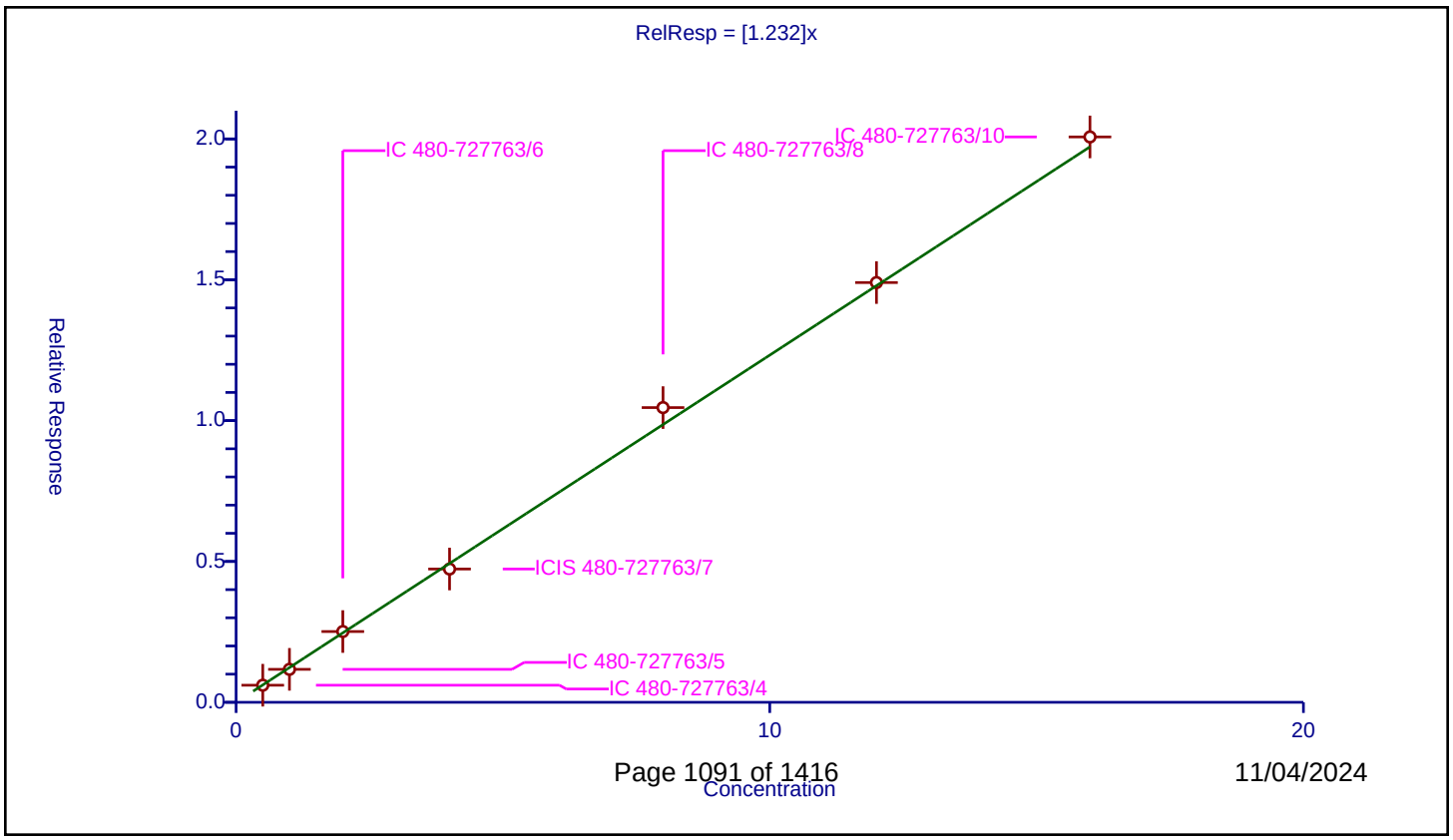
Curve Coefficients

Intercept:	0
Slope:	1.232

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.606984	4.0	198081.0	1.213968	Y
2	IC 480-727763/5	1.0	1.170352	4.0	205880.0	1.170352	Y
3	IC 480-727763/6	2.0	2.512159	4.0	204331.0	1.25608	Y
4	ICIS 480-727763/7	4.0	4.731608	4.0	213896.0	1.182902	Y
5	IC 480-727763/8	8.0	10.462318	4.0	196285.0	1.30779	Y
6	IC 480-727763/9	12.0	14.900929	4.0	200209.0	1.241744	Y
7	IC 480-727763/10	16.0	20.070336	4.0	204789.0	1.254396	Y



Calibration / Benzaldehyde

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

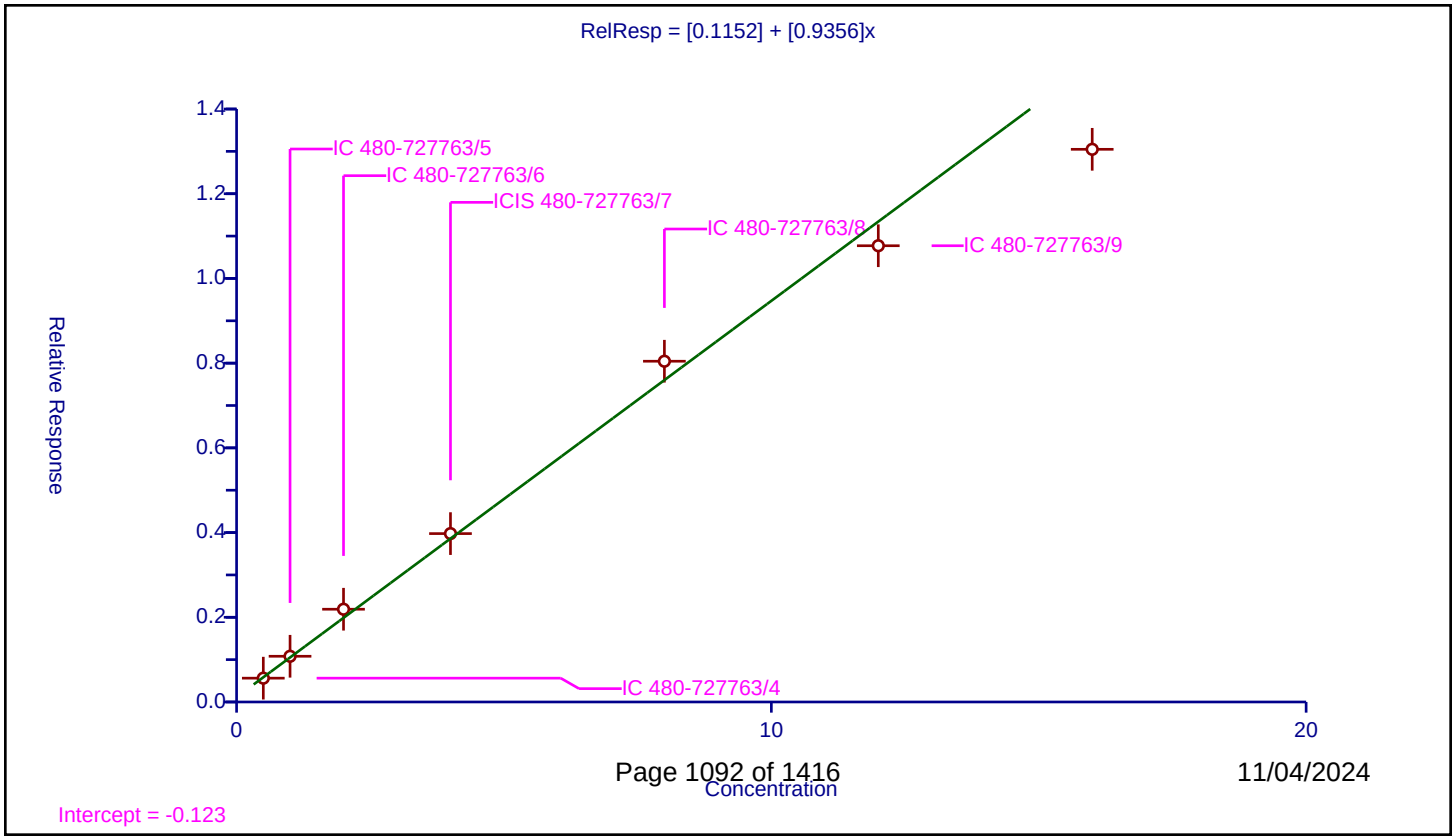
Curve Coefficients

Intercept:	0.1152
Slope:	0.9356

Error Coefficients

Relative Standard Deviation:	9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.562517	4.0	198081.0	1.125035	Y
2	IC 480-727763/5	1.0	1.079503	4.0	205880.0	1.079503	Y
3	IC 480-727763/6	2.0	2.189819	4.0	204331.0	1.09491	Y
4	ICIS 480-727763/7	4.0	3.975633	4.0	213896.0	0.993908	Y
5	IC 480-727763/8	8.0	8.045546	4.0	196285.0	1.005693	Y
6	IC 480-727763/9	12.0	10.772343	4.0	200209.0	0.897695	Y
7	IC 480-727763/10	16.0	13.048494	4.0	204789.0	0.815531	Y



Calibration / Phenol-d5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

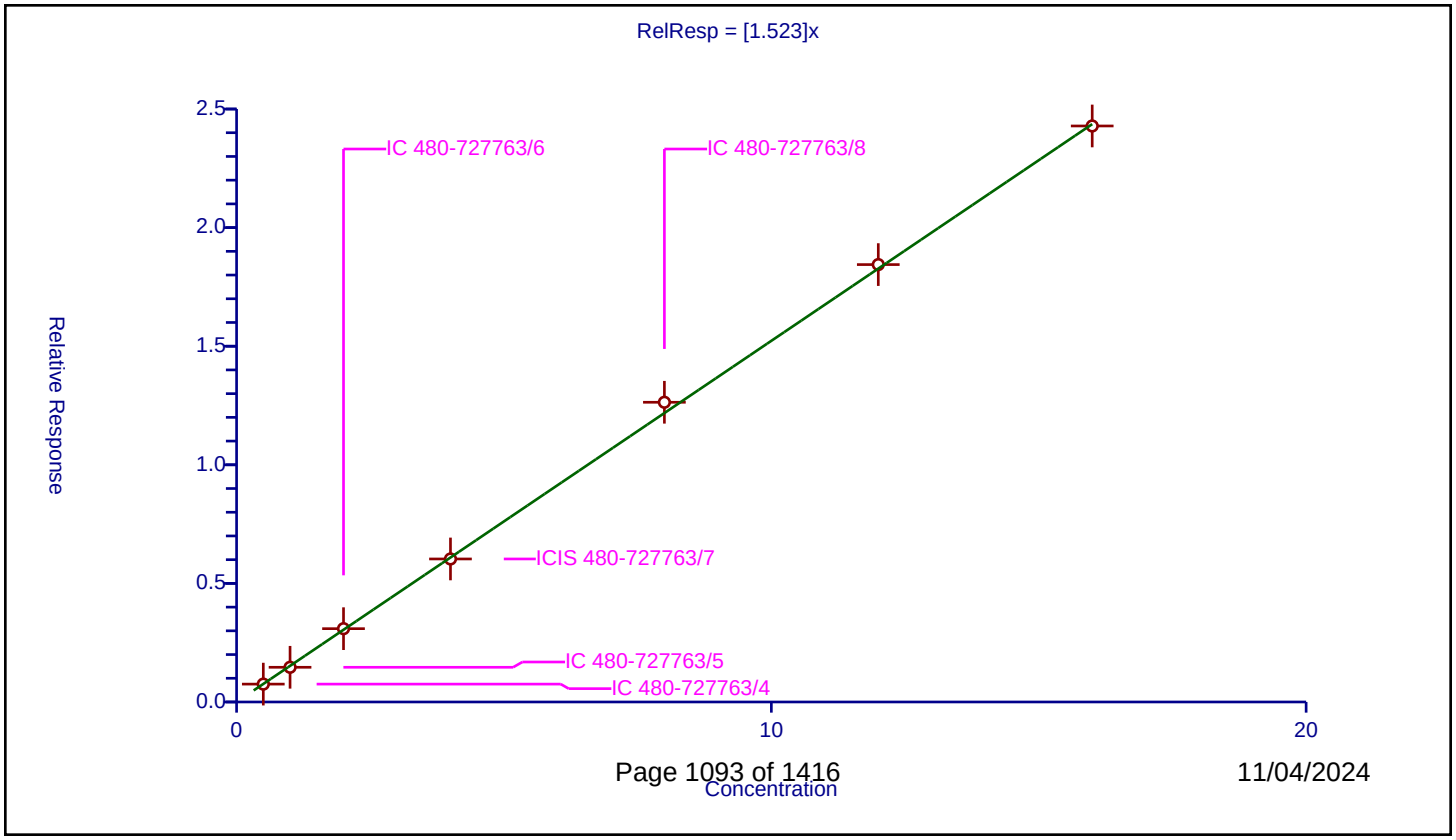
Curve Coefficients

Intercept:	0
Slope:	1.523

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.754277	4.0	198081.0	1.508555	Y
2	IC 480-727763/5	1.0	1.462872	4.0	205880.0	1.462872	Y
3	IC 480-727763/6	2.0	3.091239	4.0	204331.0	1.54562	Y
4	ICIS 480-727763/7	4.0	6.029902	4.0	213896.0	1.507476	Y
5	IC 480-727763/8	8.0	12.636279	4.0	196285.0	1.579535	Y
6	IC 480-727763/9	12.0	18.441229	4.0	200209.0	1.536769	Y
7	IC 480-727763/10	16.0	24.284644	4.0	204789.0	1.51779	Y



Calibration / Phenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

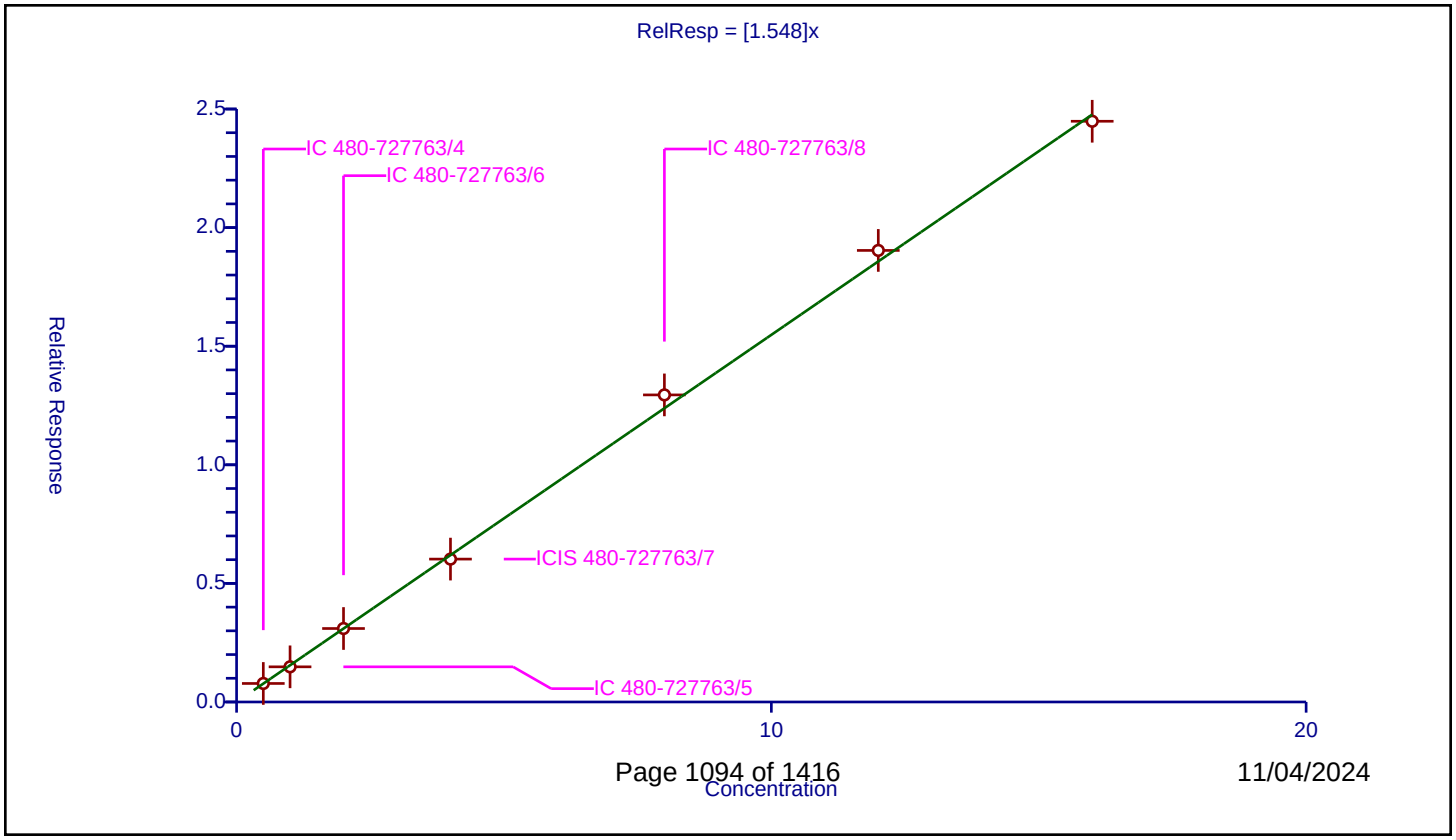
Curve Coefficients

Intercept:	0
Slope:	1.548

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.781276	4.0	198081.0	1.562553	Y
2	IC 480-727763/5	1.0	1.482611	4.0	205880.0	1.482611	Y
3	IC 480-727763/6	2.0	3.098091	4.0	204331.0	1.549045	Y
4	ICIS 480-727763/7	4.0	6.024498	4.0	213896.0	1.506124	Y
5	IC 480-727763/8	8.0	12.946196	4.0	196285.0	1.618274	Y
6	IC 480-727763/9	12.0	19.038445	4.0	200209.0	1.586537	Y
7	IC 480-727763/10	16.0	24.483776	4.0	204789.0	1.530236	Y



11/04/2024

Calibration / Aniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

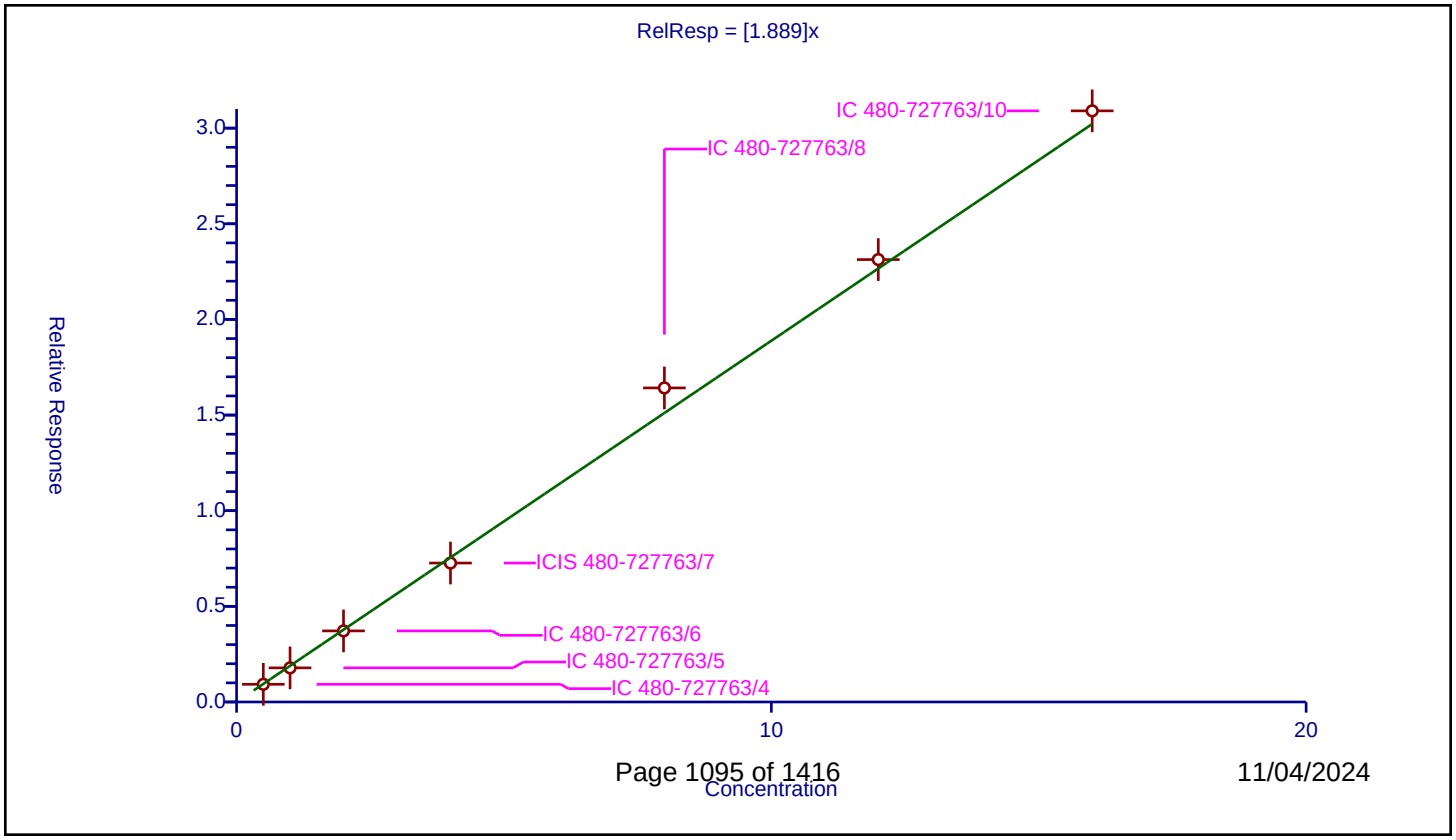
Curve Coefficients

Intercept:	0
Slope:	1.889

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.925298	4.0	198081.0	1.850596	Y
2	IC 480-727763/5	1.0	1.78434	4.0	205880.0	1.78434	Y
3	IC 480-727763/6	2.0	3.715853	4.0	204331.0	1.857927	Y
4	ICIS 480-727763/7	4.0	7.263623	4.0	213896.0	1.815906	Y
5	IC 480-727763/8	8.0	16.419146	4.0	196285.0	2.052393	Y
6	IC 480-727763/9	12.0	23.128391	4.0	200209.0	1.927366	Y
7	IC 480-727763/10	16.0	30.903515	4.0	204789.0	1.93147	Y



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Calibration / Bis(2-chloroethyl)ether

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

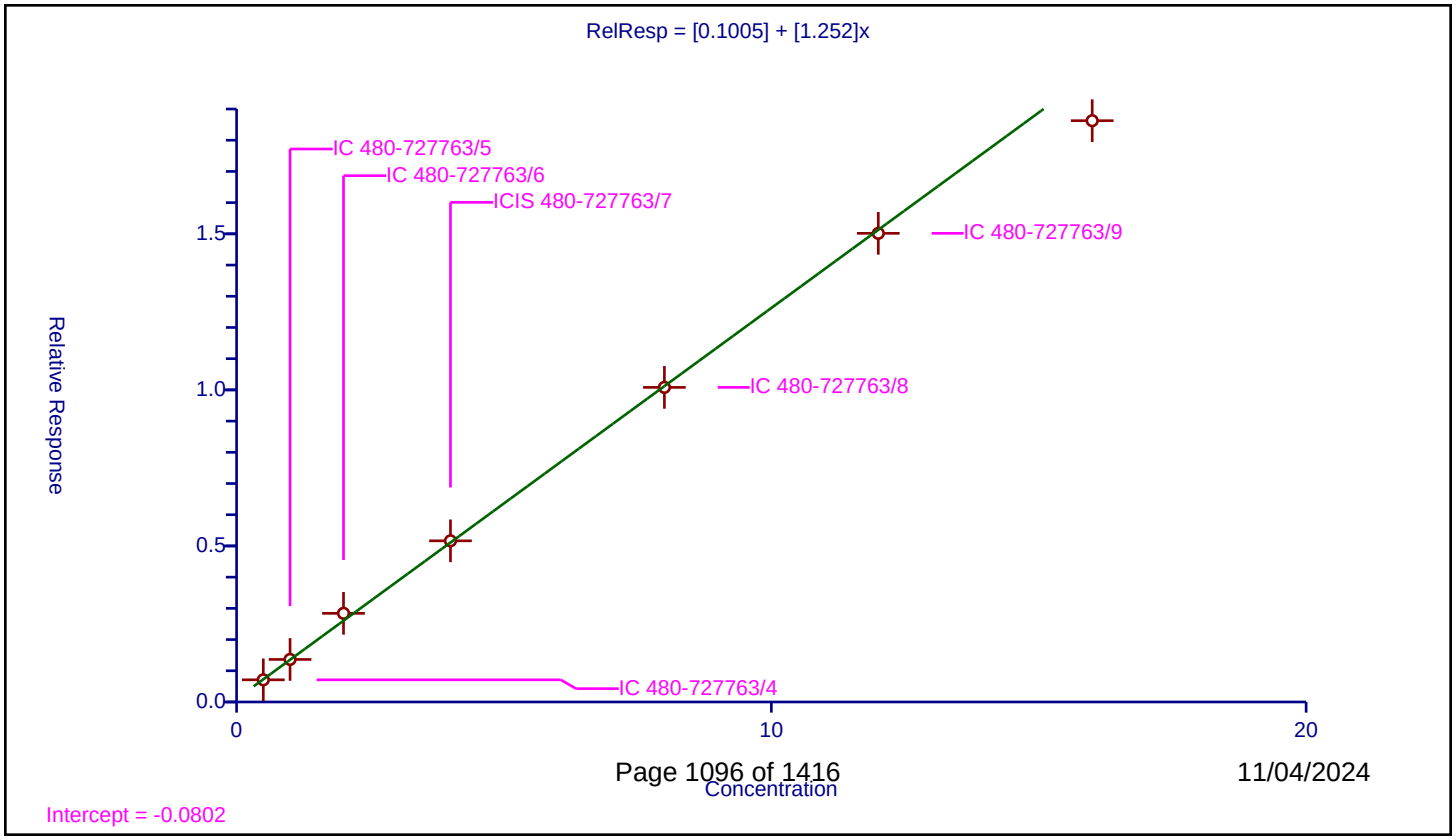
Curve Coefficients

Intercept:	0.1005
Slope:	1.252

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.710376	4.0	198081.0	1.420752	Y
2	IC 480-727763/5	1.0	1.363105	4.0	205880.0	1.363105	Y
3	IC 480-727763/6	2.0	2.840705	4.0	204331.0	1.420352	Y
4	ICIS 480-727763/7	4.0	5.163818	4.0	213896.0	1.290954	Y
5	IC 480-727763/8	8.0	10.080322	4.0	196285.0	1.26004	Y
6	IC 480-727763/9	12.0	15.016428	4.0	200209.0	1.251369	Y
7	IC 480-727763/10	16.0	18.625747	4.0	204789.0	1.164109	Y



Calibration / n-Decane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

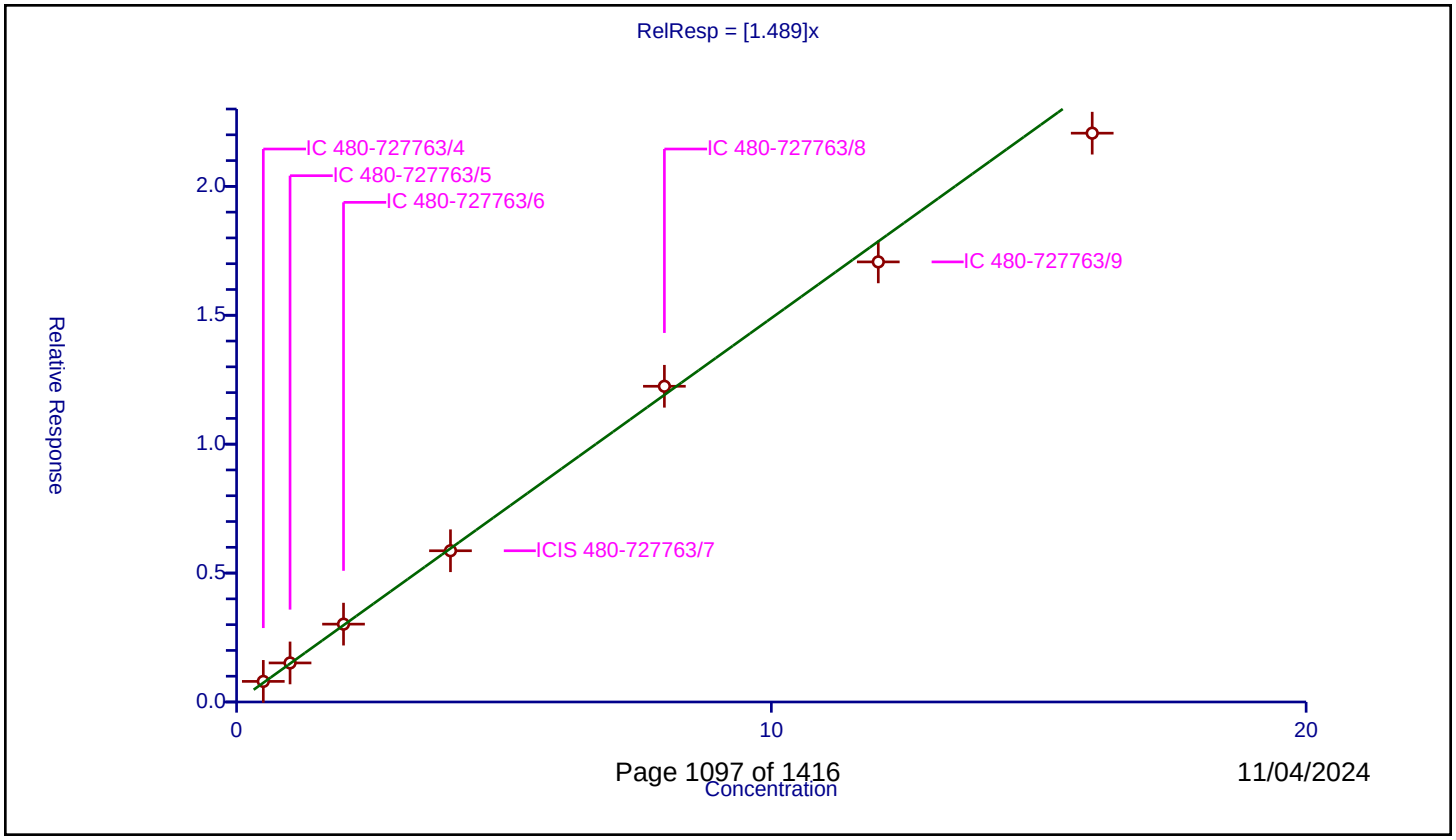
Curve Coefficients

Intercept:	0
Slope:	1.489

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.799128	4.0	198081.0	1.598255	Y
2	IC 480-727763/5	1.0	1.514474	4.0	205880.0	1.514474	Y
3	IC 480-727763/6	2.0	3.019728	4.0	204331.0	1.509864	Y
4	ICIS 480-727763/7	4.0	5.865879	4.0	213896.0	1.46647	Y
5	IC 480-727763/8	8.0	12.245765	4.0	196285.0	1.530721	Y
6	IC 480-727763/9	12.0	17.070162	4.0	200209.0	1.422513	Y
7	IC 480-727763/10	16.0	22.062611	4.0	204789.0	1.378913	Y



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Calibration / 2-Chlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

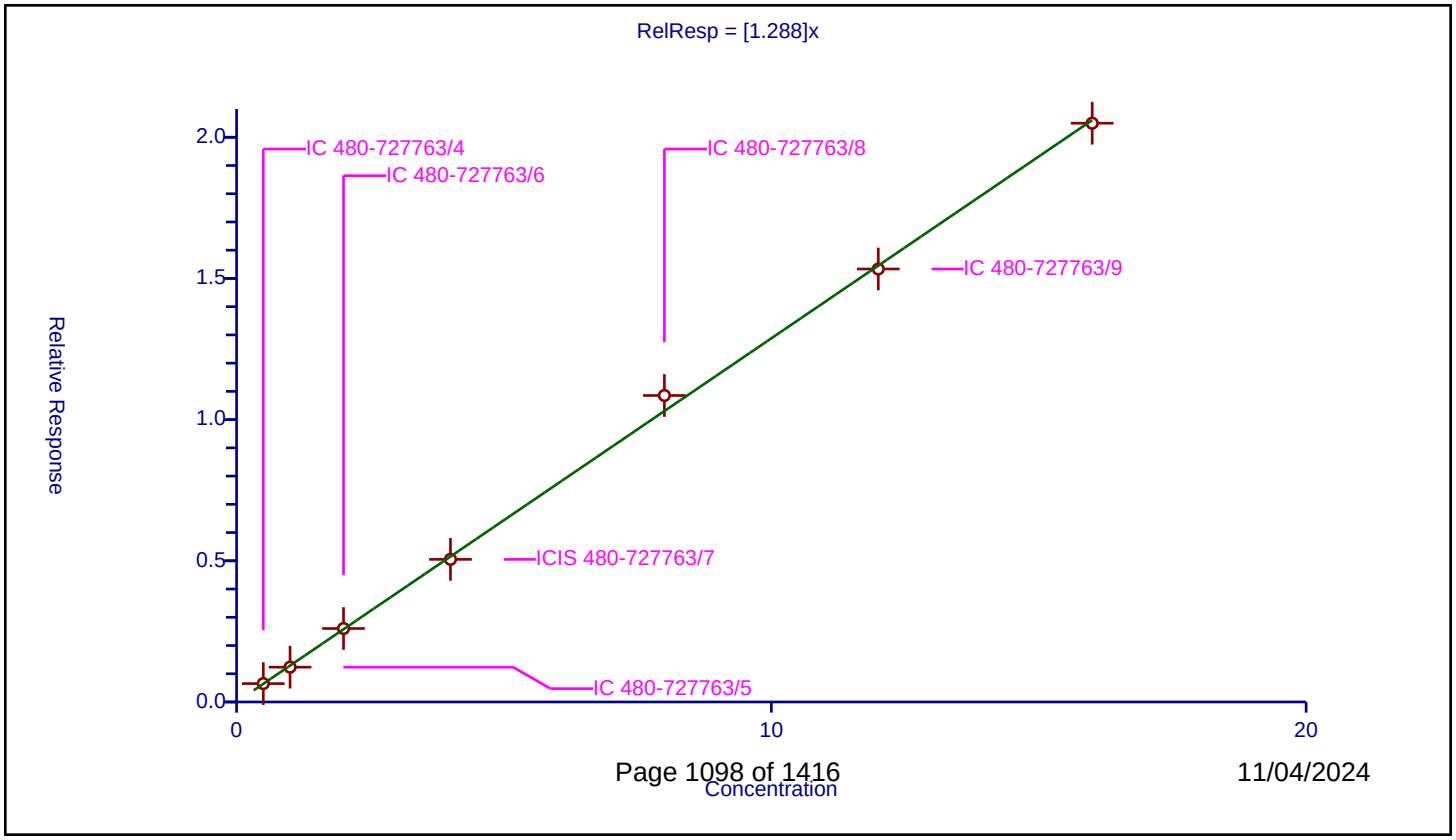
Curve Coefficients

Intercept:	0
Slope:	1.288

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.65141	4.0	198081.0	1.302821	Y
2	IC 480-727763/5	1.0	1.232602	4.0	205880.0	1.232602	Y
3	IC 480-727763/6	2.0	2.601896	4.0	204331.0	1.300948	Y
4	ICIS 480-727763/7	4.0	5.051315	4.0	213896.0	1.262829	Y
5	IC 480-727763/8	8.0	10.854136	4.0	196285.0	1.356767	Y
6	IC 480-727763/9	12.0	15.334835	4.0	200209.0	1.277903	Y
7	IC 480-727763/10	16.0	20.49737	4.0	204789.0	1.281086	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

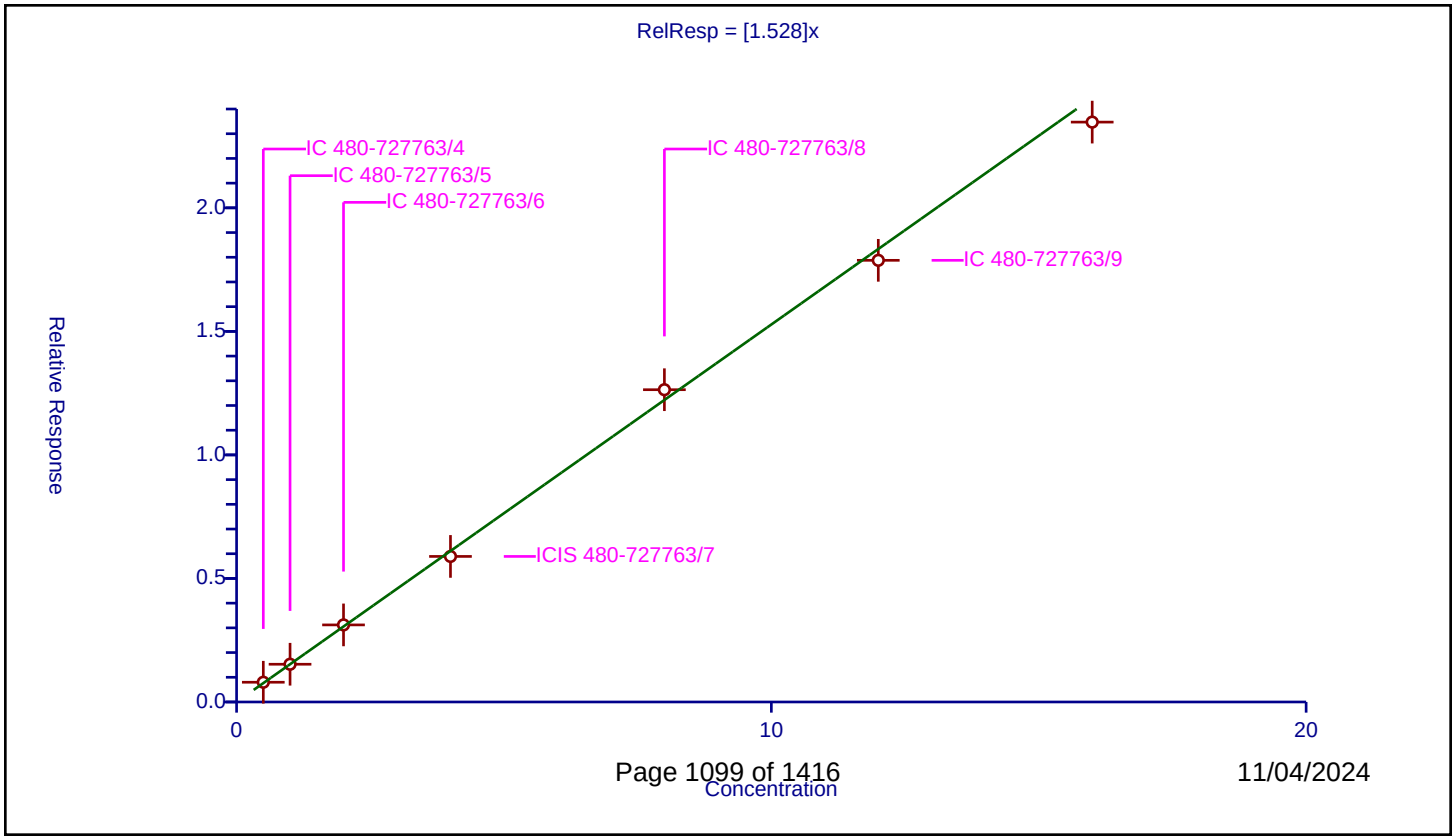
Curve Coefficients

Intercept:	0
Slope:	1.528

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.798744	4.0	198081.0	1.597488	Y
2	IC 480-727763/5	1.0	1.527958	4.0	205880.0	1.527958	Y
3	IC 480-727763/6	2.0	3.119899	4.0	204331.0	1.559949	Y
4	ICIS 480-727763/7	4.0	5.891012	4.0	213896.0	1.472753	Y
5	IC 480-727763/8	8.0	12.639295	4.0	196285.0	1.579912	Y
6	IC 480-727763/9	12.0	17.876379	4.0	200209.0	1.489698	Y
7	IC 480-727763/10	16.0	23.469796	4.0	204789.0	1.466862	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

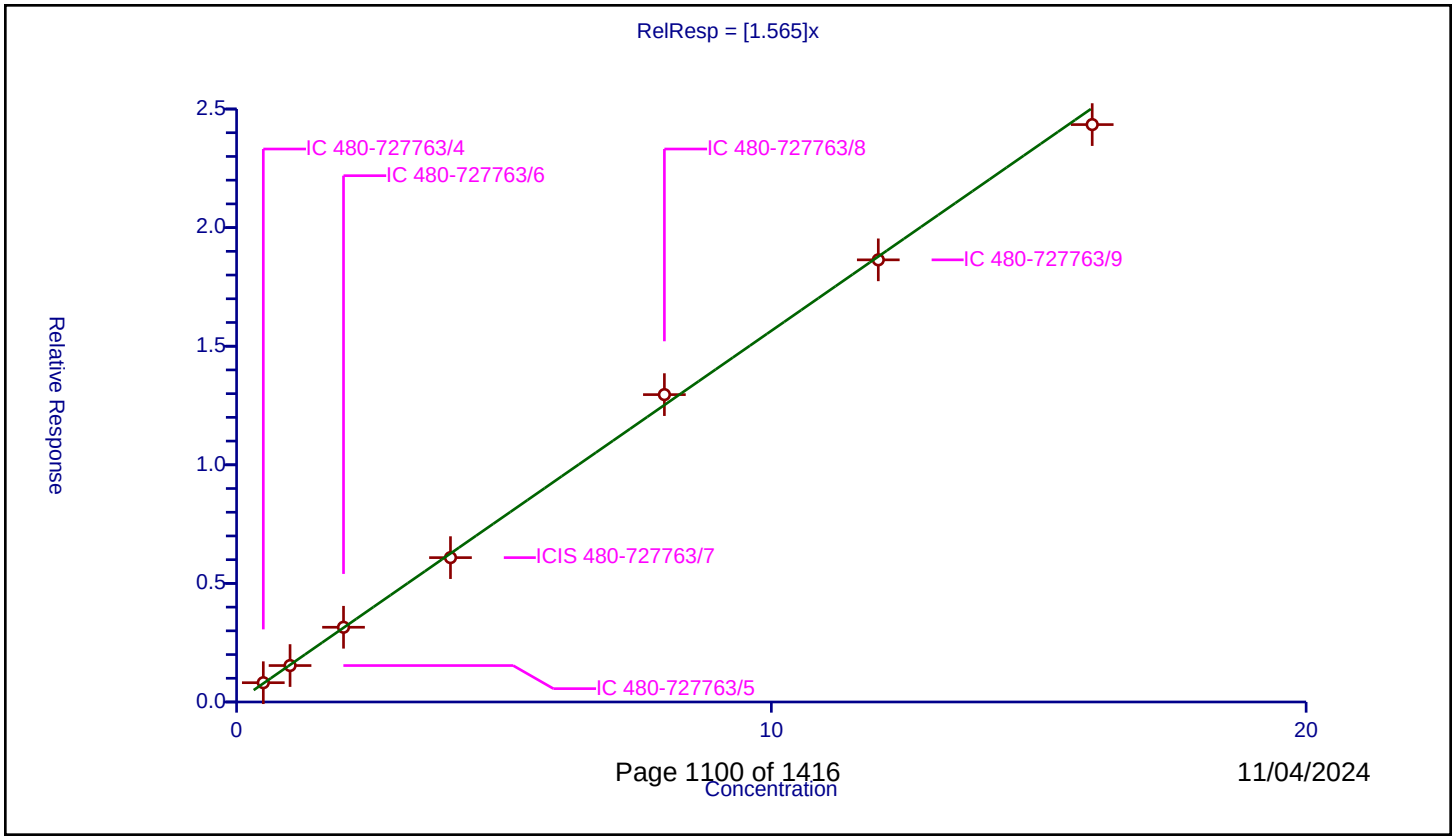
Curve Coefficients

Intercept:	0
Slope:	1.565

Error Coefficients

Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.813607	4.0	198081.0	1.627213	Y
2	IC 480-727763/5	1.0	1.536215	4.0	205880.0	1.536215	Y
3	IC 480-727763/6	2.0	3.15032	4.0	204331.0	1.57516	Y
4	ICIS 480-727763/7	4.0	6.085724	4.0	213896.0	1.521431	Y
5	IC 480-727763/8	8.0	12.958667	4.0	196285.0	1.619833	Y
6	IC 480-727763/9	12.0	18.64098	4.0	200209.0	1.553415	Y
7	IC 480-727763/10	16.0	24.343358	4.0	204789.0	1.52146	Y



Calibration / Benzyl alcohol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

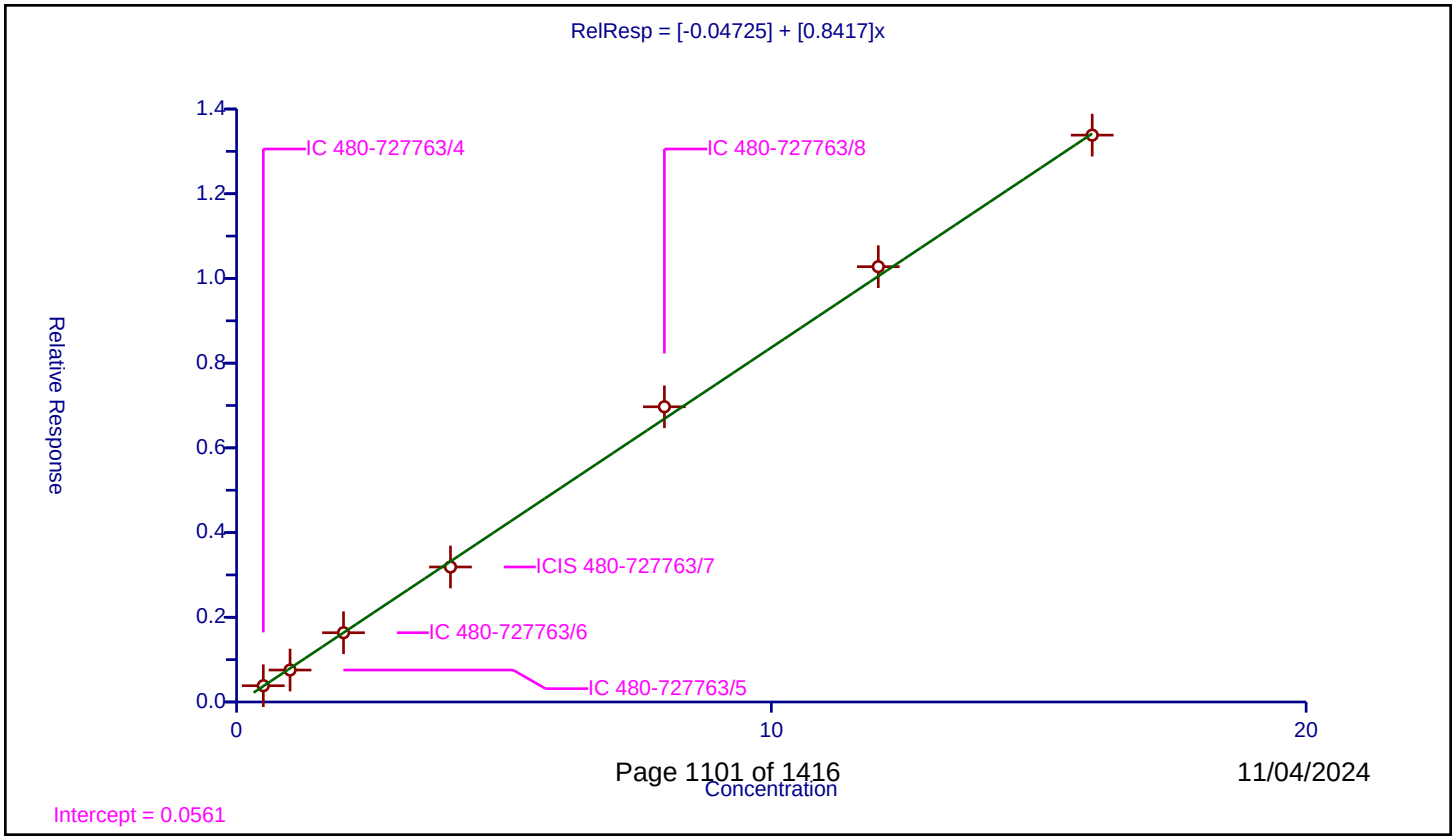
Curve Coefficients

Intercept:	-0.04725
Slope:	0.8417

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.384206	4.0	198081.0	0.768413	Y
2	IC 480-727763/5	1.0	0.754381	4.0	205880.0	0.754381	Y
3	IC 480-727763/6	2.0	1.635601	4.0	204331.0	0.817801	Y
4	ICIS 480-727763/7	4.0	3.187156	4.0	213896.0	0.796789	Y
5	IC 480-727763/8	8.0	6.970028	4.0	196285.0	0.871254	Y
6	IC 480-727763/9	12.0	10.27778	4.0	200209.0	0.856482	Y
7	IC 480-727763/10	16.0	13.383316	4.0	204789.0	0.836457	Y



11/04/2024

Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

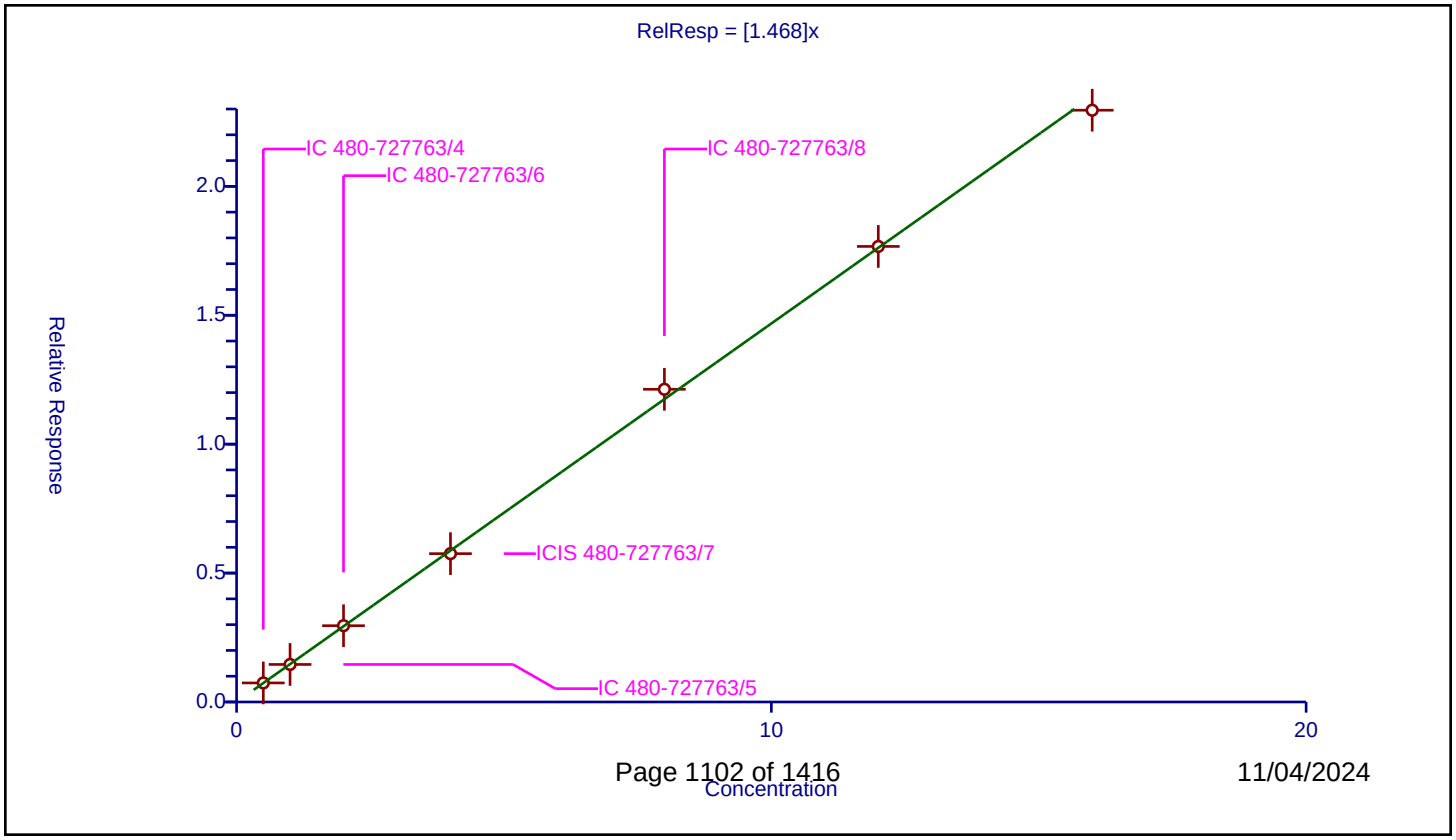
Curve Coefficients

Intercept:	0
Slope:	1.468

Error Coefficients

Relative Standard Deviation:	1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.739455	4.0	198081.0	1.47891	Y
2	IC 480-727763/5	1.0	1.456013	4.0	205880.0	1.456013	Y
3	IC 480-727763/6	2.0	2.958866	4.0	204331.0	1.479433	Y
4	ICIS 480-727763/7	4.0	5.753712	4.0	213896.0	1.438428	Y
5	IC 480-727763/8	8.0	12.129363	4.0	196285.0	1.51617	Y
6	IC 480-727763/9	12.0	17.670175	4.0	200209.0	1.472515	Y
7	IC 480-727763/10	16.0	22.953069	4.0	204789.0	1.434567	Y



Calibration / 2-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

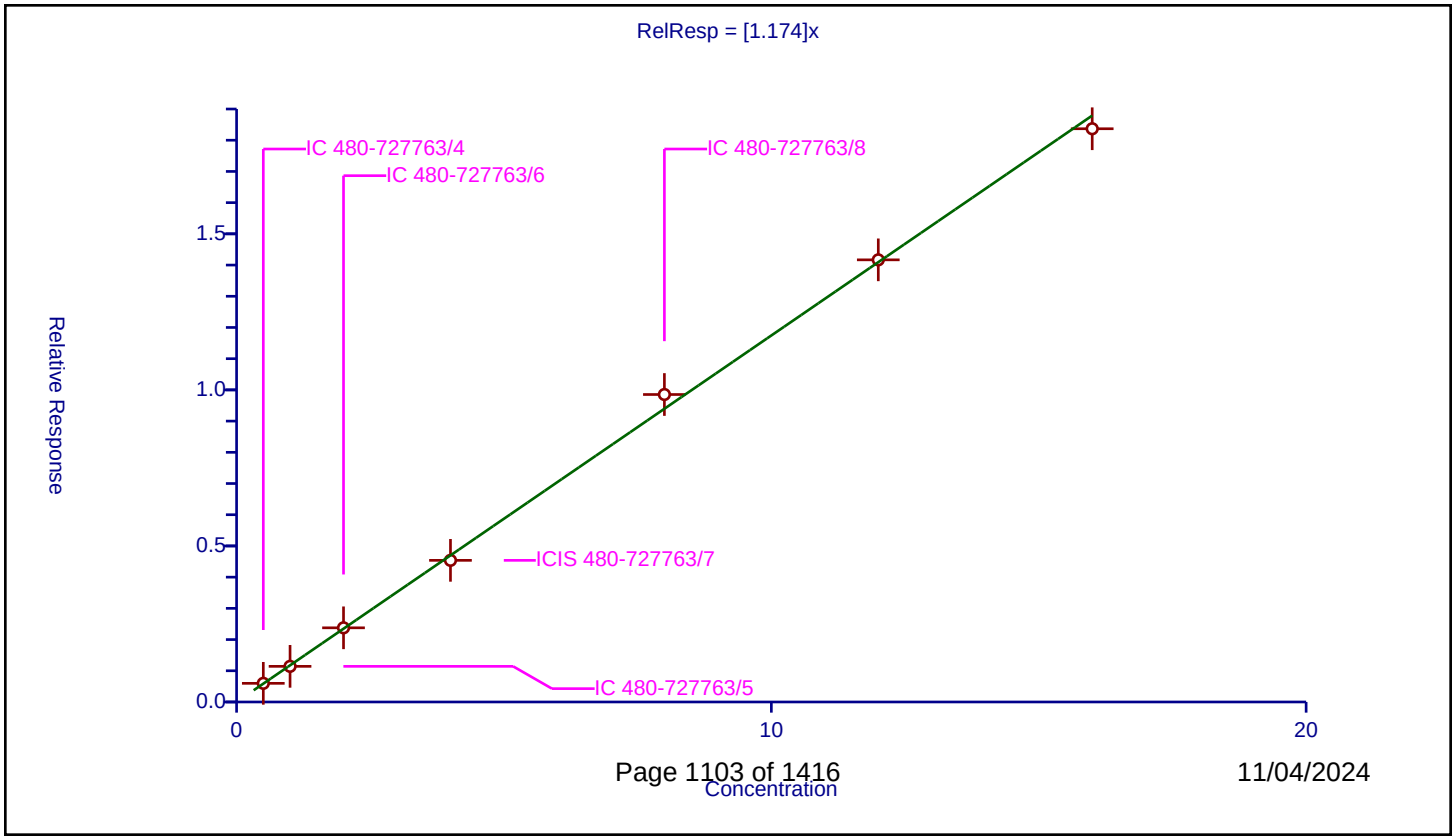
Curve Coefficients

Intercept:	0
Slope:	1.174

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.598018	4.0	198081.0	1.196036	Y
2	IC 480-727763/5	1.0	1.141558	4.0	205880.0	1.141558	Y
3	IC 480-727763/6	2.0	2.376575	4.0	204331.0	1.188288	Y
4	ICIS 480-727763/7	4.0	4.538187	4.0	213896.0	1.134547	Y
5	IC 480-727763/8	8.0	9.852286	4.0	196285.0	1.231536	Y
6	IC 480-727763/9	12.0	14.167235	4.0	200209.0	1.180603	Y
7	IC 480-727763/10	16.0	18.367979	4.0	204789.0	1.147999	Y



Calibration / 2,2'-oxybis[1-chloropropane]

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

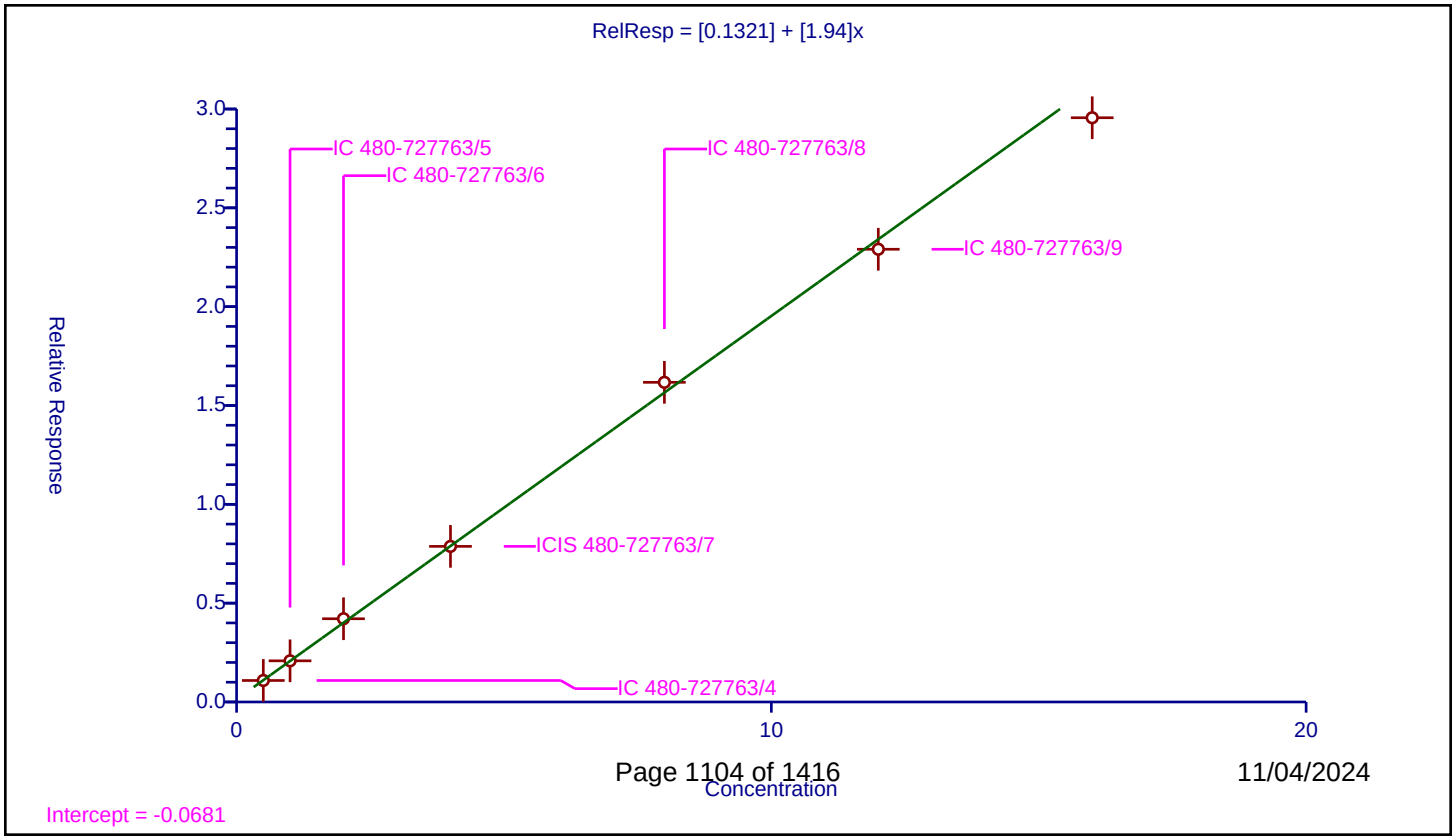
Curve Coefficients

Intercept:	0.1321
Slope:	1.94

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	1.087454	4.0	198081.0	2.174908	Y
2	IC 480-727763/5	1.0	2.082786	4.0	205880.0	2.082786	Y
3	IC 480-727763/6	2.0	4.211637	4.0	204331.0	2.105819	Y
4	ICIS 480-727763/7	4.0	7.872349	4.0	213896.0	1.968087	Y
5	IC 480-727763/8	8.0	16.172647	4.0	196285.0	2.021581	Y
6	IC 480-727763/9	12.0	22.905504	4.0	200209.0	1.908792	Y
7	IC 480-727763/10	16.0	29.558697	4.0	204789.0	1.847419	Y



Calibration / Indene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

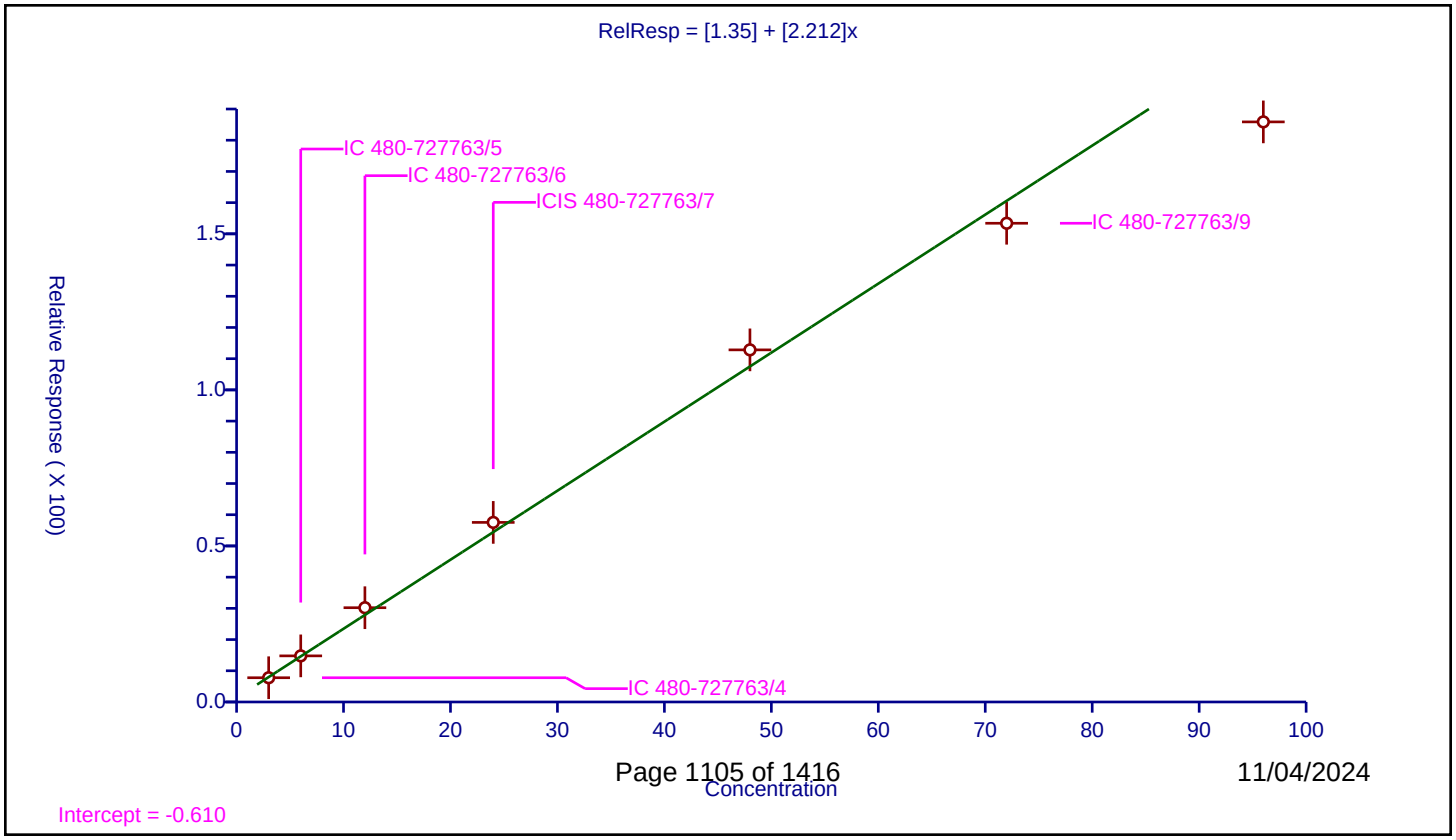
Curve Coefficients

Intercept:	1.35
Slope:	2.212

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	3.0	7.770175	4.0	198081.0	2.590058	Y
2	IC 480-727763/5	6.0	14.775559	4.0	205880.0	2.462593	Y
3	IC 480-727763/6	12.0	30.211803	4.0	204331.0	2.51765	Y
4	ICIS 480-727763/7	24.0	57.542899	4.0	213896.0	2.397621	Y
5	IC 480-727763/8	48.0	112.827572	4.0	196285.0	2.350574	Y
6	IC 480-727763/9	72.0	153.395162	4.0	200209.0	2.130488	Y
7	IC 480-727763/10	96.0	185.875823	4.0	204789.0	1.936206	Y



11/04/2024

Calibration / 4-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

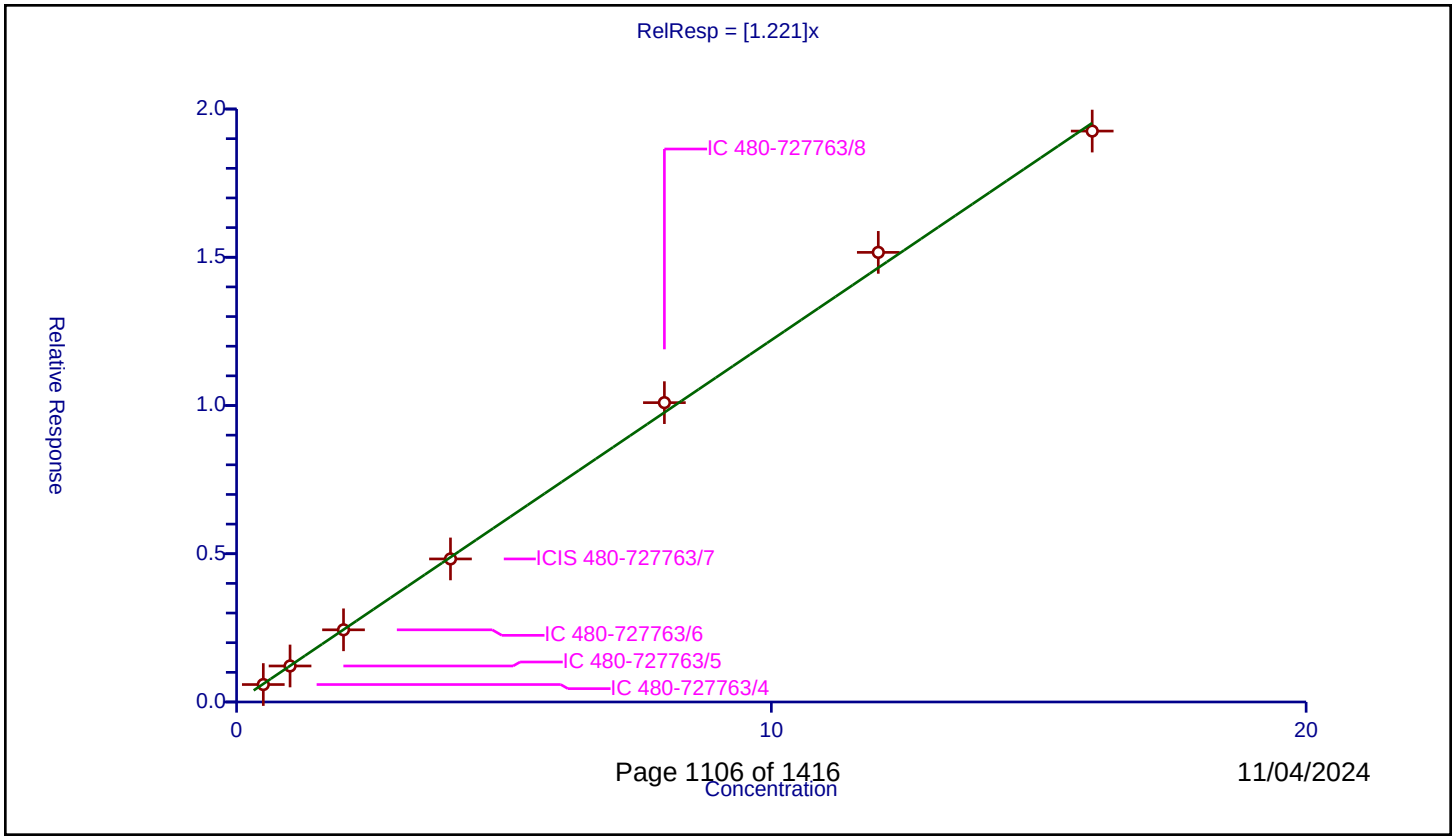
Curve Coefficients

Intercept:	0
Slope:	1.221

Error Coefficients

Relative Standard Deviation:	2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.588264	4.0	198081.0	1.176529	Y
2	IC 480-727763/5	1.0	1.21463	4.0	205880.0	1.21463	Y
3	IC 480-727763/6	2.0	2.434031	4.0	204331.0	1.217016	Y
4	ICIS 480-727763/7	4.0	4.825055	4.0	213896.0	1.206264	Y
5	IC 480-727763/8	8.0	10.096727	4.0	196285.0	1.262091	Y
6	IC 480-727763/9	12.0	15.164713	4.0	200209.0	1.263726	Y
7	IC 480-727763/10	16.0	19.256444	4.0	204789.0	1.203528	Y



Calibration / N-Nitrosodi-n-propylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

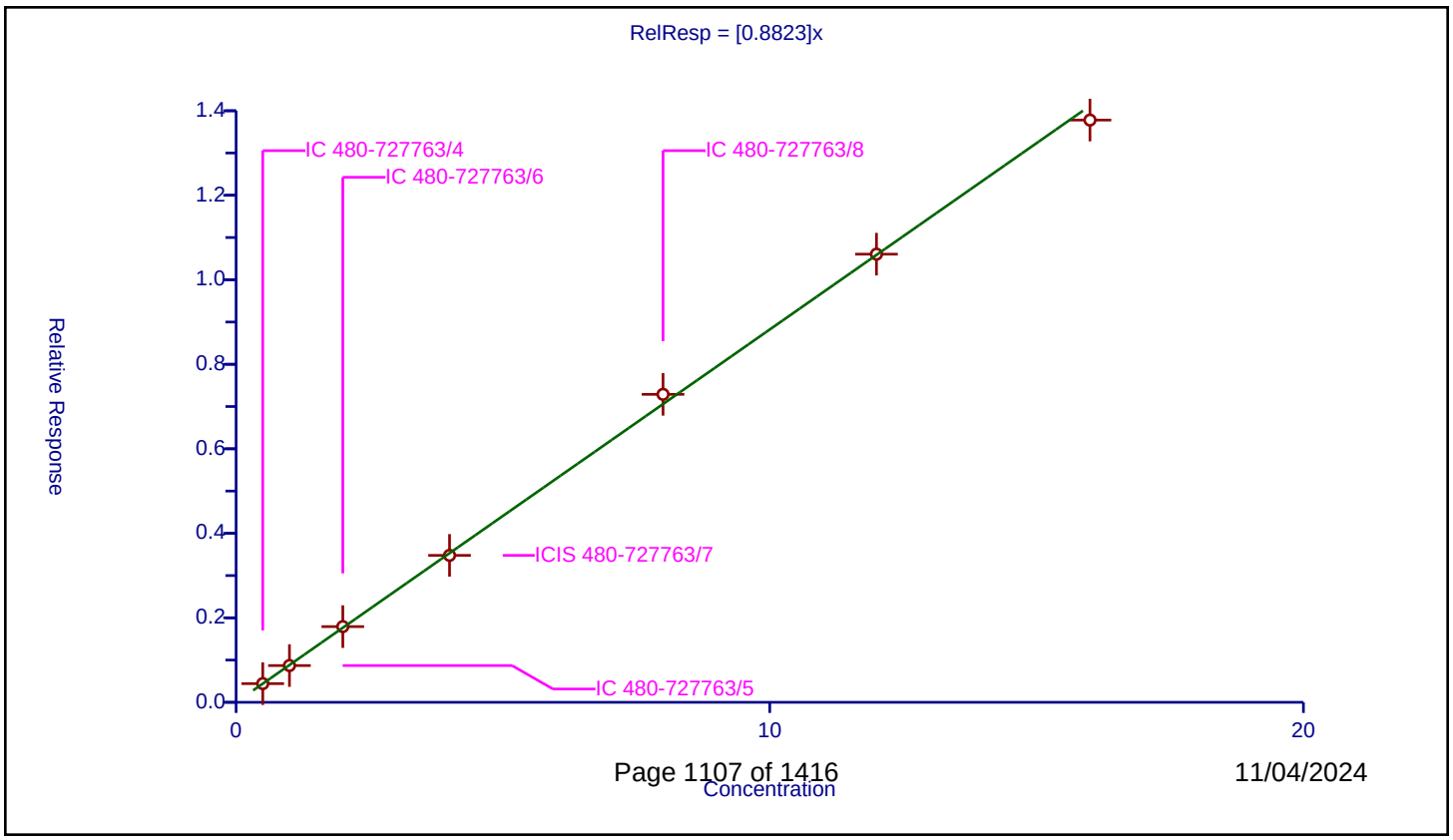
Curve Coefficients

Intercept:	0
Slope:	0.8823

Error Coefficients

Relative Standard Deviation:	2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.442364	4.0	198081.0	0.884729	Y
2	IC 480-727763/5	1.0	0.869749	4.0	205880.0	0.869749	Y
3	IC 480-727763/6	2.0	1.791779	4.0	204331.0	0.89589	Y
4	ICIS 480-727763/7	4.0	3.477522	4.0	213896.0	0.86938	Y
5	IC 480-727763/8	8.0	7.288524	4.0	196285.0	0.911066	Y
6	IC 480-727763/9	12.0	10.606137	4.0	200209.0	0.883845	Y
7	IC 480-727763/10	16.0	13.779685	4.0	204789.0	0.86123	Y



Calibration / Acetophenone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

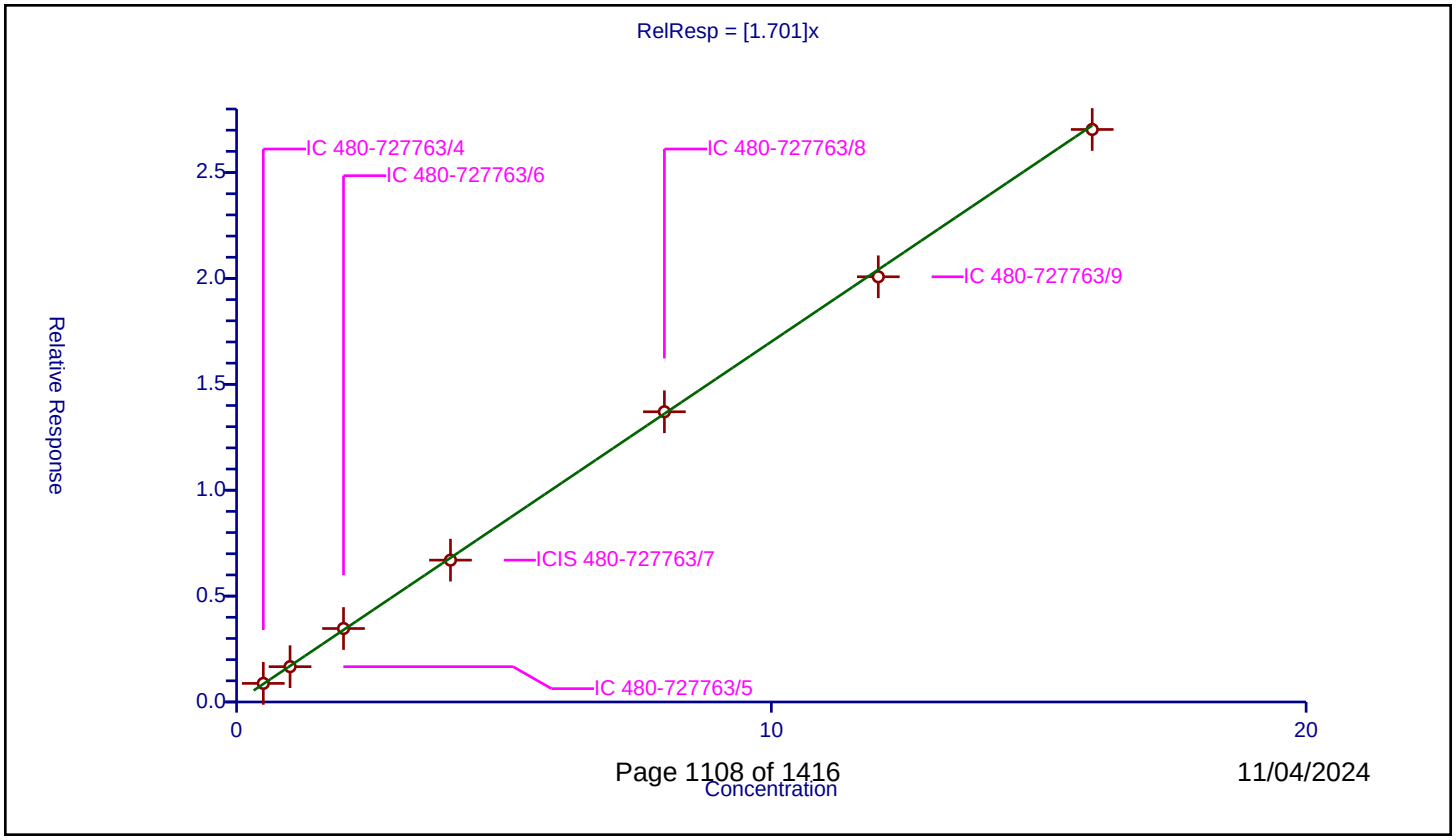
Curve Coefficients

Intercept:	0
Slope:	1.701

Error Coefficients

Relative Standard Deviation:	2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.877803	4.0	198081.0	1.755605	Y
2	IC 480-727763/5	1.0	1.668409	4.0	205880.0	1.668409	Y
3	IC 480-727763/6	2.0	3.469312	4.0	204331.0	1.734656	Y
4	ICIS 480-727763/7	4.0	6.698713	4.0	213896.0	1.674678	Y
5	IC 480-727763/8	8.0	13.704236	4.0	196285.0	1.71303	Y
6	IC 480-727763/9	12.0	20.078318	4.0	200209.0	1.673193	Y
7	IC 480-727763/10	16.0	27.034225	4.0	204789.0	1.689639	Y



Calibration / Hexachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

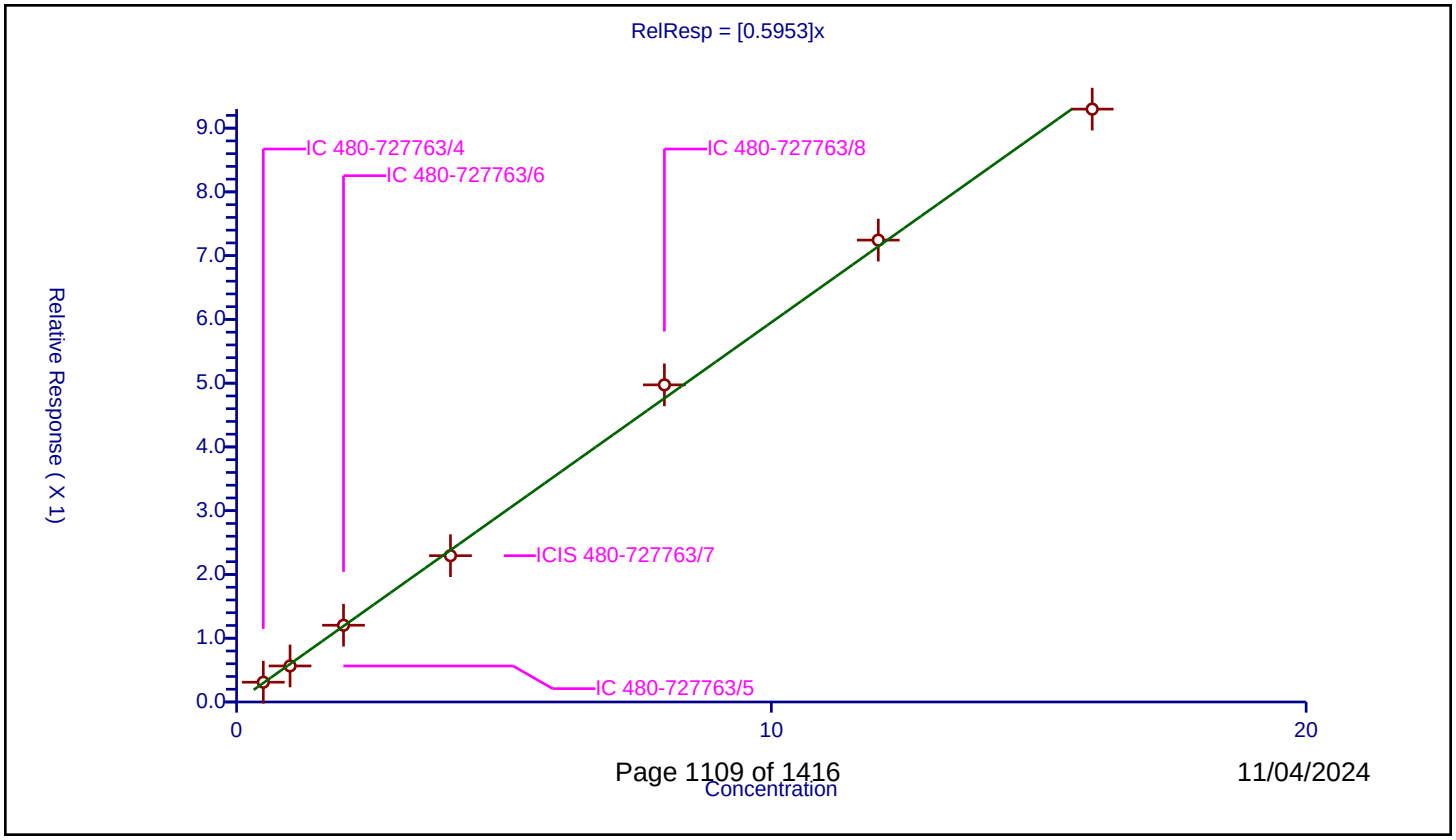
Curve Coefficients

Intercept:	0
Slope:	0.5953

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.310015	4.0	198081.0	0.620029	Y
2	IC 480-727763/5	1.0	0.565261	4.0	205880.0	0.565261	Y
3	IC 480-727763/6	2.0	1.203851	4.0	204331.0	0.601925	Y
4	ICIS 480-727763/7	4.0	2.294779	4.0	213896.0	0.573695	Y
5	IC 480-727763/8	8.0	4.97391	4.0	196285.0	0.621739	Y
6	IC 480-727763/9	12.0	7.24379	4.0	200209.0	0.603649	Y
7	IC 480-727763/10	16.0	9.298371	4.0	204789.0	0.581148	Y



Calibration / Nitrobenzene-d5

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

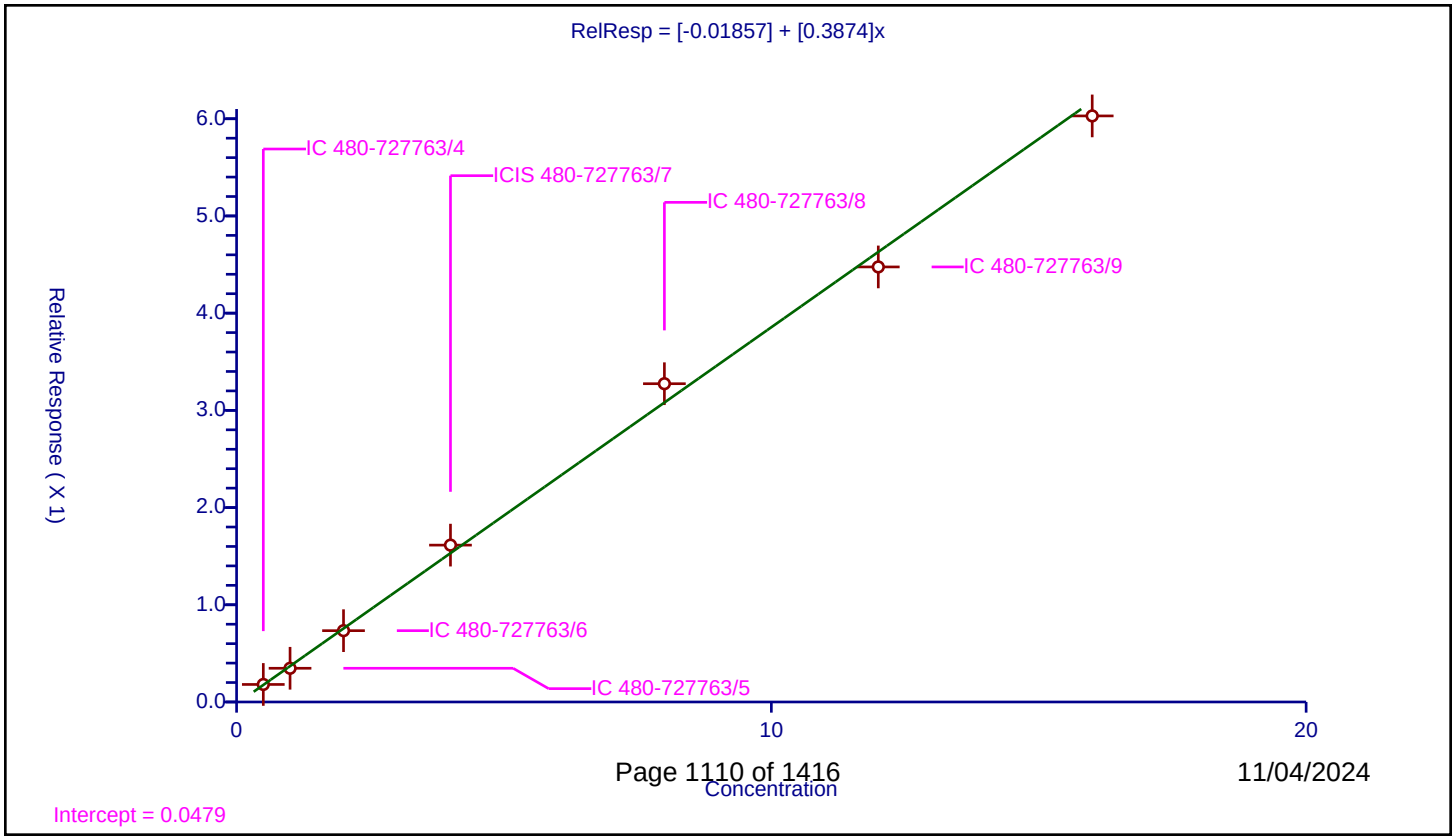
Curve Coefficients

Intercept:	-0.01857
Slope:	0.3874

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.180376	4.0	737081.0	0.360753	Y
2	IC 480-727763/5	1.0	0.346834	4.0	773570.0	0.346834	Y
3	IC 480-727763/6	2.0	0.733689	4.0	759842.0	0.366845	Y
4	ICIS 480-727763/7	4.0	1.613801	4.0	773798.0	0.40345	Y
5	IC 480-727763/8	8.0	3.274215	4.0	688788.0	0.409277	Y
6	IC 480-727763/9	12.0	4.475368	4.0	738627.0	0.372947	Y
7	IC 480-727763/10	16.0	6.028921	4.0	735514.0	0.376808	Y



Calibration / Nitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

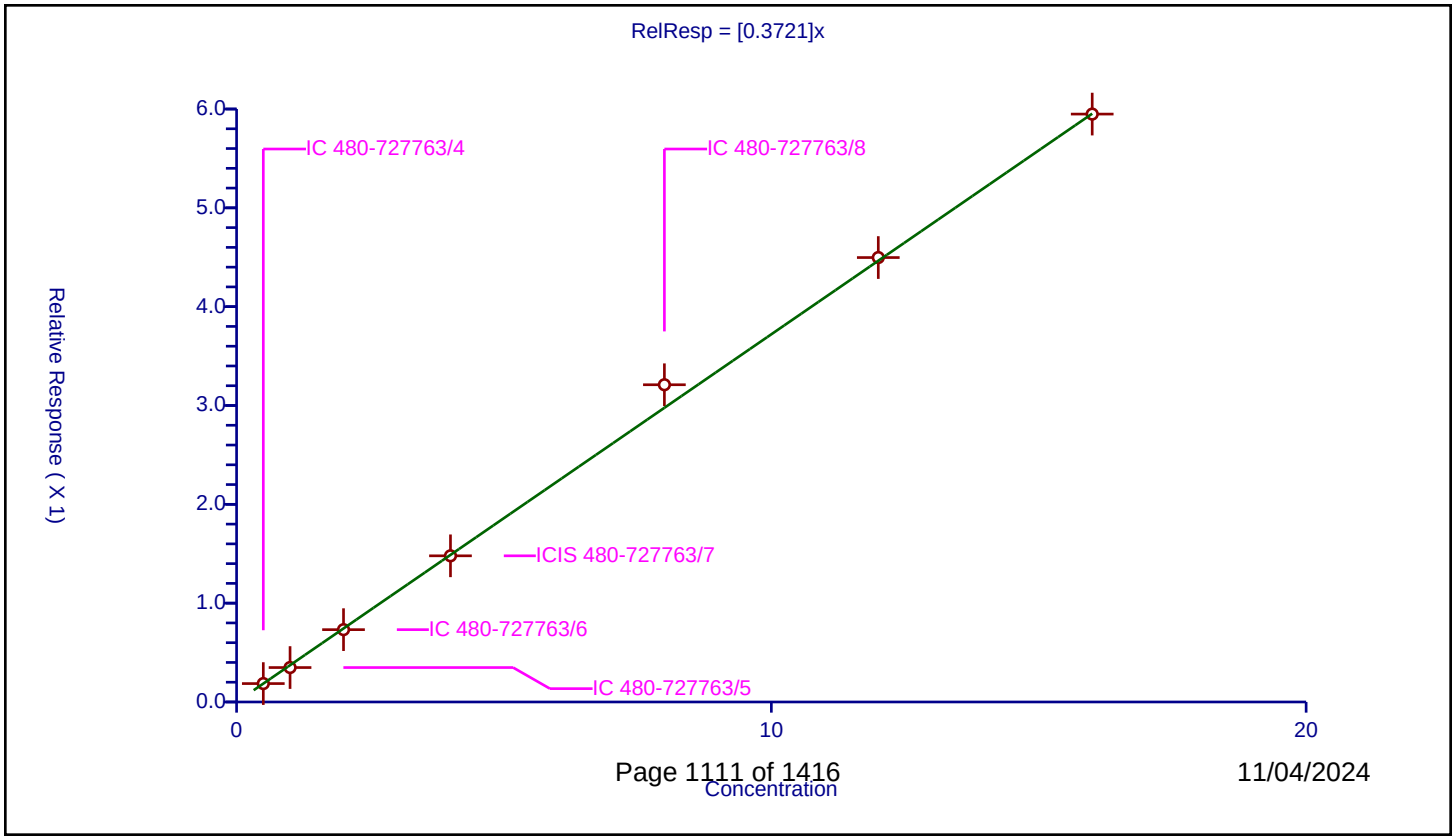
Curve Coefficients

Intercept:	0
Slope:	0.3721

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.186221	4.0	737081.0	0.372442	Y
2	IC 480-727763/5	1.0	0.348545	4.0	773570.0	0.348545	Y
3	IC 480-727763/6	2.0	0.731894	4.0	759842.0	0.365947	Y
4	ICIS 480-727763/7	4.0	1.479032	4.0	773798.0	0.369758	Y
5	IC 480-727763/8	8.0	3.210079	4.0	688788.0	0.40126	Y
6	IC 480-727763/9	12.0	4.496944	4.0	738627.0	0.374745	Y
7	IC 480-727763/10	16.0	5.948743	4.0	735514.0	0.371796	Y



Calibration / Isophorone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

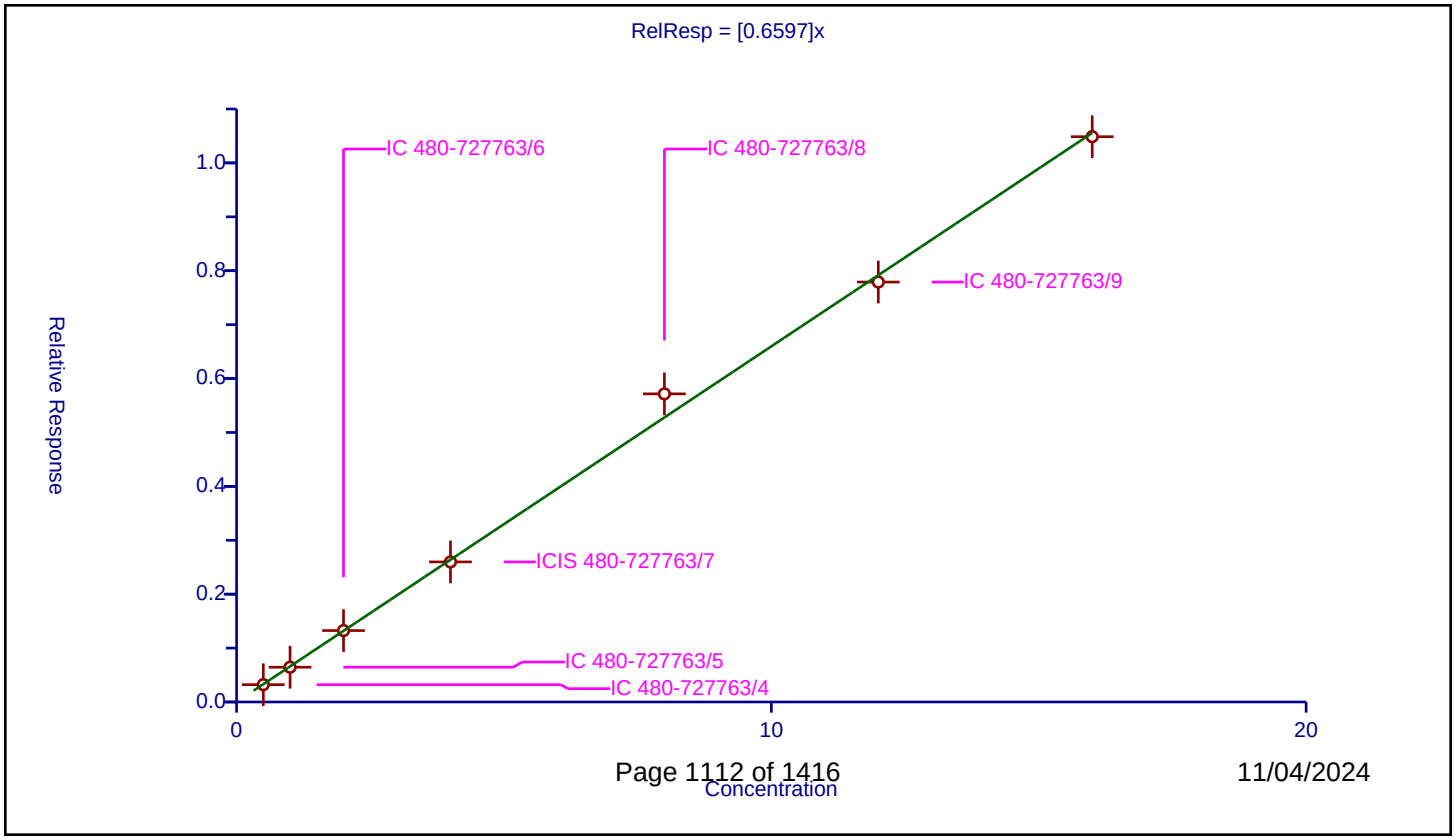
Curve Coefficients

Intercept:	0
Slope:	0.6597

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.321153	4.0	737081.0	0.642307	Y
2	IC 480-727763/5	1.0	0.644679	4.0	773570.0	0.644679	Y
3	IC 480-727763/6	2.0	1.324839	4.0	759842.0	0.662419	Y
4	ICIS 480-727763/7	4.0	2.598559	4.0	773798.0	0.64964	Y
5	IC 480-727763/8	8.0	5.716017	4.0	688788.0	0.714502	Y
6	IC 480-727763/9	12.0	7.790027	4.0	738627.0	0.649169	Y
7	IC 480-727763/10	16.0	10.486637	4.0	735514.0	0.655415	Y



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Calibration / 2-Nitrophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

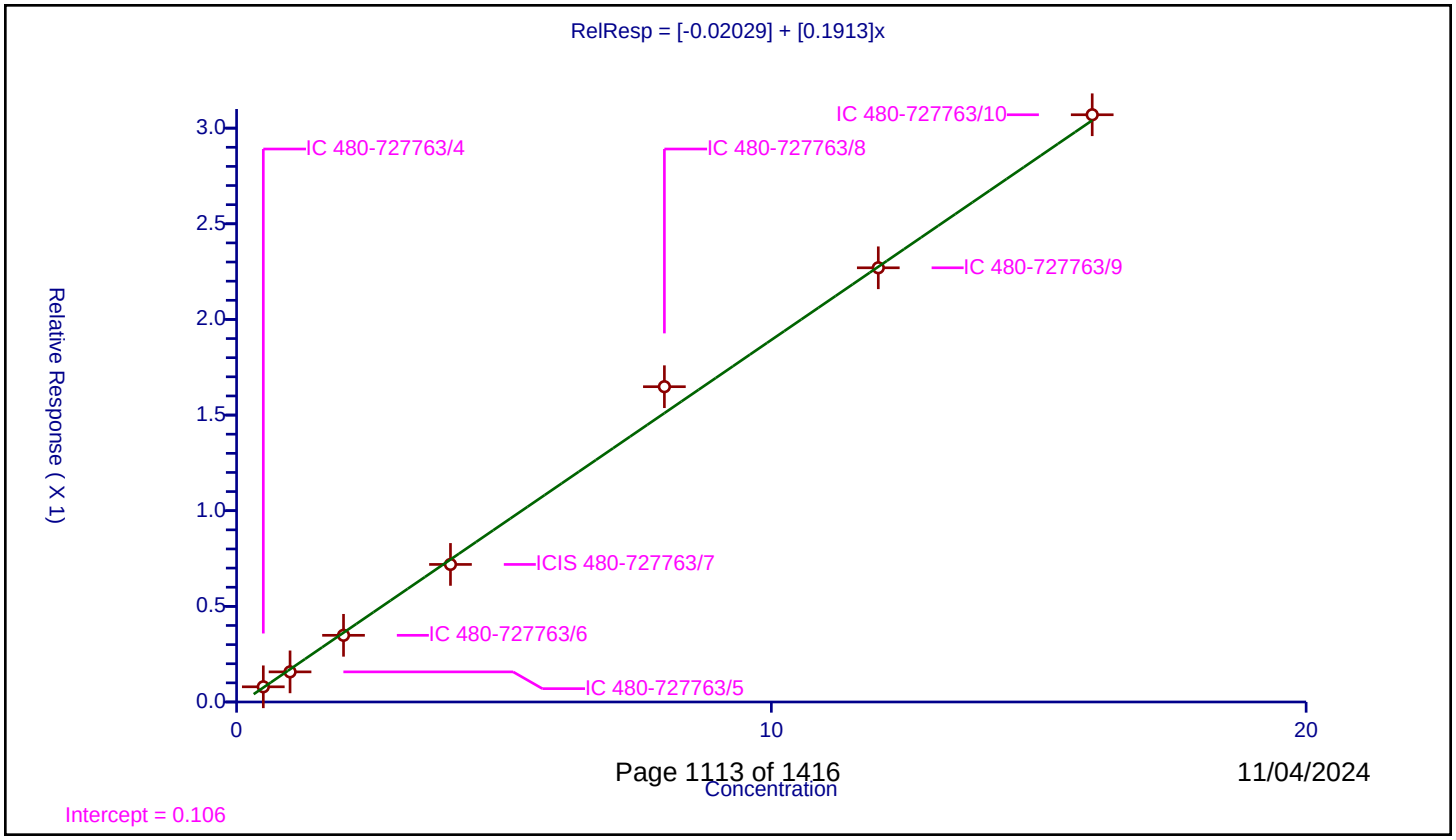
Curve Coefficients

Intercept:	-0.02029
Slope:	0.1913

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.079454	4.0	737081.0	0.158908	Y
2	IC 480-727763/5	1.0	0.157426	4.0	773570.0	0.157426	Y
3	IC 480-727763/6	2.0	0.348641	4.0	759842.0	0.17432	Y
4	ICIS 480-727763/7	4.0	0.719195	4.0	773798.0	0.179799	Y
5	IC 480-727763/8	8.0	1.648368	4.0	688788.0	0.206046	Y
6	IC 480-727763/9	12.0	2.270006	4.0	738627.0	0.189167	Y
7	IC 480-727763/10	16.0	3.070033	4.0	735514.0	0.191877	Y



Calibration / 2,4-Dimethylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

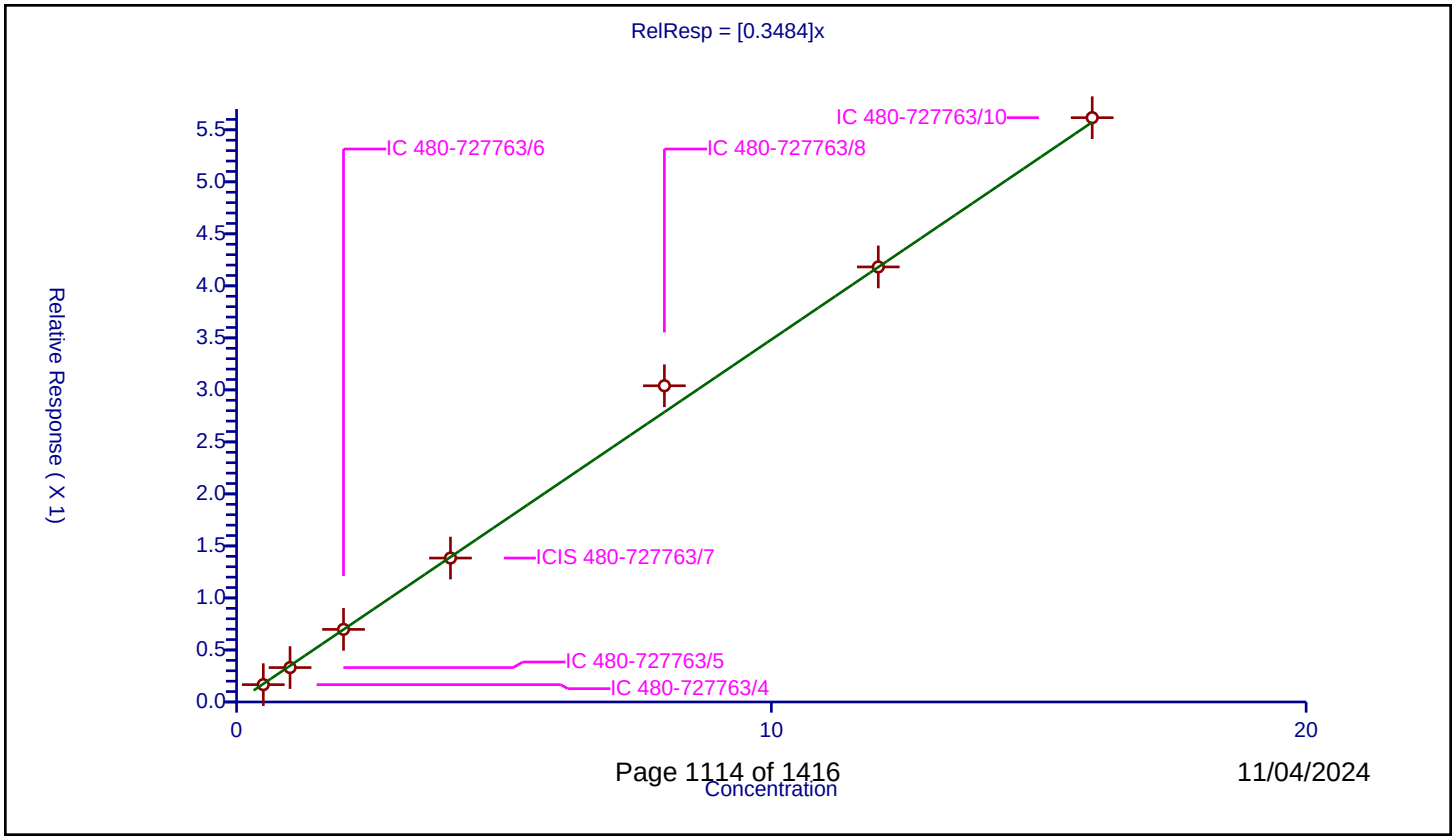
Curve Coefficients

Intercept:	0
Slope:	0.3484

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.166668	4.0	737081.0	0.333336	Y
2	IC 480-727763/5	1.0	0.330788	4.0	773570.0	0.330788	Y
3	IC 480-727763/6	2.0	0.697866	4.0	759842.0	0.348933	Y
4	ICIS 480-727763/7	4.0	1.383581	4.0	773798.0	0.345895	Y
5	IC 480-727763/8	8.0	3.039856	4.0	688788.0	0.379982	Y
6	IC 480-727763/9	12.0	4.182035	4.0	738627.0	0.348503	Y
7	IC 480-727763/10	16.0	5.616622	4.0	735514.0	0.351039	Y



Calibration / Benzoic acid

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

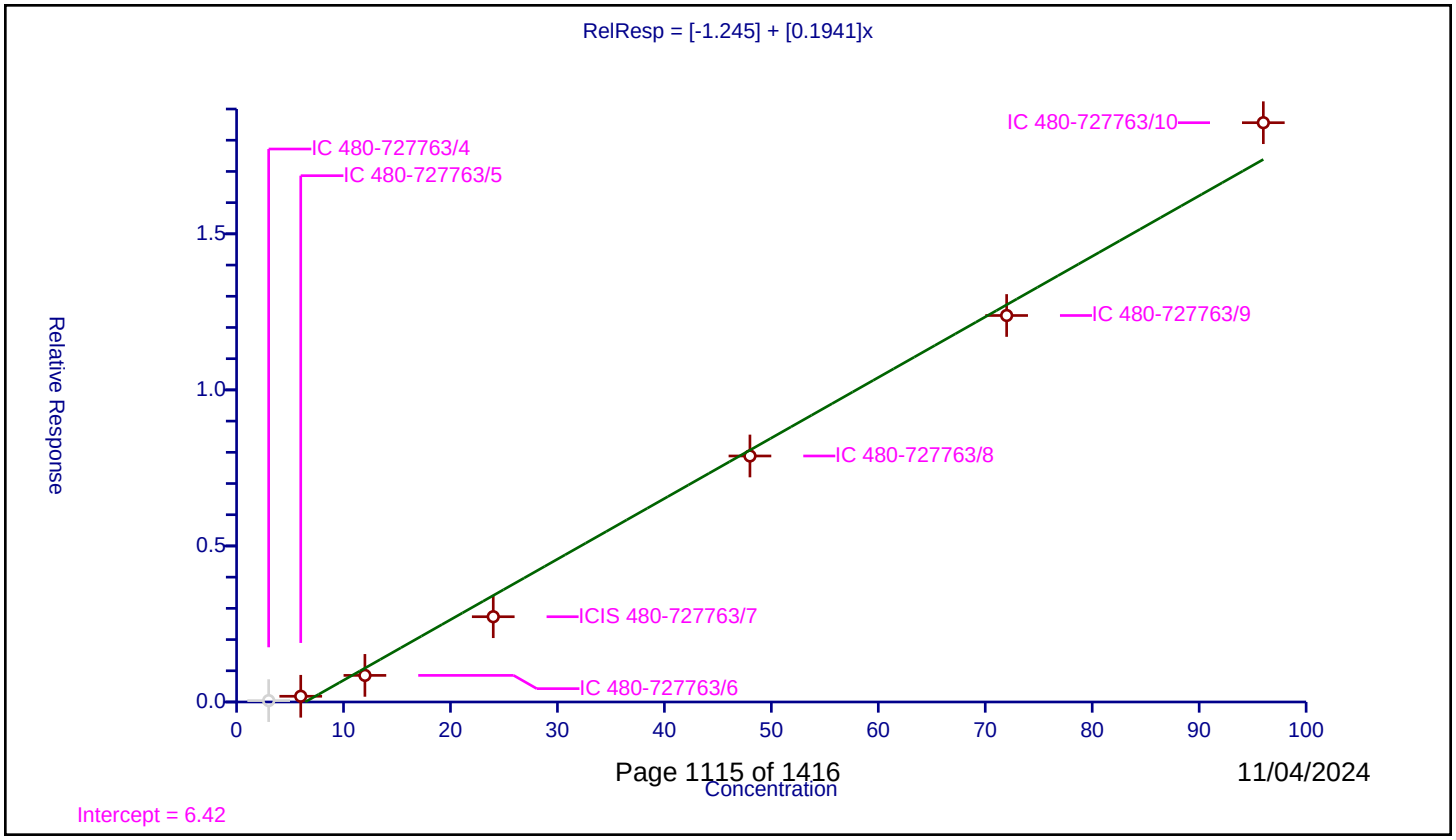
Curve Coefficients

Intercept:	-1.245
Slope:	0.1941

Error Coefficients

Relative Standard Deviation:	14.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	3.0	0.043887	4.0	737081.0	0.014629	N
2	IC 480-727763/5	6.0	0.183451	4.0	773570.0	0.030575	Y
3	IC 480-727763/6	12.0	0.852425	4.0	759842.0	0.071035	Y
4	ICIS 480-727763/7	24.0	2.732475	4.0	773798.0	0.113853	Y
5	IC 480-727763/8	48.0	7.88271	4.0	688788.0	0.164223	Y
6	IC 480-727763/9	72.0	12.384378	4.0	738627.0	0.172005	Y
7	IC 480-727763/10	96.0	18.561338	4.0	735514.0	0.193347	Y



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Calibration / Bis(2-chloroethoxy)methane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

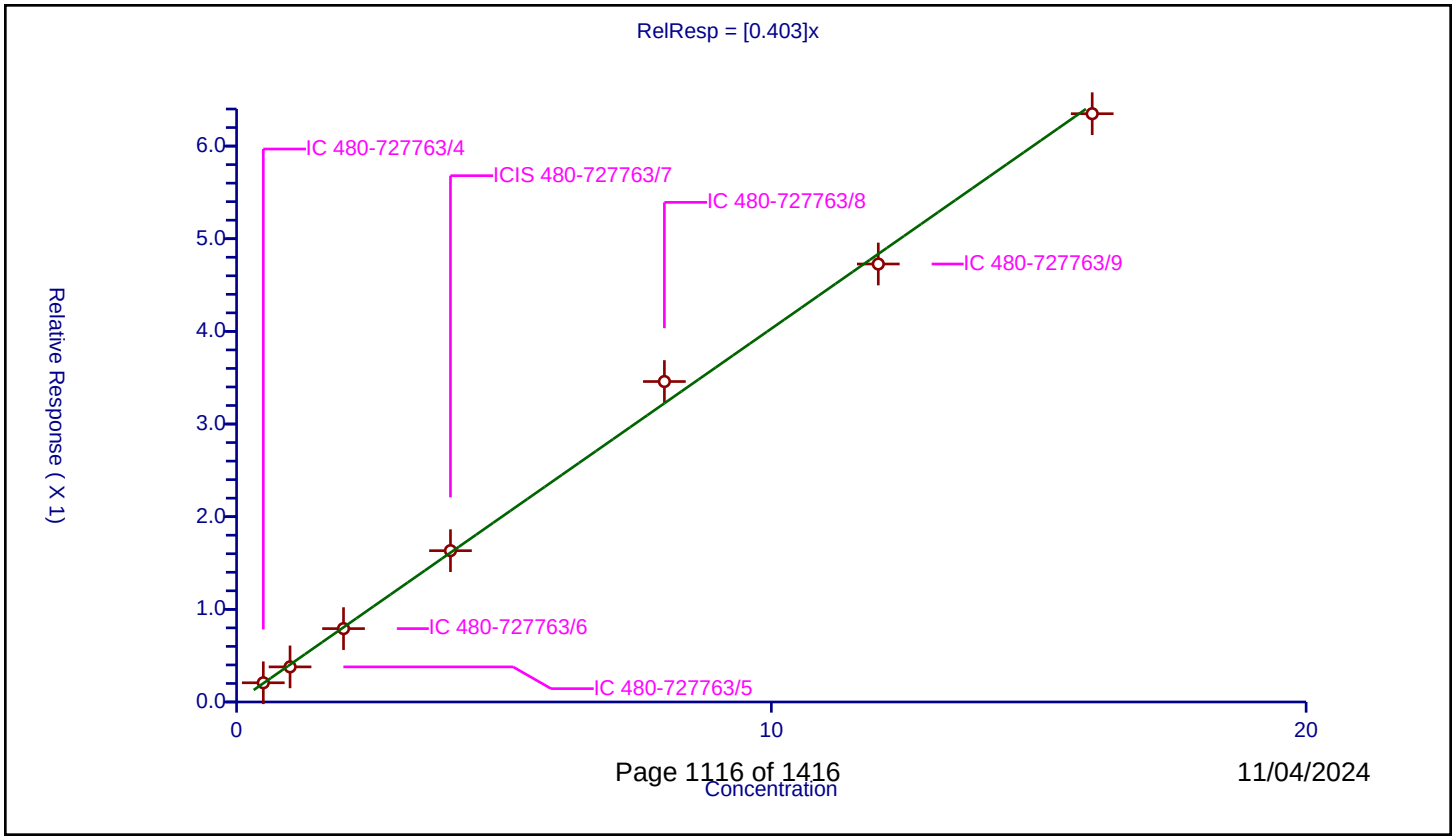
Curve Coefficients

Intercept:	0
Slope:	0.403

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.207288	4.0	737081.0	0.414576	Y
2	IC 480-727763/5	1.0	0.378774	4.0	773570.0	0.378774	Y
3	IC 480-727763/6	2.0	0.791986	4.0	759842.0	0.395993	Y
4	ICIS 480-727763/7	4.0	1.633207	4.0	773798.0	0.408302	Y
5	IC 480-727763/8	8.0	3.458928	4.0	688788.0	0.432366	Y
6	IC 480-727763/9	12.0	4.727144	4.0	738627.0	0.393929	Y
7	IC 480-727763/10	16.0	6.349383	4.0	735514.0	0.396836	Y



Calibration / 2,4-Dichlorophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

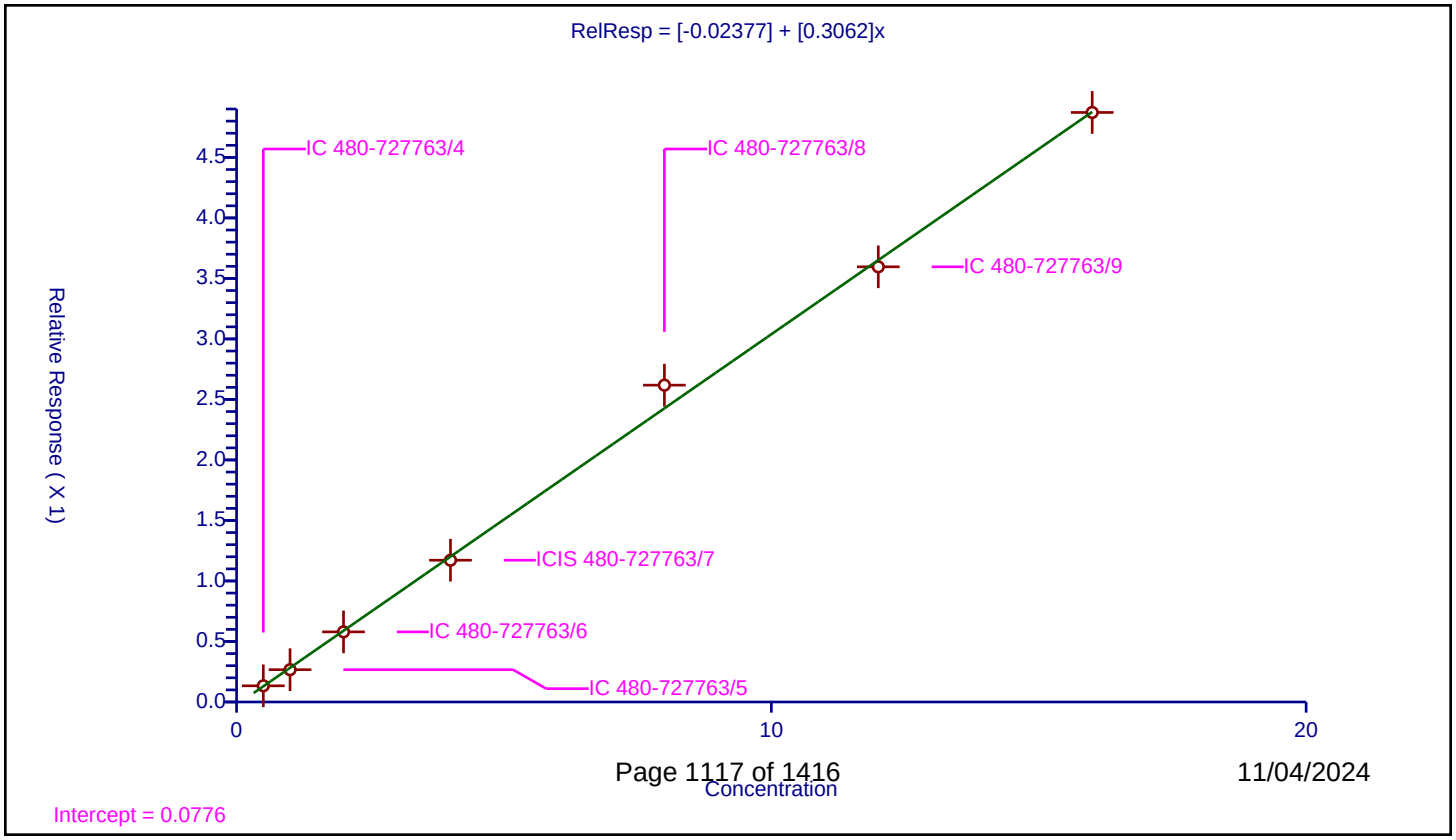
Curve Coefficients

Intercept:	-0.02377
Slope:	0.3062

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.133657	4.0	737081.0	0.267314	Y
2	IC 480-727763/5	1.0	0.266856	4.0	773570.0	0.266856	Y
3	IC 480-727763/6	2.0	0.579442	4.0	759842.0	0.289721	Y
4	ICIS 480-727763/7	4.0	1.171463	4.0	773798.0	0.292866	Y
5	IC 480-727763/8	8.0	2.61817	4.0	688788.0	0.327271	Y
6	IC 480-727763/9	12.0	3.59604	4.0	738627.0	0.29967	Y
7	IC 480-727763/10	16.0	4.871548	4.0	735514.0	0.304472	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

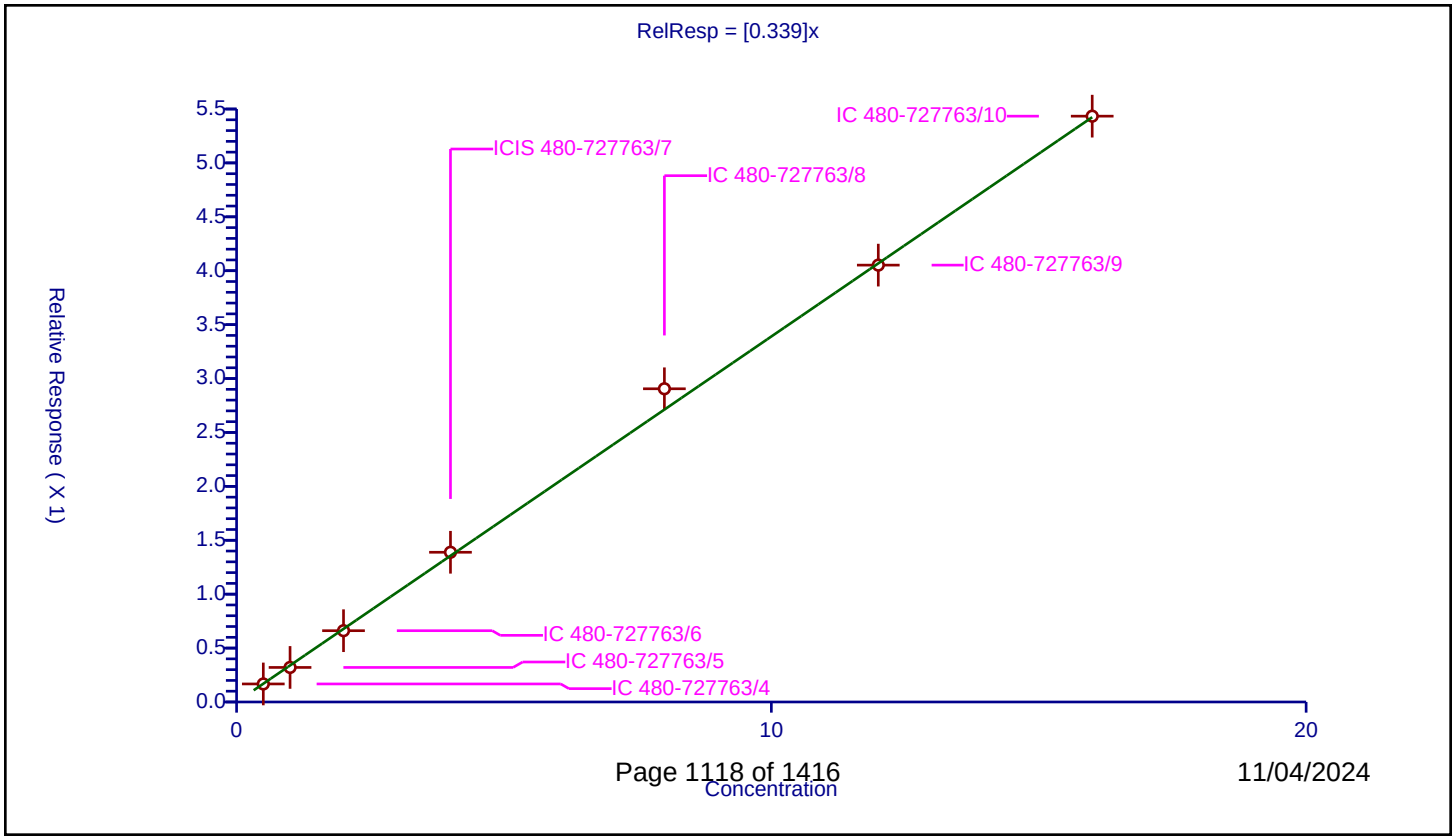
Curve Coefficients

Intercept:	0
Slope:	0.339

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.167243	4.0	737081.0	0.334487	Y
2	IC 480-727763/5	1.0	0.320359	4.0	773570.0	0.320359	Y
3	IC 480-727763/6	2.0	0.661211	4.0	759842.0	0.330606	Y
4	ICIS 480-727763/7	4.0	1.388786	4.0	773798.0	0.347197	Y
5	IC 480-727763/8	8.0	2.905155	4.0	688788.0	0.363144	Y
6	IC 480-727763/9	12.0	4.052097	4.0	738627.0	0.337675	Y
7	IC 480-727763/10	16.0	5.433615	4.0	735514.0	0.339601	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

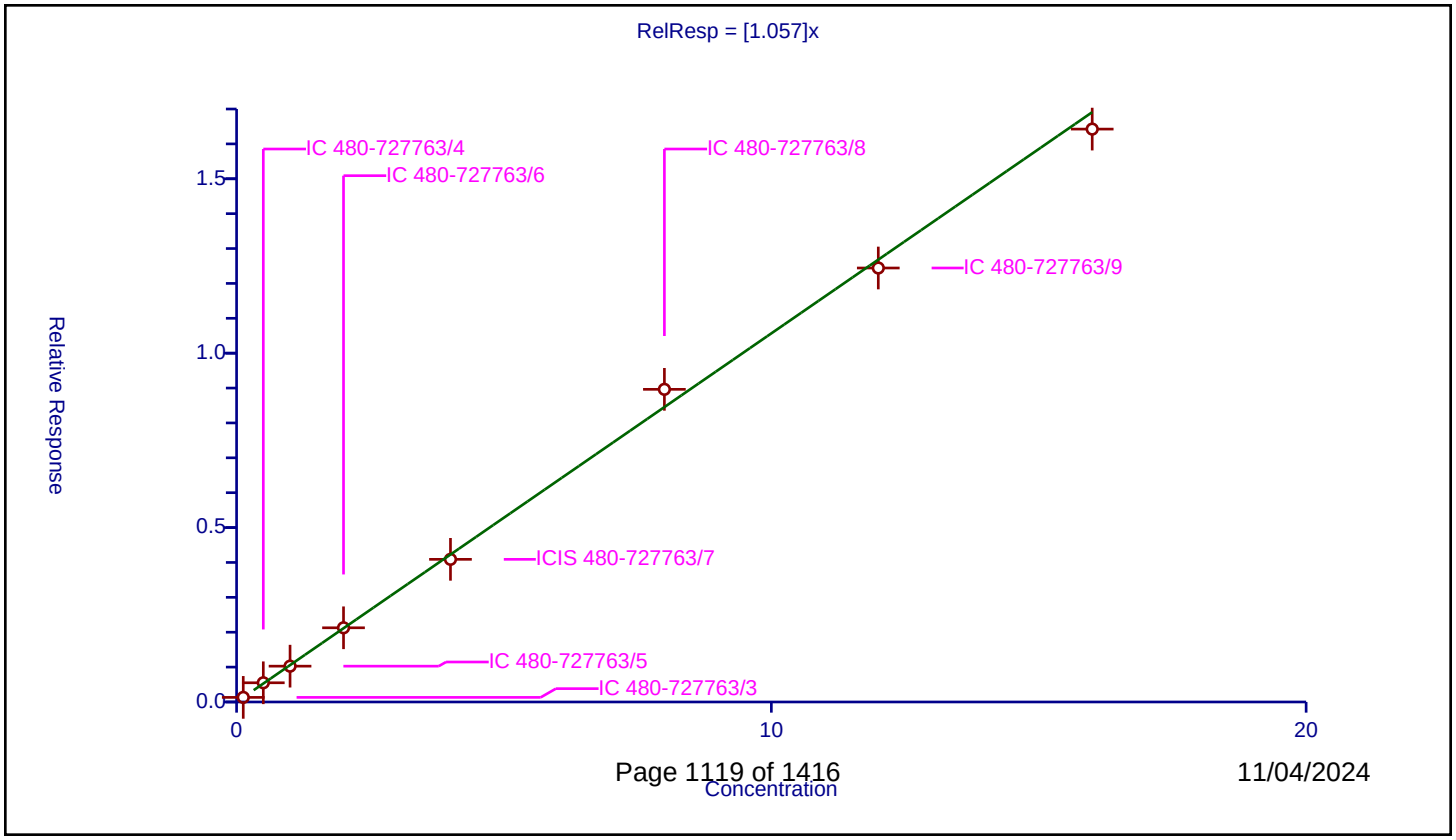
Curve Coefficients

Intercept:	0
Slope:	1.057

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.131924	4.0	729844.0	1.055393	Y
2	IC 480-727763/4	0.5	0.55099	4.0	737081.0	1.101979	Y
3	IC 480-727763/5	1.0	1.027025	4.0	773570.0	1.027025	Y
4	IC 480-727763/6	2.0	2.127479	4.0	759842.0	1.06374	Y
5	ICIS 480-727763/7	4.0	4.08961	4.0	773798.0	1.022402	Y
6	IC 480-727763/8	8.0	8.963368	4.0	688788.0	1.120421	Y
7	IC 480-727763/9	12.0	12.442069	4.0	738627.0	1.036839	Y
8	IC 480-727763/10	16.0	16.424302	4.0	735514.0	1.026519	Y



Calibration / 4-Chloroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

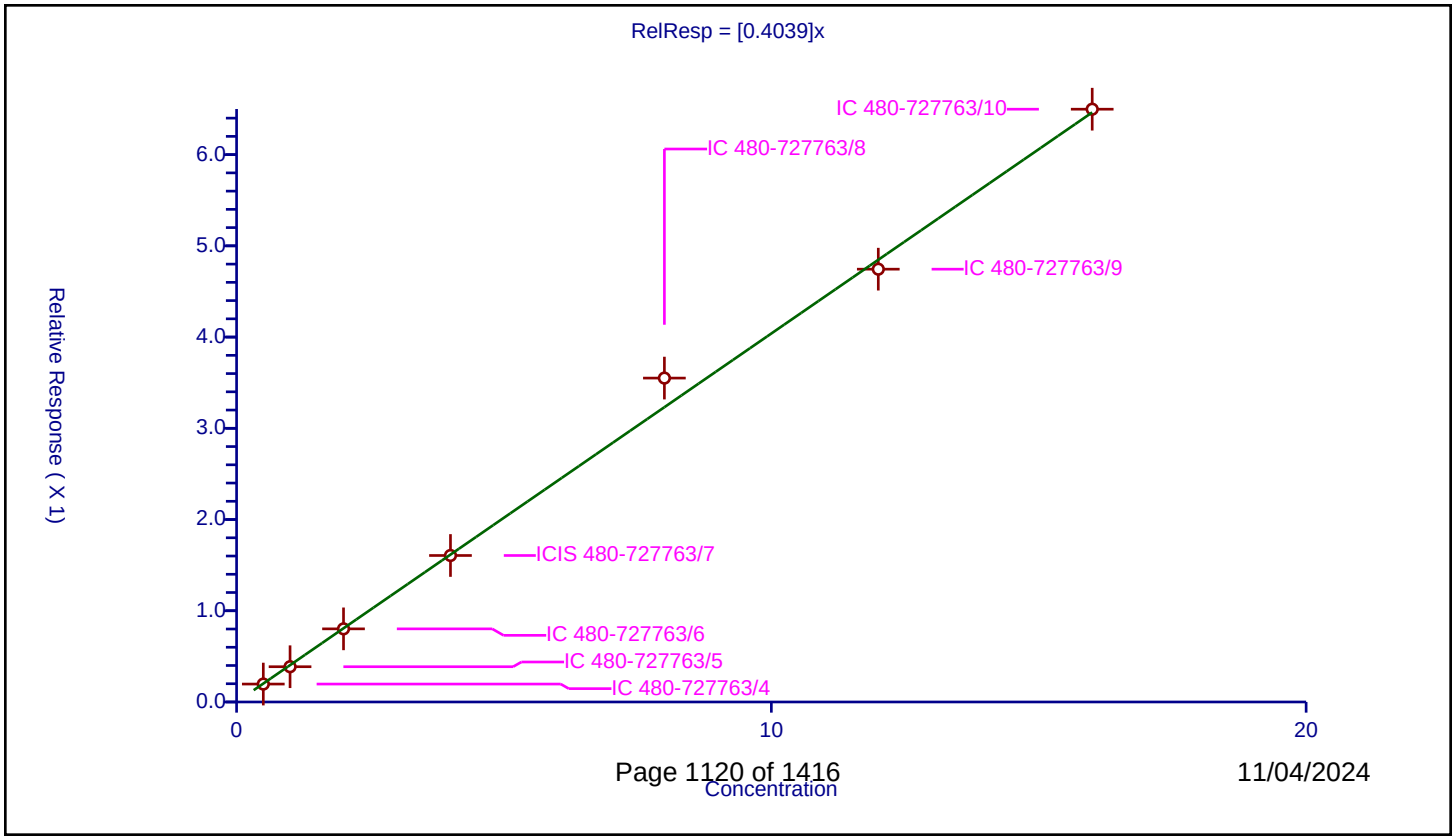
Curve Coefficients

Intercept:	0
Slope:	0.4039

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.196684	4.0	737081.0	0.393368	Y
2	IC 480-727763/5	1.0	0.38652	4.0	773570.0	0.38652	Y
3	IC 480-727763/6	2.0	0.801677	4.0	759842.0	0.400839	Y
4	ICIS 480-727763/7	4.0	1.605949	4.0	773798.0	0.401487	Y
5	IC 480-727763/8	8.0	3.550544	4.0	688788.0	0.443818	Y
6	IC 480-727763/9	12.0	4.744365	4.0	738627.0	0.395364	Y
7	IC 480-727763/10	16.0	6.497937	4.0	735514.0	0.406121	Y



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Calibration / 2,6-Dichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

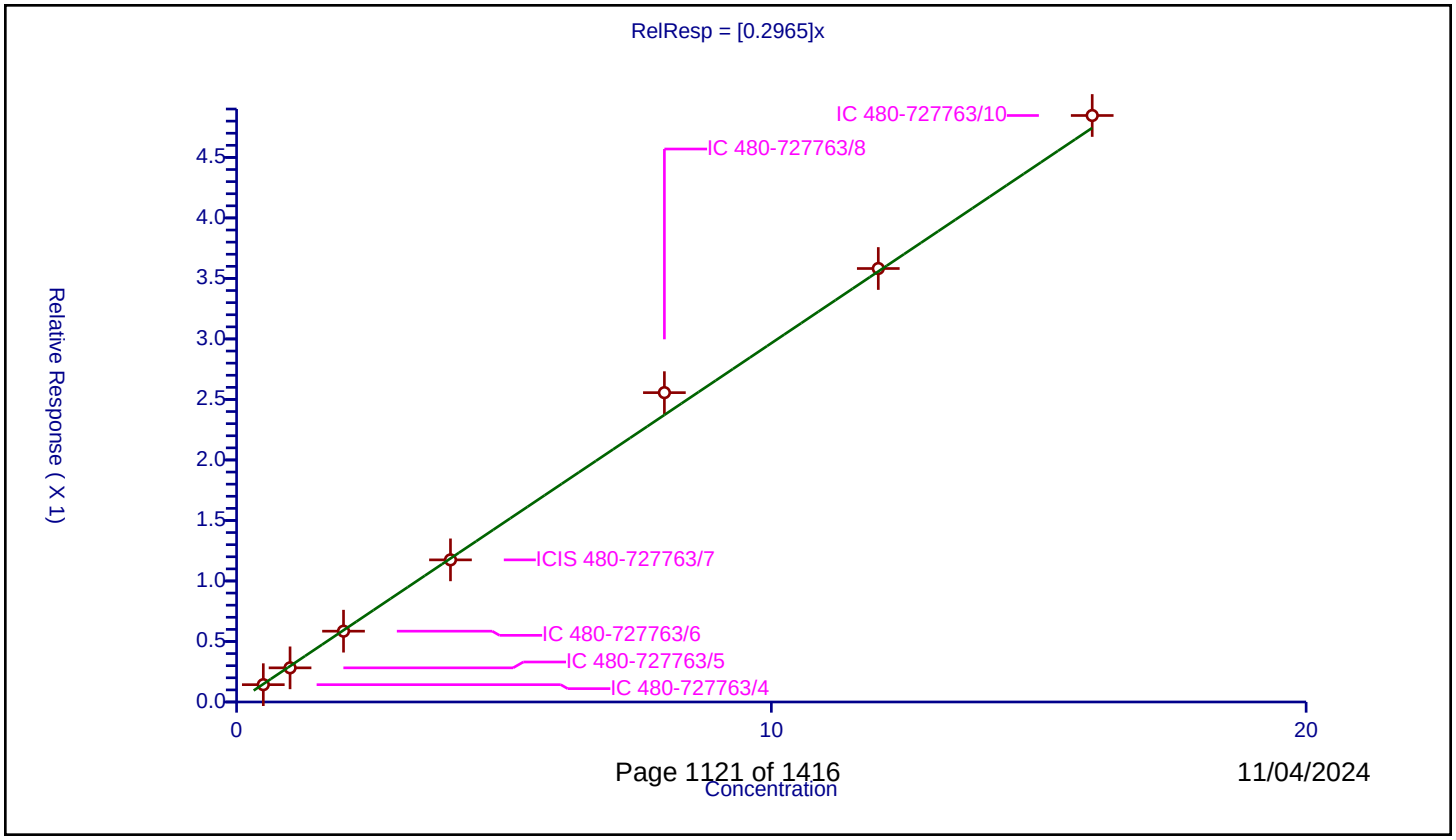
Curve Coefficients

Intercept:	0
Slope:	0.2965

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.14311	4.0	737081.0	0.286221	Y
2	IC 480-727763/5	1.0	0.282126	4.0	773570.0	0.282126	Y
3	IC 480-727763/6	2.0	0.585216	4.0	759842.0	0.292608	Y
4	ICIS 480-727763/7	4.0	1.174317	4.0	773798.0	0.293579	Y
5	IC 480-727763/8	8.0	2.556229	4.0	688788.0	0.319529	Y
6	IC 480-727763/9	12.0	3.582052	4.0	738627.0	0.298504	Y
7	IC 480-727763/10	16.0	4.846428	4.0	735514.0	0.302902	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

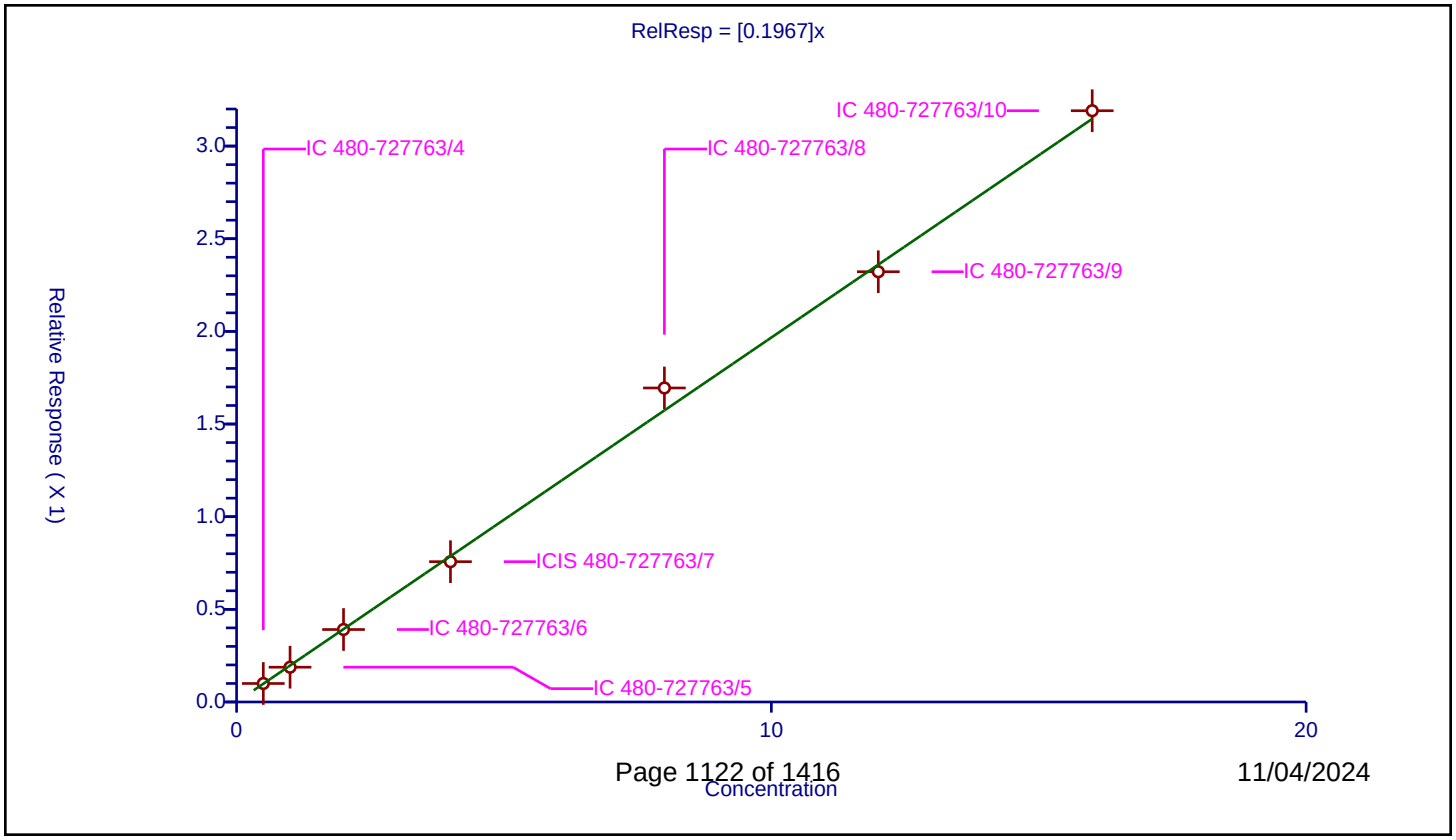
Curve Coefficients

Intercept:	0
Slope:	0.1967

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.099734	4.0	737081.0	0.199468	Y
2	IC 480-727763/5	1.0	0.187722	4.0	773570.0	0.187722	Y
3	IC 480-727763/6	2.0	0.391039	4.0	759842.0	0.19552	Y
4	ICIS 480-727763/7	4.0	0.757154	4.0	773798.0	0.189288	Y
5	IC 480-727763/8	8.0	1.6946	4.0	688788.0	0.211825	Y
6	IC 480-727763/9	12.0	2.32193	4.0	738627.0	0.193494	Y
7	IC 480-727763/10	16.0	3.19083	4.0	735514.0	0.199427	Y



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Calibration / Caprolactam

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

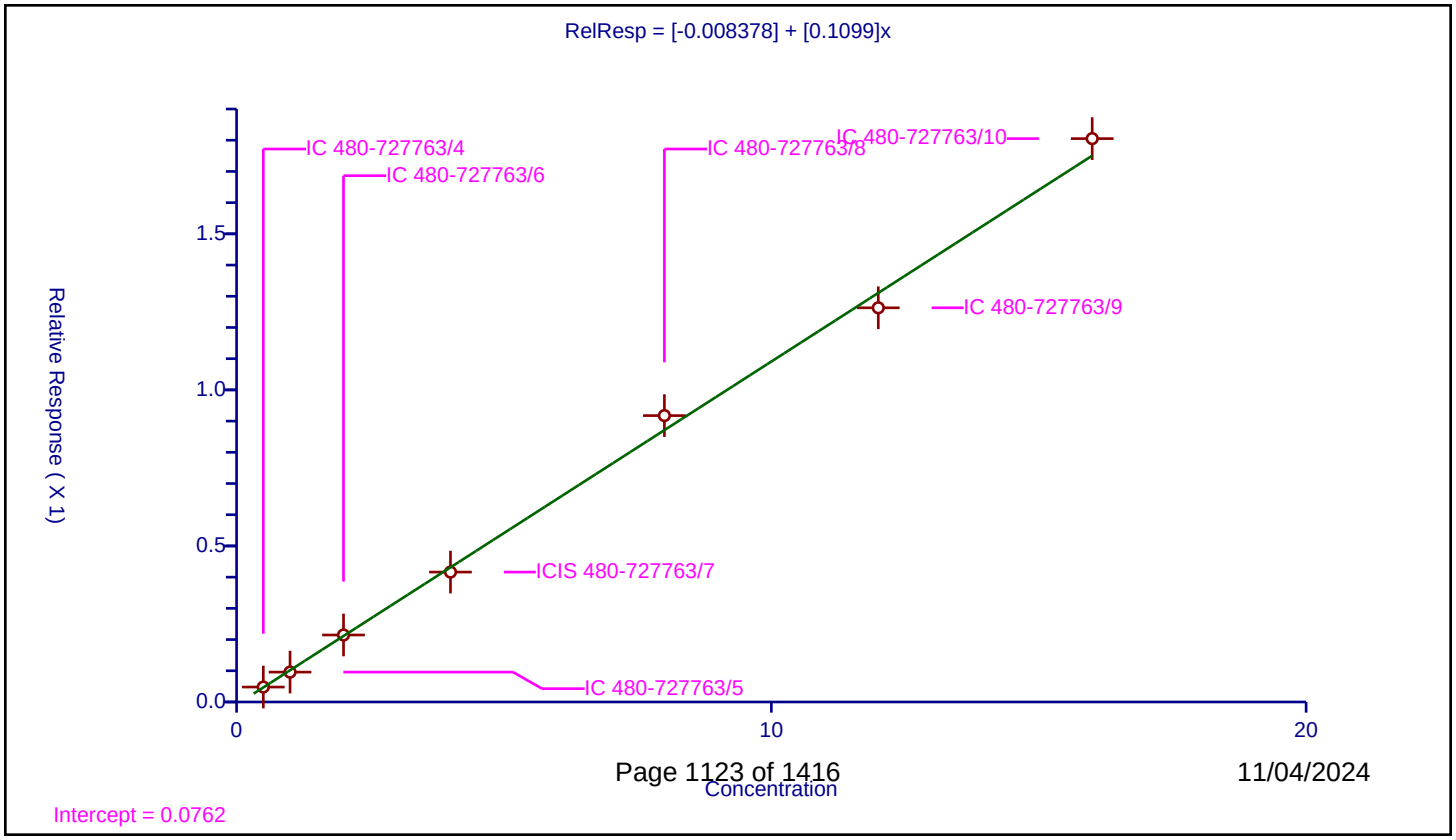
Curve Coefficients

Intercept:	-0.008378
Slope:	0.1099

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.047908	4.0	737081.0	0.095816	Y
2	IC 480-727763/5	1.0	0.095779	4.0	773570.0	0.095779	Y
3	IC 480-727763/6	2.0	0.214713	4.0	759842.0	0.107357	Y
4	ICIS 480-727763/7	4.0	0.416259	4.0	773798.0	0.104065	Y
5	IC 480-727763/8	8.0	0.9176	4.0	688788.0	0.1147	Y
6	IC 480-727763/9	12.0	1.263106	4.0	738627.0	0.105259	Y
7	IC 480-727763/10	16.0	1.805127	4.0	735514.0	0.11282	Y



Calibration / 4-Chloro-3-methylphenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

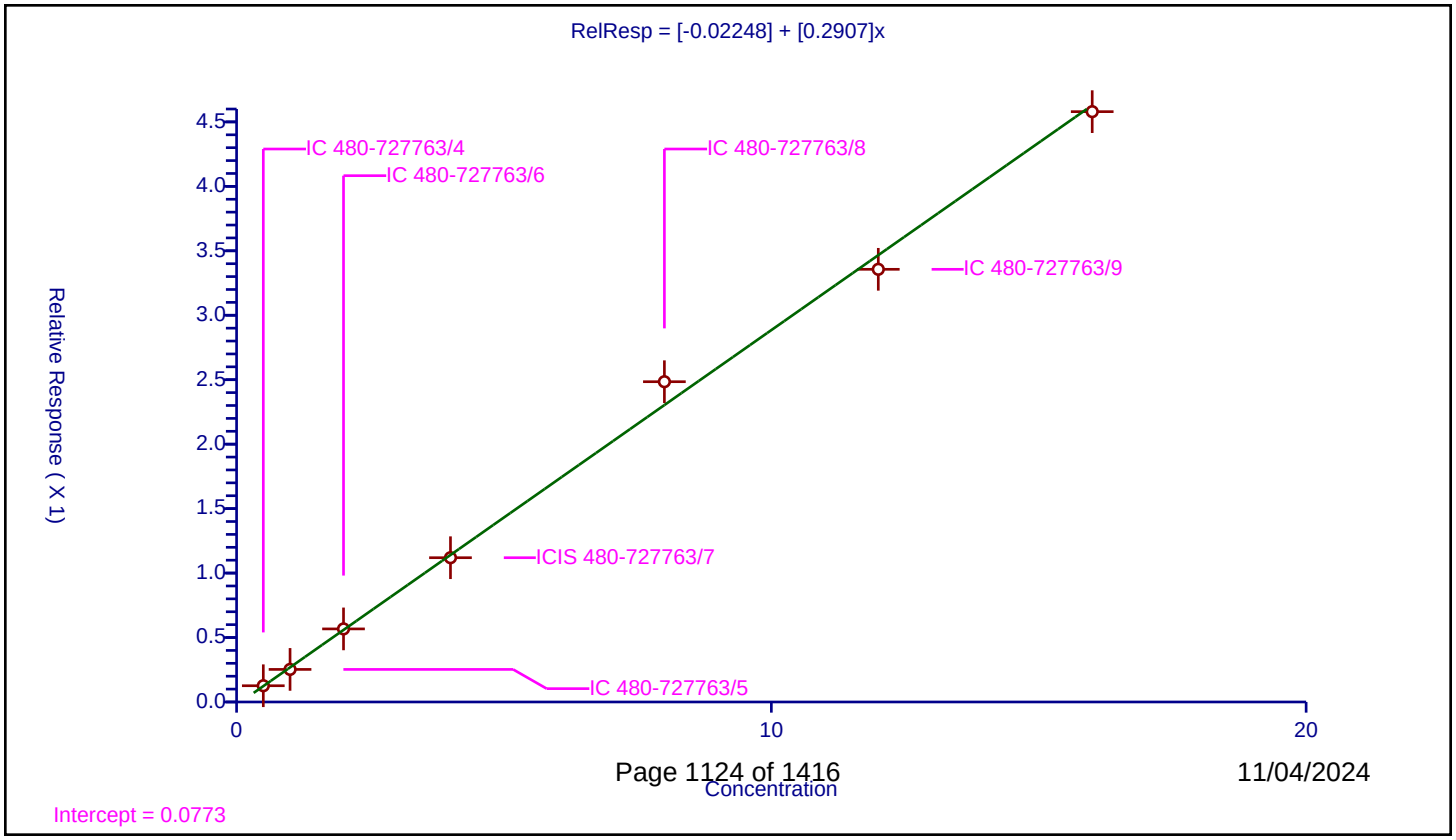
Curve Coefficients

Intercept:	-0.02248
Slope:	0.2907

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.126141	4.0	737081.0	0.252282	Y
2	IC 480-727763/5	1.0	0.252688	4.0	773570.0	0.252688	Y
3	IC 480-727763/6	2.0	0.56696	4.0	759842.0	0.28348	Y
4	ICIS 480-727763/7	4.0	1.11929	4.0	773798.0	0.279822	Y
5	IC 480-727763/8	8.0	2.484521	4.0	688788.0	0.310565	Y
6	IC 480-727763/9	12.0	3.356449	4.0	738627.0	0.279704	Y
7	IC 480-727763/10	16.0	4.579519	4.0	735514.0	0.28622	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

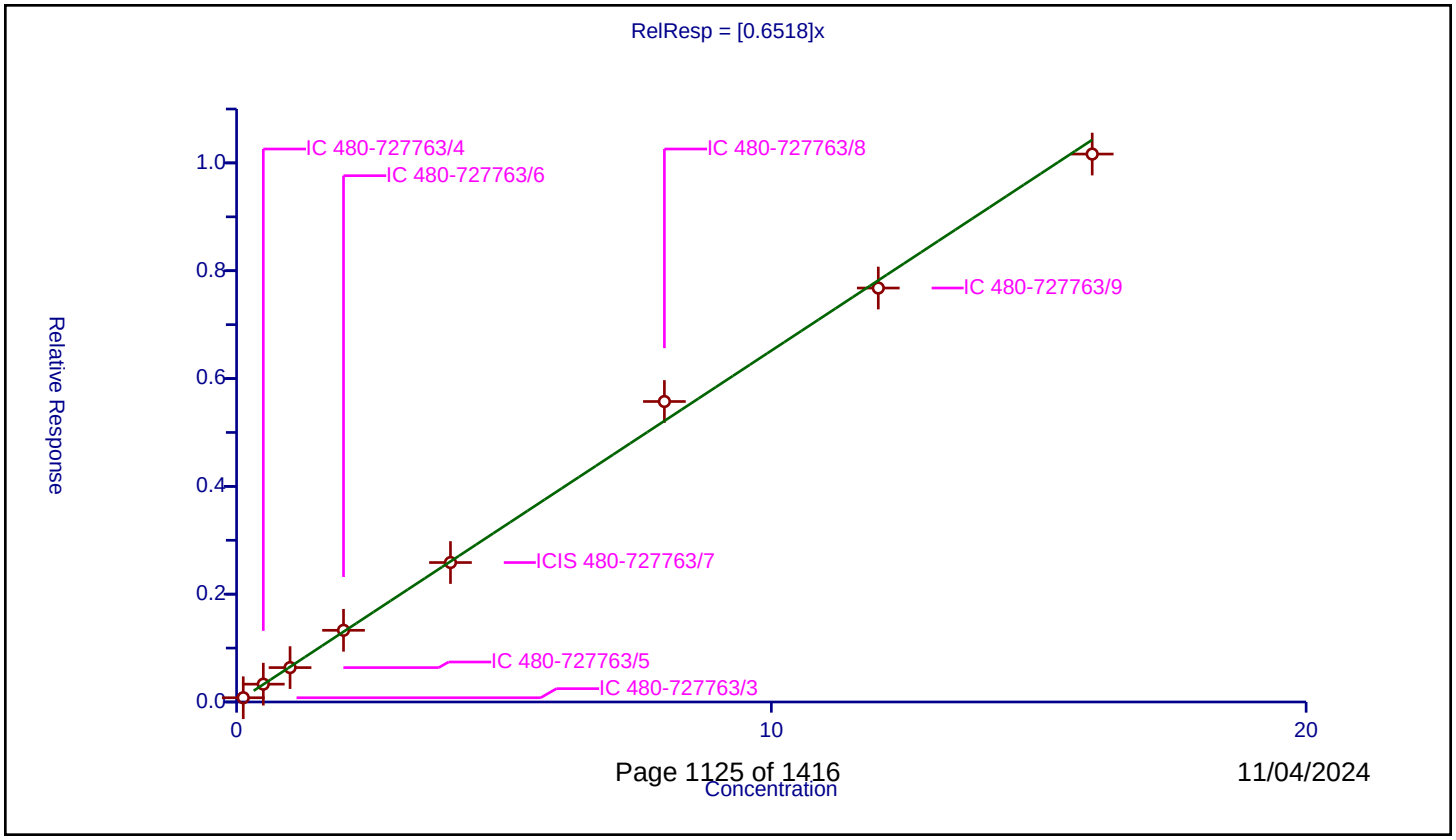
Curve Coefficients

Intercept:	0
Slope:	0.6518

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.078959	4.0	729844.0	0.631675	Y
2	IC 480-727763/4	0.5	0.330531	4.0	737081.0	0.661062	Y
3	IC 480-727763/5	1.0	0.637729	4.0	773570.0	0.637729	Y
4	IC 480-727763/6	2.0	1.330003	4.0	759842.0	0.665001	Y
5	ICIS 480-727763/7	4.0	2.586701	4.0	773798.0	0.646675	Y
6	IC 480-727763/8	8.0	5.57418	4.0	688788.0	0.696772	Y
7	IC 480-727763/9	12.0	7.679178	4.0	738627.0	0.639931	Y
8	IC 480-727763/10	16.0	10.164239	4.0	735514.0	0.635265	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

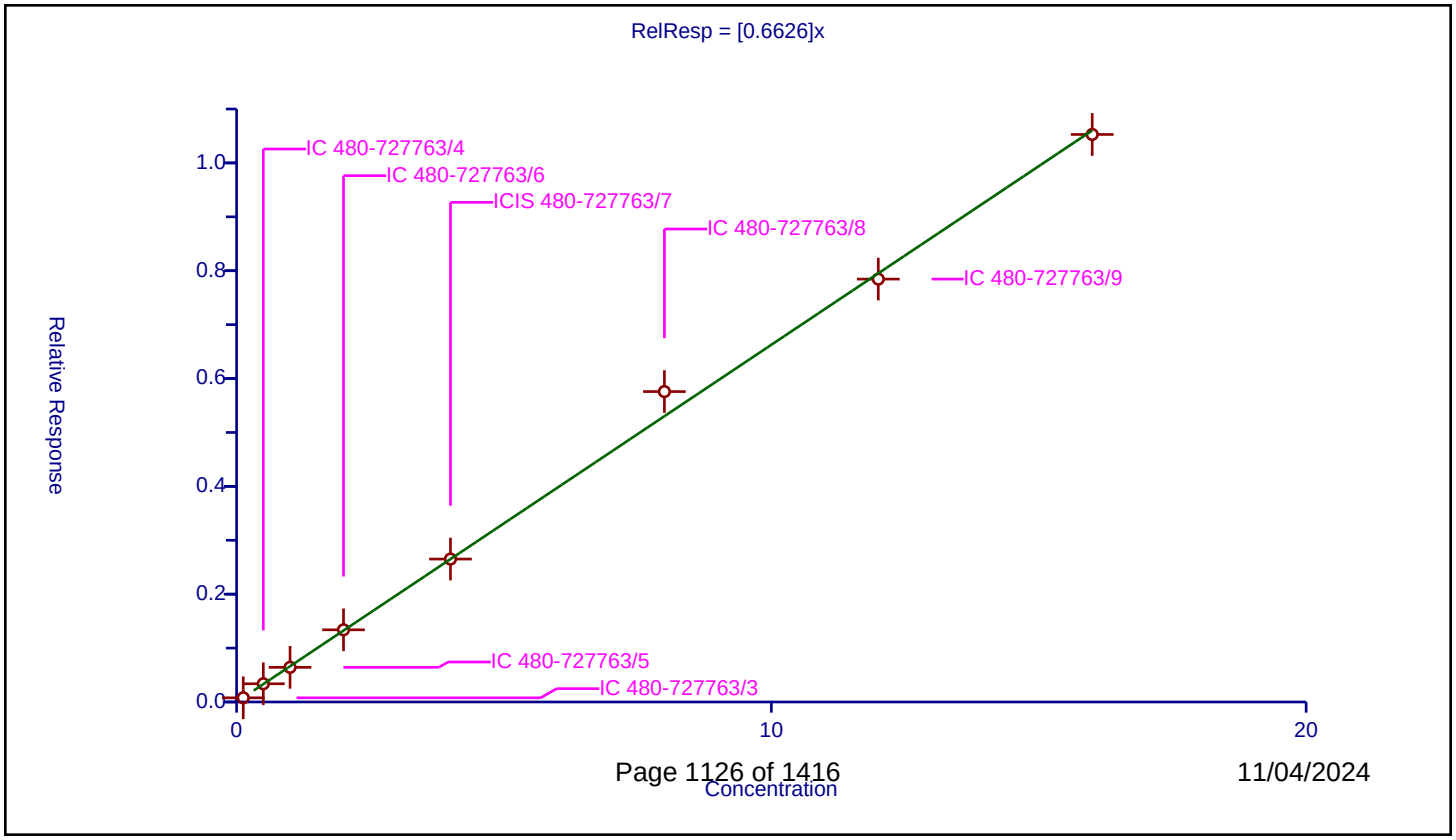
Curve Coefficients

Intercept:	0
Slope:	0.6626

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.077255	4.0	729844.0	0.618039	Y
2	IC 480-727763/4	0.5	0.338101	4.0	737081.0	0.676202	Y
3	IC 480-727763/5	1.0	0.642931	4.0	773570.0	0.642931	Y
4	IC 480-727763/6	2.0	1.338741	4.0	759842.0	0.669371	Y
5	ICIS 480-727763/7	4.0	2.651183	4.0	773798.0	0.662796	Y
6	IC 480-727763/8	8.0	5.758259	4.0	688788.0	0.719782	Y
7	IC 480-727763/9	12.0	7.845048	4.0	738627.0	0.653754	Y
8	IC 480-727763/10	16.0	10.528039	4.0	735514.0	0.658002	Y



Calibration / Hexachlorocyclopentadiene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

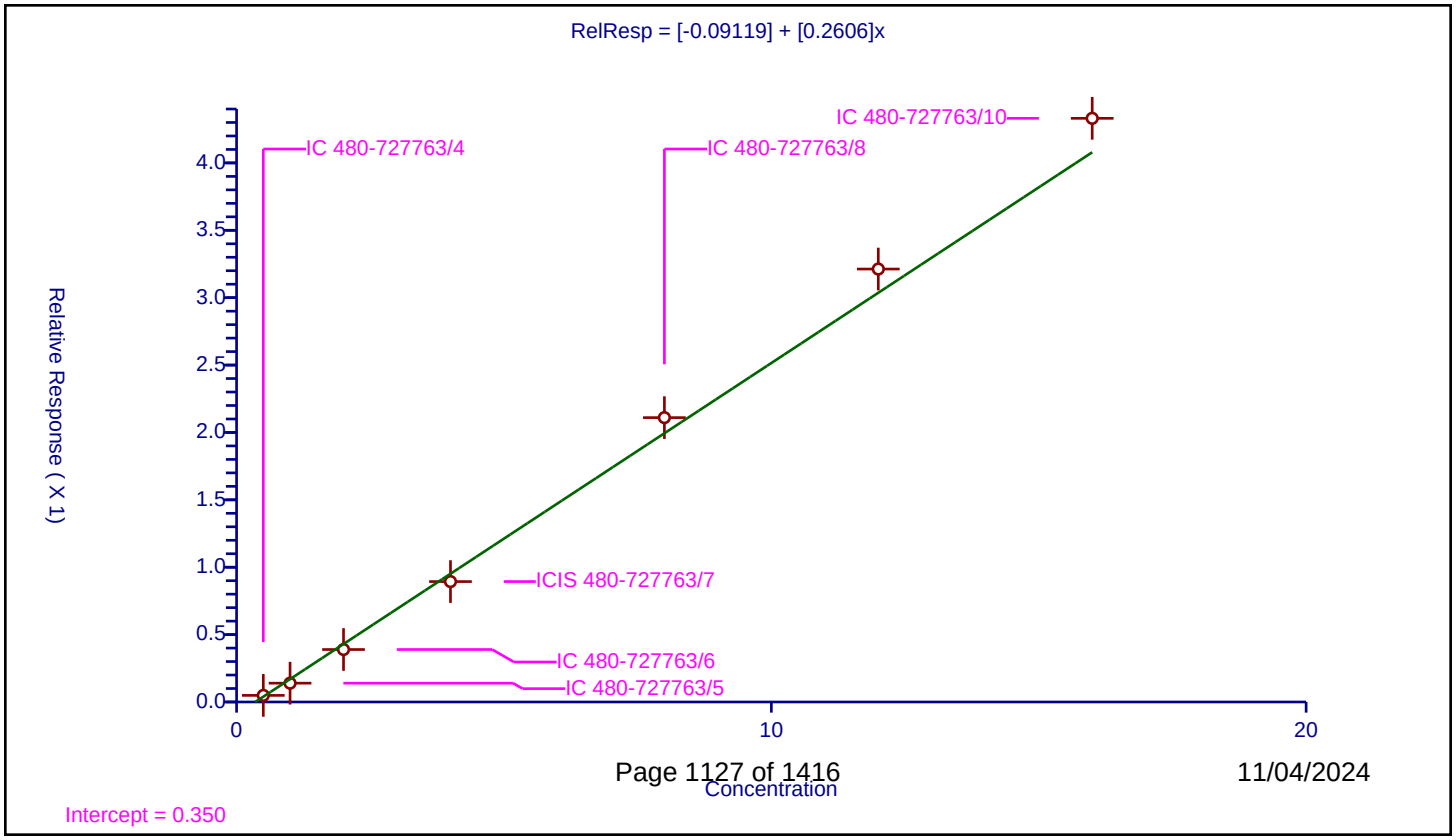
Curve Coefficients

Intercept:	-0.09119
Slope:	0.2606

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.049058	4.0	425703.0	0.098115	Y
2	IC 480-727763/5	1.0	0.139525	4.0	436509.0	0.139525	Y
3	IC 480-727763/6	2.0	0.389257	4.0	440182.0	0.194629	Y
4	ICIS 480-727763/7	4.0	0.893452	4.0	455089.0	0.223363	Y
5	IC 480-727763/8	8.0	2.110106	4.0	415416.0	0.263763	Y
6	IC 480-727763/9	12.0	3.212601	4.0	433234.0	0.267717	Y
7	IC 480-727763/10	16.0	4.330892	4.0	438004.0	0.270681	Y



Calibration / 1,2,4,5-Tetrachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

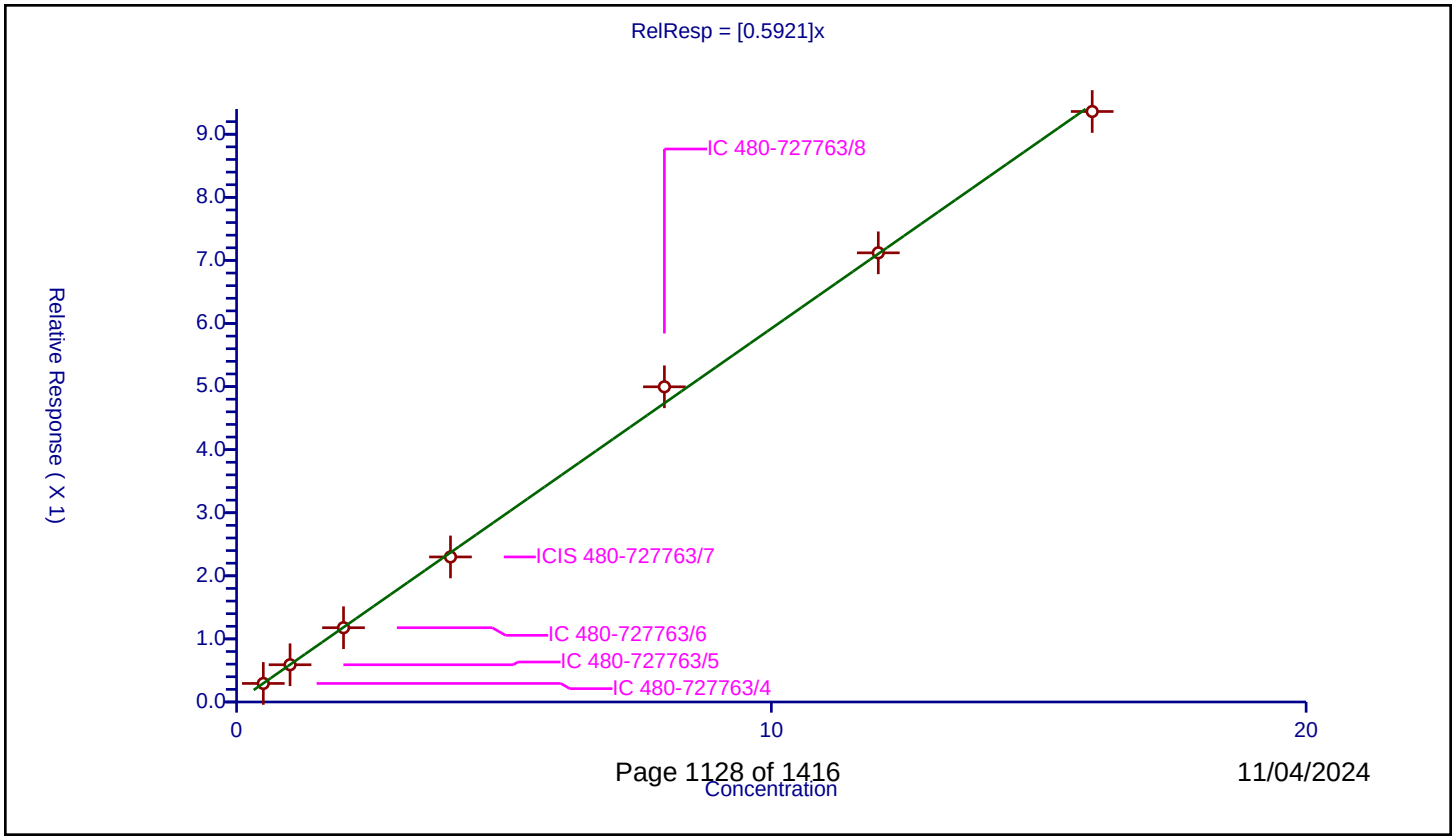
Curve Coefficients

Intercept:	0
Slope:	0.5921

Error Coefficients

Relative Standard Deviation:	2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.293848	4.0	425703.0	0.587696	Y
2	IC 480-727763/5	1.0	0.590192	4.0	436509.0	0.590192	Y
3	IC 480-727763/6	2.0	1.177468	4.0	440182.0	0.588734	Y
4	ICIS 480-727763/7	4.0	2.299339	4.0	455089.0	0.574835	Y
5	IC 480-727763/8	8.0	4.996534	4.0	415416.0	0.624567	Y
6	IC 480-727763/9	12.0	7.120429	4.0	433234.0	0.593369	Y
7	IC 480-727763/10	16.0	9.360599	4.0	438004.0	0.585037	Y



Calibration / 2,4,6-Trichlorophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

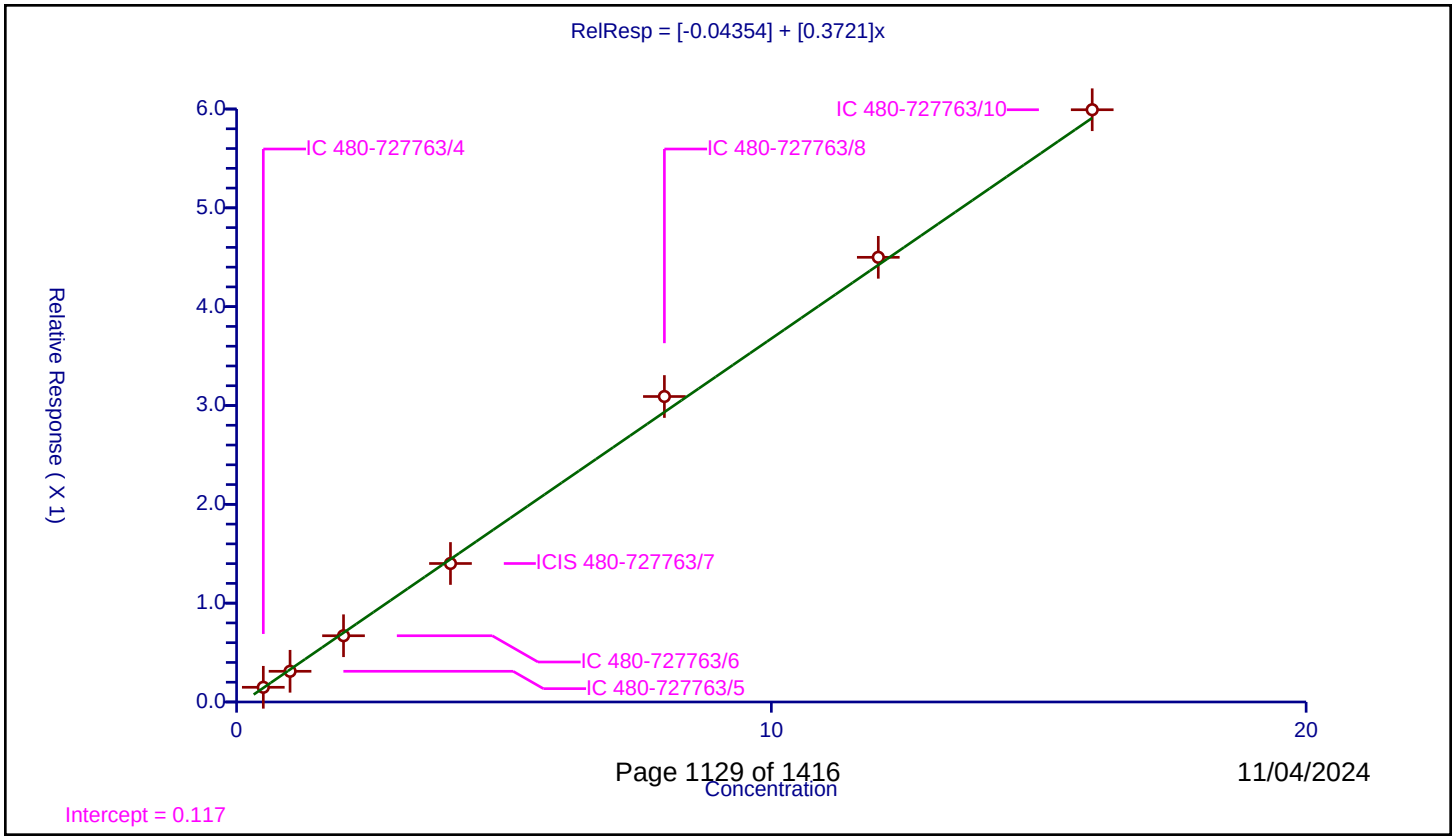
Curve Coefficients

Intercept:	-0.04354
Slope:	0.3721

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.148714	4.0	425703.0	0.297428	Y
2	IC 480-727763/5	1.0	0.310592	4.0	436509.0	0.310592	Y
3	IC 480-727763/6	2.0	0.670423	4.0	440182.0	0.335211	Y
4	ICIS 480-727763/7	4.0	1.401335	4.0	455089.0	0.350334	Y
5	IC 480-727763/8	8.0	3.091022	4.0	415416.0	0.386378	Y
6	IC 480-727763/9	12.0	4.499601	4.0	433234.0	0.374967	Y
7	IC 480-727763/10	16.0	5.992685	4.0	438004.0	0.374543	Y



Calibration / 2,4,5-Trichlorophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

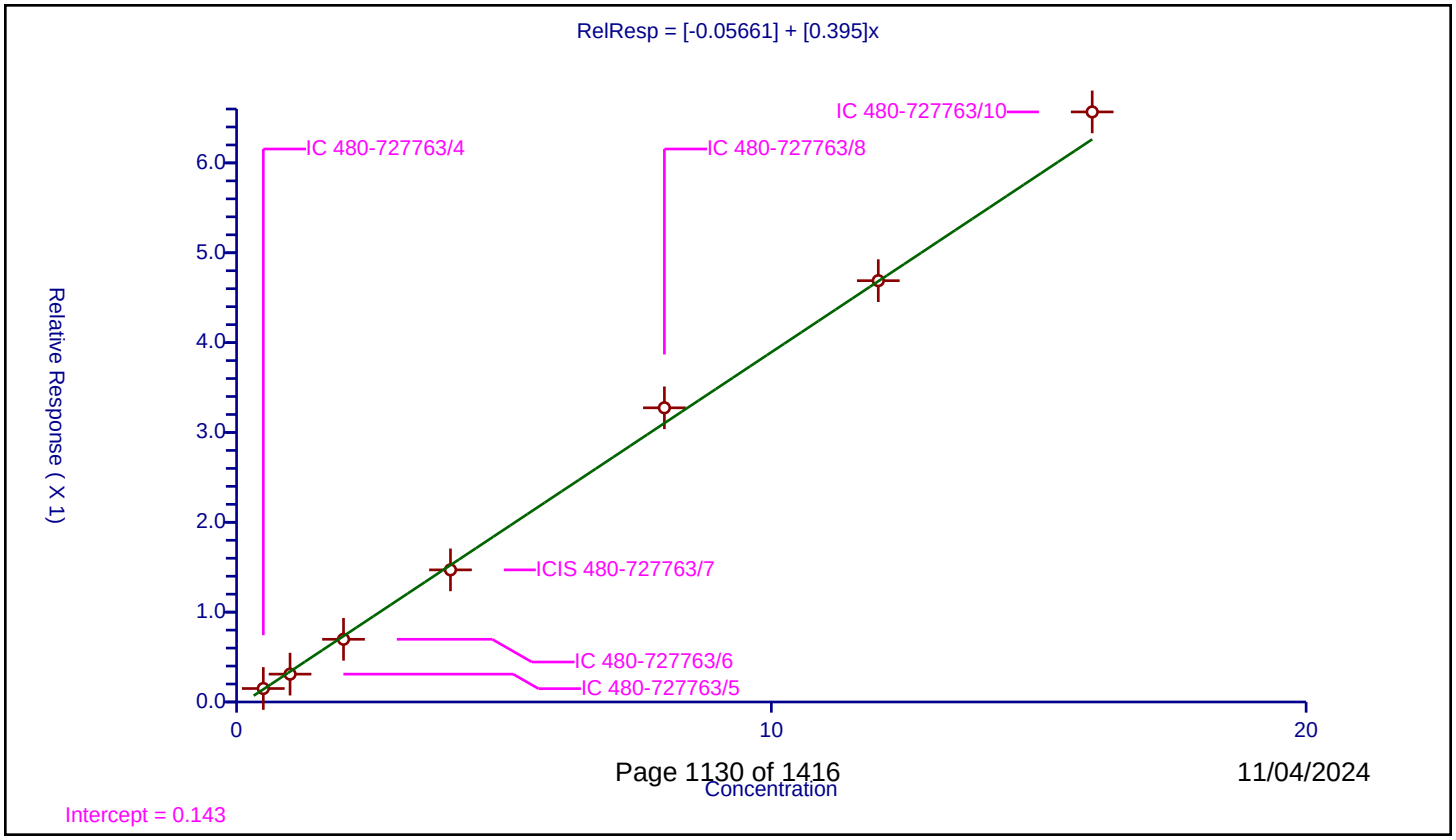
Curve Coefficients

Intercept:	-0.05661
Slope:	0.395

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.150048	4.0	425703.0	0.300097	Y
2	IC 480-727763/5	1.0	0.309904	4.0	436509.0	0.309904	Y
3	IC 480-727763/6	2.0	0.697993	4.0	440182.0	0.348997	Y
4	ICIS 480-727763/7	4.0	1.470596	4.0	455089.0	0.367649	Y
5	IC 480-727763/8	8.0	3.27427	4.0	415416.0	0.409284	Y
6	IC 480-727763/9	12.0	4.689429	4.0	433234.0	0.390786	Y
7	IC 480-727763/10	16.0	6.567529	4.0	438004.0	0.410471	Y



Calibration / 2-Fluorobiphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

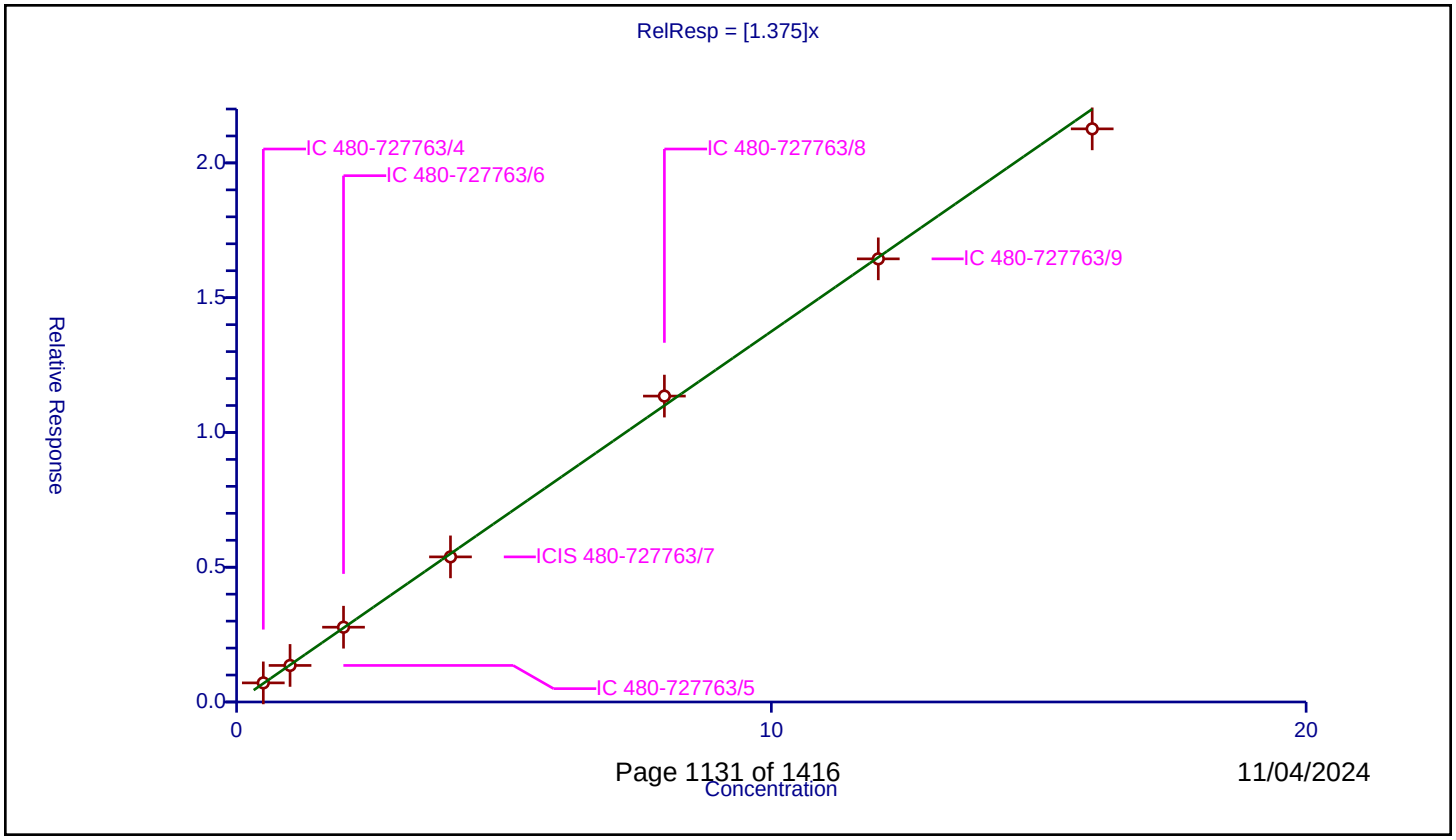
Curve Coefficients

Intercept:	0
Slope:	1.375

Error Coefficients

Relative Standard Deviation:	2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.708503	4.0	425703.0	1.417007	Y
2	IC 480-727763/5	1.0	1.355821	4.0	436509.0	1.355821	Y
3	IC 480-727763/6	2.0	2.774616	4.0	440182.0	1.387308	Y
4	ICIS 480-727763/7	4.0	5.383764	4.0	455089.0	1.345941	Y
5	IC 480-727763/8	8.0	11.349491	4.0	415416.0	1.418686	Y
6	IC 480-727763/9	12.0	16.440686	4.0	433234.0	1.370057	Y
7	IC 480-727763/10	16.0	21.263815	4.0	438004.0	1.328988	Y



Calibration / 1,1'-Biphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

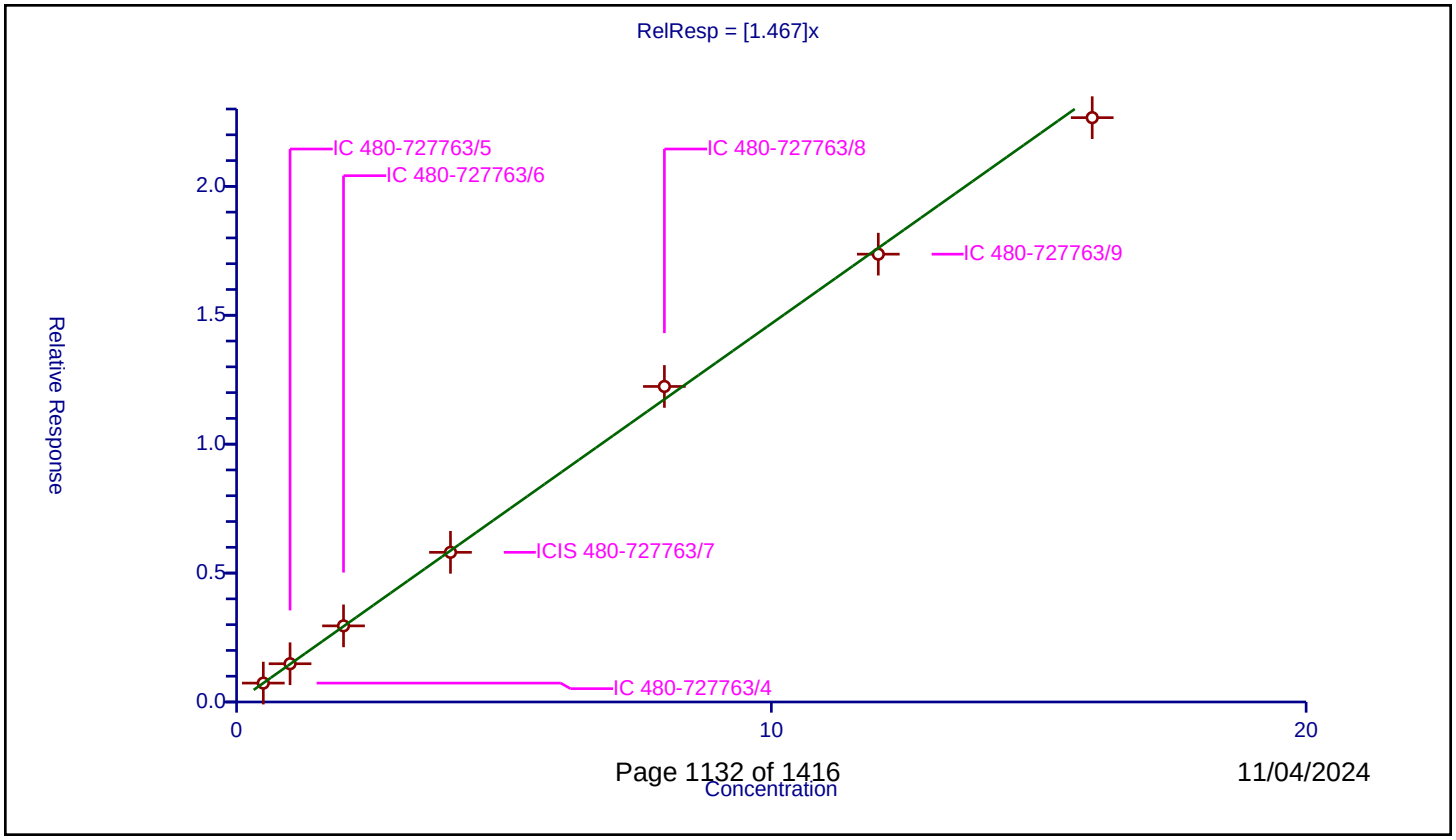
Curve Coefficients

Intercept:	0
Slope:	1.467

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.733234	4.0	425703.0	1.466468	Y
2	IC 480-727763/5	1.0	1.483699	4.0	436509.0	1.483699	Y
3	IC 480-727763/6	2.0	2.952879	4.0	440182.0	1.476439	Y
4	ICIS 480-727763/7	4.0	5.805502	4.0	455089.0	1.451375	Y
5	IC 480-727763/8	8.0	12.238951	4.0	415416.0	1.529869	Y
6	IC 480-727763/9	12.0	17.370206	4.0	433234.0	1.447517	Y
7	IC 480-727763/10	16.0	22.664871	4.0	438004.0	1.416554	Y



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Calibration / 2-Chloronaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

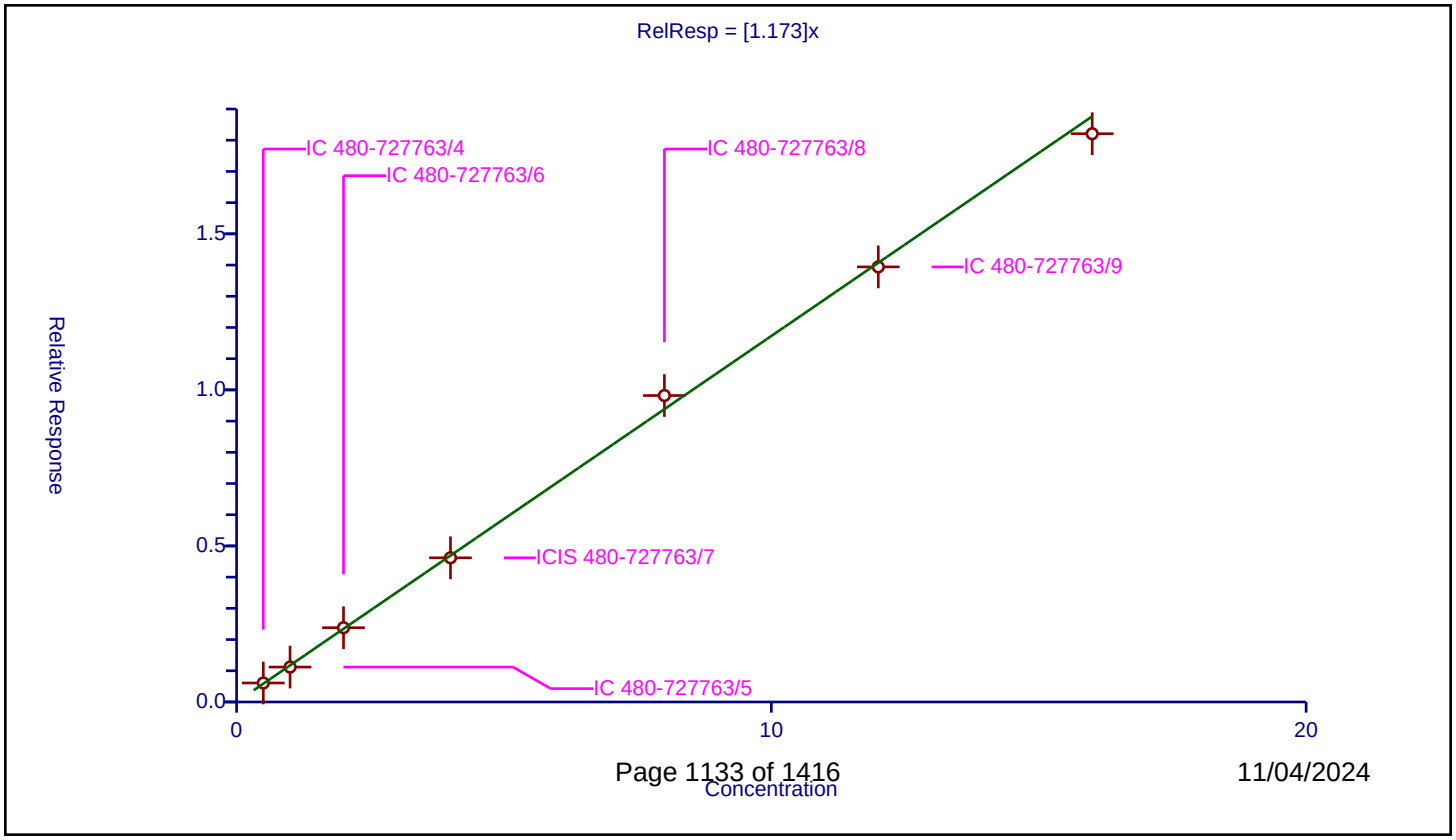
Curve Coefficients

Intercept:	0
Slope:	1.173

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.609035	4.0	425703.0	1.21807	Y
2	IC 480-727763/5	1.0	1.118951	4.0	436509.0	1.118951	Y
3	IC 480-727763/6	2.0	2.379752	4.0	440182.0	1.189876	Y
4	ICIS 480-727763/7	4.0	4.620028	4.0	455089.0	1.155007	Y
5	IC 480-727763/8	8.0	9.819766	4.0	415416.0	1.227471	Y
6	IC 480-727763/9	12.0	13.940965	4.0	433234.0	1.161747	Y
7	IC 480-727763/10	16.0	18.209131	4.0	438004.0	1.138071	Y



Calibration / 2-Nitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

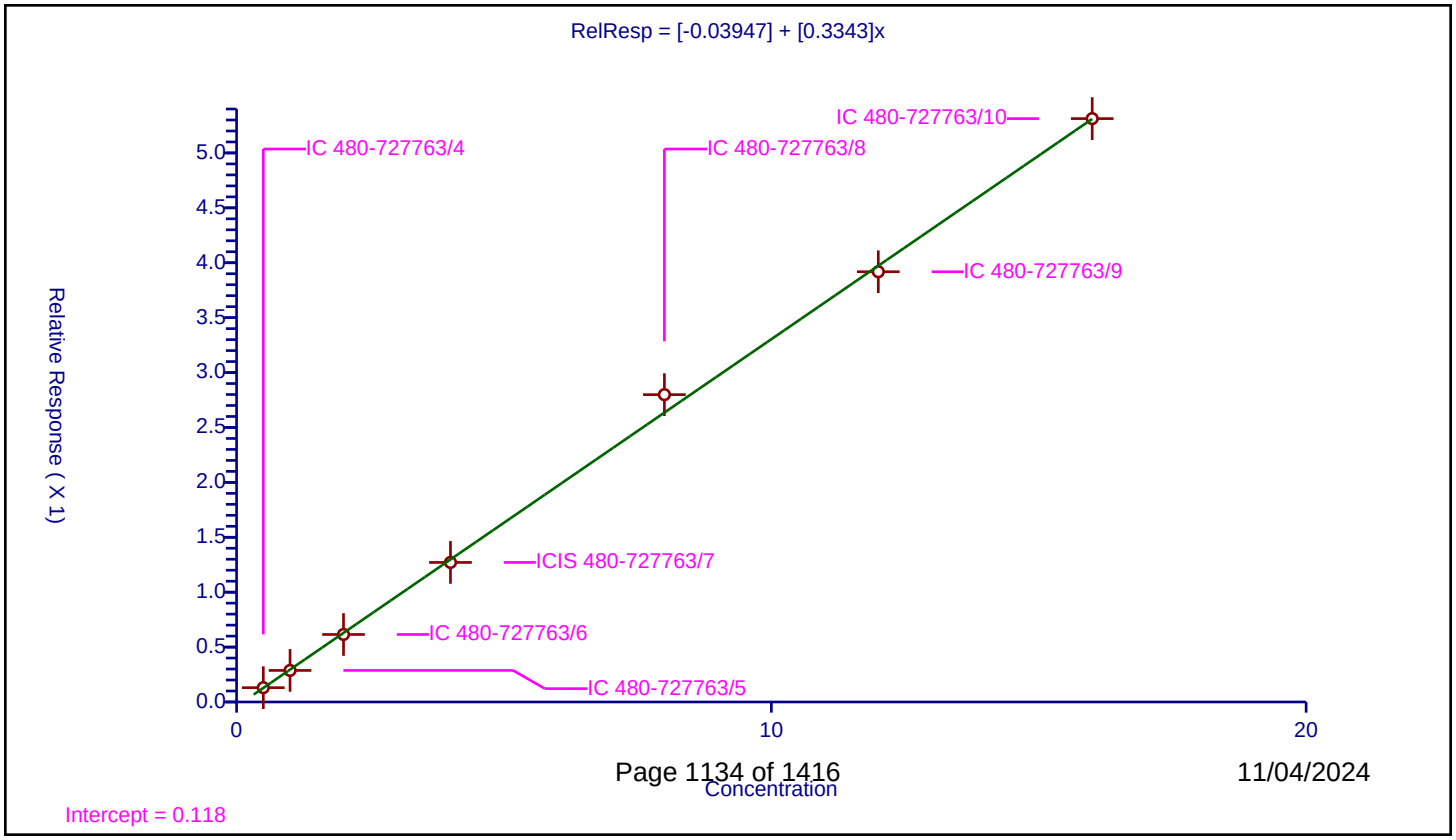
Curve Coefficients

Intercept:	-0.03947
Slope:	0.3343

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.130344	4.0	425703.0	0.260689	Y
2	IC 480-727763/5	1.0	0.287298	4.0	436509.0	0.287298	Y
3	IC 480-727763/6	2.0	0.614809	4.0	440182.0	0.307405	Y
4	ICIS 480-727763/7	4.0	1.270925	4.0	455089.0	0.317731	Y
5	IC 480-727763/8	8.0	2.798843	4.0	415416.0	0.349855	Y
6	IC 480-727763/9	12.0	3.918252	4.0	433234.0	0.326521	Y
7	IC 480-727763/10	16.0	5.312646	4.0	438004.0	0.33204	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

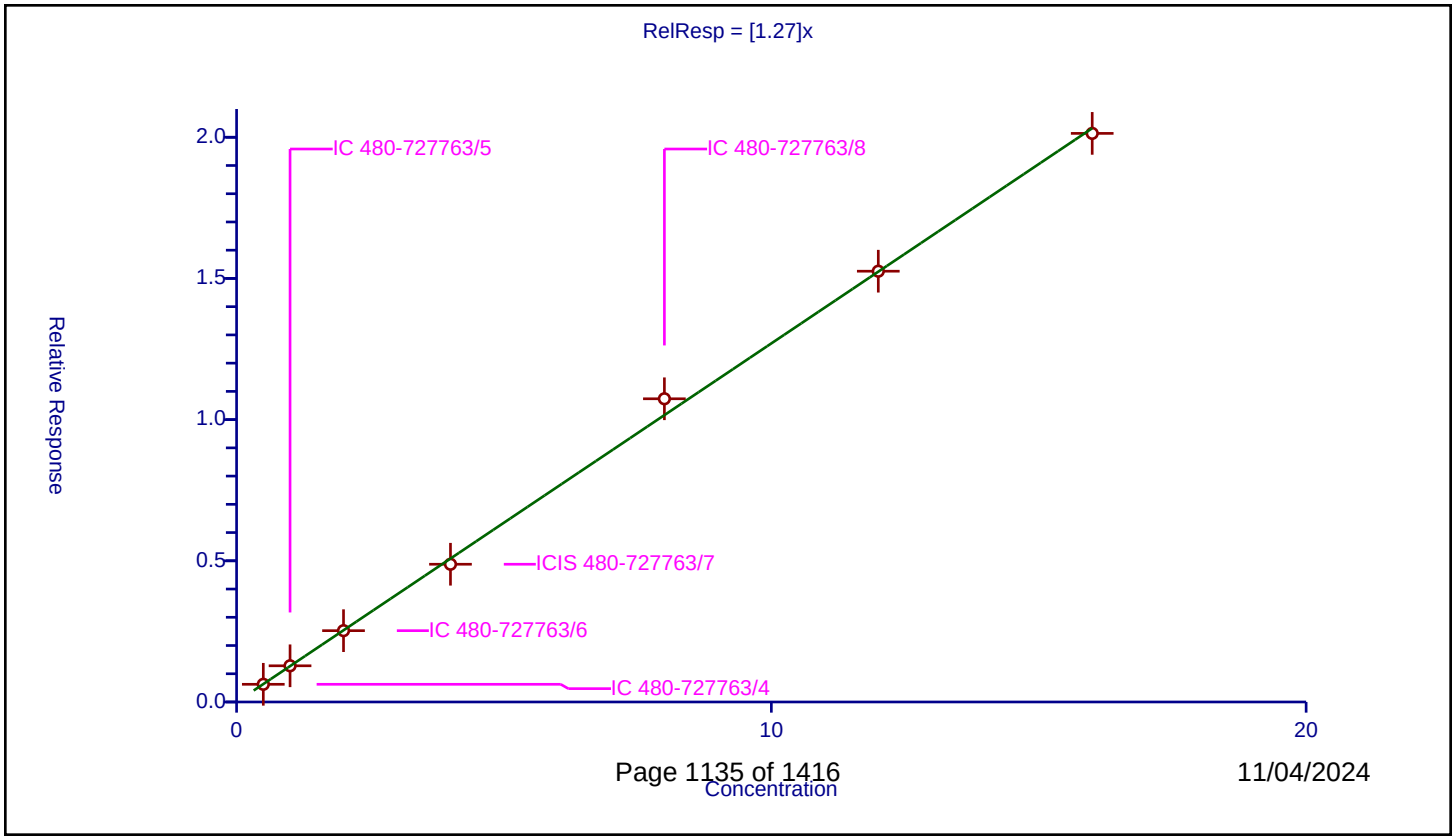
Curve Coefficients

Intercept:	0
Slope:	1.27

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.626174	4.0	425703.0	1.252347	Y
2	IC 480-727763/5	1.0	1.282338	4.0	436509.0	1.282338	Y
3	IC 480-727763/6	2.0	2.525801	4.0	440182.0	1.2629	Y
4	ICIS 480-727763/7	4.0	4.878536	4.0	455089.0	1.219634	Y
5	IC 480-727763/8	8.0	10.738306	4.0	415416.0	1.342288	Y
6	IC 480-727763/9	12.0	15.255913	4.0	433234.0	1.271326	Y
7	IC 480-727763/10	16.0	20.137104	4.0	438004.0	1.258569	Y



Calibration / 1,3-Dinitrobenzene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

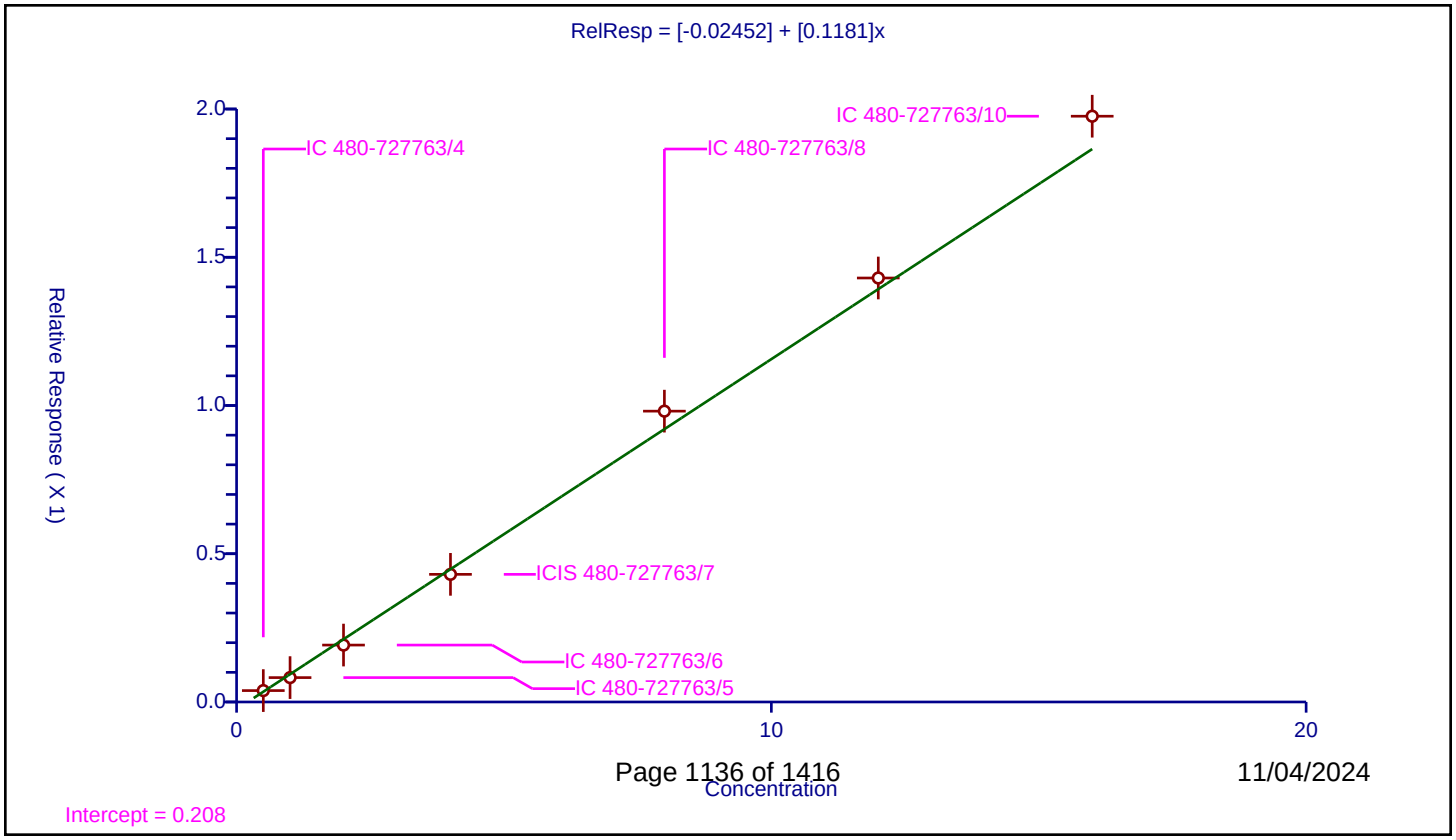
Curve Coefficients

Intercept:	-0.02452
Slope:	0.1181

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.038449	4.0	737081.0	0.076898	Y
2	IC 480-727763/5	1.0	0.082242	4.0	773570.0	0.082242	Y
3	IC 480-727763/6	2.0	0.191956	4.0	759842.0	0.095978	Y
4	ICIS 480-727763/7	4.0	0.430531	4.0	773798.0	0.107633	Y
5	IC 480-727763/8	8.0	0.980999	4.0	688788.0	0.122625	Y
6	IC 480-727763/9	12.0	1.430064	4.0	738627.0	0.119172	Y
7	IC 480-727763/10	16.0	1.97575	4.0	735514.0	0.123484	Y



Calibration / 2,6-Dinitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

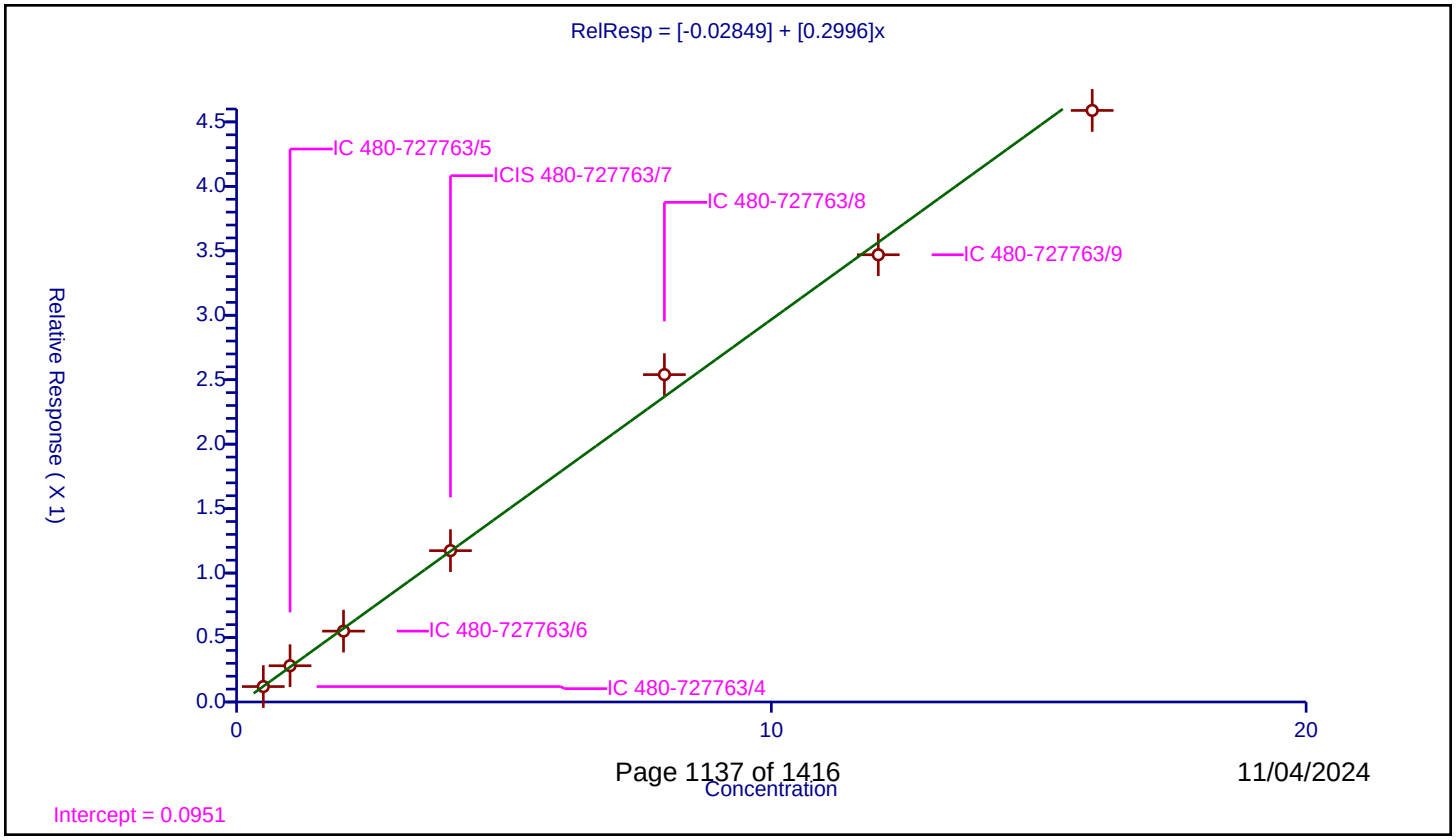
Curve Coefficients

Intercept:	-0.02849
Slope:	0.2996

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.119633	4.0	425703.0	0.239265	Y
2	IC 480-727763/5	1.0	0.281332	4.0	436509.0	0.281332	Y
3	IC 480-727763/6	2.0	0.5497	4.0	440182.0	0.27485	Y
4	ICIS 480-727763/7	4.0	1.17417	4.0	455089.0	0.293543	Y
5	IC 480-727763/8	8.0	2.539671	4.0	415416.0	0.317459	Y
6	IC 480-727763/9	12.0	3.46946	4.0	433234.0	0.289122	Y
7	IC 480-727763/10	16.0	4.588999	4.0	438004.0	0.286812	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

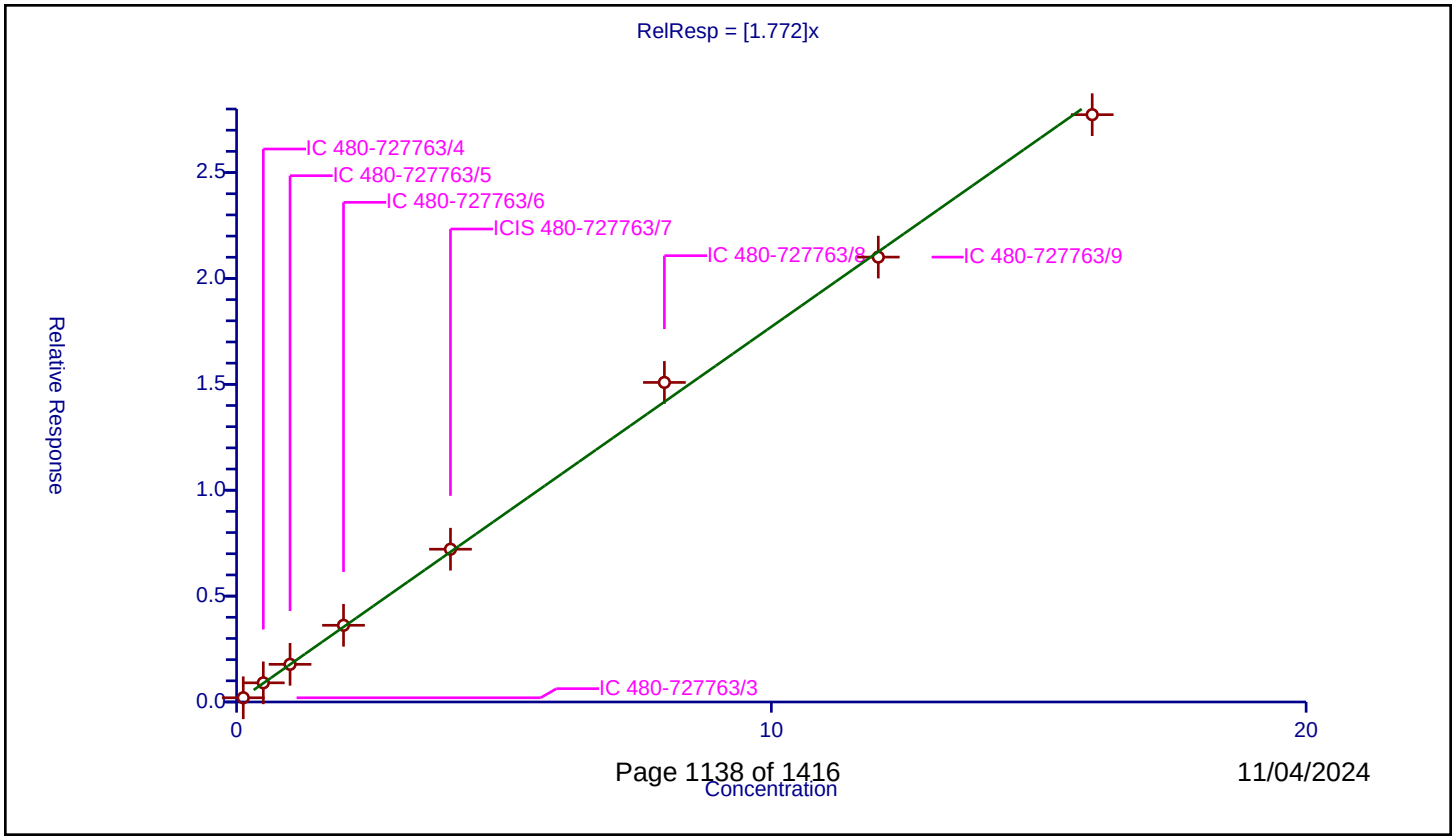
Curve Coefficients

Intercept:	0
Slope:	1.772

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.200167	4.0	425685.0	1.601334	Y
2	IC 480-727763/4	0.5	0.904603	4.0	425703.0	1.809205	Y
3	IC 480-727763/5	1.0	1.778309	4.0	436509.0	1.778309	Y
4	IC 480-727763/6	2.0	3.621593	4.0	440182.0	1.810796	Y
5	ICIS 480-727763/7	4.0	7.214387	4.0	455089.0	1.803597	Y
6	IC 480-727763/8	8.0	15.089944	4.0	415416.0	1.886243	Y
7	IC 480-727763/9	12.0	21.007723	4.0	433234.0	1.750644	Y
8	IC 480-727763/10	16.0	27.732678	4.0	438004.0	1.733292	Y



Calibration / 3-Nitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

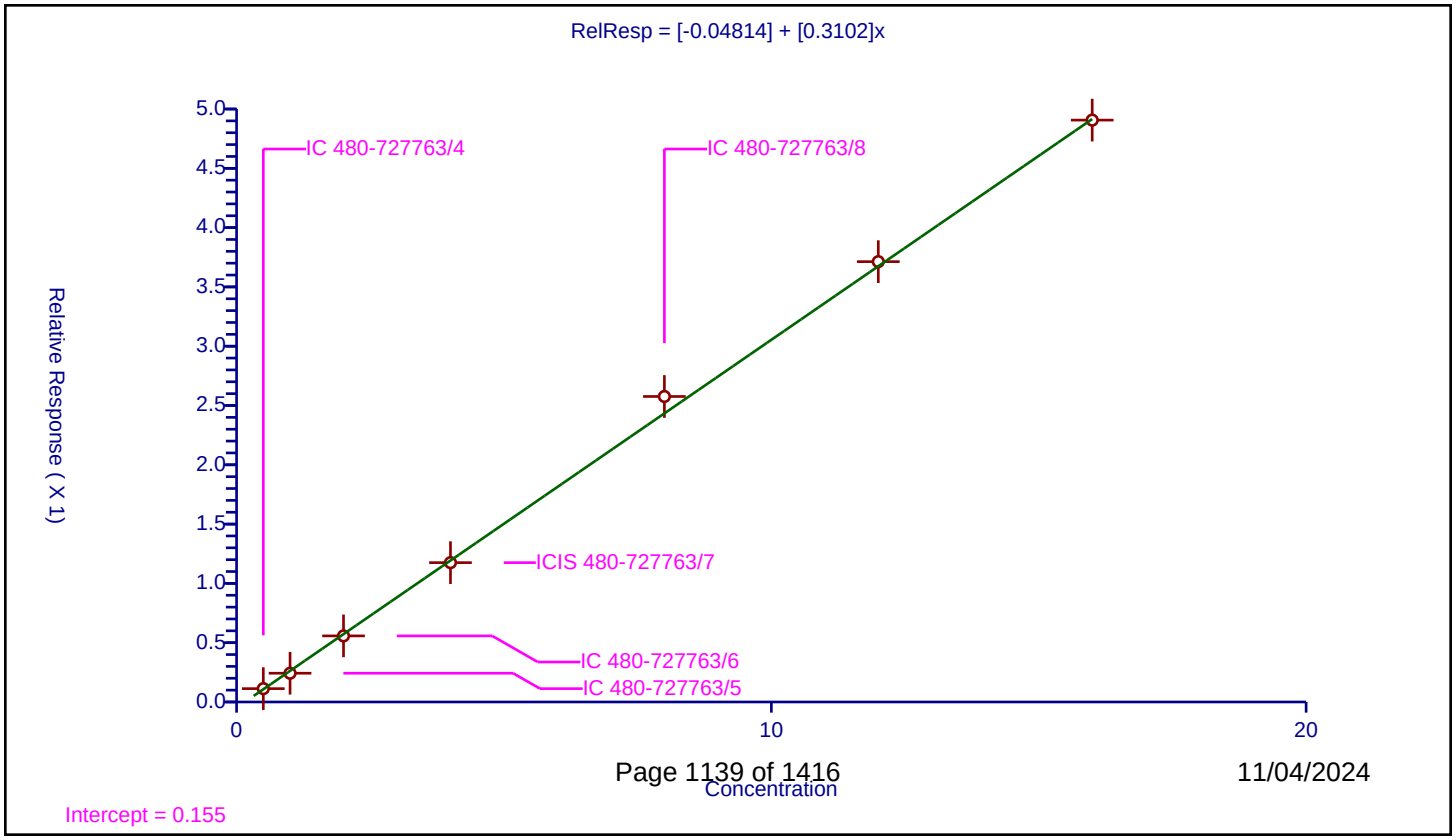
Curve Coefficients

Intercept:	-0.04814
Slope:	0.3102

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.112454	4.0	425703.0	0.224908	Y
2	IC 480-727763/5	1.0	0.24246	4.0	436509.0	0.24246	Y
3	IC 480-727763/6	2.0	0.557315	4.0	440182.0	0.278657	Y
4	ICIS 480-727763/7	4.0	1.174997	4.0	455089.0	0.293749	Y
5	IC 480-727763/8	8.0	2.57602	4.0	415416.0	0.322003	Y
6	IC 480-727763/9	12.0	3.712959	4.0	433234.0	0.309413	Y
7	IC 480-727763/10	16.0	4.906567	4.0	438004.0	0.30666	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

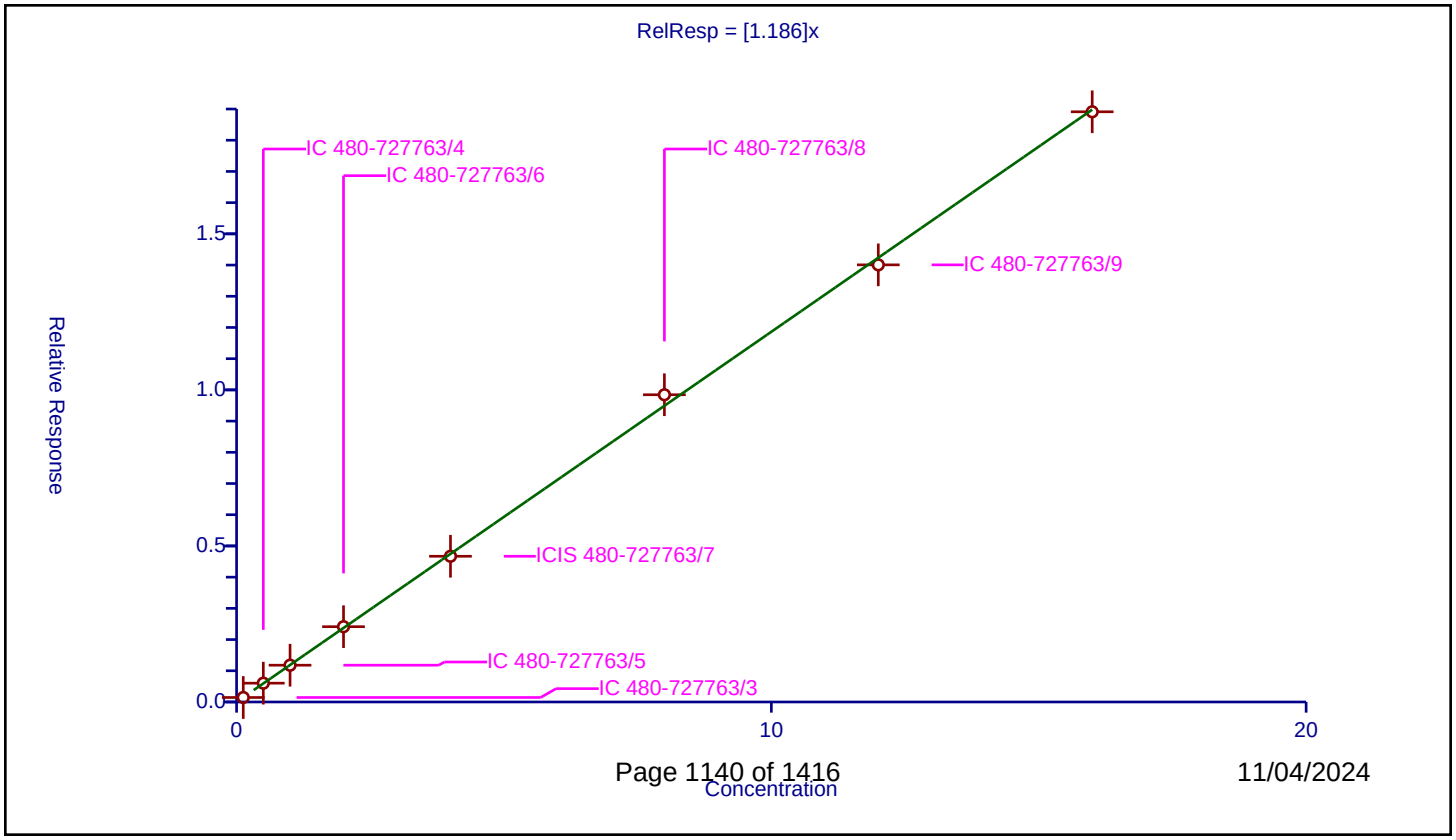
Curve Coefficients

Intercept:	0
Slope:	1.186

Error Coefficients

Relative Standard Deviation:	2.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.144116	4.0	425685.0	1.152928	Y
2	IC 480-727763/4	0.5	0.602542	4.0	425703.0	1.205084	Y
3	IC 480-727763/5	1.0	1.178432	4.0	436509.0	1.178432	Y
4	IC 480-727763/6	2.0	2.412793	4.0	440182.0	1.206396	Y
5	ICIS 480-727763/7	4.0	4.669364	4.0	455089.0	1.167341	Y
6	IC 480-727763/8	8.0	9.844763	4.0	415416.0	1.230595	Y
7	IC 480-727763/9	12.0	14.006426	4.0	433234.0	1.167202	Y
8	IC 480-727763/10	16.0	18.910786	4.0	438004.0	1.181924	Y



11/04/2024

Calibration / 2,4-Dinitrophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

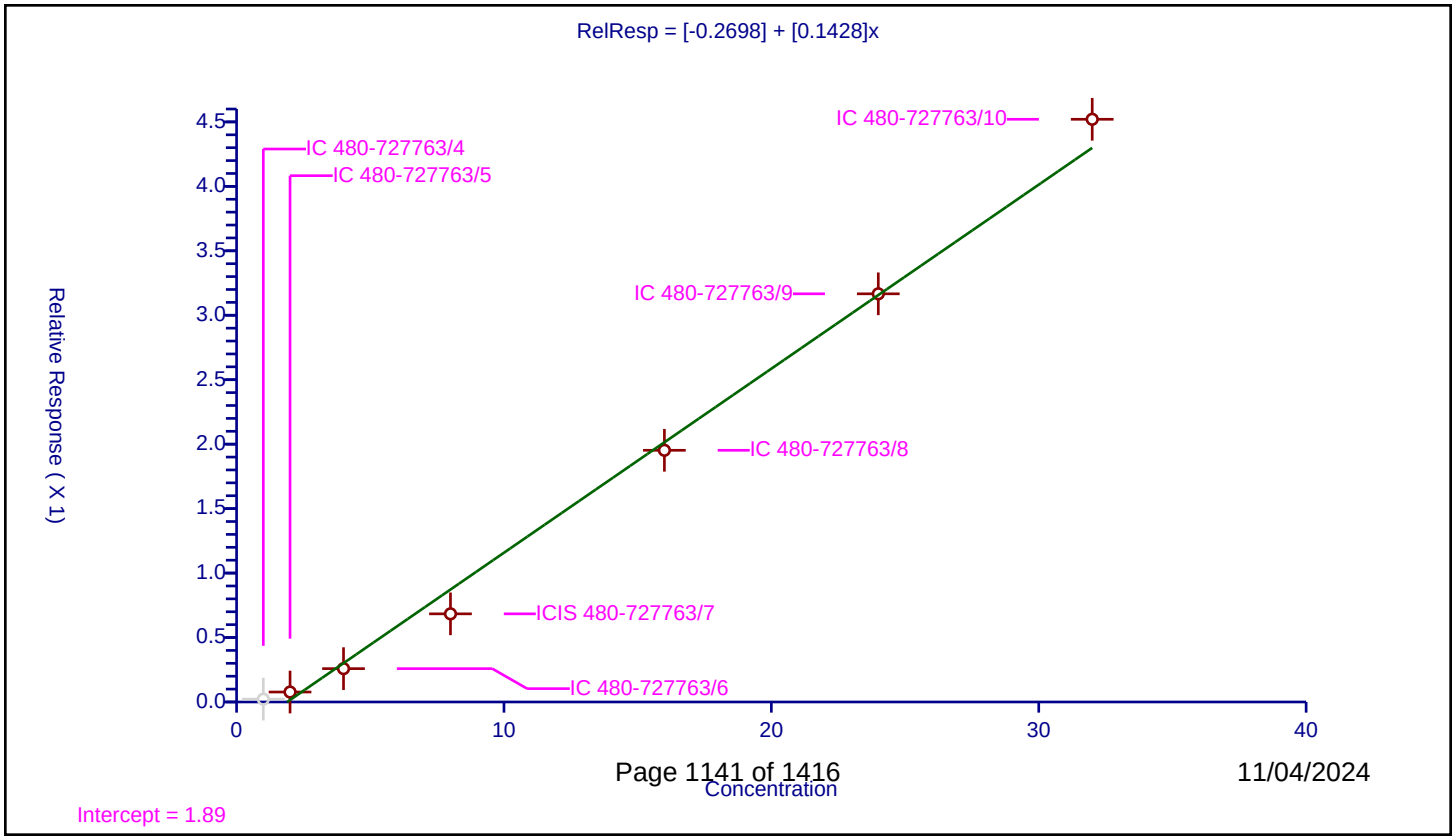
Curve Coefficients

Intercept:	-0.2698
Slope:	0.1428

Error Coefficients

Relative Standard Deviation:	14.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.022062	4.0	425703.0	0.022062	N
2	IC 480-727763/5	2.0	0.07724	4.0	436509.0	0.03862	Y
3	IC 480-727763/6	4.0	0.258657	4.0	440182.0	0.064664	Y
4	ICIS 480-727763/7	8.0	0.683699	4.0	455089.0	0.085462	Y
5	IC 480-727763/8	16.0	1.952616	4.0	415416.0	0.122039	Y
6	IC 480-727763/9	24.0	3.166344	4.0	433234.0	0.131931	Y
7	IC 480-727763/10	32.0	4.520452	4.0	438004.0	0.141264	Y



Calibration / 4-Nitrophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

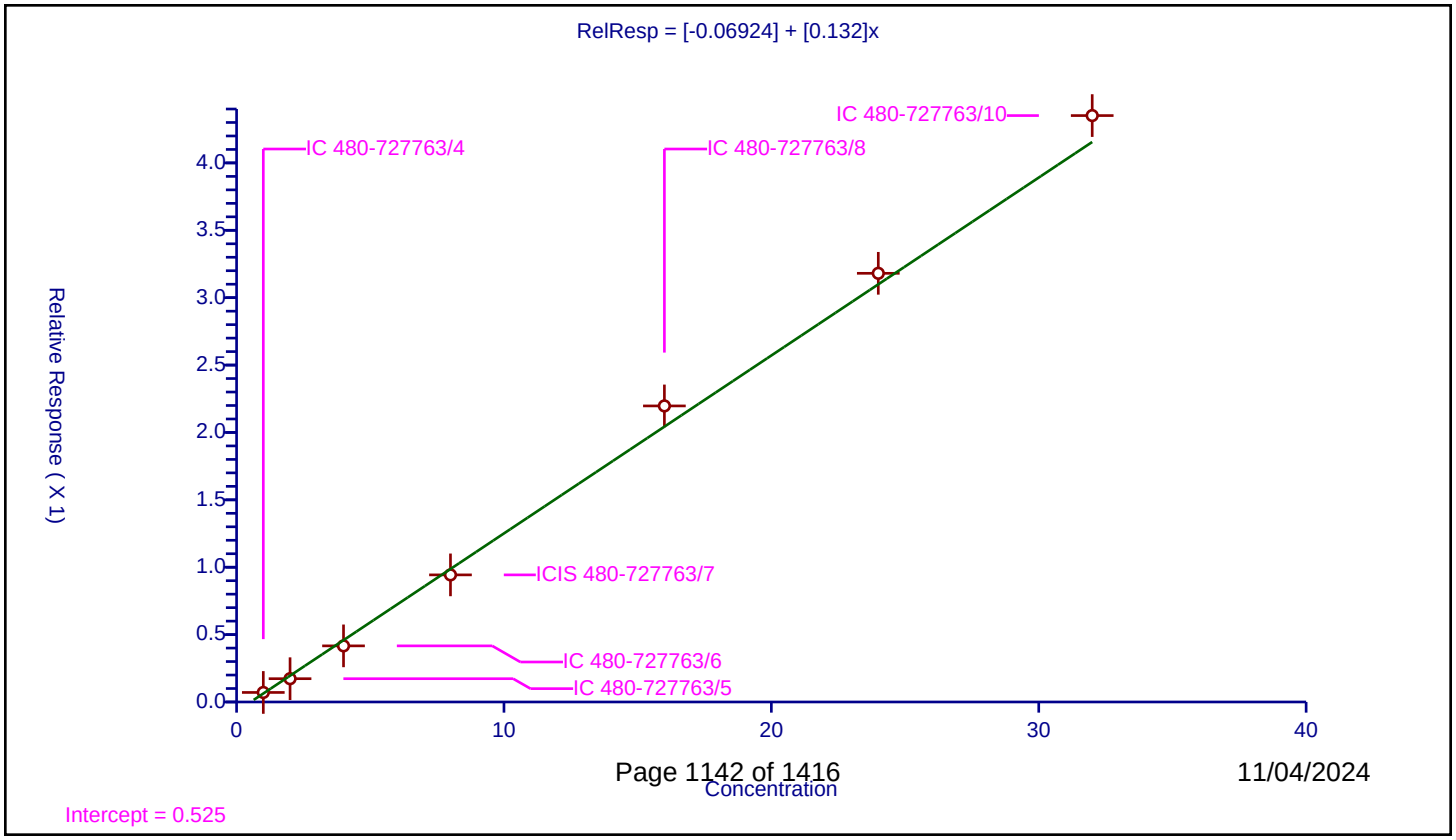
Curve Coefficients

Intercept:	-0.06924
Slope:	0.132

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.07065	4.0	425703.0	0.07065	Y
2	IC 480-727763/5	2.0	0.172872	4.0	436509.0	0.086436	Y
3	IC 480-727763/6	4.0	0.4164	4.0	440182.0	0.1041	Y
4	ICIS 480-727763/7	8.0	0.943103	4.0	455089.0	0.117888	Y
5	IC 480-727763/8	16.0	2.196844	4.0	415416.0	0.137303	Y
6	IC 480-727763/9	24.0	3.180812	4.0	433234.0	0.132534	Y
7	IC 480-727763/10	32.0	4.35123	4.0	438004.0	0.135976	Y



Calibration / 2,4-Dinitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

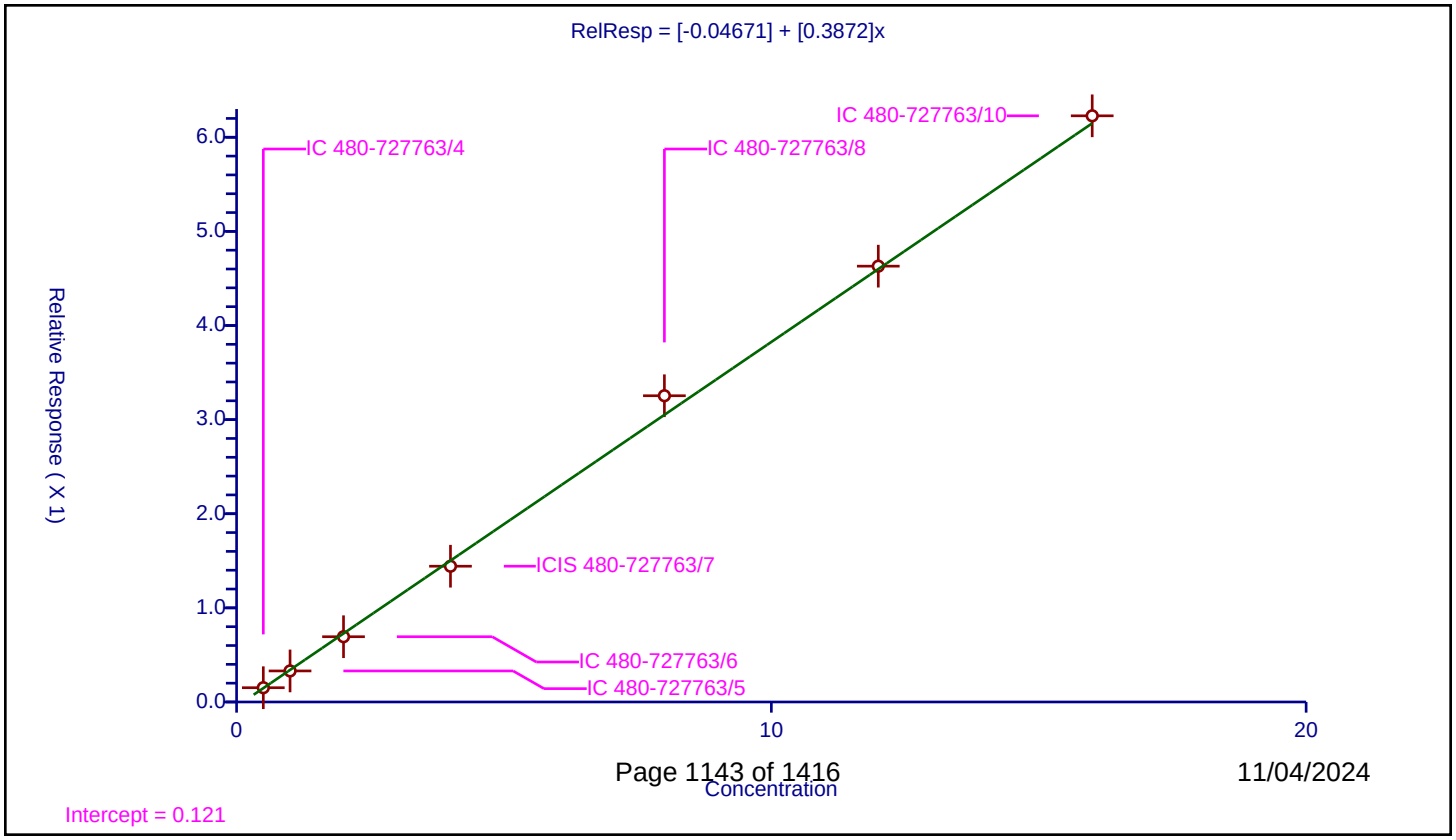
Curve Coefficients

Intercept:	-0.04671
Slope:	0.3872

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.151636	4.0	425703.0	0.303272	Y
2	IC 480-727763/5	1.0	0.330046	4.0	436509.0	0.330046	Y
3	IC 480-727763/6	2.0	0.69344	4.0	440182.0	0.34672	Y
4	ICIS 480-727763/7	4.0	1.442487	4.0	455089.0	0.360622	Y
5	IC 480-727763/8	8.0	3.253885	4.0	415416.0	0.406736	Y
6	IC 480-727763/9	12.0	4.630274	4.0	433234.0	0.385856	Y
7	IC 480-727763/10	16.0	6.227678	4.0	438004.0	0.38923	Y



Calibration / Dibenzofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

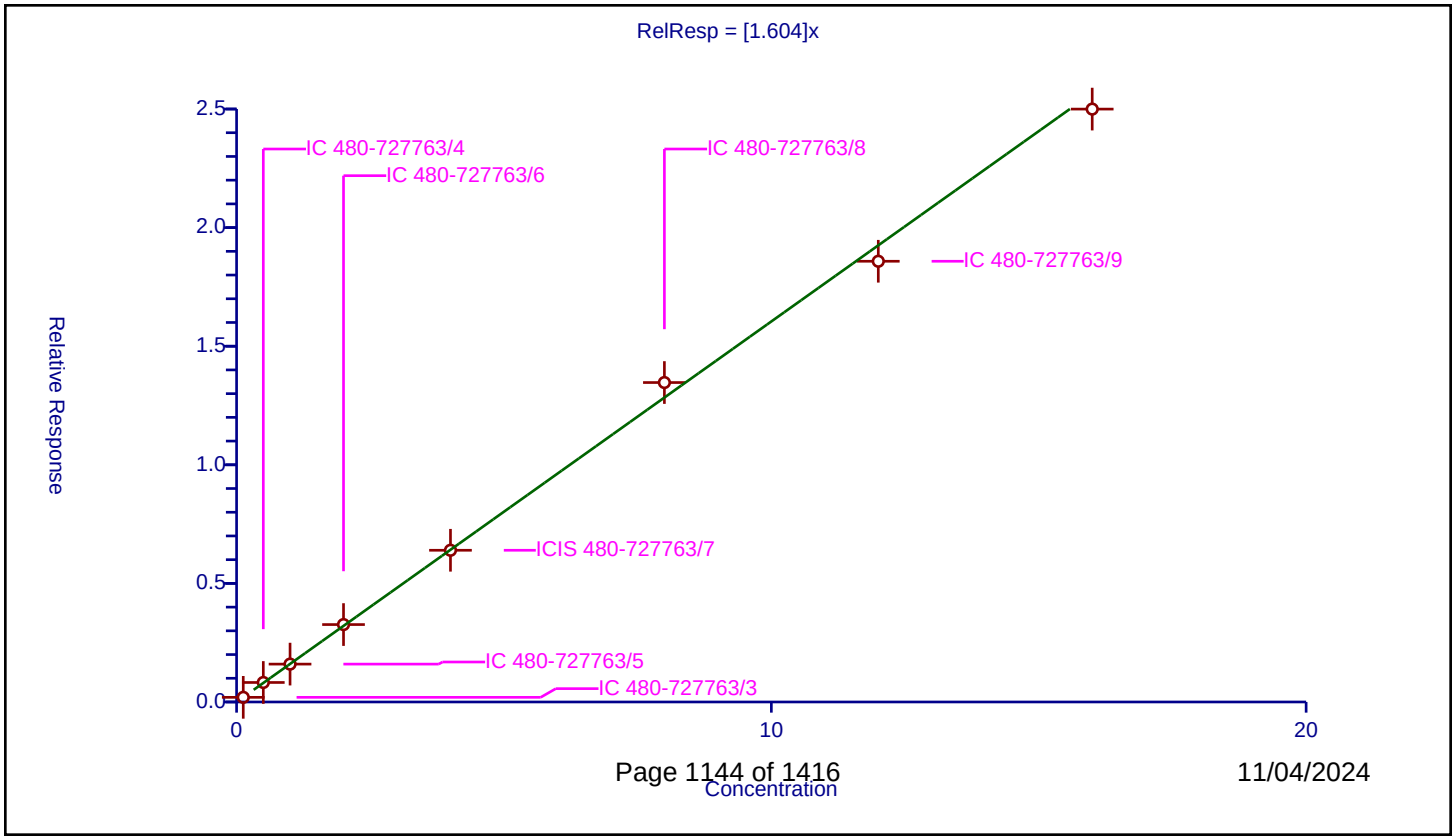
Curve Coefficients

Intercept:	0
Slope:	1.604

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.195873	4.0	425685.0	1.56698	Y
2	IC 480-727763/4	0.5	0.822686	4.0	425703.0	1.645372	Y
3	IC 480-727763/5	1.0	1.597108	4.0	436509.0	1.597108	Y
4	IC 480-727763/6	2.0	3.263959	4.0	440182.0	1.631979	Y
5	ICIS 480-727763/7	4.0	6.39612	4.0	455089.0	1.59903	Y
6	IC 480-727763/8	8.0	13.468071	4.0	415416.0	1.683509	Y
7	IC 480-727763/9	12.0	18.58121	4.0	433234.0	1.548434	Y
8	IC 480-727763/10	16.0	24.996612	4.0	438004.0	1.562288	Y



Calibration / 2,3,4,6-Tetrachlorophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

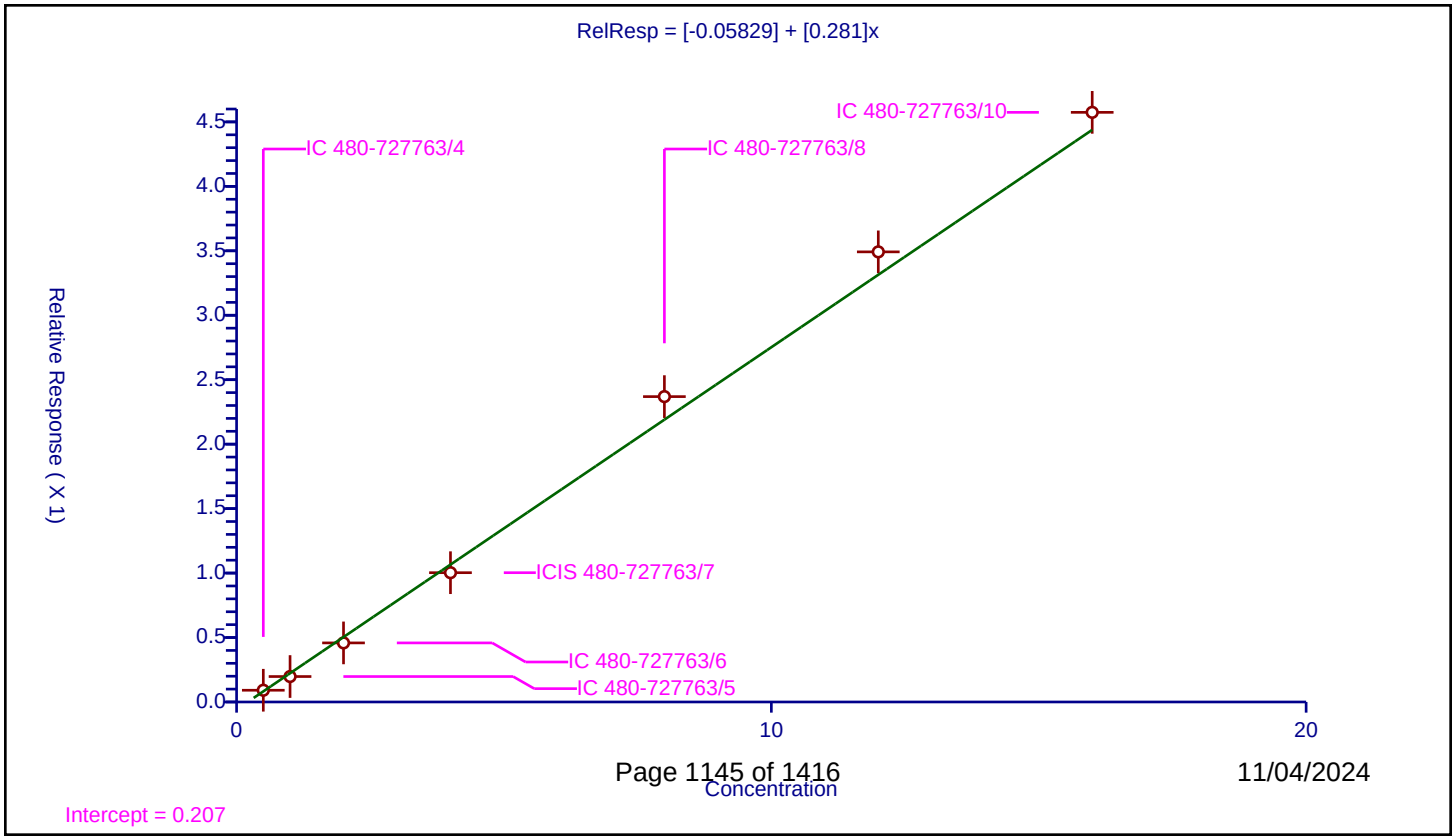
Curve Coefficients

Intercept:	-0.05829
Slope:	0.281

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.091219	4.0	425703.0	0.182437	Y
2	IC 480-727763/5	1.0	0.197494	4.0	436509.0	0.197494	Y
3	IC 480-727763/6	2.0	0.458392	4.0	440182.0	0.229196	Y
4	ICIS 480-727763/7	4.0	1.002951	4.0	455089.0	0.250738	Y
5	IC 480-727763/8	8.0	2.368999	4.0	415416.0	0.296125	Y
6	IC 480-727763/9	12.0	3.491767	4.0	433234.0	0.290981	Y
7	IC 480-727763/10	16.0	4.574123	4.0	438004.0	0.285883	Y



Calibration / Hexadecane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

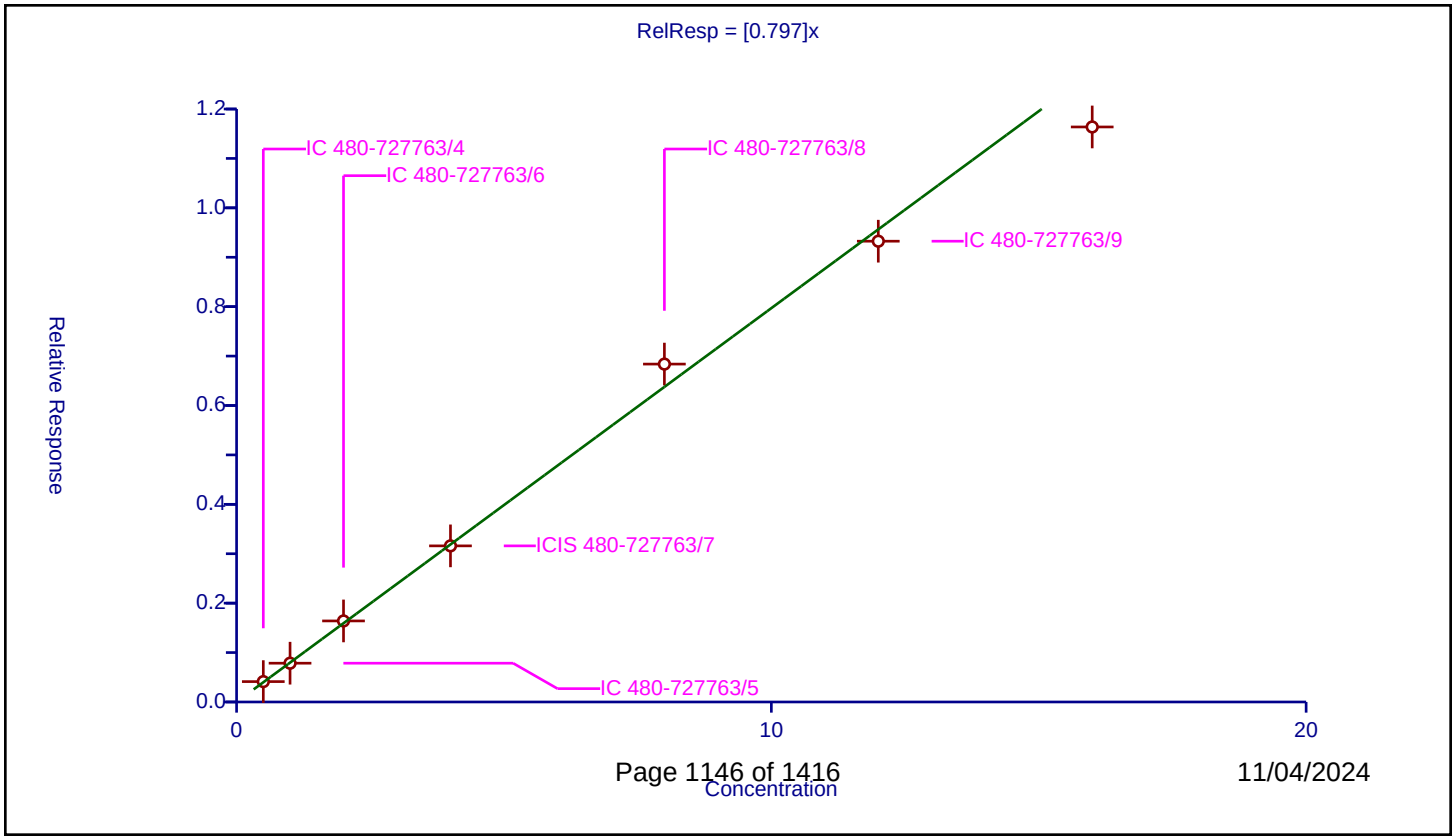
Curve Coefficients

Intercept:	0
Slope:	0.797

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.412391	4.0	425703.0	0.824782	Y
2	IC 480-727763/5	1.0	0.785129	4.0	436509.0	0.785129	Y
3	IC 480-727763/6	2.0	1.640167	4.0	440182.0	0.820084	Y
4	ICIS 480-727763/7	4.0	3.159514	4.0	455089.0	0.789878	Y
5	IC 480-727763/8	8.0	6.838157	4.0	415416.0	0.85477	Y
6	IC 480-727763/9	12.0	9.324679	4.0	433234.0	0.777057	Y
7	IC 480-727763/10	16.0	11.636679	4.0	438004.0	0.727292	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

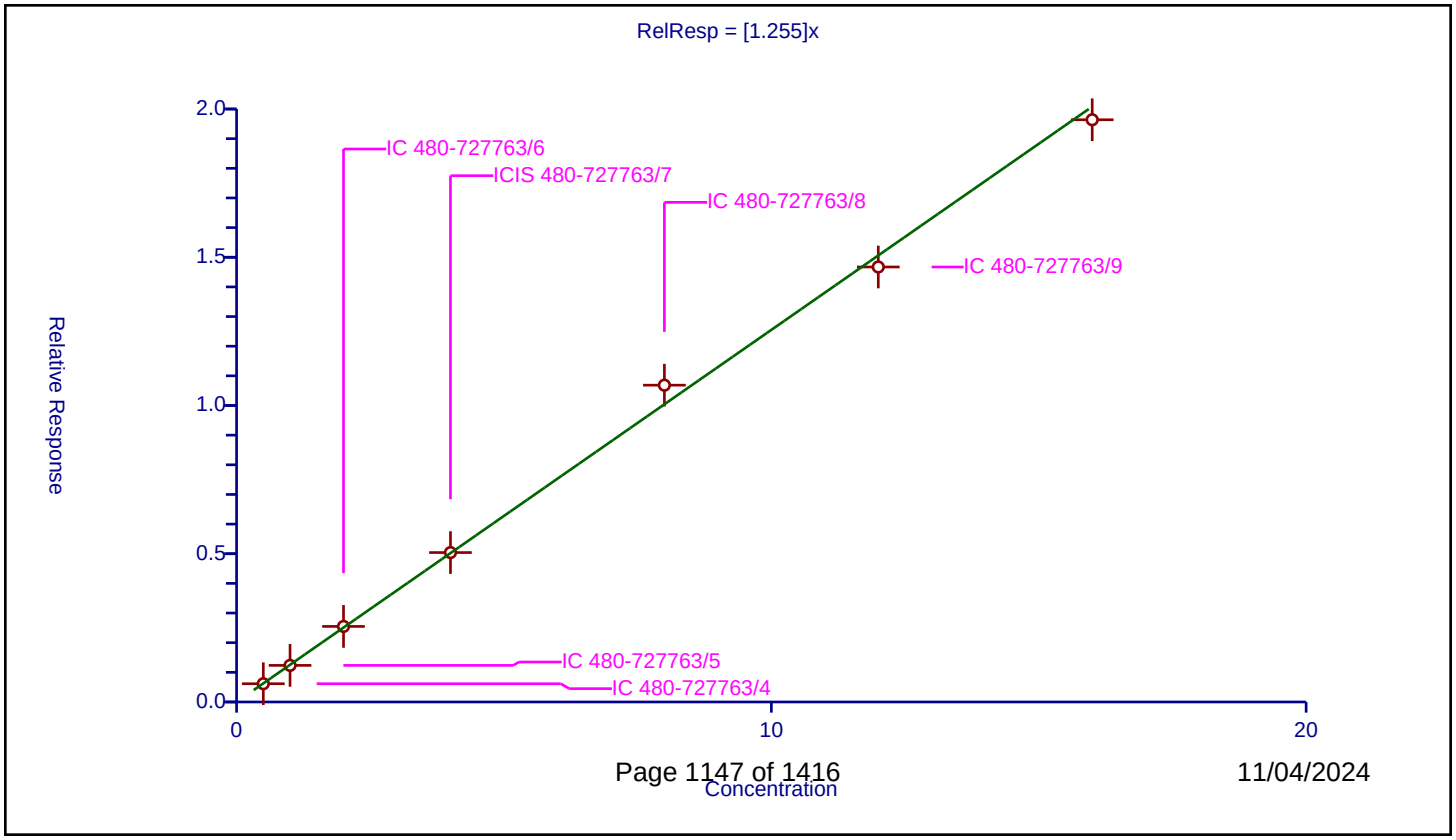
Curve Coefficients

Intercept:	0
Slope:	1.255

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.615434	4.0	425703.0	1.230868	Y
2	IC 480-727763/5	1.0	1.23466	4.0	436509.0	1.23466	Y
3	IC 480-727763/6	2.0	2.548428	4.0	440182.0	1.274214	Y
4	ICIS 480-727763/7	4.0	5.039893	4.0	455089.0	1.259973	Y
5	IC 480-727763/8	8.0	10.685279	4.0	415416.0	1.33566	Y
6	IC 480-727763/9	12.0	14.671443	4.0	433234.0	1.22262	Y
7	IC 480-727763/10	16.0	19.637665	4.0	438004.0	1.227354	Y



Calibration / 4-Chlorophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

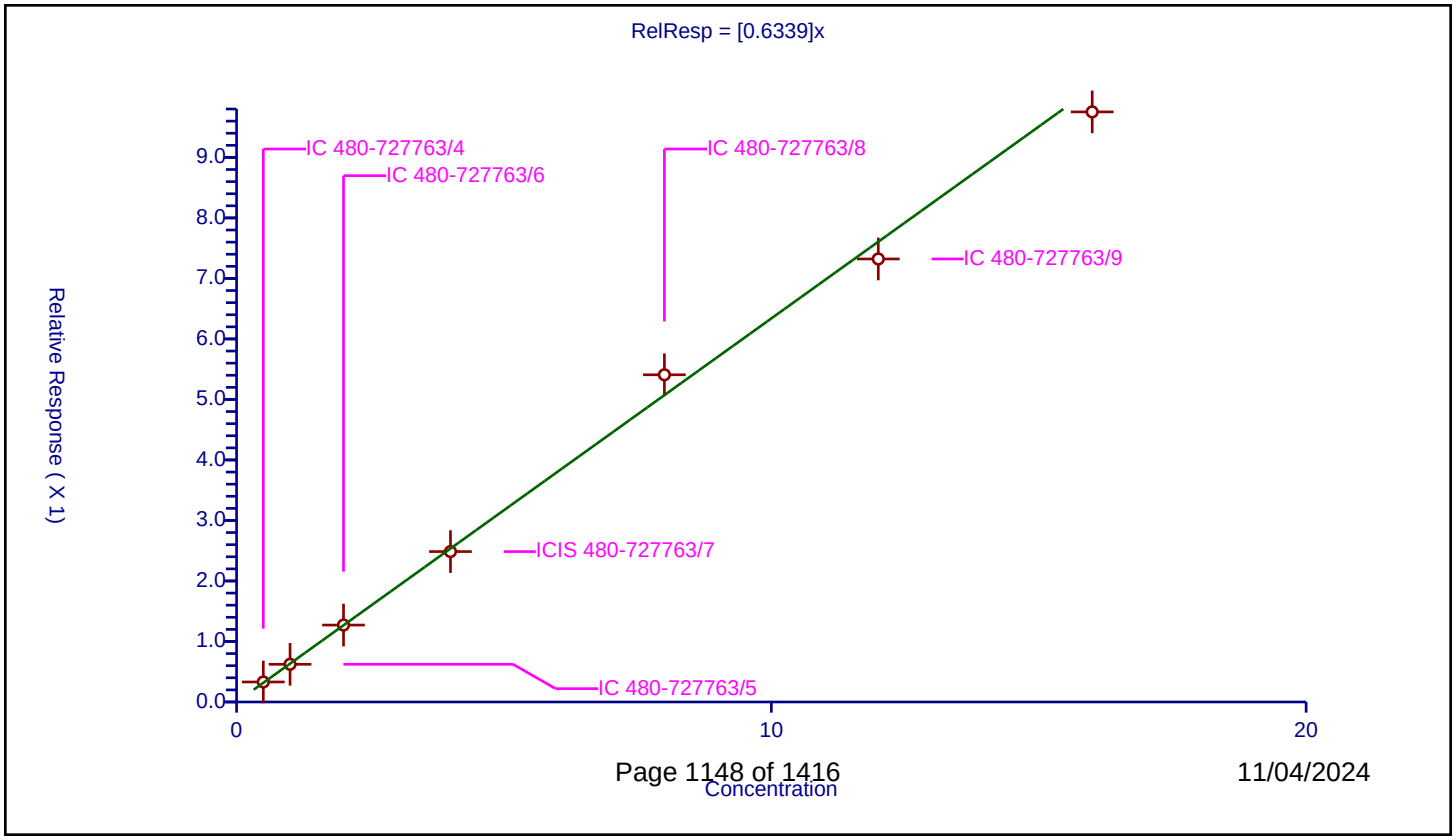
Curve Coefficients

Intercept:	0
Slope:	0.6339

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.330662	4.0	425703.0	0.661325	Y
2	IC 480-727763/5	1.0	0.623043	4.0	436509.0	0.623043	Y
3	IC 480-727763/6	2.0	1.271374	4.0	440182.0	0.635687	Y
4	ICIS 480-727763/7	4.0	2.48601	4.0	455089.0	0.621503	Y
5	IC 480-727763/8	8.0	5.407948	4.0	415416.0	0.675993	Y
6	IC 480-727763/9	12.0	7.3219	4.0	433234.0	0.610158	Y
7	IC 480-727763/10	16.0	9.752431	4.0	438004.0	0.609527	Y



Calibration / 4-Nitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

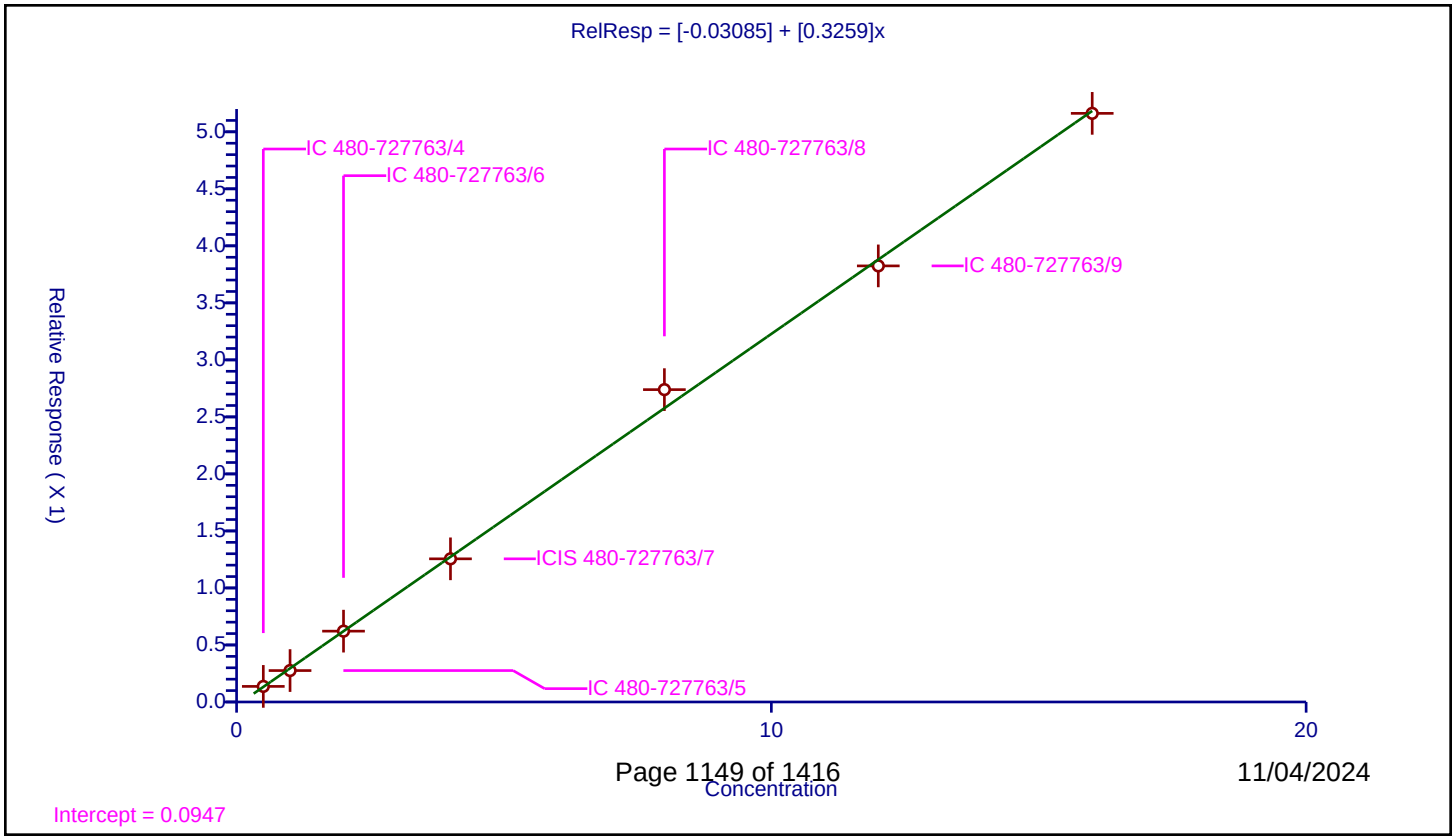
Curve Coefficients

Intercept:	-0.03085
Slope:	0.3259

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.136677	4.0	425703.0	0.273355	Y
2	IC 480-727763/5	1.0	0.275614	4.0	436509.0	0.275614	Y
3	IC 480-727763/6	2.0	0.621161	4.0	440182.0	0.310581	Y
4	ICIS 480-727763/7	4.0	1.255315	4.0	455089.0	0.313829	Y
5	IC 480-727763/8	8.0	2.73922	4.0	415416.0	0.342403	Y
6	IC 480-727763/9	12.0	3.824197	4.0	433234.0	0.318683	Y
7	IC 480-727763/10	16.0	5.16188	4.0	438004.0	0.322617	Y



Calibration / Fluorene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

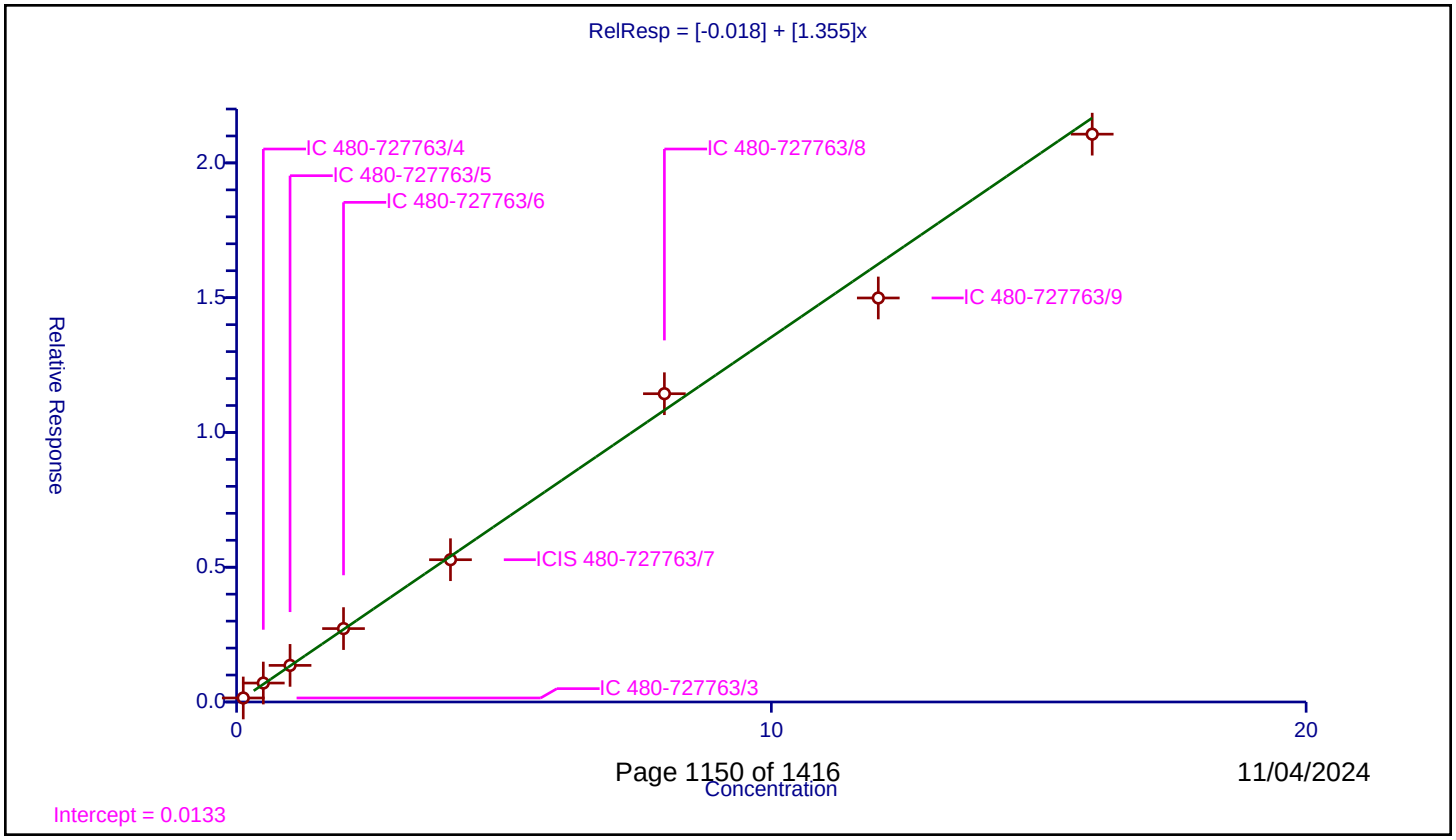
Curve Coefficients

Intercept:	-0.018
Slope:	1.355

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.148457	4.0	425685.0	1.187658	Y
2	IC 480-727763/4	0.5	0.70296	4.0	425703.0	1.405919	Y
3	IC 480-727763/5	1.0	1.357553	4.0	436509.0	1.357553	Y
4	IC 480-727763/6	2.0	2.722828	4.0	440182.0	1.361414	Y
5	ICIS 480-727763/7	4.0	5.27844	4.0	455089.0	1.31961	Y
6	IC 480-727763/8	8.0	11.43774	4.0	415416.0	1.429717	Y
7	IC 480-727763/9	12.0	14.988962	4.0	433234.0	1.24908	Y
8	IC 480-727763/10	16.0	21.067059	4.0	438004.0	1.316691	Y



Calibration / 4,6-Dinitro-2-methylphenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

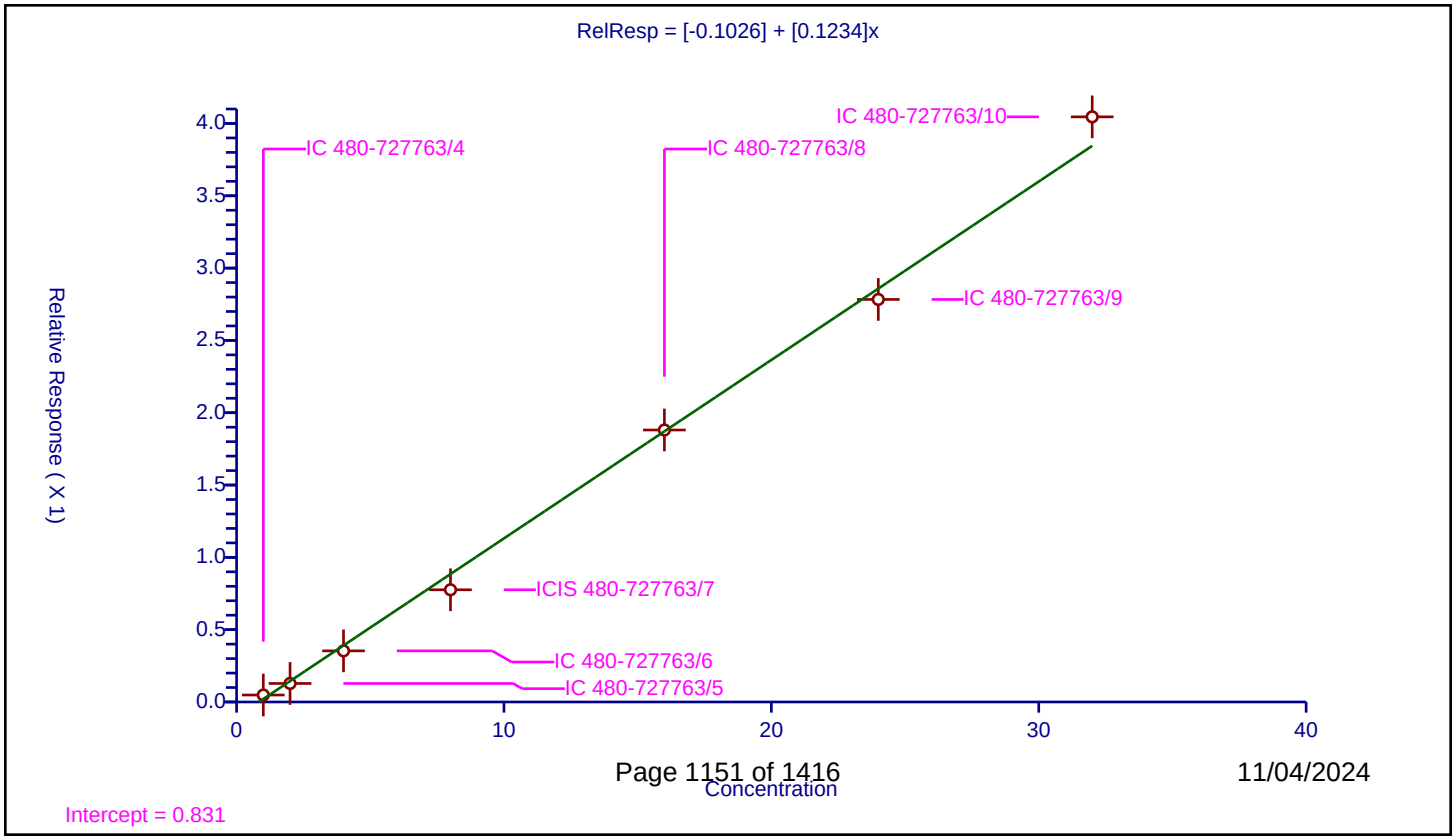
Curve Coefficients

Intercept:	-0.1026
Slope:	0.1234

Error Coefficients

Relative Standard Deviation:	12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.048131	4.0	732507.0	0.048131	Y
2	IC 480-727763/5	2.0	0.128015	4.0	739822.0	0.064007	Y
3	IC 480-727763/6	4.0	0.35334	4.0	719816.0	0.088335	Y
4	ICIS 480-727763/7	8.0	0.775836	4.0	755758.0	0.096979	Y
5	IC 480-727763/8	16.0	1.880543	4.0	708238.0	0.117534	Y
6	IC 480-727763/9	24.0	2.78324	4.0	730313.0	0.115968	Y
7	IC 480-727763/10	32.0	4.045847	4.0	738805.0	0.126433	Y



Calibration / Diphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

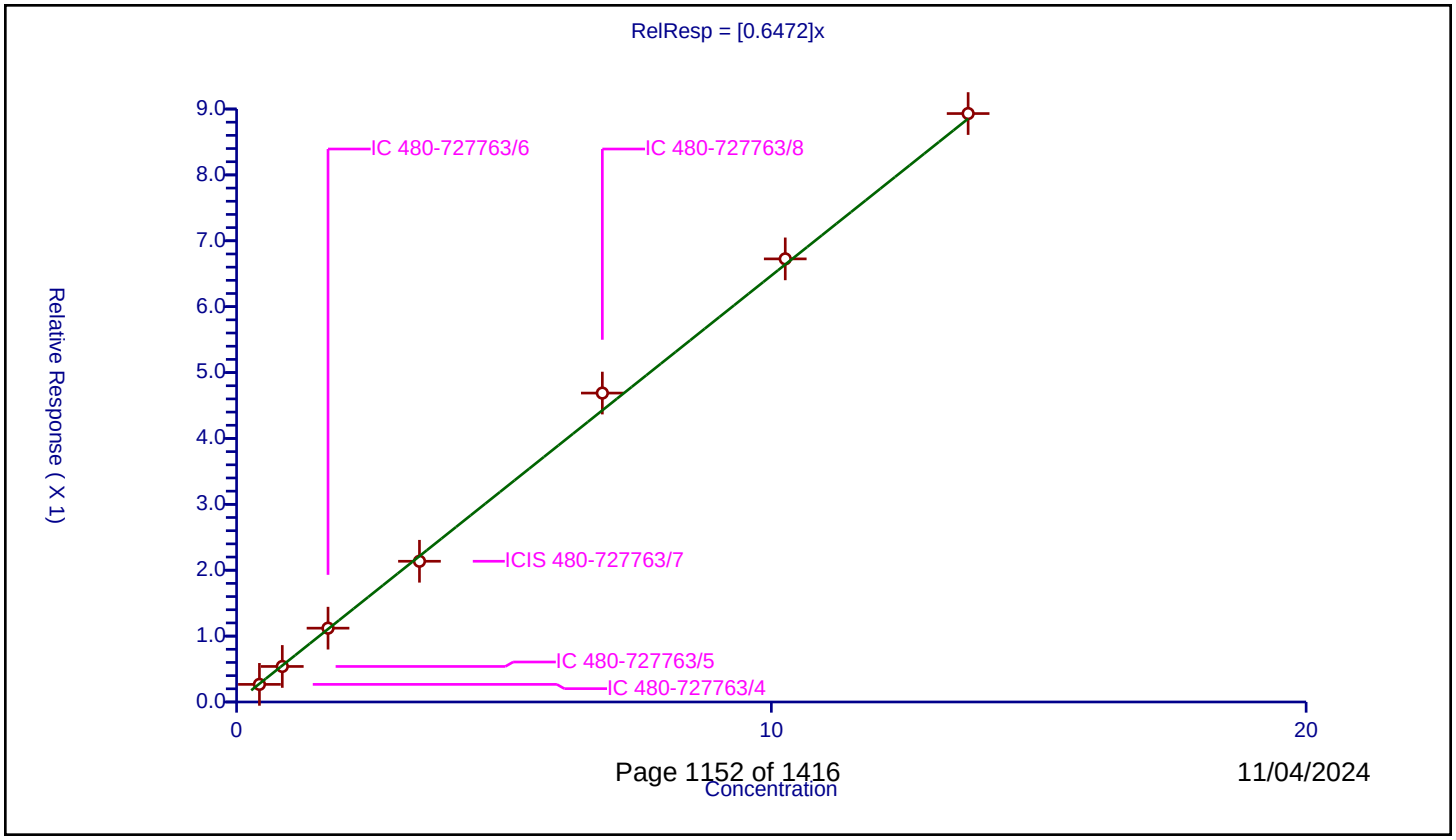
Curve Coefficients

Intercept:	0
Slope:	0.6472

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.4275	0.267481	4.0	732507.0	0.625687	Y
2	IC 480-727763/5	0.855	0.539432	4.0	739822.0	0.630915	Y
3	IC 480-727763/6	1.71	1.120631	4.0	719816.0	0.65534	Y
4	ICIS 480-727763/7	3.42	2.135943	4.0	755758.0	0.624545	Y
5	IC 480-727763/8	6.84	4.688559	4.0	708238.0	0.685462	Y
6	IC 480-727763/9	10.26	6.725527	4.0	730313.0	0.655509	Y
7	IC 480-727763/10	13.68	8.931369	4.0	738805.0	0.652878	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

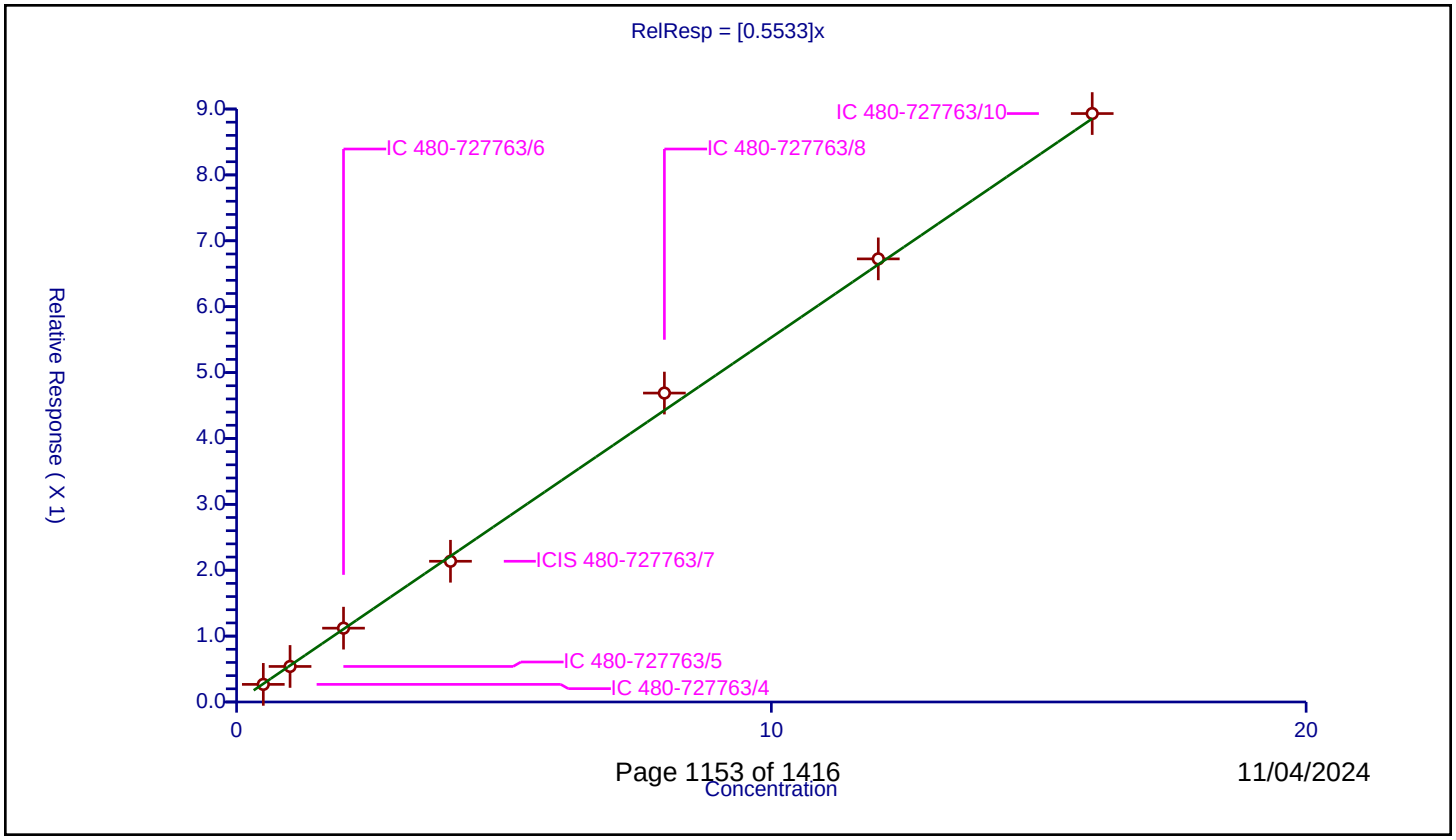
Curve Coefficients

Intercept:	0
Slope:	0.5533

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.267481	4.0	732507.0	0.534963	Y
2	IC 480-727763/5	1.0	0.539432	4.0	739822.0	0.539432	Y
3	IC 480-727763/6	2.0	1.120631	4.0	719816.0	0.560315	Y
4	ICIS 480-727763/7	4.0	2.135943	4.0	755758.0	0.533986	Y
5	IC 480-727763/8	8.0	4.688559	4.0	708238.0	0.58607	Y
6	IC 480-727763/9	12.0	6.725527	4.0	730313.0	0.560461	Y
7	IC 480-727763/10	16.0	8.931369	4.0	738805.0	0.558211	Y



Calibration / 1,2-Diphenylhydrazine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

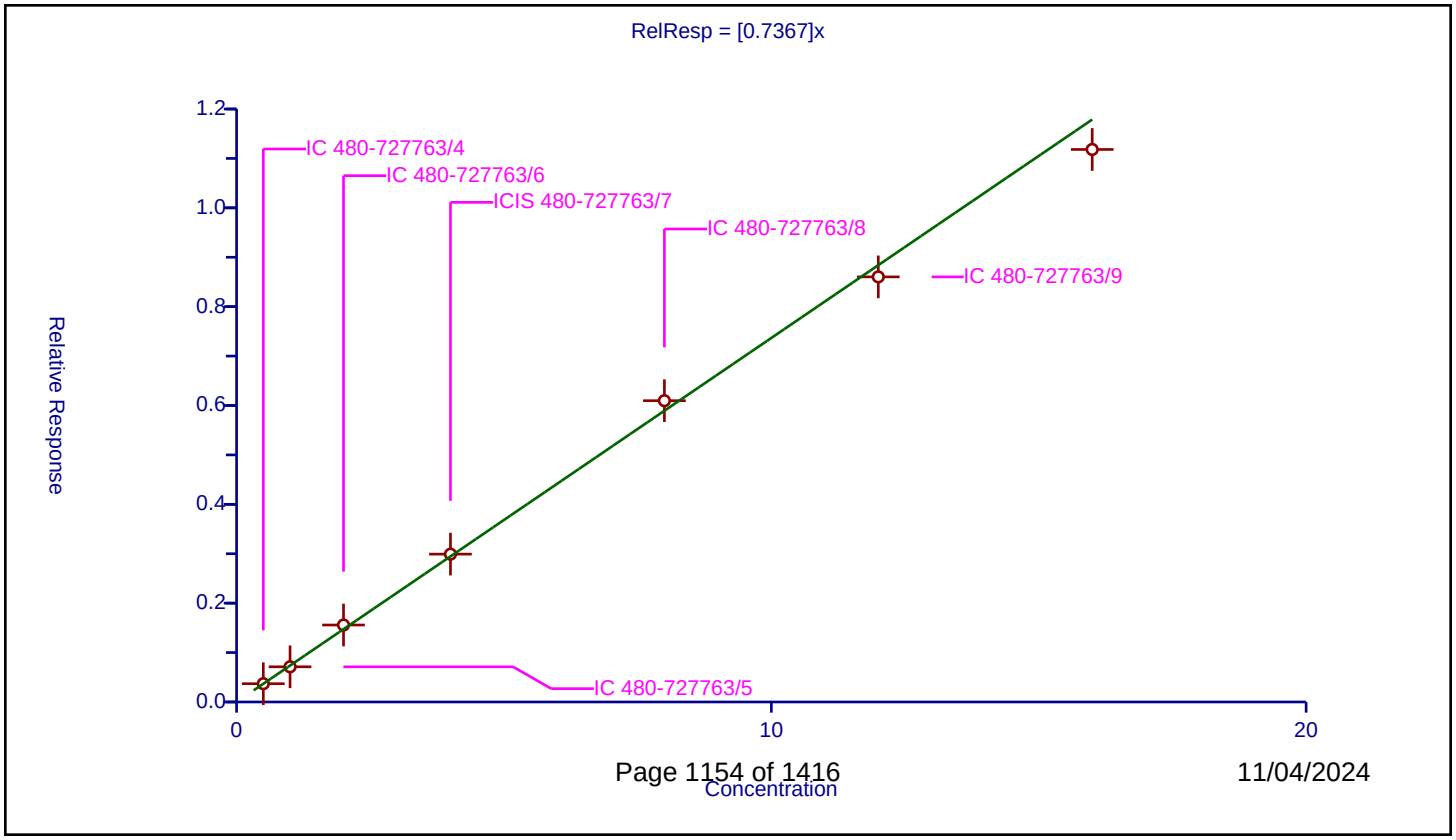
Curve Coefficients

Intercept:	0
Slope:	0.7367

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.369859	4.0	732507.0	0.739717	Y
2	IC 480-727763/5	1.0	0.712269	4.0	739822.0	0.712269	Y
3	IC 480-727763/6	2.0	1.557609	4.0	719816.0	0.778805	Y
4	ICIS 480-727763/7	4.0	2.992238	4.0	755758.0	0.74806	Y
5	IC 480-727763/8	8.0	6.097329	4.0	708238.0	0.762166	Y
6	IC 480-727763/9	12.0	8.602958	4.0	730313.0	0.716913	Y
7	IC 480-727763/10	16.0	11.181538	4.0	738805.0	0.698846	Y



Calibration / Azobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

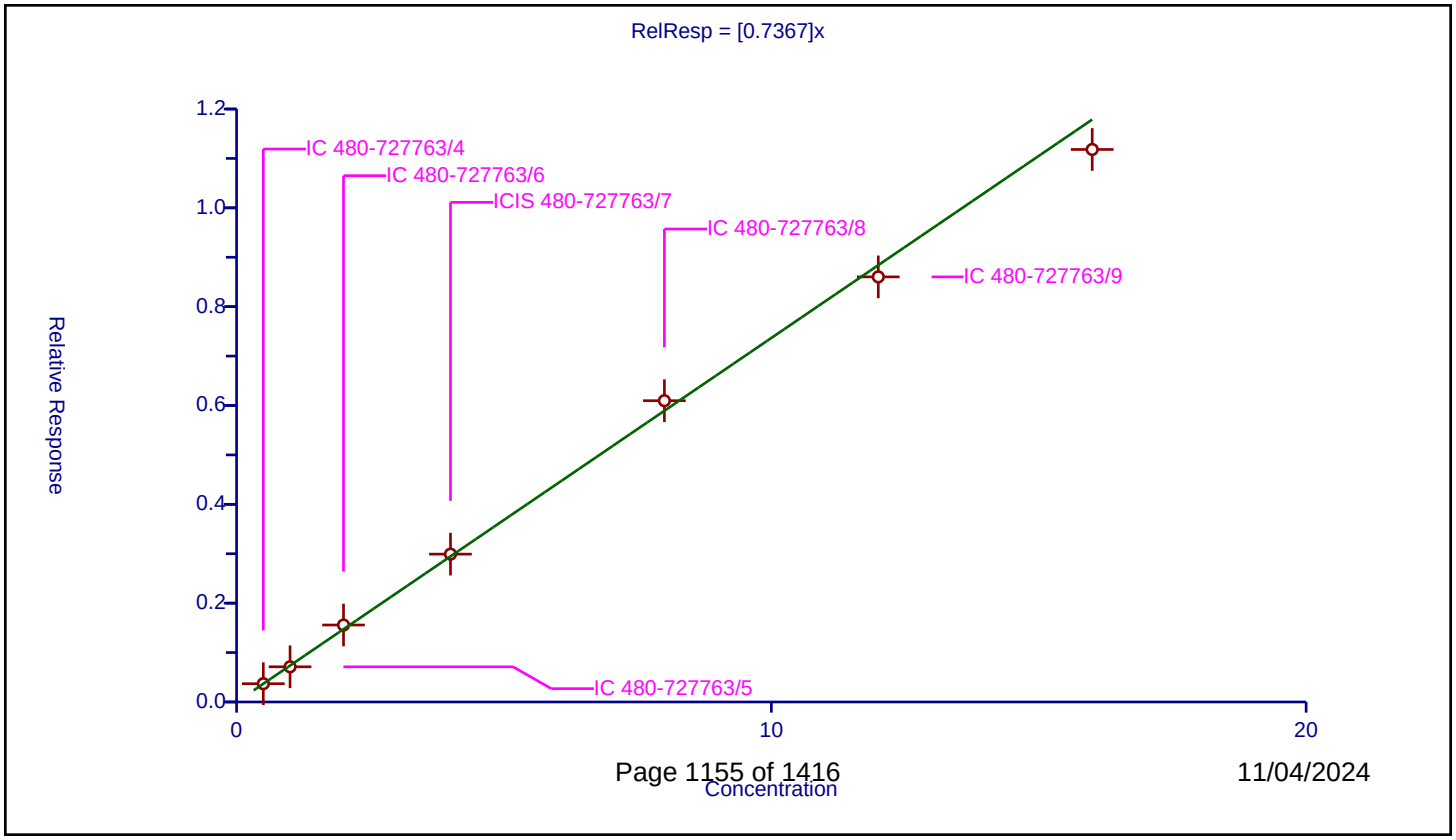
Curve Coefficients

Intercept:	0
Slope:	0.7367

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.369859	4.0	732507.0	0.739717	Y
2	IC 480-727763/5	1.0	0.712269	4.0	739822.0	0.712269	Y
3	IC 480-727763/6	2.0	1.557609	4.0	719816.0	0.778805	Y
4	ICIS 480-727763/7	4.0	2.992238	4.0	755758.0	0.74806	Y
5	IC 480-727763/8	8.0	6.097329	4.0	708238.0	0.762166	Y
6	IC 480-727763/9	12.0	8.602958	4.0	730313.0	0.716913	Y
7	IC 480-727763/10	16.0	11.181538	4.0	738805.0	0.698846	Y



Calibration / 2,4,6-Tribromophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

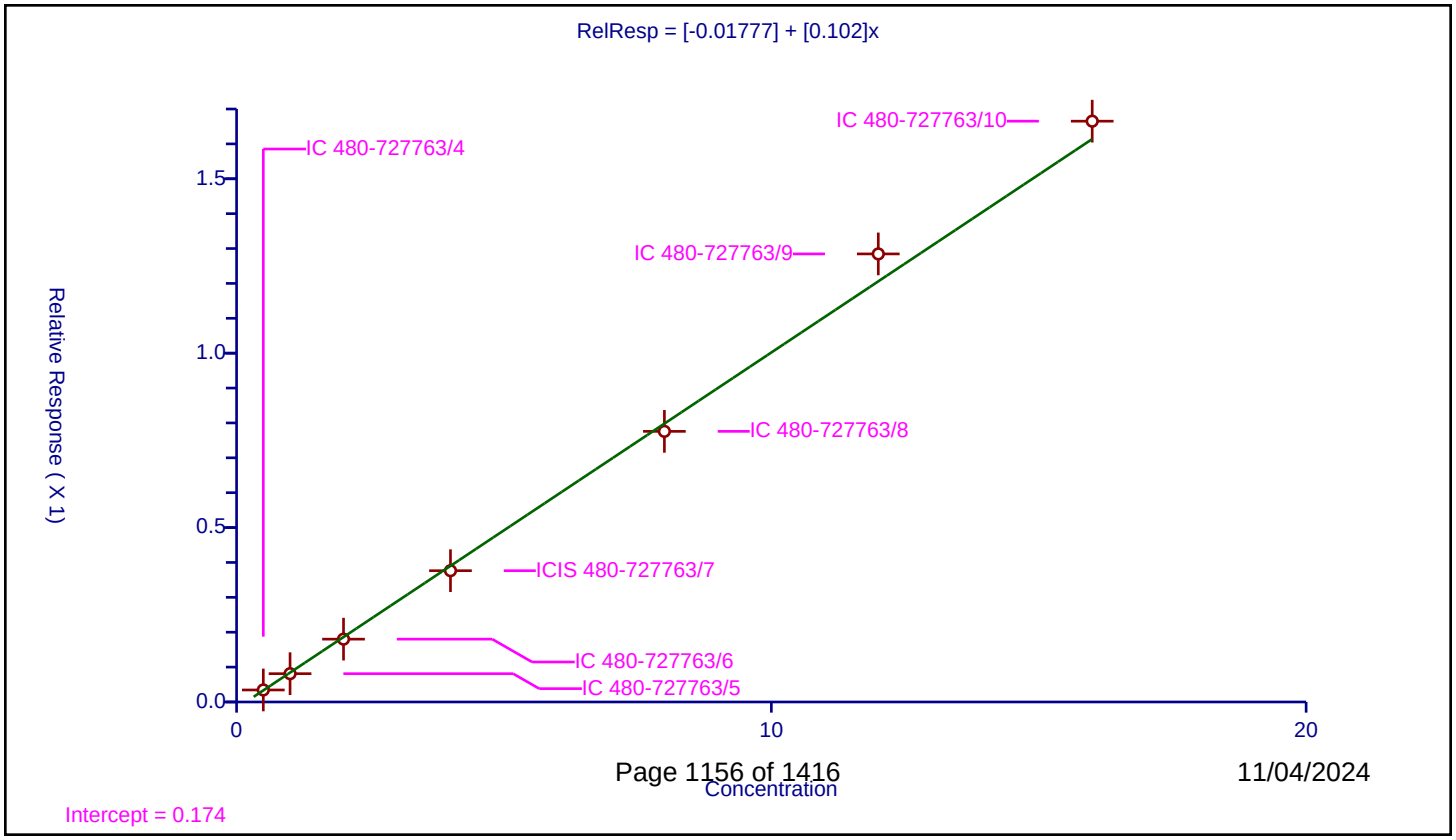
Curve Coefficients

Intercept:	-0.01777
Slope:	0.102

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.034473	4.0	732507.0	0.068947	Y
2	IC 480-727763/5	1.0	0.081122	4.0	739822.0	0.081122	Y
3	IC 480-727763/6	2.0	0.180179	4.0	719816.0	0.09009	Y
4	ICIS 480-727763/7	4.0	0.376433	4.0	755758.0	0.094108	Y
5	IC 480-727763/8	8.0	0.775841	4.0	708238.0	0.09698	Y
6	IC 480-727763/9	12.0	1.284573	4.0	730313.0	0.107048	Y
7	IC 480-727763/10	16.0	1.665138	4.0	738805.0	0.104071	Y



Calibration / 4-Bromophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

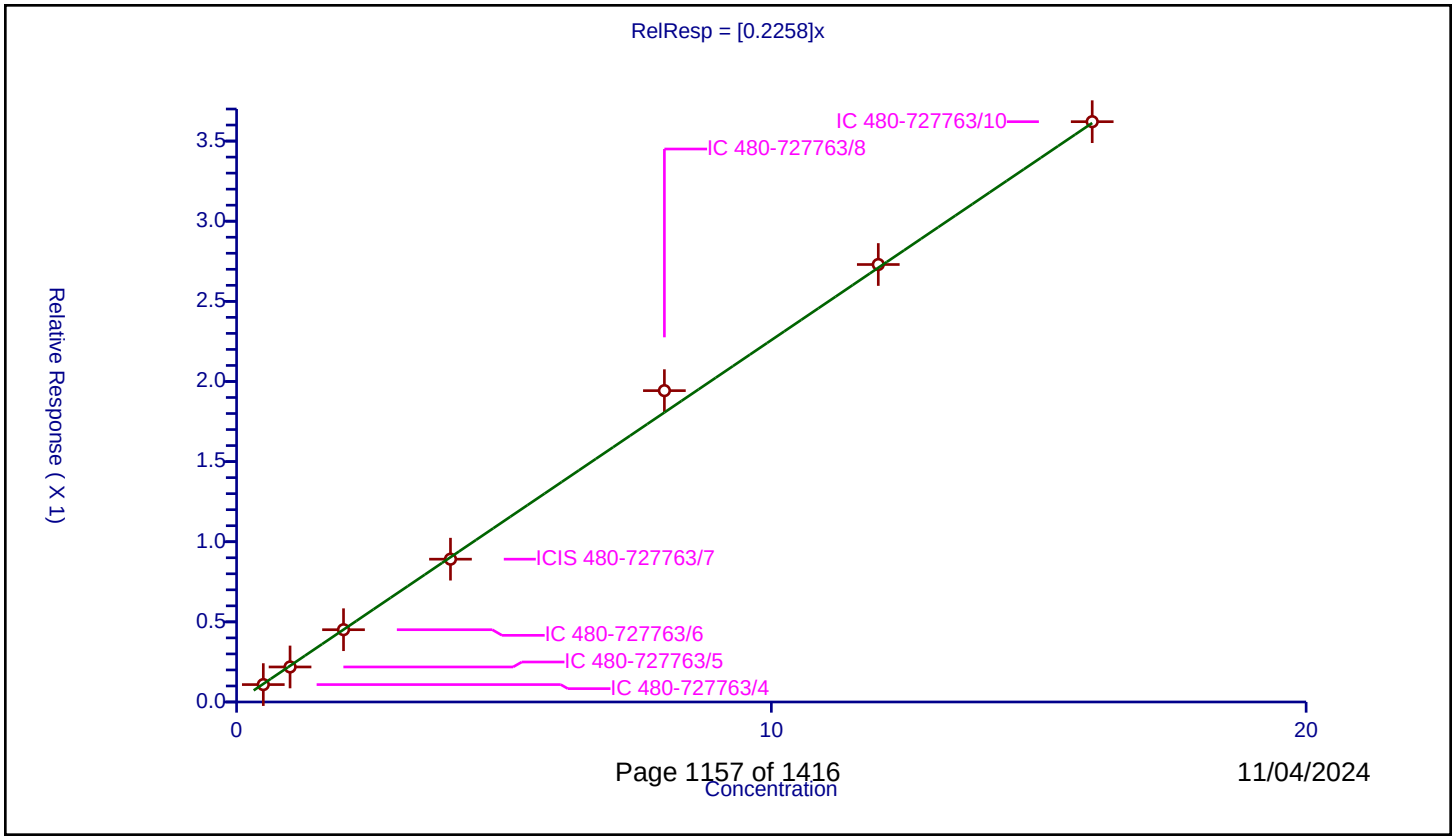
Curve Coefficients

Intercept:	0
Slope:	0.2258

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.108537	4.0	732507.0	0.217074	Y
2	IC 480-727763/5	1.0	0.218599	4.0	739822.0	0.218599	Y
3	IC 480-727763/6	2.0	0.451043	4.0	719816.0	0.225522	Y
4	ICIS 480-727763/7	4.0	0.891174	4.0	755758.0	0.222794	Y
5	IC 480-727763/8	8.0	1.942652	4.0	708238.0	0.242832	Y
6	IC 480-727763/9	12.0	2.729805	4.0	730313.0	0.227484	Y
7	IC 480-727763/10	16.0	3.621037	4.0	738805.0	0.226315	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

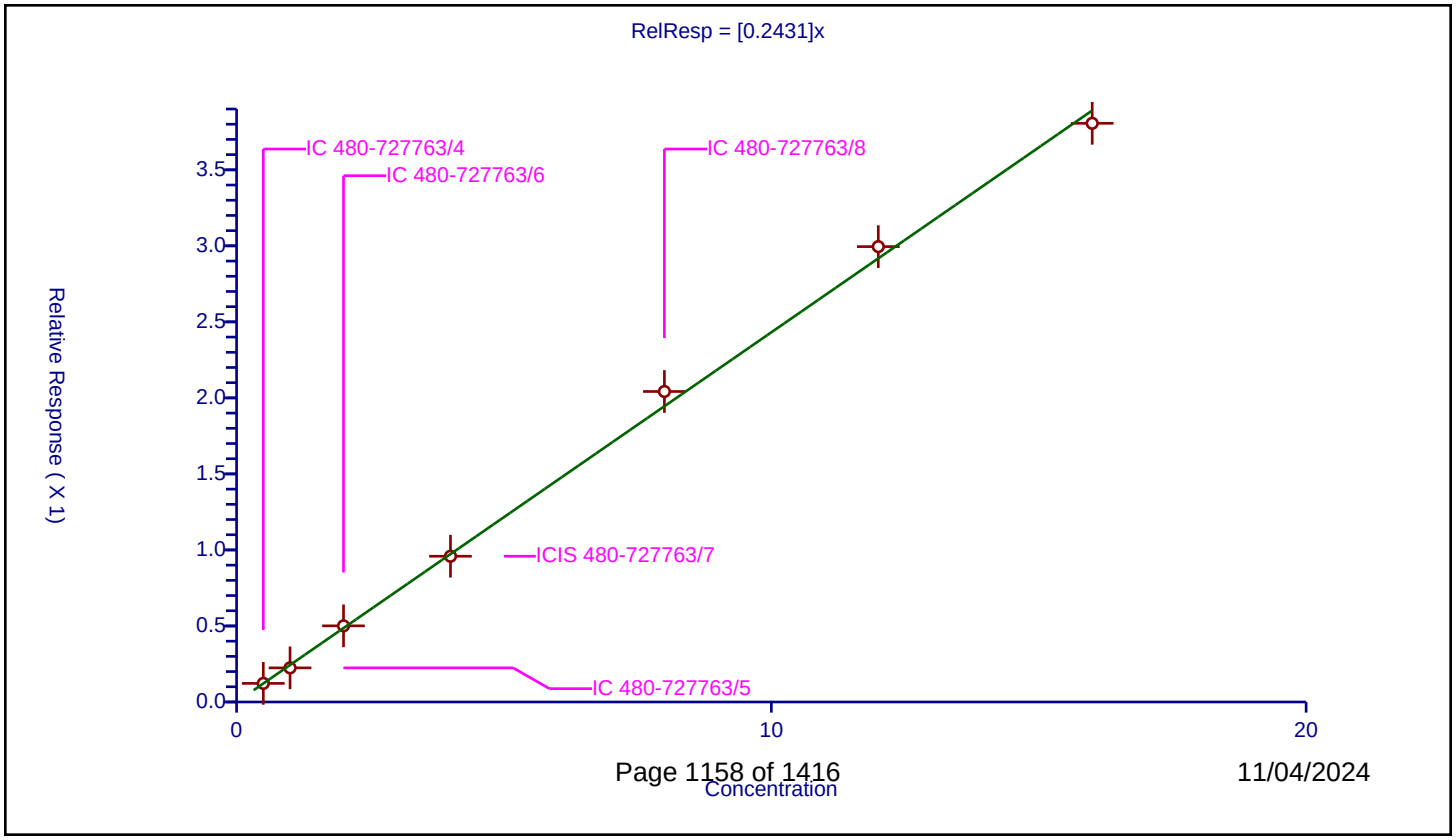
Curve Coefficients

Intercept:	0
Slope:	0.2431

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.122402	4.0	732507.0	0.244803	Y
2	IC 480-727763/5	1.0	0.224405	4.0	739822.0	0.224405	Y
3	IC 480-727763/6	2.0	0.500772	4.0	719816.0	0.250386	Y
4	ICIS 480-727763/7	4.0	0.958619	4.0	755758.0	0.239655	Y
5	IC 480-727763/8	8.0	2.042189	4.0	708238.0	0.255274	Y
6	IC 480-727763/9	12.0	2.99493	4.0	730313.0	0.249577	Y
7	IC 480-727763/10	16.0	3.805952	4.0	738805.0	0.237872	Y



Calibration / Atrazine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

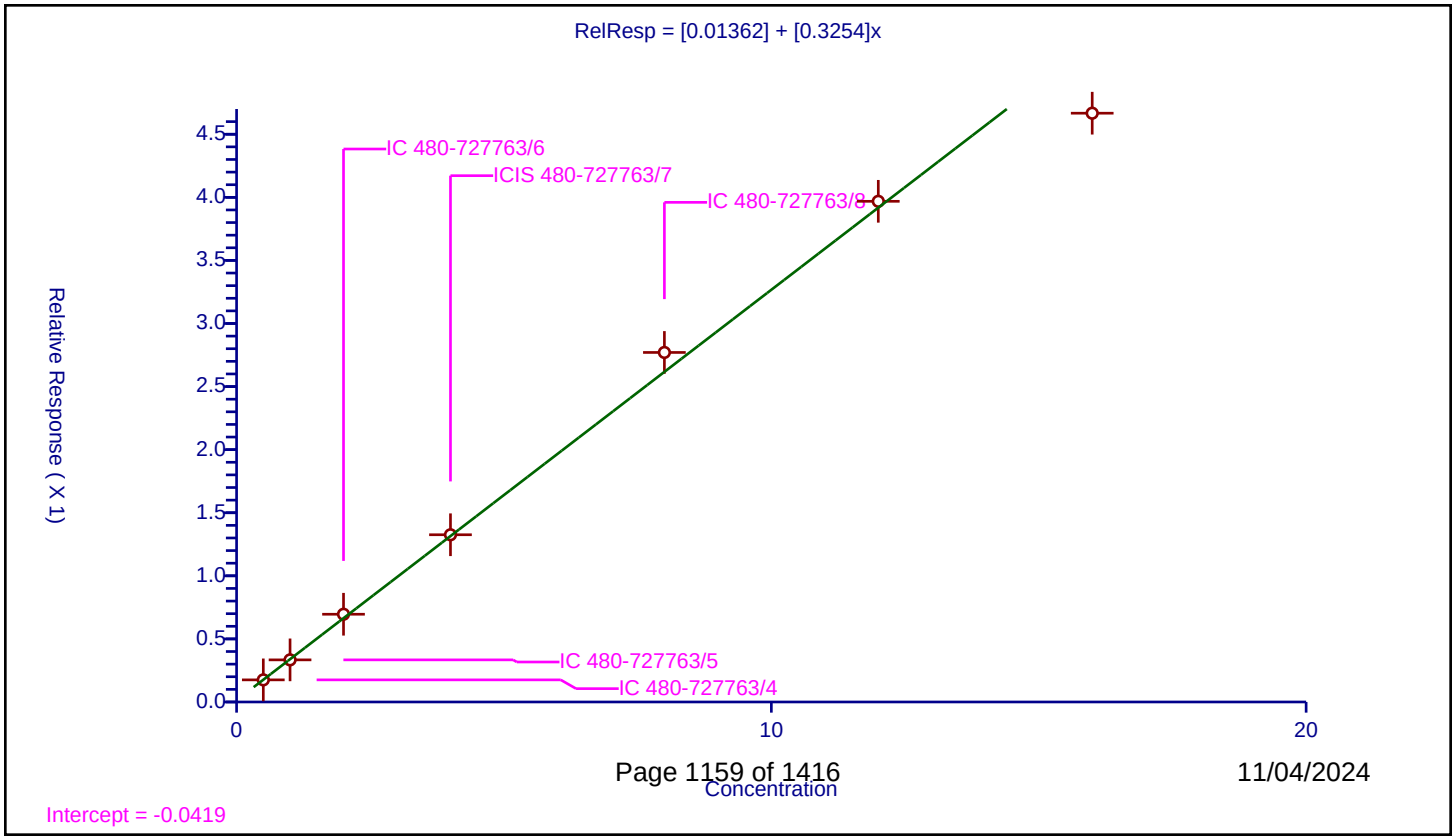
Curve Coefficients

Intercept:	0.01362
Slope:	0.3254

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.175343	4.0	425703.0	0.350686	Y
2	IC 480-727763/5	1.0	0.333766	4.0	436509.0	0.333766	Y
3	IC 480-727763/6	2.0	0.695549	4.0	440182.0	0.347774	Y
4	ICIS 480-727763/7	4.0	1.325464	4.0	455089.0	0.331366	Y
5	IC 480-727763/8	8.0	2.770495	4.0	415416.0	0.346312	Y
6	IC 480-727763/9	12.0	3.968562	4.0	433234.0	0.330714	Y
7	IC 480-727763/10	16.0	4.666779	4.0	438004.0	0.291674	Y



Calibration / n-Octadecane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

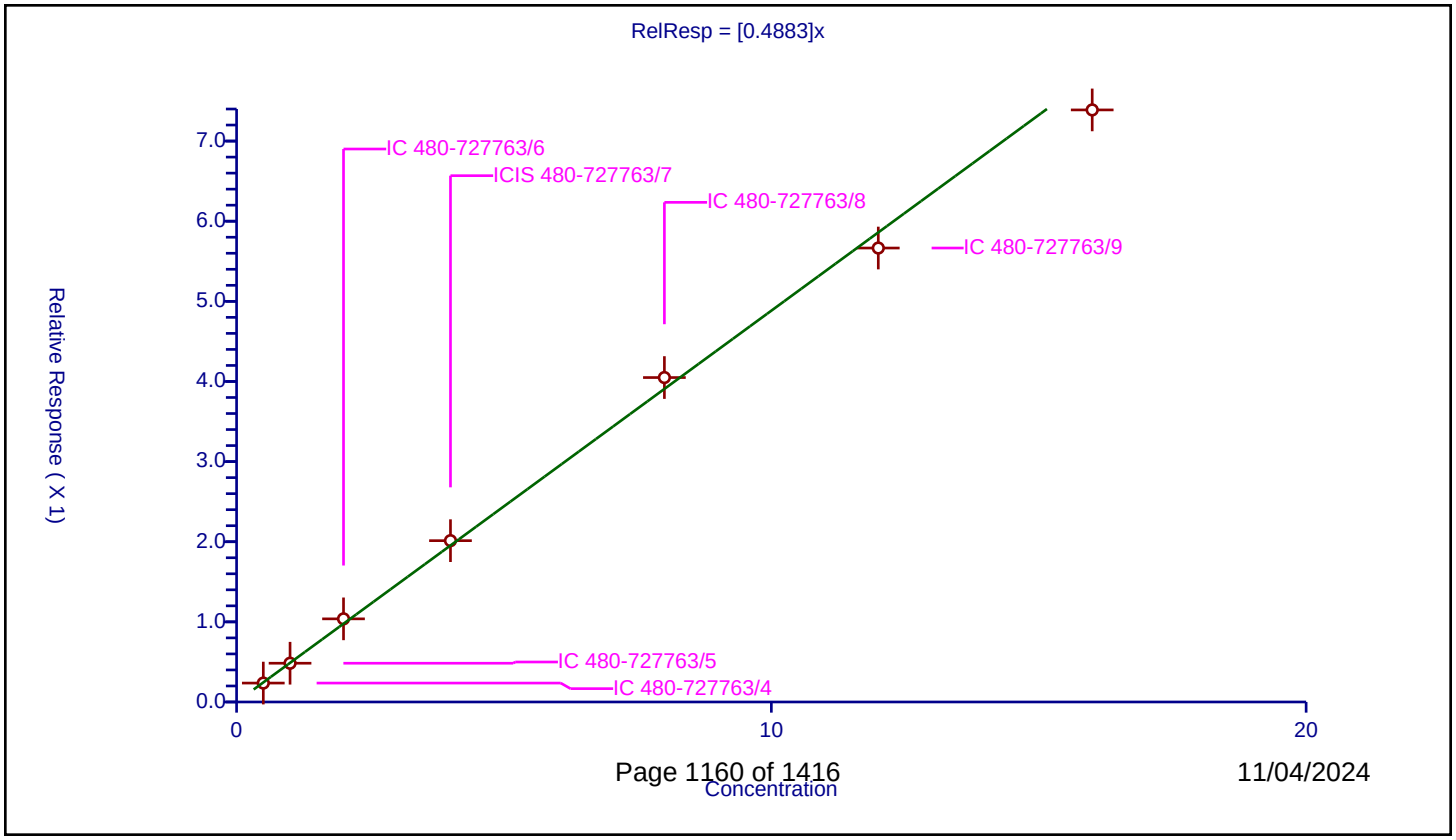
Curve Coefficients

Intercept:	0
Slope:	0.4883

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.236213	4.0	732507.0	0.472427	Y
2	IC 480-727763/5	1.0	0.483841	4.0	739822.0	0.483841	Y
3	IC 480-727763/6	2.0	1.037554	4.0	719816.0	0.518777	Y
4	ICIS 480-727763/7	4.0	2.013242	4.0	755758.0	0.503311	Y
5	IC 480-727763/8	8.0	4.048876	4.0	708238.0	0.50611	Y
6	IC 480-727763/9	12.0	5.665259	4.0	730313.0	0.472105	Y
7	IC 480-727763/10	16.0	7.388791	4.0	738805.0	0.461799	Y



Calibration / Pentachlorophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

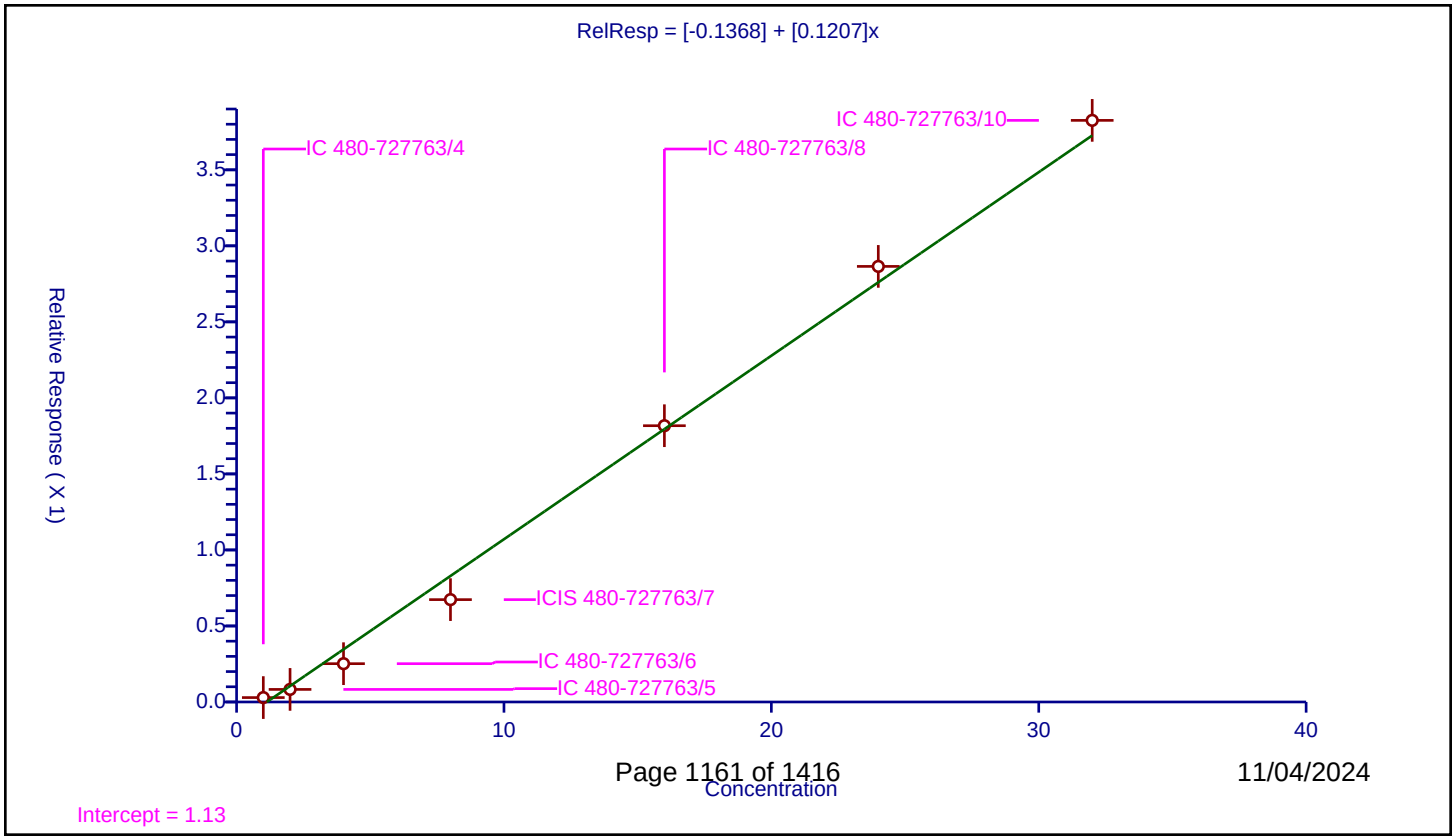
Curve Coefficients

Intercept:	-0.1368
Slope:	0.1207

Error Coefficients

Relative Standard Deviation:	20.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.028985	4.0	732507.0	0.028985	Y
2	IC 480-727763/5	2.0	0.082728	4.0	739822.0	0.041364	Y
3	IC 480-727763/6	4.0	0.252014	4.0	719816.0	0.063004	Y
4	ICIS 480-727763/7	8.0	0.673216	4.0	755758.0	0.084152	Y
5	IC 480-727763/8	16.0	1.817174	4.0	708238.0	0.113573	Y
6	IC 480-727763/9	24.0	2.864832	4.0	730313.0	0.119368	Y
7	IC 480-727763/10	32.0	3.825291	4.0	738805.0	0.11954	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

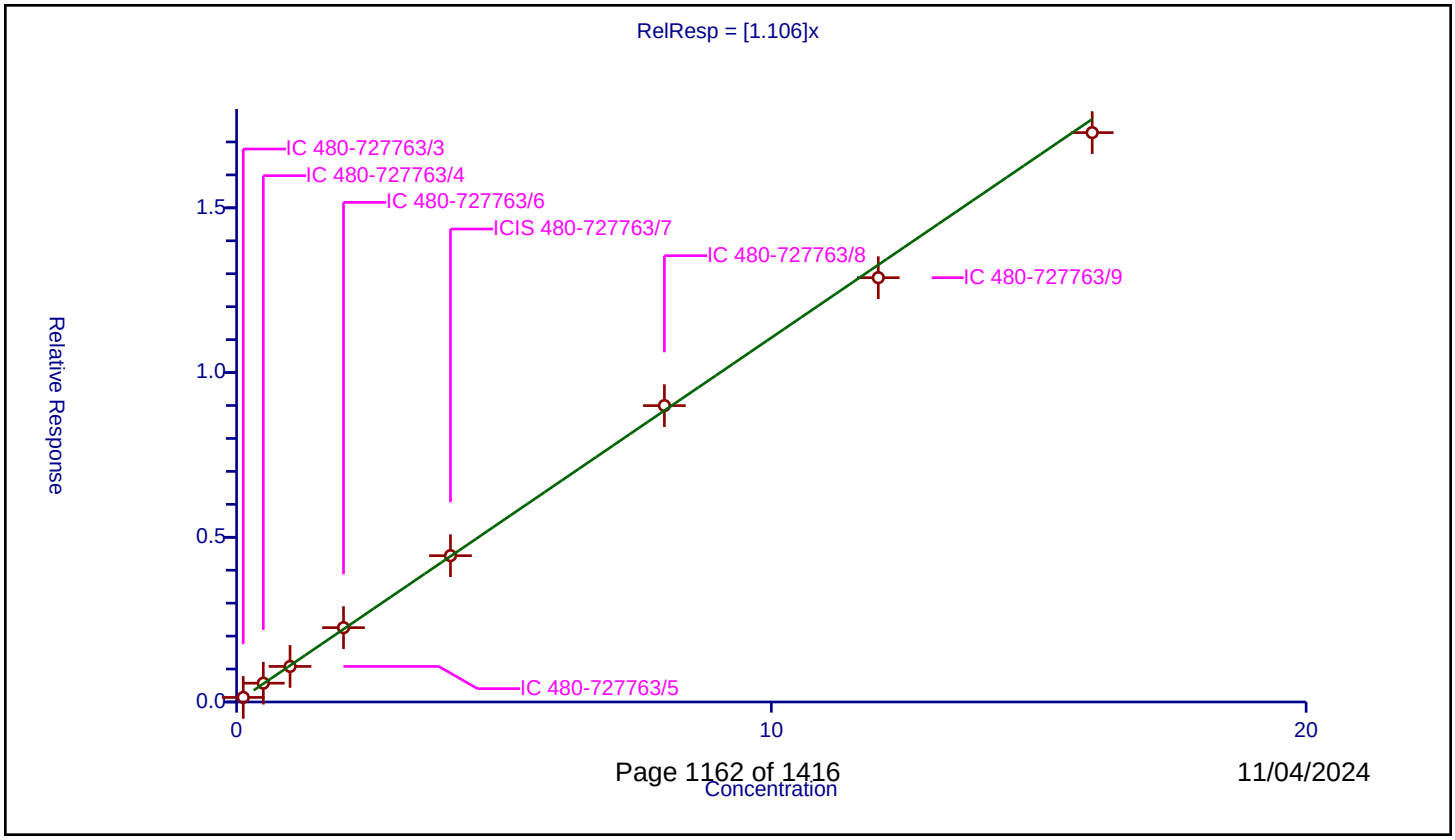
Curve Coefficients

Intercept:	0
Slope:	1.106

Error Coefficients

Relative Standard Deviation:	2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.138482	4.0	713621.0	1.10786	Y
2	IC 480-727763/4	0.5	0.571238	4.0	732507.0	1.142476	Y
3	IC 480-727763/5	1.0	1.079406	4.0	739822.0	1.079406	Y
4	IC 480-727763/6	2.0	2.256099	4.0	719816.0	1.128049	Y
5	ICIS 480-727763/7	4.0	4.441491	4.0	755758.0	1.110373	Y
6	IC 480-727763/8	8.0	8.996337	4.0	708238.0	1.124542	Y
7	IC 480-727763/9	12.0	12.880006	4.0	730313.0	1.073334	Y
8	IC 480-727763/10	16.0	17.283857	4.0	738805.0	1.080241	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

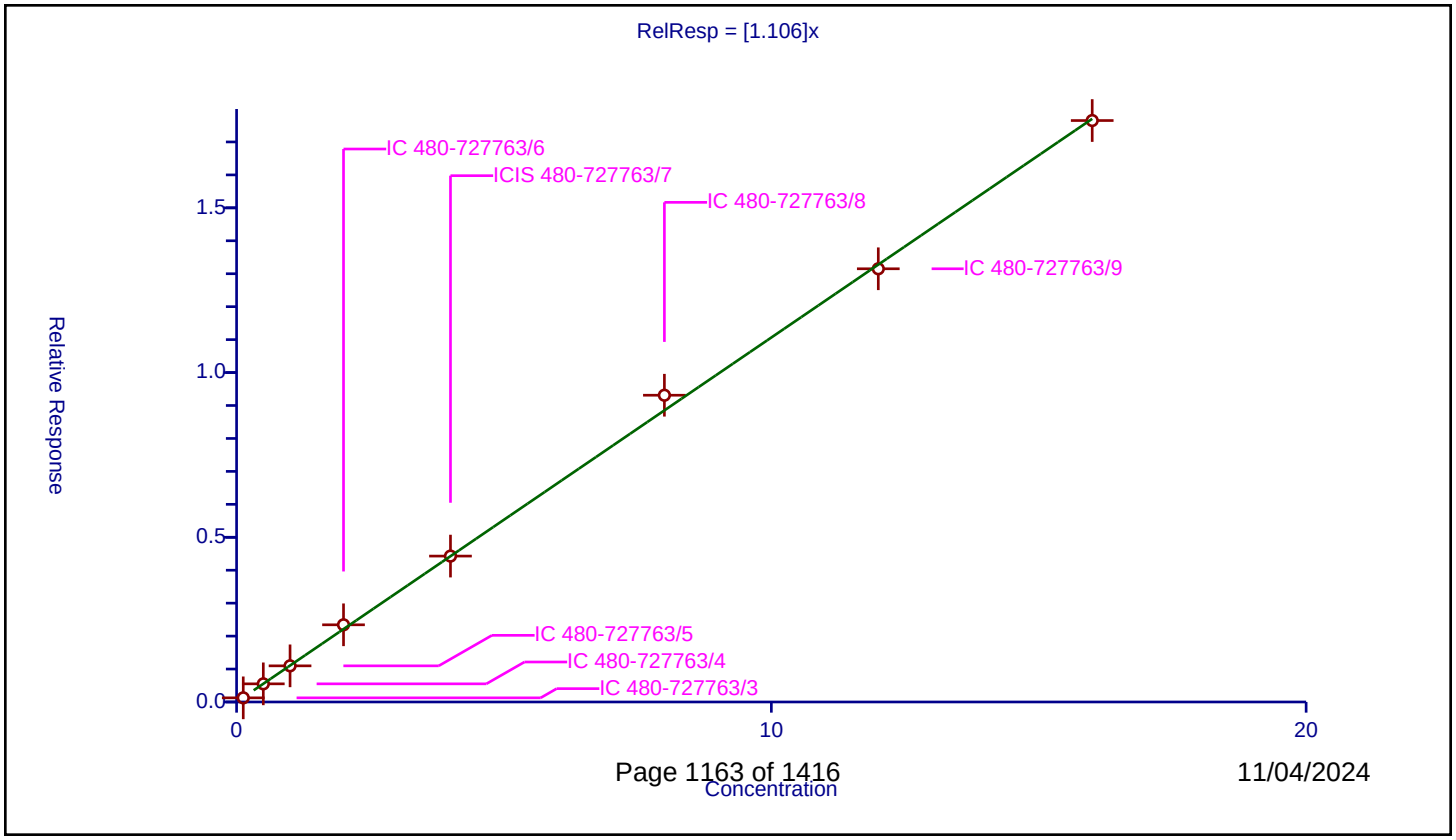
Curve Coefficients

Intercept:	0
Slope:	1.106

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.126252	4.0	713621.0	1.010015	Y
2	IC 480-727763/4	0.5	0.550837	4.0	732507.0	1.101674	Y
3	IC 480-727763/5	1.0	1.09761	4.0	739822.0	1.09761	Y
4	IC 480-727763/6	2.0	2.343304	4.0	719816.0	1.171652	Y
5	ICIS 480-727763/7	4.0	4.429365	4.0	755758.0	1.107341	Y
6	IC 480-727763/8	8.0	9.311678	4.0	708238.0	1.16396	Y
7	IC 480-727763/9	12.0	13.150126	4.0	730313.0	1.095844	Y
8	IC 480-727763/10	16.0	17.650335	4.0	738805.0	1.103146	Y



Calibration / Carbazole

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

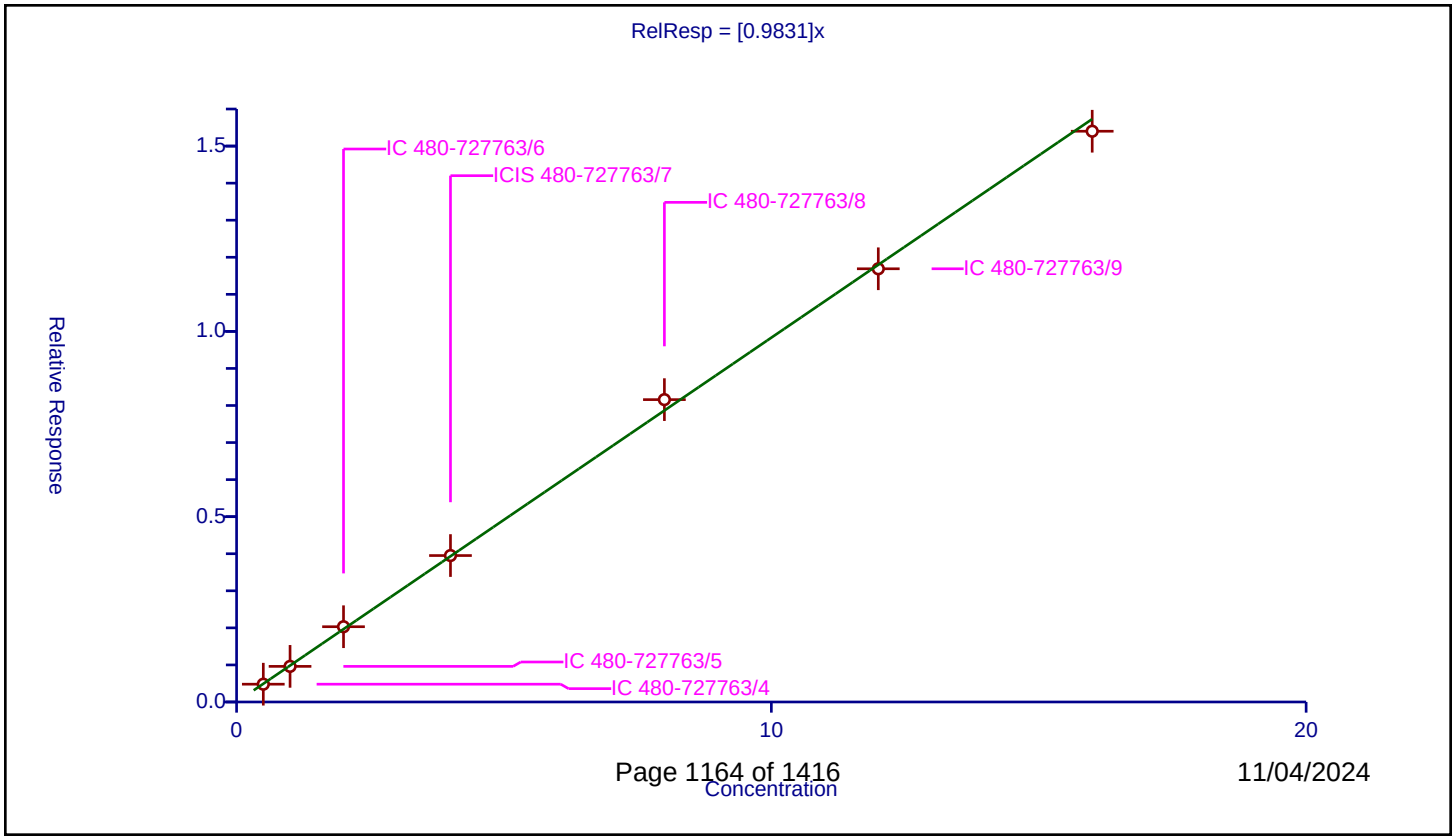
Curve Coefficients

Intercept:	0
Slope:	0.9831

Error Coefficients

Relative Standard Deviation:	2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.480334	4.0	732507.0	0.960668	Y
2	IC 480-727763/5	1.0	0.961264	4.0	739822.0	0.961264	Y
3	IC 480-727763/6	2.0	2.030563	4.0	719816.0	1.015282	Y
4	ICIS 480-727763/7	4.0	3.95136	4.0	755758.0	0.98784	Y
5	IC 480-727763/8	8.0	8.158178	4.0	708238.0	1.019772	Y
6	IC 480-727763/9	12.0	11.689131	4.0	730313.0	0.974094	Y
7	IC 480-727763/10	16.0	15.40067	4.0	738805.0	0.962542	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

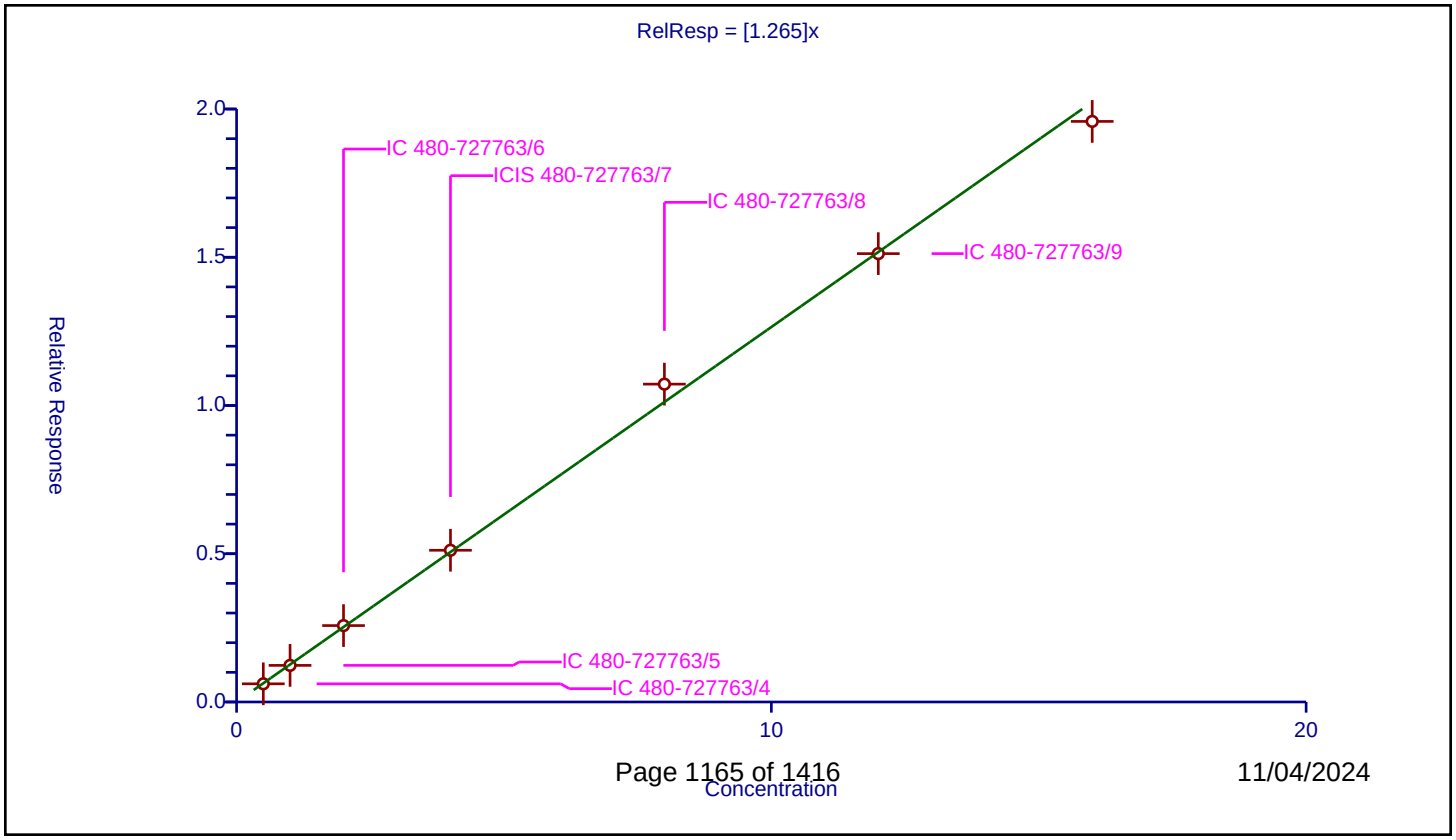
Curve Coefficients

Intercept:	0
Slope:	1.265

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.612942	4.0	732507.0	1.225883	Y
2	IC 480-727763/5	1.0	1.234659	4.0	739822.0	1.234659	Y
3	IC 480-727763/6	2.0	2.576836	4.0	719816.0	1.288418	Y
4	ICIS 480-727763/7	4.0	5.117612	4.0	755758.0	1.279403	Y
5	IC 480-727763/8	8.0	10.721091	4.0	708238.0	1.340136	Y
6	IC 480-727763/9	12.0	15.122688	4.0	730313.0	1.260224	Y
7	IC 480-727763/10	16.0	19.581936	4.0	738805.0	1.223871	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

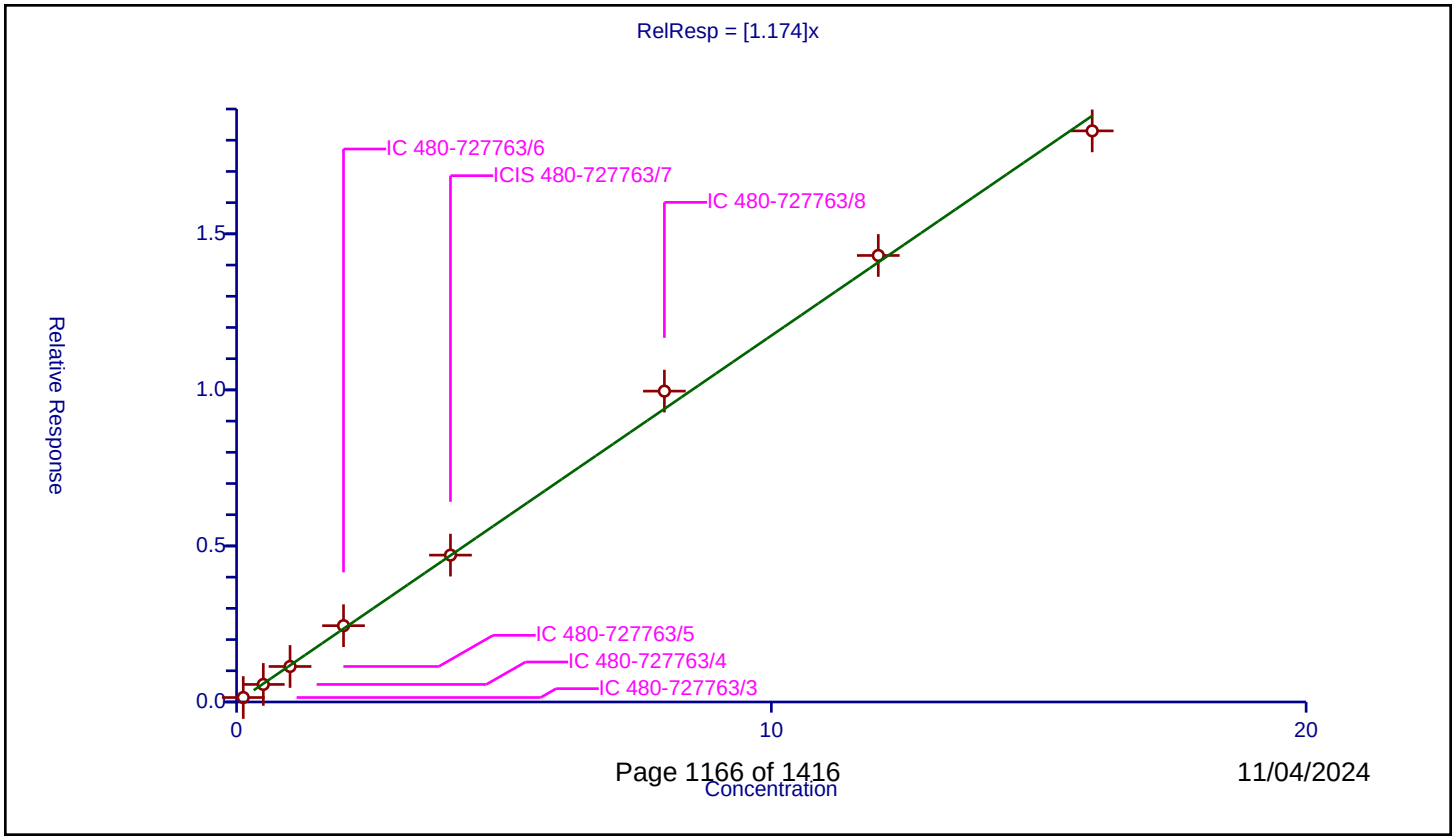
Curve Coefficients

Intercept:	0
Slope:	1.174

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.143499	4.0	713621.0	1.147993	Y
2	IC 480-727763/4	0.5	0.562834	4.0	732507.0	1.125668	Y
3	IC 480-727763/5	1.0	1.13809	4.0	739822.0	1.13809	Y
4	IC 480-727763/6	2.0	2.444658	4.0	719816.0	1.222329	Y
5	ICIS 480-727763/7	4.0	4.706025	4.0	755758.0	1.176506	Y
6	IC 480-727763/8	8.0	9.960347	4.0	708238.0	1.245043	Y
7	IC 480-727763/9	12.0	14.307646	4.0	730313.0	1.192304	Y
8	IC 480-727763/10	16.0	18.2996	4.0	738805.0	1.143725	Y



Calibration / Benzidine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

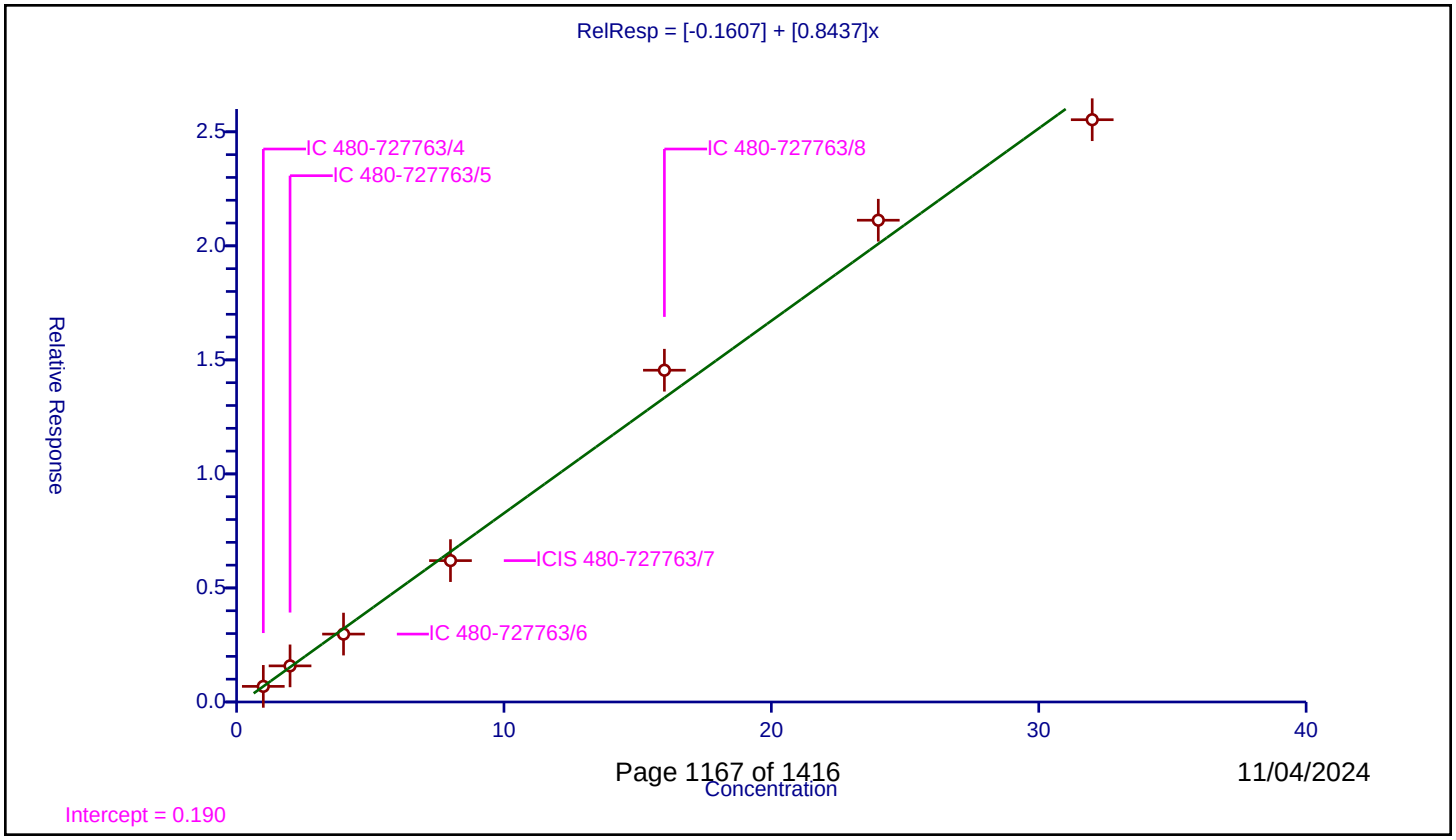
Curve Coefficients

Intercept:	-0.1607
Slope:	0.8437

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.684395	4.0	637234.0	0.684395	Y
2	IC 480-727763/5	2.0	1.583502	4.0	654448.0	0.791751	Y
3	IC 480-727763/6	4.0	2.977851	4.0	654159.0	0.744463	Y
4	ICIS 480-727763/7	8.0	6.199038	4.0	695335.0	0.77488	Y
5	IC 480-727763/8	16.0	14.546657	4.0	625760.0	0.909166	Y
6	IC 480-727763/9	24.0	21.124023	4.0	646275.0	0.880168	Y
7	IC 480-727763/10	32.0	25.530627	4.0	685110.0	0.797832	Y



11/04/2024

Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

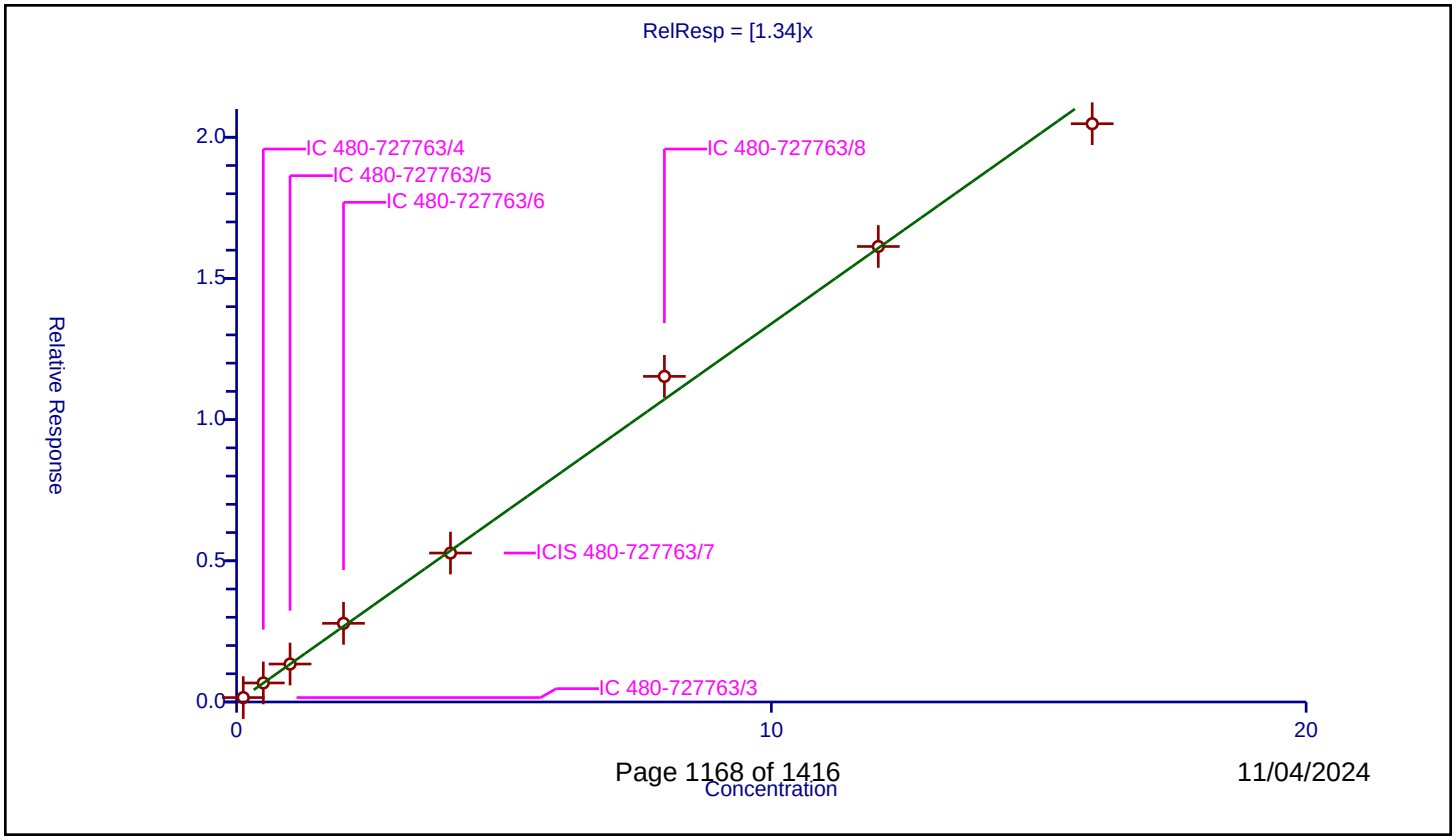
Curve Coefficients

Intercept:	0
Slope:	1.34

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.155859	4.0	629775.0	1.246871	Y
2	IC 480-727763/4	0.5	0.673975	4.0	637234.0	1.347951	Y
3	IC 480-727763/5	1.0	1.344804	4.0	654448.0	1.344804	Y
4	IC 480-727763/6	2.0	2.785323	4.0	654159.0	1.392661	Y
5	ICIS 480-727763/7	4.0	5.27485	4.0	695335.0	1.318713	Y
6	IC 480-727763/8	8.0	11.531341	4.0	625760.0	1.441418	Y
7	IC 480-727763/9	12.0	16.131622	4.0	646275.0	1.344302	Y
8	IC 480-727763/10	16.0	20.479281	4.0	685110.0	1.279955	Y



Calibration / p-Terphenyl-d14

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

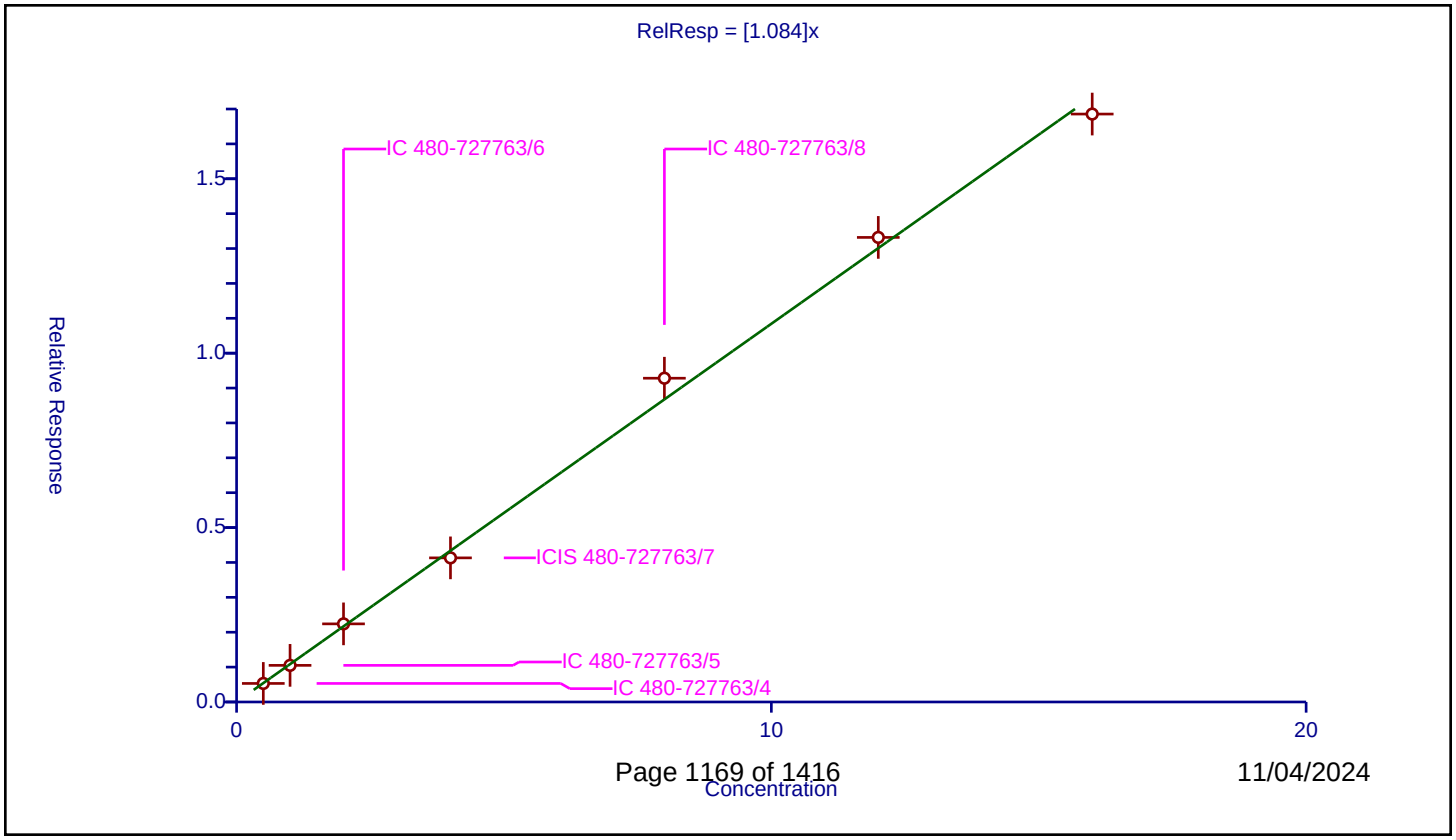
Curve Coefficients

Intercept:	0
Slope:	1.084

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.531855	4.0	637234.0	1.06371	Y
2	IC 480-727763/5	1.0	1.050039	4.0	654448.0	1.050039	Y
3	IC 480-727763/6	2.0	2.239645	4.0	654159.0	1.119823	Y
4	ICIS 480-727763/7	4.0	4.131942	4.0	695335.0	1.032986	Y
5	IC 480-727763/8	8.0	9.282345	4.0	625760.0	1.160293	Y
6	IC 480-727763/9	12.0	13.319154	4.0	646275.0	1.109929	Y
7	IC 480-727763/10	16.0	16.85553	4.0	685110.0	1.053471	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

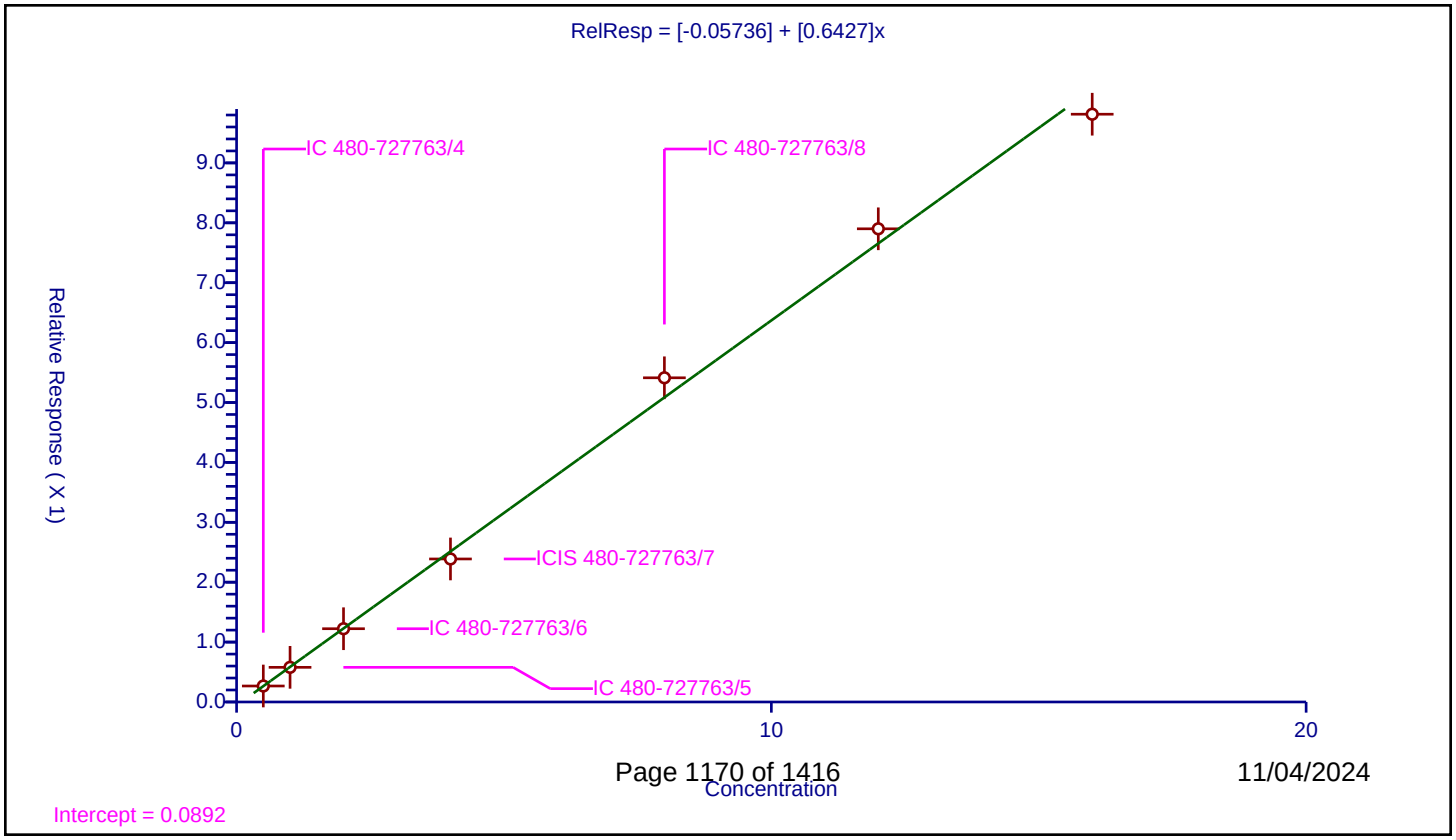
Curve Coefficients

Intercept:	-0.05736
Slope:	0.6427

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.266721	4.0	637234.0	0.533443	Y
2	IC 480-727763/5	1.0	0.578527	4.0	654448.0	0.578527	Y
3	IC 480-727763/6	2.0	1.223005	4.0	654159.0	0.611503	Y
4	ICIS 480-727763/7	4.0	2.387718	4.0	695335.0	0.59693	Y
5	IC 480-727763/8	8.0	5.412522	4.0	625760.0	0.676565	Y
6	IC 480-727763/9	12.0	7.900129	4.0	646275.0	0.658344	Y
7	IC 480-727763/10	16.0	9.812988	4.0	685110.0	0.613312	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

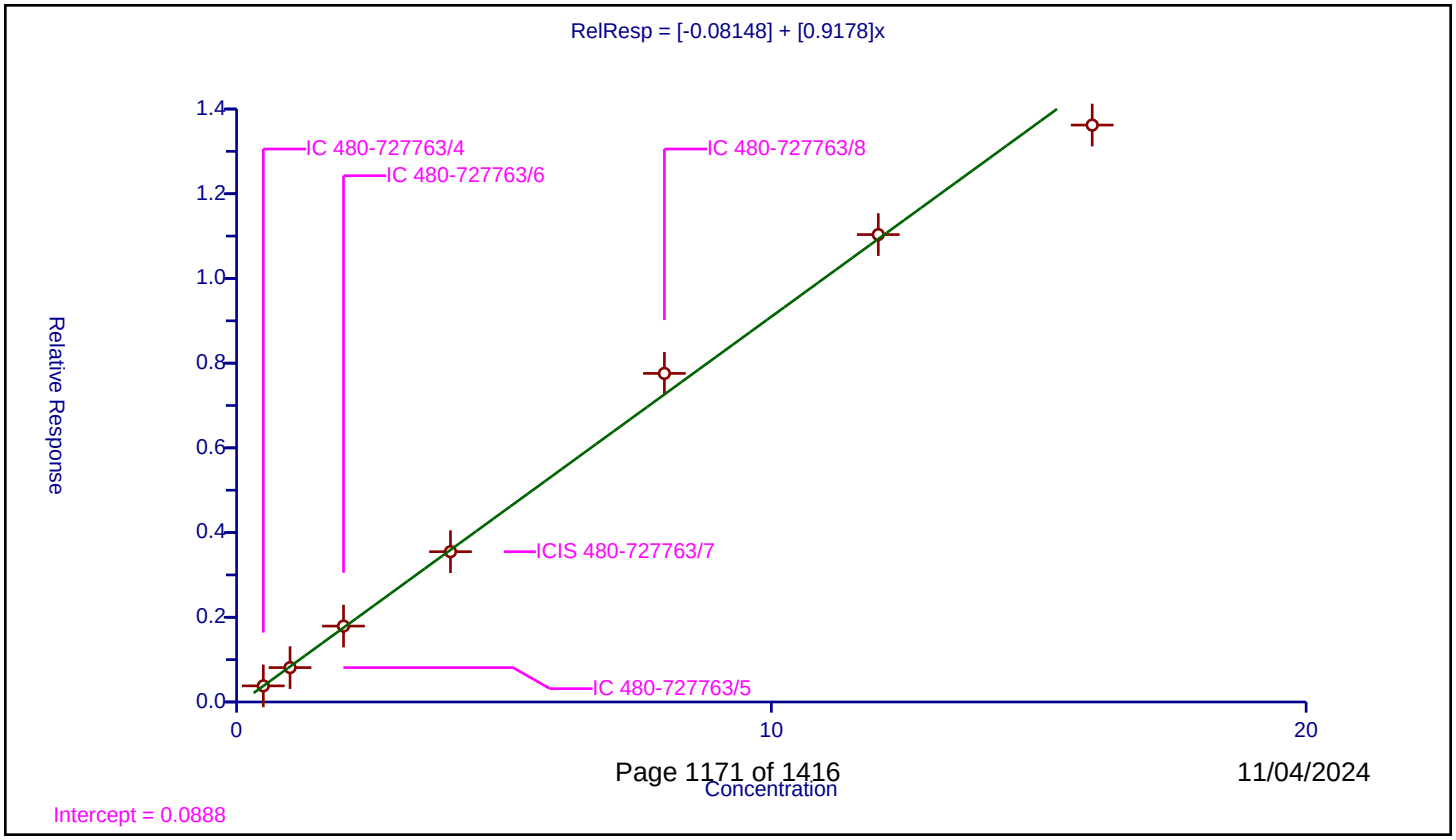
Curve Coefficients

Intercept:	-0.08148
Slope:	0.9178

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.380607	4.0	637234.0	0.761215	Y
2	IC 480-727763/5	1.0	0.81208	4.0	654448.0	0.81208	Y
3	IC 480-727763/6	2.0	1.79239	4.0	654159.0	0.896195	Y
4	ICIS 480-727763/7	4.0	3.548482	4.0	695335.0	0.887121	Y
5	IC 480-727763/8	8.0	7.757594	4.0	625760.0	0.969699	Y
6	IC 480-727763/9	12.0	11.03542	4.0	646275.0	0.919618	Y
7	IC 480-727763/10	16.0	13.621205	4.0	685110.0	0.851325	Y



Calibration / 3,3'-Dichlorobenzidine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

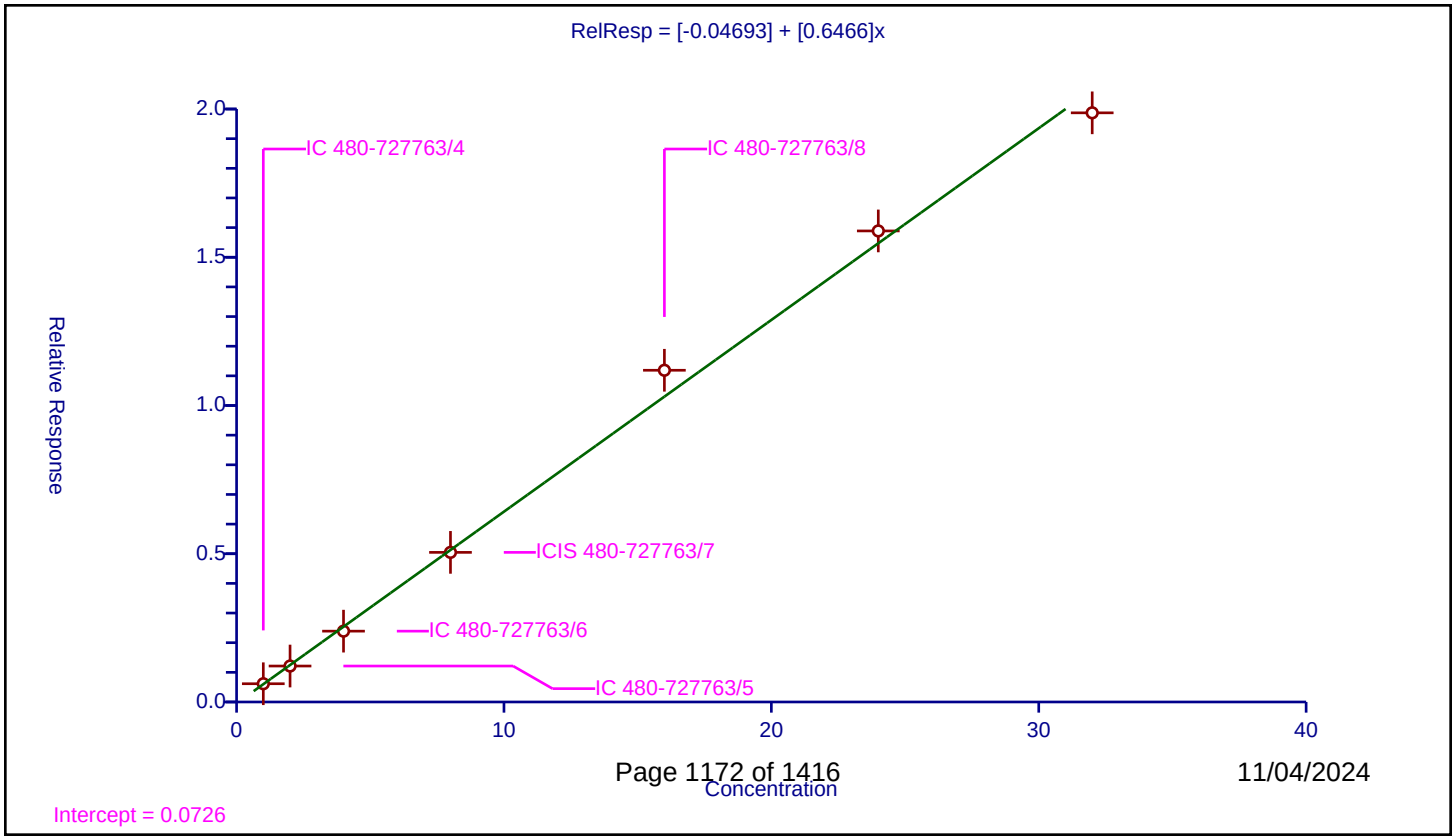
Curve Coefficients

Intercept:	-0.04693
Slope:	0.6466

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.615328	4.0	637234.0	0.615328	Y
2	IC 480-727763/5	2.0	1.212442	4.0	654448.0	0.606221	Y
3	IC 480-727763/6	4.0	2.389315	4.0	654159.0	0.597329	Y
4	ICIS 480-727763/7	8.0	5.045833	4.0	695335.0	0.630729	Y
5	IC 480-727763/8	16.0	11.188353	4.0	625760.0	0.699272	Y
6	IC 480-727763/9	24.0	15.888066	4.0	646275.0	0.662003	Y
7	IC 480-727763/10	32.0	19.871752	4.0	685110.0	0.620992	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

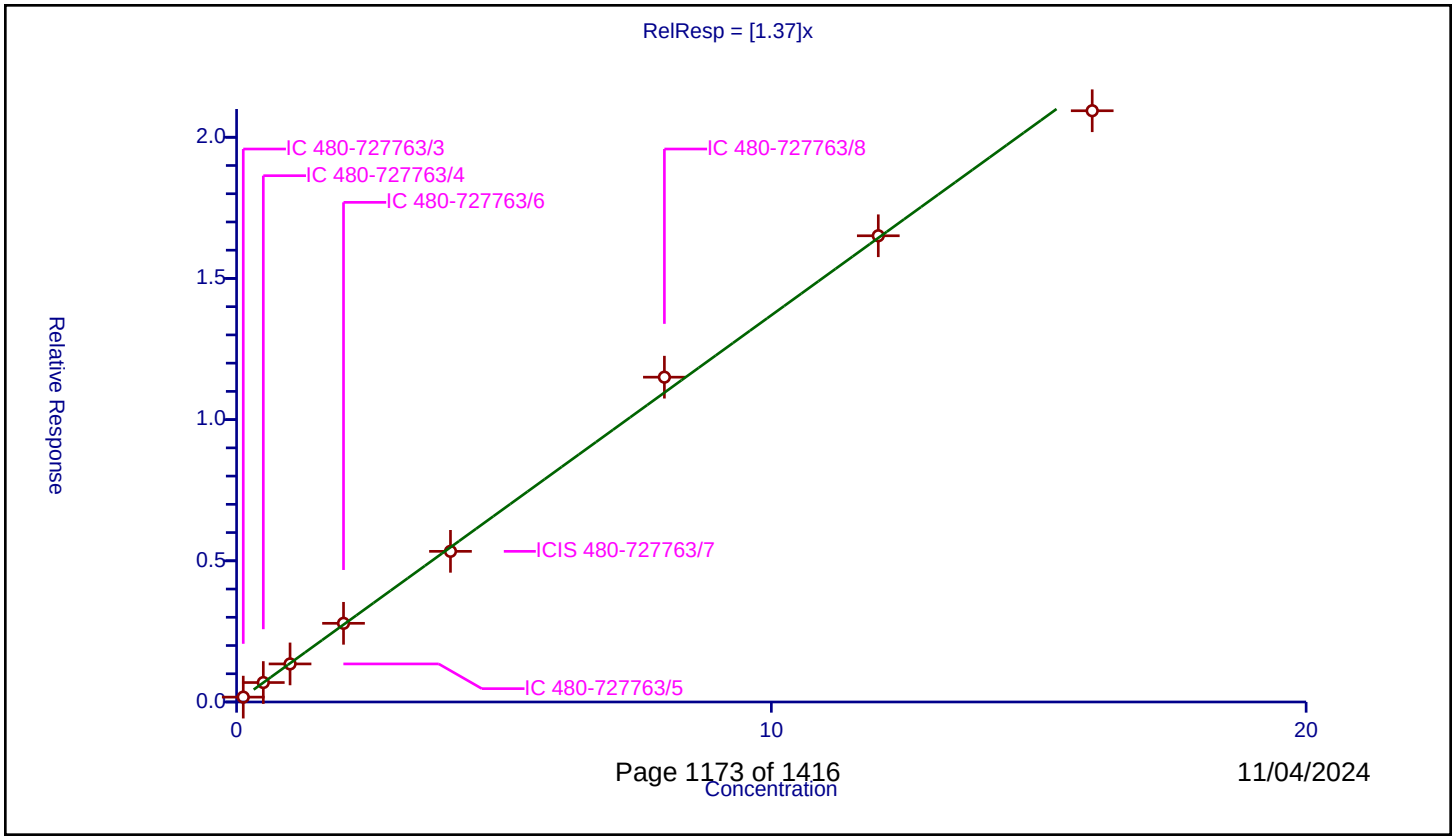
Curve Coefficients

Intercept:	0
Slope:	1.37

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.172671	4.0	629775.0	1.38137	Y
2	IC 480-727763/4	0.5	0.689103	4.0	637234.0	1.378206	Y
3	IC 480-727763/5	1.0	1.347725	4.0	654448.0	1.347725	Y
4	IC 480-727763/6	2.0	2.786381	4.0	654159.0	1.39319	Y
5	ICIS 480-727763/7	4.0	5.335086	4.0	695335.0	1.333771	Y
6	IC 480-727763/8	8.0	11.503394	4.0	625760.0	1.437924	Y
7	IC 480-727763/9	12.0	16.511423	4.0	646275.0	1.375952	Y
8	IC 480-727763/10	16.0	20.938641	4.0	685110.0	1.308665	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

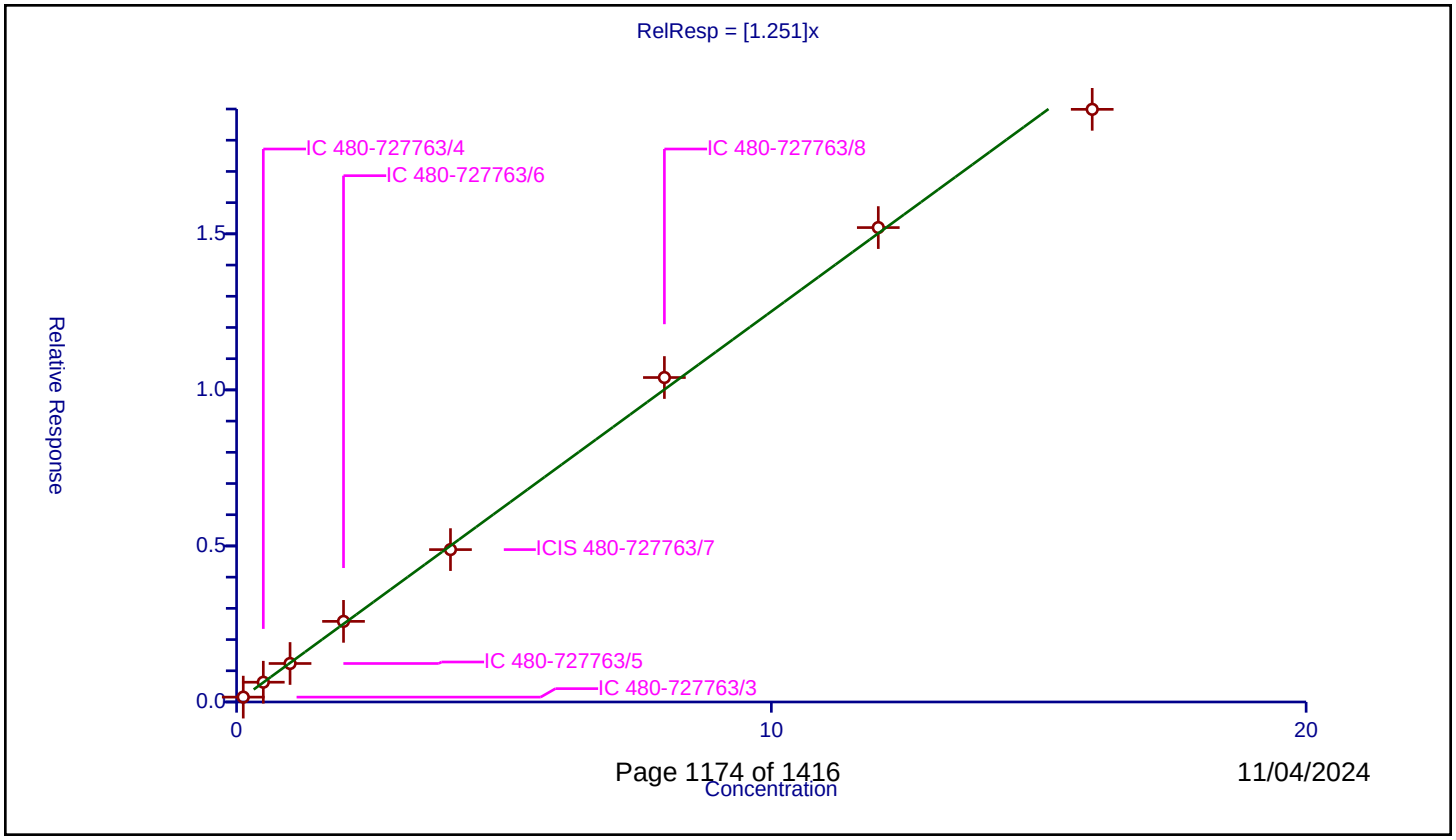
Curve Coefficients

Intercept:	0
Slope:	1.251

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.155687	4.0	629775.0	1.245499	Y
2	IC 480-727763/4	0.5	0.633526	4.0	637234.0	1.267051	Y
3	IC 480-727763/5	1.0	1.233223	4.0	654448.0	1.233223	Y
4	IC 480-727763/6	2.0	2.583451	4.0	654159.0	1.291726	Y
5	ICIS 480-727763/7	4.0	4.882953	4.0	695335.0	1.220738	Y
6	IC 480-727763/8	8.0	10.396293	4.0	625760.0	1.299537	Y
7	IC 480-727763/9	12.0	15.201294	4.0	646275.0	1.266774	Y
8	IC 480-727763/10	16.0	18.989406	4.0	685110.0	1.186838	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

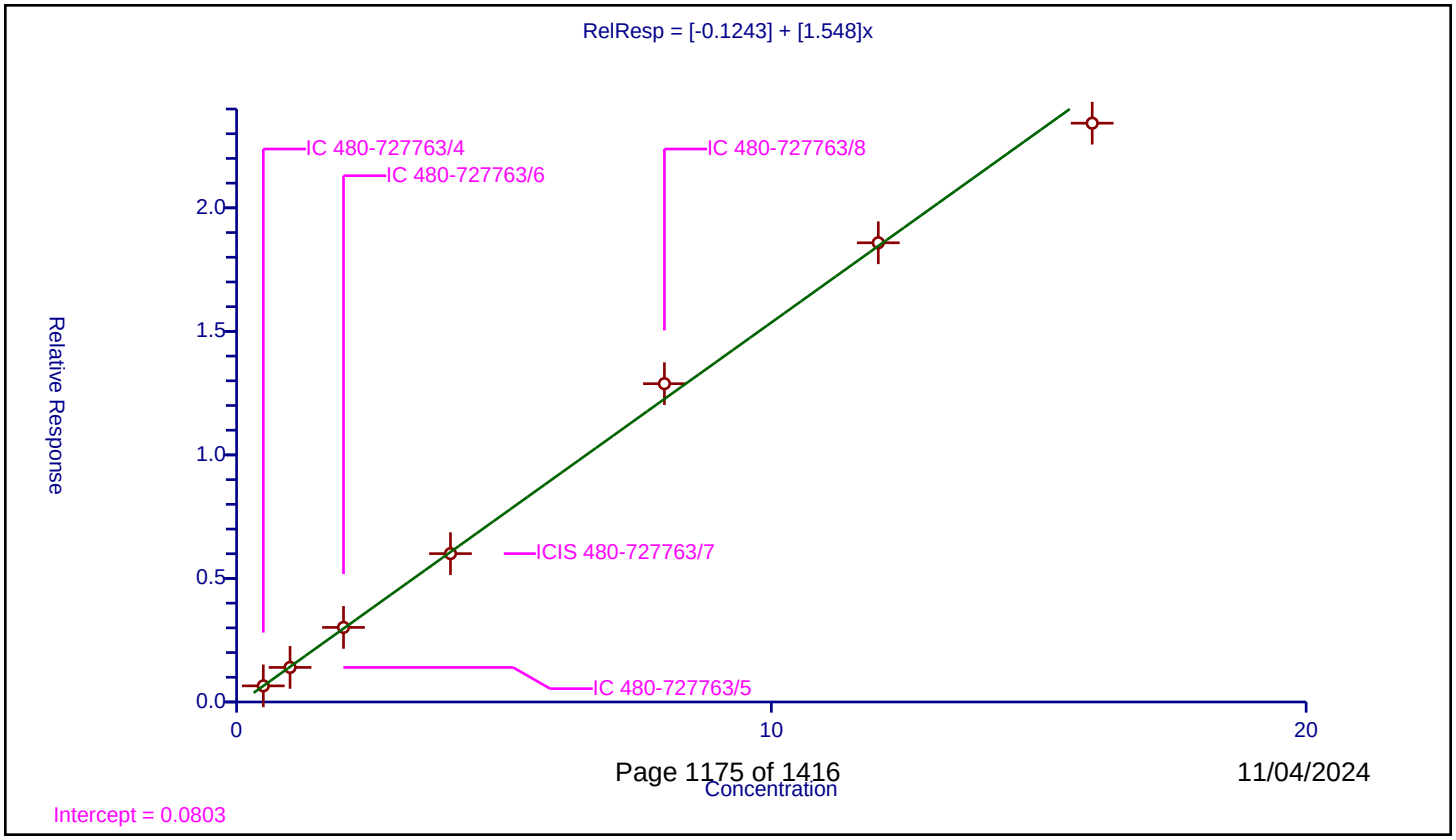
Curve Coefficients

Intercept:	-0.1243
Slope:	1.548

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.652765	4.0	637234.0	1.30553	Y
2	IC 480-727763/5	1.0	1.399298	4.0	654448.0	1.399298	Y
3	IC 480-727763/6	2.0	3.017994	4.0	654159.0	1.508997	Y
4	ICIS 480-727763/7	4.0	6.004565	4.0	695335.0	1.501141	Y
5	IC 480-727763/8	8.0	12.883514	4.0	625760.0	1.610439	Y
6	IC 480-727763/9	12.0	18.586645	4.0	646275.0	1.548887	Y
7	IC 480-727763/10	16.0	23.426568	4.0	685110.0	1.46416	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

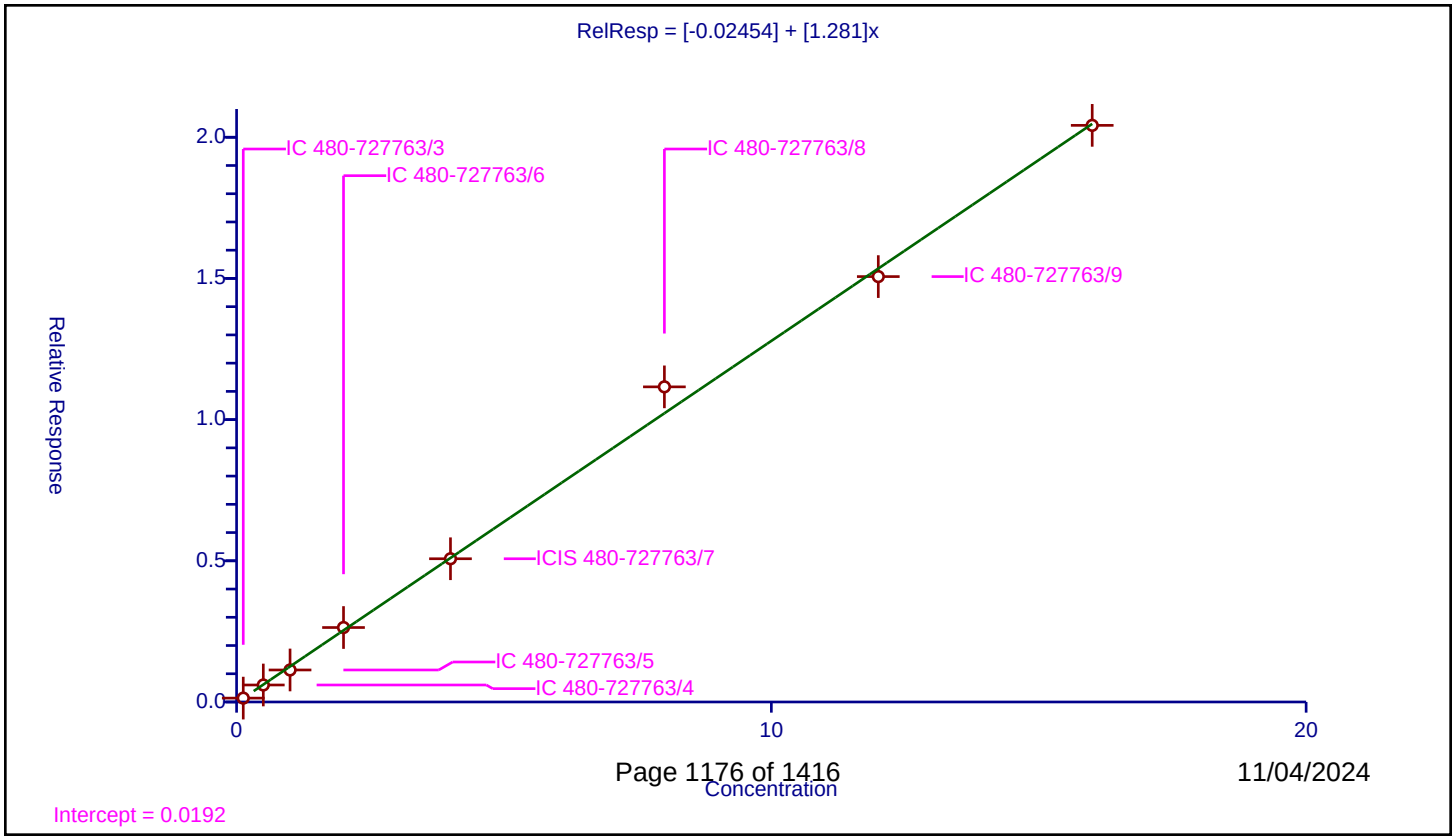
Curve Coefficients

Intercept:	-0.02454
Slope:	1.281

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.137853	4.0	714615.0	1.102826	Y
2	IC 480-727763/4	0.5	0.60177	4.0	680758.0	1.203541	Y
3	IC 480-727763/5	1.0	1.134205	4.0	739443.0	1.134205	Y
4	IC 480-727763/6	2.0	2.637422	4.0	725592.0	1.318711	Y
5	ICIS 480-727763/7	4.0	5.072624	4.0	758890.0	1.268156	Y
6	IC 480-727763/8	8.0	11.160422	4.0	700280.0	1.395053	Y
7	IC 480-727763/9	12.0	15.065392	4.0	721419.0	1.255449	Y
8	IC 480-727763/10	16.0	20.420984	4.0	756124.0	1.276311	Y



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Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

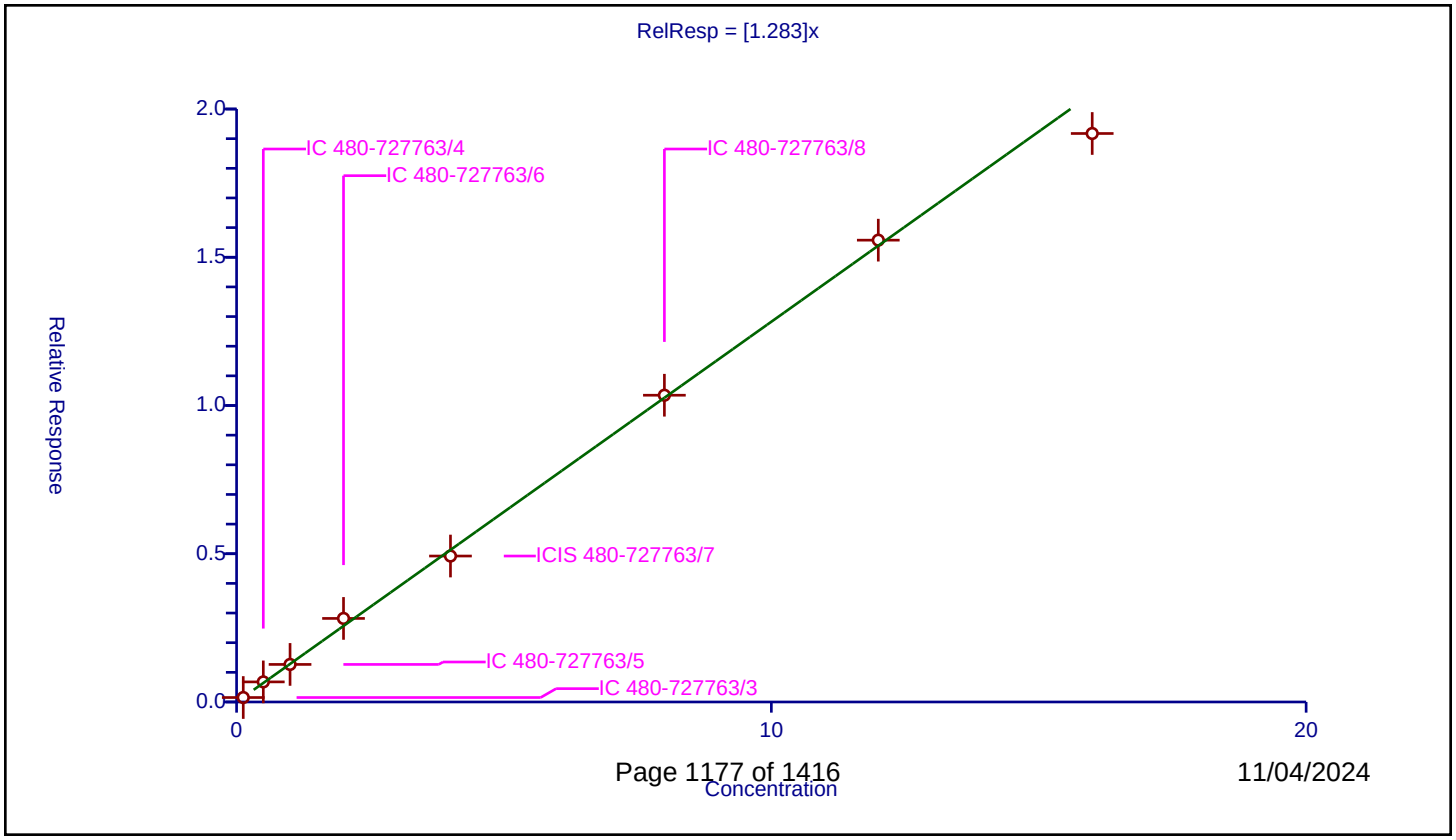
Curve Coefficients

Intercept:	0
Slope:	1.283

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.150962	4.0	714615.0	1.207699	Y
2	IC 480-727763/4	0.5	0.678079	4.0	680758.0	1.356159	Y
3	IC 480-727763/5	1.0	1.266775	4.0	739443.0	1.266775	Y
4	IC 480-727763/6	2.0	2.818047	4.0	725592.0	1.409023	Y
5	ICIS 480-727763/7	4.0	4.923422	4.0	758890.0	1.230856	Y
6	IC 480-727763/8	8.0	10.34673	4.0	700280.0	1.293341	Y
7	IC 480-727763/9	12.0	15.57639	4.0	721419.0	1.298033	Y
8	IC 480-727763/10	16.0	19.173892	4.0	756124.0	1.198368	Y



Calibration / Benzo[a]pyrene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

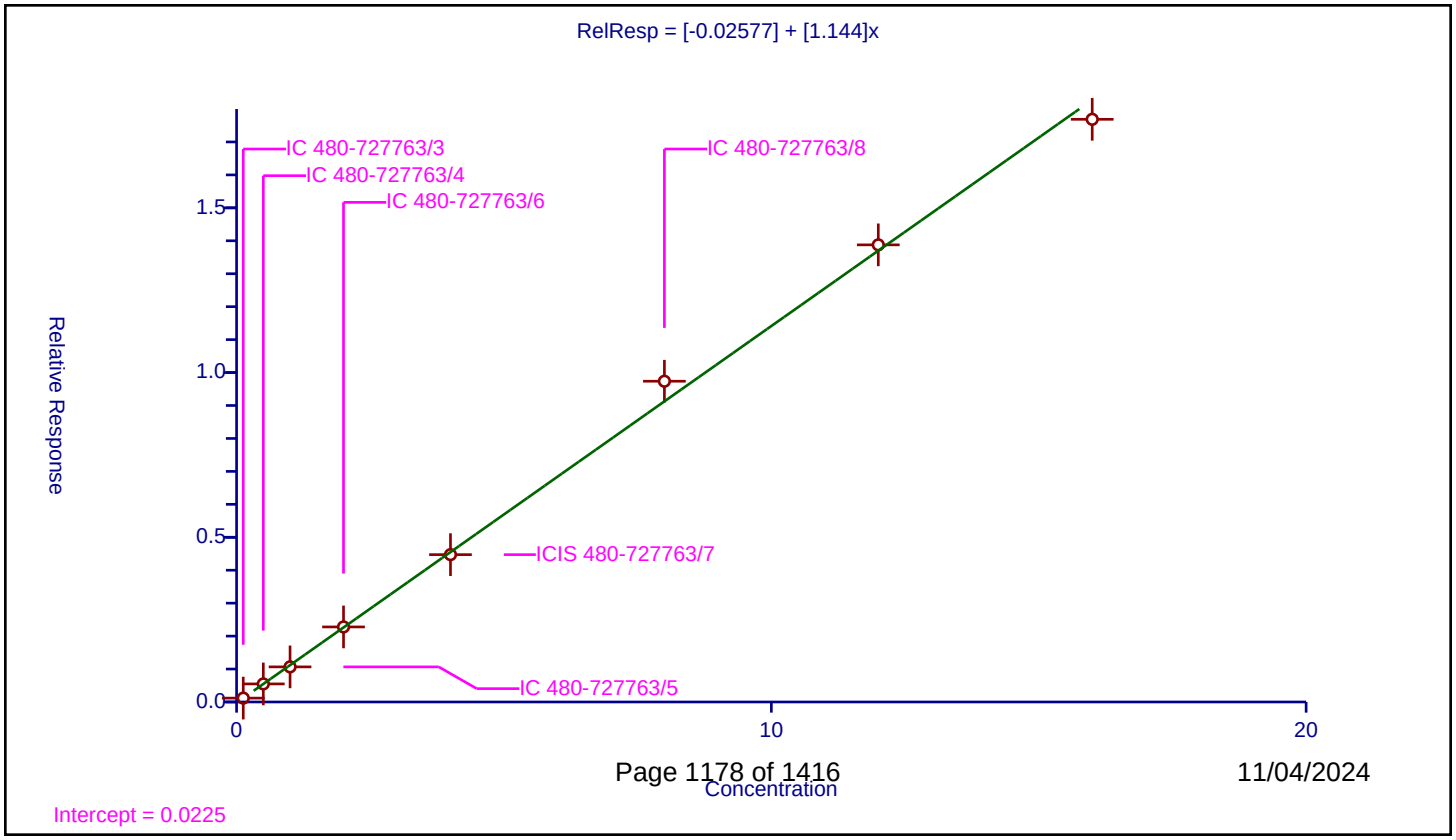
Curve Coefficients

Intercept:	-0.02577
Slope:	1.144

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.11777	4.0	714615.0	0.942158	Y
2	IC 480-727763/4	0.5	0.548207	4.0	680758.0	1.096413	Y
3	IC 480-727763/5	1.0	1.065835	4.0	739443.0	1.065835	Y
4	IC 480-727763/6	2.0	2.278366	4.0	725592.0	1.139183	Y
5	ICIS 480-727763/7	4.0	4.472458	4.0	758890.0	1.118115	Y
6	IC 480-727763/8	8.0	9.736922	4.0	700280.0	1.217115	Y
7	IC 480-727763/9	12.0	13.87669	4.0	721419.0	1.156391	Y
8	IC 480-727763/10	16.0	17.687607	4.0	756124.0	1.105475	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

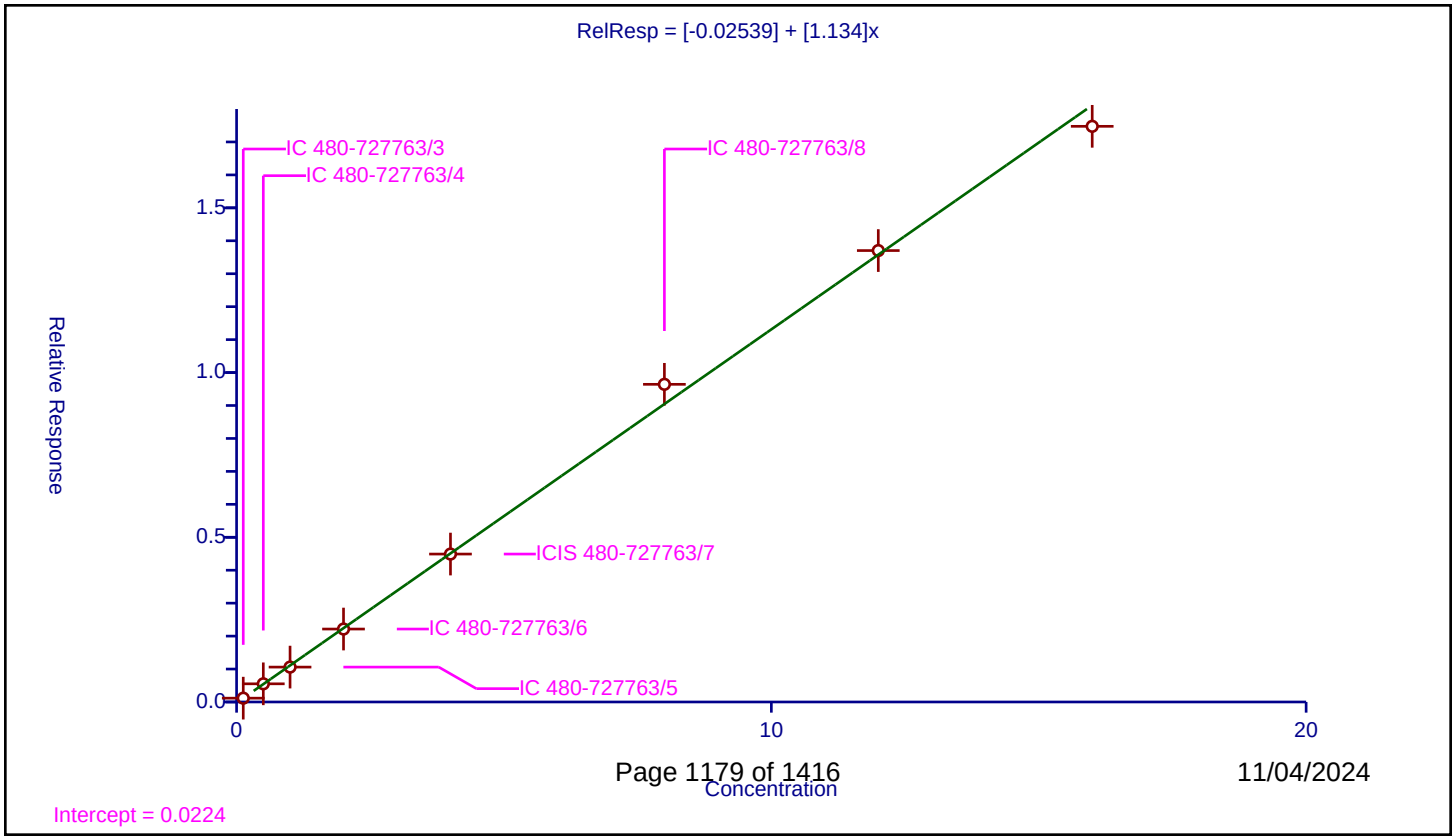
Curve Coefficients

Intercept:	-0.02539
Slope:	1.134

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.116426	4.0	714615.0	0.931411	Y
2	IC 480-727763/4	0.5	0.551897	4.0	680758.0	1.103793	Y
3	IC 480-727763/5	1.0	1.059452	4.0	739443.0	1.059452	Y
4	IC 480-727763/6	2.0	2.214093	4.0	725592.0	1.107046	Y
5	ICIS 480-727763/7	4.0	4.49029	4.0	758890.0	1.122572	Y
6	IC 480-727763/8	8.0	9.642766	4.0	700280.0	1.205346	Y
7	IC 480-727763/9	12.0	13.703088	4.0	721419.0	1.141924	Y
8	IC 480-727763/10	16.0	17.475012	4.0	756124.0	1.092188	Y



Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

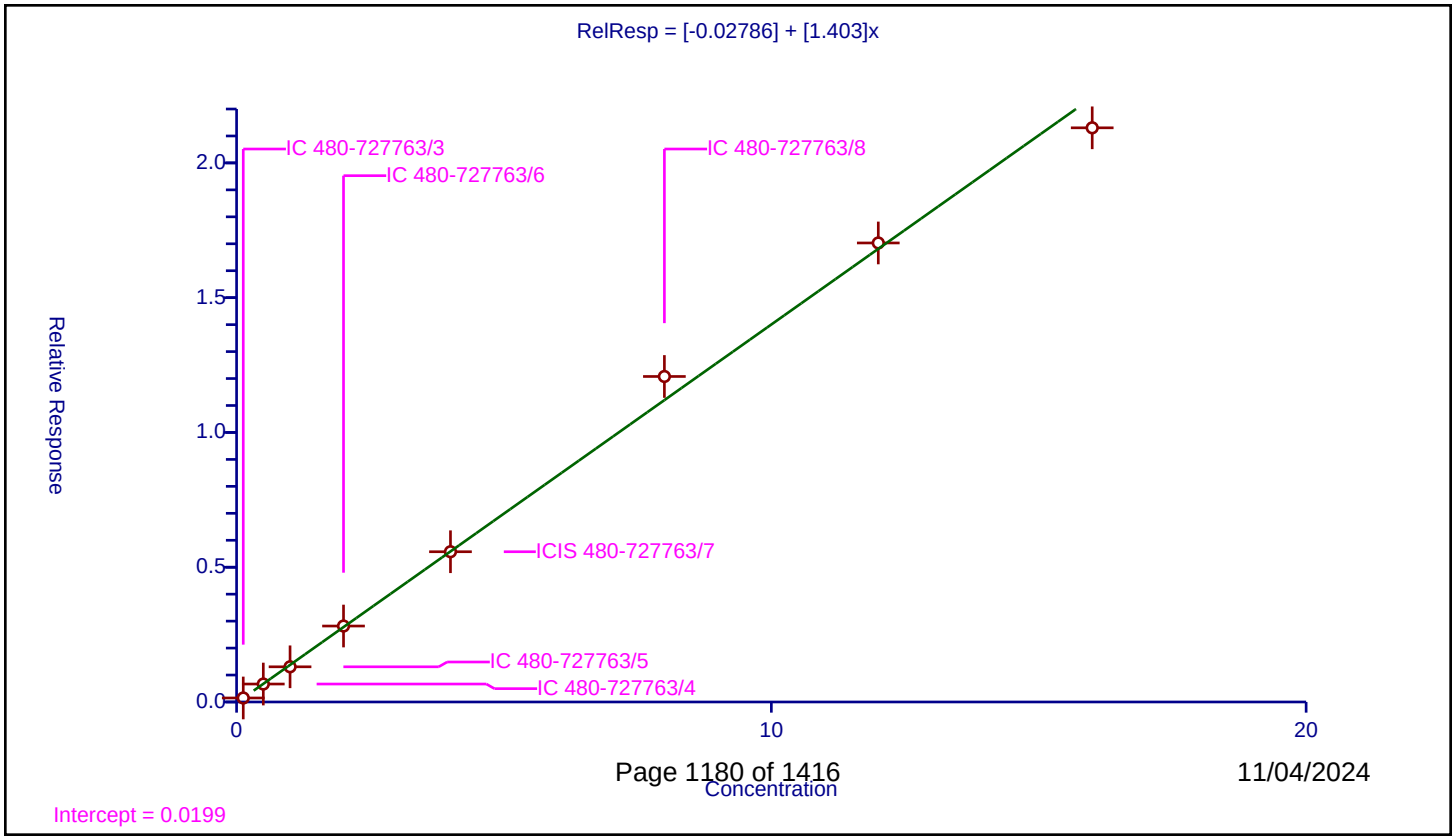
Curve Coefficients

Intercept:	-0.02786
Slope:	1.403

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.148796	4.0	714615.0	1.19037	Y
2	IC 480-727763/4	0.5	0.666392	4.0	680758.0	1.332785	Y
3	IC 480-727763/5	1.0	1.305669	4.0	739443.0	1.305669	Y
4	IC 480-727763/6	2.0	2.818278	4.0	725592.0	1.409139	Y
5	ICIS 480-727763/7	4.0	5.5749	4.0	758890.0	1.393725	Y
6	IC 480-727763/8	8.0	12.076204	4.0	700280.0	1.509525	Y
7	IC 480-727763/9	12.0	17.030353	4.0	721419.0	1.419196	Y
8	IC 480-727763/10	16.0	21.302919	4.0	756124.0	1.331432	Y



Calibration / Benzo[g,h,i]perylene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

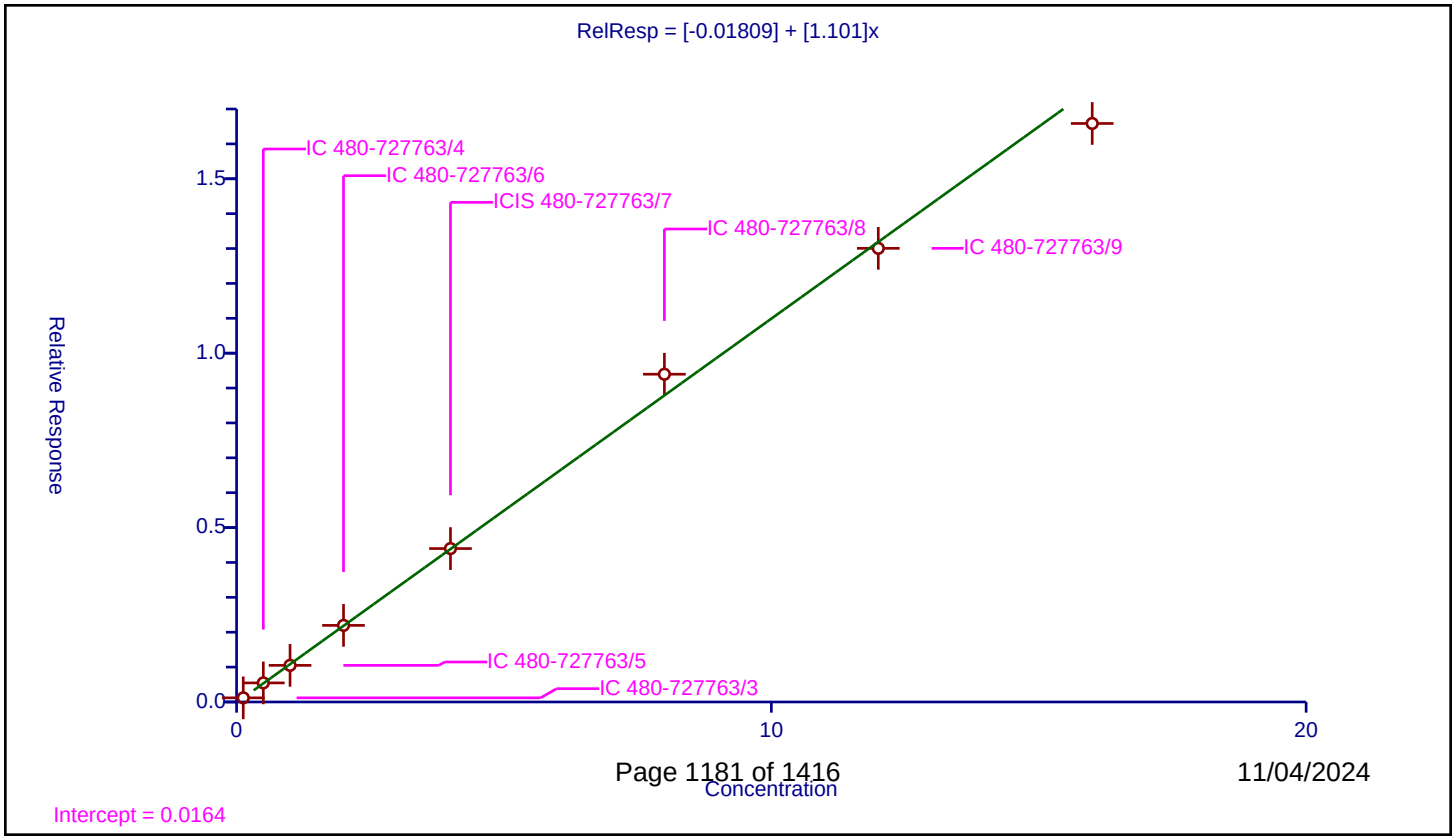
Curve Coefficients

Intercept:	-0.01809
Slope:	1.101

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.118979	4.0	714615.0	0.95183	Y
2	IC 480-727763/4	0.5	0.546726	4.0	680758.0	1.093452	Y
3	IC 480-727763/5	1.0	1.050299	4.0	739443.0	1.050299	Y
4	IC 480-727763/6	2.0	2.196342	4.0	725592.0	1.098171	Y
5	ICIS 480-727763/7	4.0	4.398756	4.0	758890.0	1.099689	Y
6	IC 480-727763/8	8.0	9.397275	4.0	700280.0	1.174659	Y
7	IC 480-727763/9	12.0	13.006372	4.0	721419.0	1.083864	Y
8	IC 480-727763/10	16.0	16.585962	4.0	756124.0	1.036623	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID (1): ICIS 480-727763/7 Instrument ID (1): HP5973Y

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 10/10/2024 16:37

ANALYTE	RT	RESOLUTION (%)
Benzo(b)fluoranthene	14.18	31.80

Resolution Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04079.D
Injection Date: 10-Oct-2024 16:37:30 Instrument ID: HP5973Y
Lims ID: ICIS - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

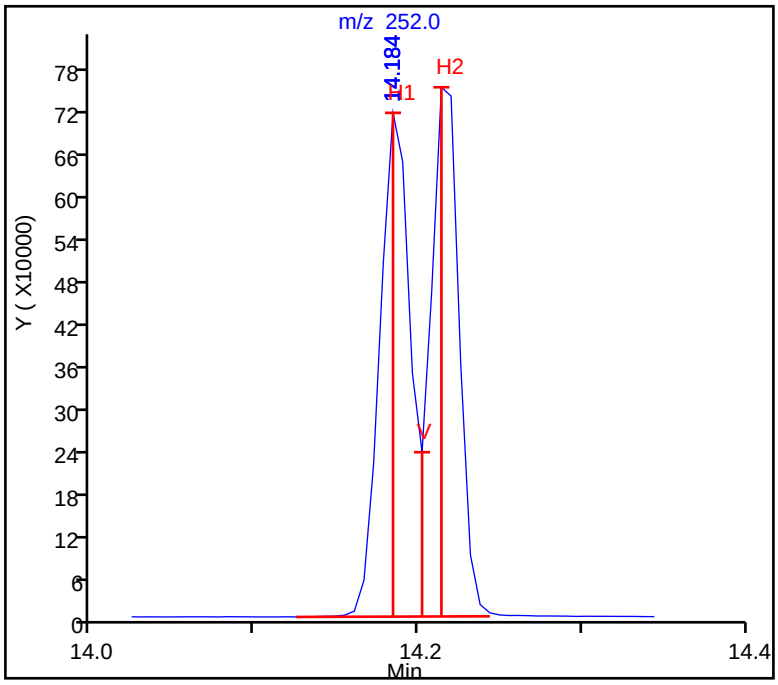
186 Benzo[b]fluoranthene - 187 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 231286
H1(186 Benzo[b]fluoranthen) = 709053
H2(187 Benzo[k]fluoranthen) = 744860

Version D: %R = 31.8 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID (1): CCVIS 480-730212/3 Instrument ID (1): HP5973Y

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 10/29/2024 11:44

ANALYTE	RT	RESOLUTION (%)
Benzo(b)fluoranthene	14.01	30.50

Resolution Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04572.D
Injection Date: 29-Oct-2024 11:44:30 Instrument ID: HP5973Y
Lims ID: CCVIS
Client ID:
Operator ID: JM ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

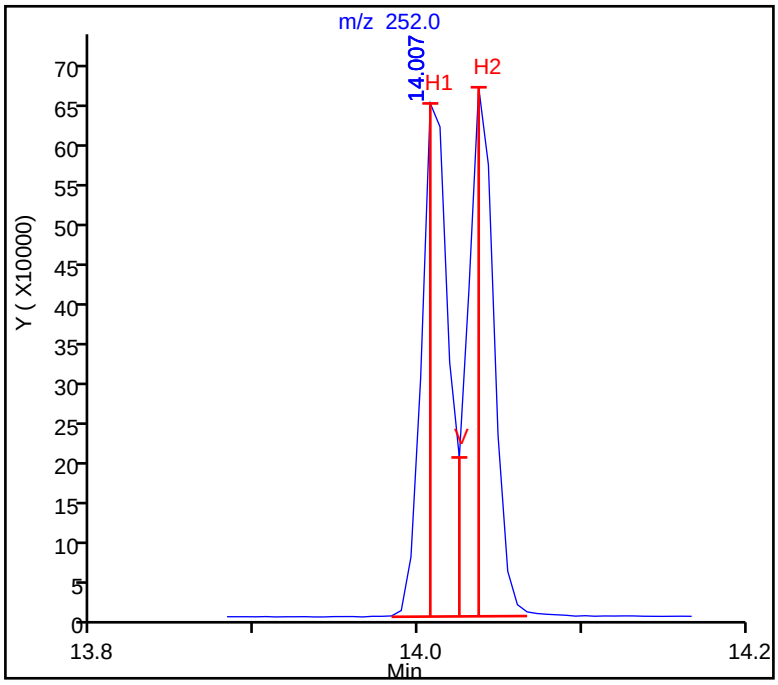
186 Benzo[b]fluoranthene - 187 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 201305
H1(186 Benzo[b]fluoranthen) = 649769
H2(187 Benzo[k]fluoranthen) = 669903

Version D: %R = 30.5 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID (1): CCVIS 480-730403/3 Instrument ID (1): HP5973Y

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 10/30/2024 10:18

ANALYTE	RT	RESOLUTION (%)
Benzo(b)fluoranthene	14.01	30.30

Resolution Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04602.D				
Injection Date:	30-Oct-2024 10:18:30	Instrument ID:	HP5973Y		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	JM	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

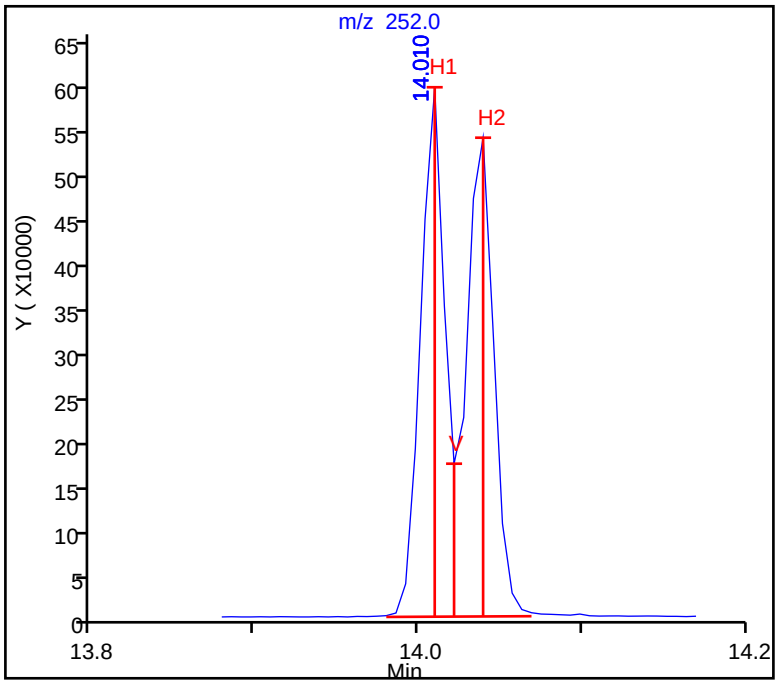
186 Benzo[b]fluoranthene - 187 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 172407
H1(186 Benzo[b]fluoranthen) = 597029
H2(187 Benzo[k]fluoranthen) = 539858

Version D: %R = 30.3 <= 50.0
Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-727763/11 | Calibration Date: 10/10/2024 18:27

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04083.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4946	0.4960	0.0100	4010	4000	0.3	30.0
N-Nitrosodimethylamine	Ave	0.6291	0.6446	0.0100	4100	4000	2.5	50.0
Pyridine	Lin2		0.6198	0.0100	7130	8000	-10.9	50.0
Benzaldehyde	Lin2		1.050	0.0100	4370	4000	9.2	50.0
Phenol	Ave	1.548	1.560	0.8000	4030	4000	0.8	30.0
Aniline	Ave	1.889	1.900	0.0100	4020	4000	0.6	30.0
Bis(2-chloroethyl)ether	Lin2		1.252	0.7000	3920	4000	-2.0	30.0
n-Decane	Ave	1.489	1.457	0.0100	3920	4000	-2.1	30.0
2-Chlorophenol	Ave	1.288	1.335	0.8000	4150	4000	3.7	30.0
1,3-Dichlorobenzene	Ave	1.528	1.552	0.0100	4060	4000	1.6	30.0
1,4-Dichlorobenzene	Ave	1.565	1.595	0.0100	4080	4000	1.9	30.0
Benzyl alcohol	Lin2		0.8371	0.0100	4030	4000	0.9	30.0
1,2-Dichlorobenzene	Ave	1.468	1.504	0.0100	4100	4000	2.4	30.0
2-Methylphenol	Ave	1.174	1.220	0.7000	4160	4000	3.9	30.0
bis (2-chloroisopropyl) ether	Lin2		2.006	0.0100	4070	4000	1.7	30.0
Indene	Lin2		2.433	0.0100	25800	24000	7.5	30.0
4-Methylphenol	Ave	1.221	1.274	0.6000	4180	4000	4.4	30.0
N-Nitrosodi-n-propylamine	Ave	0.8823	0.8939	0.5000	4050	4000	1.3	30.0
Acetophenone	Ave	1.701	1.786	0.0100	4200	4000	5.0	30.0
Hexachloroethane	Ave	0.5953	0.5793	0.3000	3890	4000	-2.7	30.0
Nitrobenzene	Ave	0.3721	0.3694	0.2000	3970	4000	-0.7	30.0
Isophorone	Ave	0.6597	0.6615	0.4000	4010	4000	0.3	30.0
2-Nitrophenol	Lin2		0.1887	0.1000	4050	4000	1.3	30.0
2,4-Dimethylphenol	Ave	0.3484	0.3476	0.2000	3990	4000	-0.2	30.0
Bis(2-chloroethoxy)methane	Ave	0.4030	0.4018	0.3000	3990	4000	-0.3	30.0
Benzoic acid	Lin1		0.1244	0.0100	21800	24000	-9.2	50.0
2,4-Dichlorophenol	Lin2		0.3056	0.2000	4070	4000	1.7	30.0
1,2,4-Trichlorobenzene	Ave	0.3390	0.3432	0.0100	4050	4000	1.2	30.0
Naphthalene	Ave	1.057	1.074	0.7000	4070	4000	1.7	30.0
4-Chloroaniline	Ave	0.4039	0.4168	0.0100	4130	4000	3.2	30.0
2,6-Dichlorophenol	Ave	0.2965	0.2992	0.0100	4040	4000	0.9	30.0
Hexachlorobutadiene	Ave	0.1967	0.2001	0.0100	4070	4000	1.7	30.0
Caprolactam	Lin2		0.1054	0.0100	3910	4000	-2.2	50.0
4-Chloro-3-methylphenol	Lin2		0.2910	0.2000	4080	4000	2.0	30.0
2-Methylnaphthalene	Ave	0.6518	0.7069	0.4000	4340	4000	8.5	30.0
1-Methylnaphthalene	Ave	0.6626	0.6636	0.0100	4010	4000	0.2	30.0
Hexachlorocyclopentadiene	Lin2		0.1965	0.0500	3370	4000	-15.9	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5921	0.6009	0.0100	4060	4000	1.5	30.0
2,4,6-Trichlorophenol	Lin2		0.3564	0.2000	3950	4000	-1.3	30.0
2,4,5-Trichlorophenol	Lin2		0.3854	0.2000	4050	4000	1.2	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-727763/11 | Calibration Date: 10/10/2024 18:27

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04083.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.467	1.489	0.0100	4060	4000	1.5	30.0
2-Chloronaphthalene	Ave	1.173	1.196	0.8000	4080	4000	2.0	30.0
2-Nitroaniline	Lin2		0.3280	0.0100	4040	4000	1.1	30.0
Dimethyl phthalate	Ave	1.270	1.305	0.0100	4110	4000	2.8	30.0
1,3-Dinitrobenzene	Lin2		0.1165	0.0100	4150	4000	3.8	30.0
2,6-Dinitrotoluene	Lin2		0.2889	0.2000	3950	4000	-1.2	30.0
Acenaphthylene	Ave	1.772	1.955	0.9000	4410	4000	10.3	30.0
3-Nitroaniline	Lin2		0.3022	0.0100	4050	4000	1.3	30.0
Acenaphthene	Ave	1.186	1.251	0.9000	4220	4000	5.5	30.0
2,4-Dinitrophenol	Lin1		0.0992	0.0100	7450	8000	-6.9	30.0
4-Nitrophenol	Lin2		0.1308	0.0100	8450	8000	5.6	30.0
2,4-Dinitrotoluene	Lin2		0.3990	0.2000	4240	4000	6.1	30.0
Dibenzofuran	Ave	1.604	1.652	0.8000	4120	4000	3.0	30.0
2,3,4,6-Tetrachlorophenol	Lin2		0.2732	0.0100	4100	4000	2.4	30.0
Hexadecane	Ave	0.7970	0.8163	0.0100	4100	4000	2.4	30.0
Diethyl phthalate	Ave	1.255	1.225	0.0100	3900	4000	-2.4	30.0
4-Chlorophenyl phenyl ether	Ave	0.6339	0.6420	0.4000	4050	4000	1.3	30.0
4-Nitroaniline	Lin2		0.3199	0.0100	4020	4000	0.5	30.0
Fluorene	Lin2		1.362	0.9000	4030	4000	0.8	30.0
4,6-Dinitro-2-methylphenol	Lin1		0.1085	0.0100	7870	8000	-1.7	30.0
Diphenylamine	Ave	0.6472	0.6625	0.0100	3500	3420	2.4	30.0
N-Nitrosodiphenylamine	Ave	0.5533	0.5664	0.0100	4090	4000	2.4	30.0
1,2-Diphenylhydrazine	Ave	0.7367	0.7545	0.0100	4100	4000	2.4	30.0
trans-Azobenzene	Ave	0.7367	0.7545	0.0100	4100	4000	2.4	30.0
4-Bromophenyl phenyl ether	Ave	0.2258	0.2252	0.1000	3990	4000	-0.3	30.0
Hexachlorobenzene	Ave	0.2431	0.2427	0.1000	3990	4000	-0.2	30.0
Atrazine	Lin2		0.3431	0.0100	4180	4000	4.4	30.0
n-Octadecane	Ave	0.4883	0.4845	0.0100	3970	4000	-0.8	30.0
Pentachlorophenol	Lin1		0.0878	0.0500	6950	8000	-13.1	50.0
Phenanthrene	Ave	1.106	1.100	0.7000	3980	4000	-0.5	30.0
Anthracene	Ave	1.106	1.112	0.7000	4020	4000	0.5	30.0
Carbazole	Ave	0.9831	0.9634	0.0100	3920	4000	-2.0	30.0
Di-n-butyl phthalate	Ave	1.265	1.231	0.0100	3890	4000	-2.7	30.0
Fluoranthene	Ave	1.174	1.227	0.6000	4180	4000	4.5	30.0
Benzidine	Lin2		0.4856	0.0100	2490	4000	-37.7	50.0
Pyrene	Ave	1.340	1.399	0.6000	4180	4000	4.5	30.0
Butyl benzyl phthalate	Lin2		0.6253	0.0100	3980	4000	-0.5	30.0
Bis(2-ethylhexyl) phthalate	Lin2		0.9005	0.0100	4010	4000	0.3	30.0
3,3'-Dichlorobenzidine	Lin2		0.5855	0.0100	3690	4000	-7.6	50.0
Benzo(a)anthracene	Ave	1.370	1.380	0.8000	4030	4000	0.8	30.0
Chrysene	Ave	1.251	1.209	0.7000	3870	4000	-3.4	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-727763/11 Calibration Date: 10/10/2024 18:27

Instrument ID: HP5973Y Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/10/2024 18:00

Lab File ID: Y04083.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin2		1.521	0.0100	4010	4000	0.2	30.0
Benzo(b)fluoranthene	Lin2		1.260	0.7000	3950	4000	-1.2	30.0
Benzo(k)fluoranthene	Ave	1.283	1.189	0.7000	3710	4000	-7.3	30.0
Benzo(a)pyrene	Lin2		1.148	0.7000	4040	4000	0.9	30.0
Dibenz(a,h)anthracene	Lin2		1.111	0.4000	3940	4000	-1.4	30.0
Indeno(1,2,3-cd)pyrene	Lin2		1.309	0.5000	3750	4000	-6.2	30.0
Benzo(g,h,i)perylene	Lin2		1.108	0.5000	4040	4000	1.0	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04083.D
Lims ID: ICV - List 1 - 4
Client ID:
Sample Type: ICV
Inject. Date: 10-Oct-2024 18:27:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-011
Operator ID: JM Instrument ID: HP5973Y
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:34:42 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:55:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.017	6.022	-0.005	95	197997	4.00	4.00	
* 2 Naphthalene-d8	136	7.215	7.214	0.001	99	729067	4.00	4.00	
* 3 Acenaphthene-d10	164	8.780	8.779	0.001	92	430428	4.00	4.00	
* 4 Phenanthrene-d10	188	10.054	10.059	-0.005	97	722244	4.00	4.00	
* 5 Chrysene-d12	240	12.941	12.940	0.001	99	659917	4.00	4.00	
* 6 Perylene-d12	264	14.660	14.659	0.001	97	725946	4.00	4.00	
13 1,4-Dioxane	88	3.303	3.307	-0.004	99	98203	4.00	4.01	
14 N-Nitrosodimethylamine	42	3.605	3.609	-0.004	93	127627	4.00	4.10	
15 Pyridine	52	3.640	3.639	0.001	94	245437	8.00	7.13	
35 Benzaldehyde	77	5.608	5.607	0.001	93	207939	4.00	4.37	
37 Phenol	94	5.650	5.654	-0.004	99	308896	4.00	4.03	
36 Aniline	93	5.703	5.702	0.001	96	376259	4.00	4.02	
39 Bis(2-chloroethyl)ether	93	5.733	5.737	-0.004	93	247973	4.00	3.92	
41 n-Decane	57	5.822	5.820	0.002	94	288517	4.00	3.92	
40 2-Chlorophenol	128	5.828	5.826	0.002	97	264332	4.00	4.15	
43 1,3-Dichlorobenzene	146	5.970	5.968	0.002	99	307346	4.00	4.06	
44 1,4-Dichlorobenzene	146	6.035	6.034	0.001	95	315781	4.00	4.08	
45 Benzyl alcohol	108	6.136	6.134	0.002	93	165743	4.00	4.03	
46 1,2-Dichlorobenzene	146	6.189	6.188	0.001	98	297777	4.00	4.10	
48 2-Methylphenol	108	6.225	6.229	-0.004	96	241653	4.00	4.16	
49 2,2'-oxybis[1-chloropropane]	45	6.243	6.247	-0.004	94	397118	4.00	4.07	
47 Indene	115	6.272	6.271	0.001	88	2890864	24.0	25.8	
57 4-Methylphenol	108	6.367	6.366	0.001	96	252321	4.00	4.18	
53 N-Nitrosodi-n-propylamine	70	6.373	6.371	0.002	91	176980	4.00	4.05	
52 Acetophenone	105	6.391	6.389	0.002	98	353579	4.00	4.20	
58 Hexachloroethane	117	6.509	6.508	0.001	95	114705	4.00	3.89	
59 Nitrobenzene	77	6.557	6.555	0.002	88	269328	4.00	3.97	
62 Isophorone	82	6.770	6.769	0.001	99	482284	4.00	4.01	
64 2-Nitrophenol	139	6.853	6.858	-0.005	95	137540	4.00	4.05	
66 2,4-Dimethylphenol	107	6.865	6.869	-0.004	94	253457	4.00	3.99	
69 Bis(2-chloroethoxy)methane	93	6.942	6.946	-0.004	98	292969	4.00	3.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
70 Benzoic acid	105	6.996	6.994	0.002	87	544145	24.0	21.8	
72 2,4-Dichlorophenol	162	7.079	7.077	0.001	92	222820	4.00	4.07	
73 1,2,4-Trichlorobenzene	180	7.156	7.160	-0.004	94	250188	4.00	4.05	
74 Naphthalene	128	7.239	7.237	0.002	97	783247	4.00	4.07	
76 4-Chloroaniline	127	7.268	7.267	0.001	97	303893	4.00	4.13	
77 2,6-Dichlorophenol	162	7.280	7.284	-0.004	97	218109	4.00	4.04	
79 Hexachlorobutadiene	225	7.339	7.338	0.001	96	145851	4.00	4.07	
84 Caprolactam	113	7.582	7.581	0.001	78	76840	4.00	3.91	
85 4-Chloro-3-methylphenol	107	7.689	7.693	-0.004	96	212138	4.00	4.08	
87 2-Methylnaphthalene	142	7.855	7.853	0.002	92	515397	4.00	4.34	
89 1-Methylnaphthalene	142	7.944	7.948	-0.004	92	483825	4.00	4.01	
90 Hexachlorocyclopentadiene	237	7.997	7.996	0.001	93	84585	4.00	3.37	
91 1,2,4,5-Tetrachlorobenzene	216	8.009	8.008	0.001	96	258661	4.00	4.06	
93 2,4,6-Trichlorophenol	196	8.098	8.102	-0.004	91	153407	4.00	3.95	
94 2,4,5-Trichlorophenol	196	8.140	8.138	0.002	96	165898	4.00	4.05	M
96 1,1'-Biphenyl	154	8.258	8.256	0.002	95	641070	4.00	4.06	
97 2-Chloronaphthalene	162	8.294	8.292	0.002	95	514998	4.00	4.08	
100 2-Nitroaniline	65	8.365	8.363	0.002	87	141196	4.00	4.04	
105 Dimethyl phthalate	163	8.495	8.494	0.001	99	561681	4.00	4.11	
106 1,3-Dinitrobenzene	168	8.543	8.541	0.002	85	84939	4.00	4.15	
107 2,6-Dinitrotoluene	165	8.560	8.559	0.001	94	124357	4.00	3.95	
108 Acenaphthylene	152	8.661	8.660	0.001	98	841433	4.00	4.41	
109 3-Nitroaniline	138	8.720	8.719	0.001	95	130087	4.00	4.05	
110 Acenaphthene	153	8.803	8.808	-0.005	95	538485	4.00	4.22	
111 2,4-Dinitrophenol	184	8.809	8.814	-0.005	82	85395	8.00	7.45	
112 4-Nitrophenol	109	8.851	8.855	-0.004	92	112561	8.00	8.45	
114 2,4-Dinitrotoluene	165	8.916	8.914	0.002	95	171728	4.00	4.24	
115 Dibenzofuran	168	8.952	8.950	0.002	97	711178	4.00	4.12	
118 2,3,4,6-Tetrachlorophenol	232	9.052	9.057	-0.005	74	117611	4.00	4.10	
121 Hexadecane	57	9.076	9.080	-0.004	94	351357	4.00	4.10	
120 Diethyl phthalate	149	9.088	9.092	-0.004	99	527246	4.00	3.90	
123 4-Chlorophenyl phenyl ether	204	9.218	9.217	0.001	90	276348	4.00	4.05	
124 Fluorene	166	9.248	9.246	0.002	93	586101	4.00	4.03	
126 4-Nitroaniline	138	9.248	9.246	0.002	56	137701	4.00	4.02	
127 4,6-Dinitro-2-methylphenol	198	9.272	9.276	-0.004	89	156687	8.00	7.87	
129 Diphenylamine	169	9.319	9.318	0.001	94	409115	3.42	3.50	
130 N-Nitrosodiphenylamine	169	9.319	9.318	0.001	62	409115	4.00	4.09	
131 1,2-Diphenylhydrazine	77	9.355	9.359	-0.004	41	544959	4.00	4.10	
132 Azobenzene	77	9.355	9.359	-0.004	99	544959	4.00	4.10	
139 4-Bromophenyl phenyl ether	248	9.639	9.638	0.001	64	162633	4.00	3.99	
140 Hexachlorobenzene	284	9.728	9.732	-0.004	94	175312	4.00	3.99	
143 Atrazine	200	9.740	9.738	0.002	93	147669	4.00	4.18	
148 n-Octadecane	57	9.853	9.851	0.002	93	349911	4.00	3.97	
145 Pentachlorophenol	266	9.888	9.893	-0.005	94	126883	8.00	6.95	
151 Phenanthrene	178	10.078	10.076	0.002	98	794435	4.00	3.98	
152 Anthracene	178	10.125	10.124	0.001	97	802804	4.00	4.02	
153 Carbazole	167	10.250	10.254	-0.004	97	695778	4.00	3.92	
157 Di-n-butyl phthalate	149	10.493	10.497	-0.004	100	888963	4.00	3.89	
164 Fluoranthene	202	11.269	11.268	0.001	98	885956	4.00	4.18	
166 Benzidine	184	11.370	11.374	-0.004	99	320465	4.00	2.49	
167 Pyrene	202	11.536	11.535	0.002	97	923398	4.00	4.18	
174 Butyl benzyl phthalate	149	12.170	12.169	0.001	97	412635	4.00	3.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
181 Bis(2-ethylhexyl) phthalate	149	12.828	12.833	-0.005	96	594241	4.00	4.01	
179 3,3'-Dichlorobenzidine	252	12.858	12.862	-0.004	73	386367	4.00	3.69	
180 Benzo[a]anthracene	228	12.929	12.928	0.001	99	910636	4.00	4.03	
182 Chrysene	228	12.971	12.975	-0.004	97	798150	4.00	3.87	
184 Di-n-octyl phthalate	149	13.581	13.586	-0.005	99	1003667	4.00	4.01	
186 Benzo[b]fluoranthene	252	14.186	14.184	0.002	98	914822	4.00	3.95	
187 Benzo[k]fluoranthene	252	14.216	14.214	0.002	99	863374	4.00	3.71	
189 Benzo[a]pyrene	252	14.595	14.593	0.002	78	833400	4.00	4.04	
194 Dibenz(a,h)anthracene	278	16.213	16.217	-0.004	91	806690	4.00	3.94	
193 Indeno[1,2,3-cd]pyrene	276	16.225	16.223	0.002	97	950105	4.00	3.75	
195 Benzo[g,h,i]perylene	276	16.693	16.698	-0.005	96	803997	4.00	4.04	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1SSLV_WRK_00055 Amount Added: 1.00 Units: mL

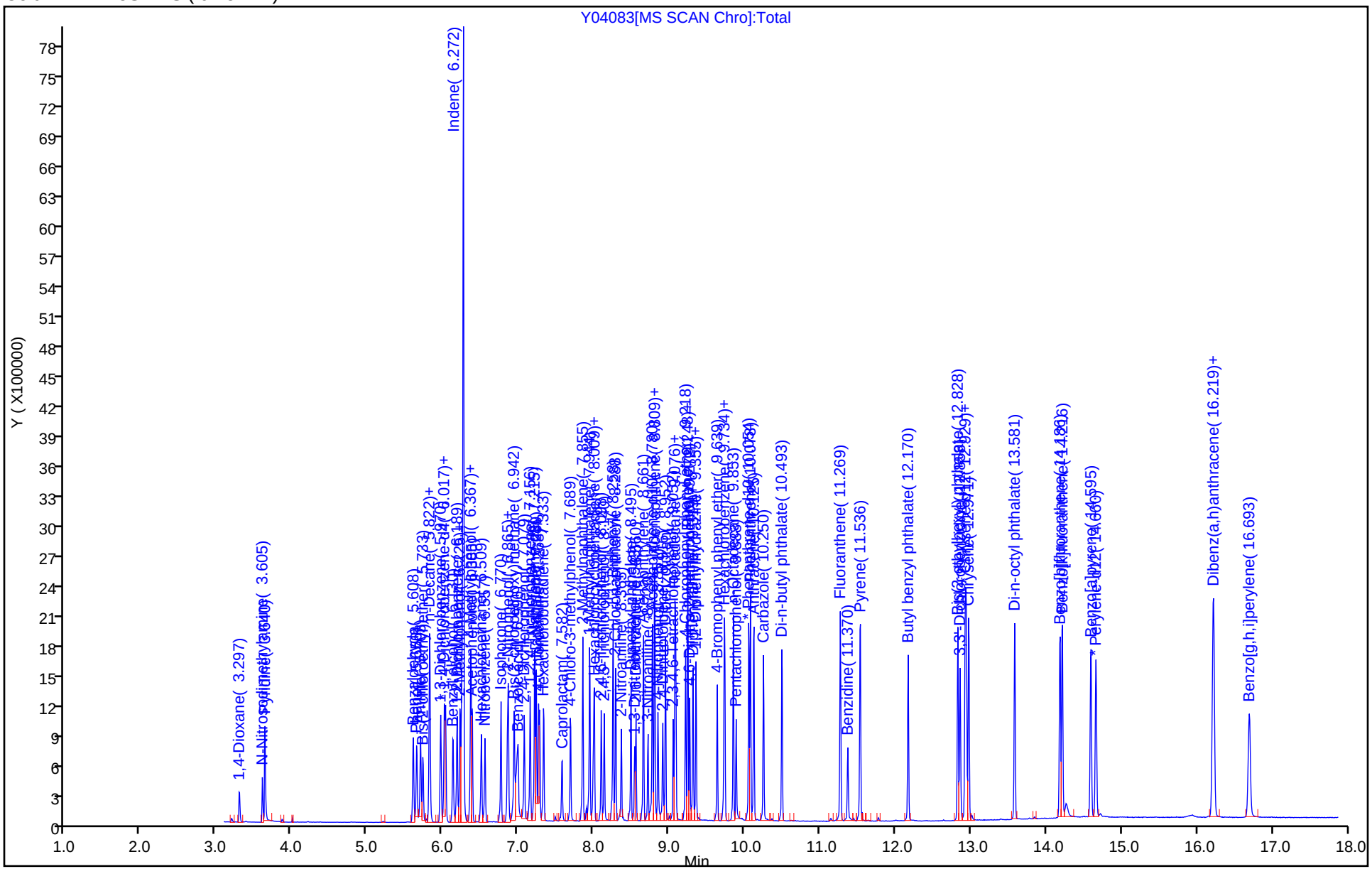
Report Date: 11-Oct-2024 11:34:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04083.D

Injection Date:	10-Oct-2024 18:27:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	ICV - List 1 - 4			Worklist Smp#:	11
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

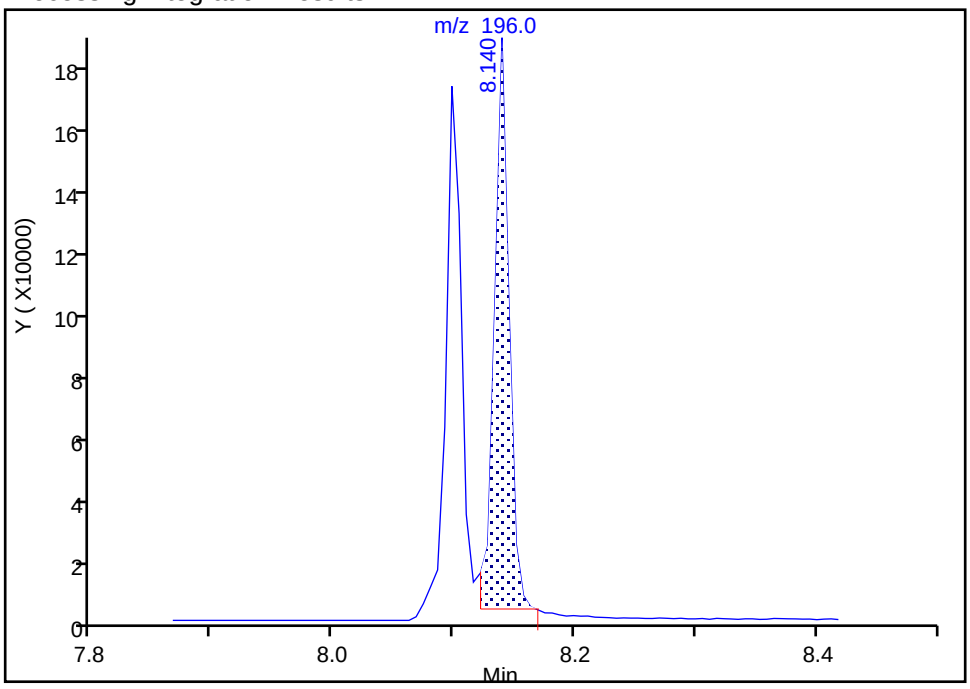
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04083.D
Injection Date: 10-Oct-2024 18:27:30 Instrument ID: HP5973Y
Lims ID: ICV - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

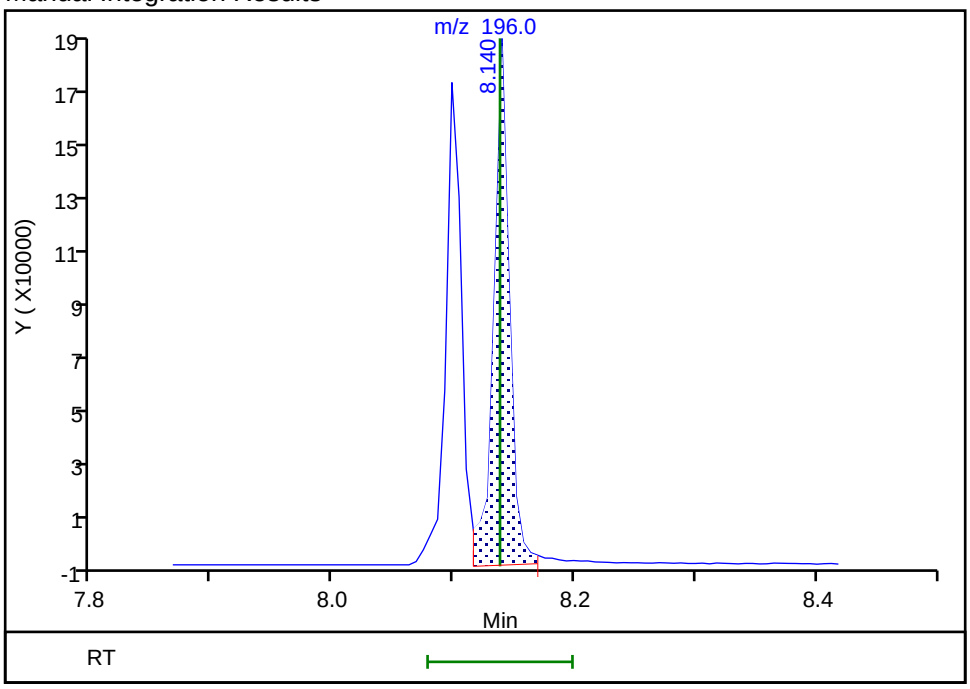
Processing Integration Results

RT: 8.14
Area: 150929
Amount: 3.694458
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 165898
Amount: 4.046657
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:34:52 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730212/3 | Calibration Date: 10/29/2024 11:44

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04572.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4946	0.5227	0.0100	4230	4000	5.7	20.0
N-Nitrosodimethylamine	Ave	0.6291	1.112	0.0100	7070	4000	76.7*	50.0
Pyridine	Lin2		0.8046	0.0100	9190	8000	14.9	50.0
Benzaldehyde	Lin2		1.165	0.0100	4860	4000	21.5	50.0
Phenol	Ave	1.548	1.596	0.8000	4120	4000	3.1	20.0
Aniline	Ave	1.889	1.888	0.0100	4000	4000	-0.0	20.0
Bis(2-chloroethyl)ether	Lin2		1.395	0.7000	4370	4000	9.4	20.0
n-Decane	Ave	1.489	1.783	0.0100	4790	4000	19.8	20.0
2-Chlorophenol	Ave	1.288	1.357	0.8000	4220	4000	5.4	20.0
1,3-Dichlorobenzene	Ave	1.528	1.566	0.0100	4100	4000	2.5	20.0
1,4-Dichlorobenzene	Ave	1.565	1.584	0.0100	4050	4000	1.2	20.0
Benzyl alcohol	Lin2		0.8316	0.0100	4010	4000	0.2	20.0
1,2-Dichlorobenzene	Ave	1.468	1.469	0.0100	4000	4000	0.1	20.0
2-Methylphenol	Ave	1.174	1.268	0.7000	4320	4000	8.0	20.0
bis (2-chloroisopropyl) ether	Lin2		2.816	0.0100	5740	4000	43.5*	20.0
Indene	Lin2		2.757	0.0100	29300	24000	22.1*	20.0
N-Nitrosodi-n-propylamine	Ave	0.8823	1.001	0.5000	4540	4000	13.4	20.0
4-Methylphenol	Ave	1.221	1.301	0.6000	4260	4000	6.6	20.0
Acetophenone	Ave	1.701	1.915	0.0100	4500	4000	12.6	20.0
Hexachloroethane	Ave	0.5953	0.6989	0.3000	4700	4000	17.4	20.0
Nitrobenzene	Ave	0.3721	0.4135	0.2000	4450	4000	11.1	20.0
Isophorone	Ave	0.6597	0.6844	0.4000	4150	4000	3.7	20.0
2-Nitrophenol	Lin2		0.1821	0.1000	3910	4000	-2.1	20.0
2,4-Dimethylphenol	Ave	0.3484	0.3614	0.2000	4150	4000	3.7	20.0
Bis(2-chloroethoxy)methane	Ave	0.4030	0.4051	0.3000	4020	4000	0.5	20.0
Benzoic acid	Lin1		0.1327	0.0100	22800	24000	-4.9	50.0
2,4-Dichlorophenol	Lin2		0.2787	0.2000	3720	4000	-7.0	20.0
1,2,4-Trichlorobenzene	Ave	0.3390	0.3188	0.0100	3760	4000	-6.0	20.0
Naphthalene	Ave	1.057	1.013	0.7000	3830	4000	-4.2	20.0
4-Chloroaniline	Ave	0.4039	0.3934	0.0100	3900	4000	-2.6	20.0
2,6-Dichlorophenol	Ave	0.2965	0.2854	0.0100	3850	4000	-3.7	20.0
Hexachlorobutadiene	Ave	0.1967	0.1826	0.0100	3710	4000	-7.2	20.0
Caprolactam	Lin2		0.1002	0.0100	3720	4000	-7.0	50.0
4-Chloro-3-methylphenol	Lin2		0.2888	0.2000	4050	4000	1.3	20.0
2-Methylnaphthalene	Ave	0.6518	0.6315	0.4000	3880	4000	-3.1	20.0
1-Methylnaphthalene	Ave	0.6626	0.6381	0.0100	3850	4000	-3.7	20.0
Hexachlorocyclopentadiene	Lin2		0.1116	0.0500	2060	4000	-48.5*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5921	0.5340	0.0100	3610	4000	-9.8	20.0
2,4,6-Trichlorophenol	Lin2		0.3423	0.2000	3800	4000	-5.1	20.0
2,4,5-Trichlorophenol	Lin2		0.3455	0.2000	3640	4000	-8.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730212/3 | Calibration Date: 10/29/2024 11:44

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04572.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.467	1.430	0.0100	3900	4000	-2.5	20.0
2-Chloronaphthalene	Ave	1.173	1.129	0.8000	3850	4000	-3.7	20.0
2-Nitroaniline	Lin2		0.3941	0.0100	4830	4000	20.8*	20.0
Dimethyl phthalate	Ave	1.270	1.266	0.0100	3990	4000	-0.3	20.0
1,3-Dinitrobenzene	Lin2		0.1051	0.0100	3770	4000	-5.8	20.0
2,6-Dinitrotoluene	Lin2		0.2855	0.2000	3910	4000	-2.3	20.0
Acenaphthylene	Ave	1.772	1.746	0.9000	3940	4000	-1.4	20.0
3-Nitroaniline	Lin2		0.2934	0.0100	3940	4000	-1.5	20.0
Acenaphthene	Ave	1.186	1.188	0.9000	4010	4000	0.2	20.0
2,4-Dinitrophenol	Lin1		0.0910	0.0100	6990	8000	-12.6	20.0
4-Nitrophenol	Lin2		0.1745	0.0100	11100	8000	38.8*	20.0
2,4-Dinitrotoluene	Lin2		0.3807	0.2000	4050	4000	1.3	20.0
Dibenzofuran	Ave	1.604	1.504	0.8000	3750	4000	-6.3	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.2197	0.0100	3330	4000	-16.6	20.0
Hexadecane	Ave	0.7970	0.9590	0.0100	4810	4000	20.3*	20.0
Diethyl phthalate	Ave	1.255	1.385	0.0100	4410	4000	10.3	20.0
4-Chlorophenyl phenyl ether	Ave	0.6339	0.5771	0.4000	3640	4000	-9.0	20.0
Fluorene	Lin2		1.286	0.9000	3810	4000	-4.8	20.0
4-Nitroaniline	Lin2		0.3120	0.0100	3920	4000	-1.9	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1046	0.0100	7610	8000	-4.8	20.0
Diphenylamine	Ave	0.6472	0.6191	0.0100	3270	3420	-4.3	20.0
N-Nitrosodiphenylamine	Ave	0.5533	0.5293	0.0100	3830	4000	-4.3	20.0
1,2-Diphenylhydrazine	Ave	0.7367	0.9185	0.0100	4990	4000	24.7*	20.0
trans-Azobenzene	Ave	0.7367	0.9185	0.0100	4990	4000	24.7*	20.0
4-Bromophenyl phenyl ether	Ave	0.2258	0.1958	0.1000	3470	4000	-13.3	20.0
Hexachlorobenzene	Ave	0.2431	0.2005	0.1000	3300	4000	-17.5	20.0
Atrazine	Lin2		0.3465	0.0100	4220	4000	5.4	20.0
n-Octadecane	Ave	0.4883	0.5970	0.0100	4890	4000	22.3*	20.0
Pentachlorophenol	Lin1		0.0611	0.0500	5180	8000	-35.2	50.0
Phenanthrene	Ave	1.106	1.105	0.7000	4000	4000	-0.0	20.0
Anthracene	Ave	1.106	1.080	0.7000	3910	4000	-2.4	20.0
Carbazole	Ave	0.9831	0.9462	0.0100	3850	4000	-3.7	20.0
Di-n-butyl phthalate	Ave	1.265	1.372	0.0100	4340	4000	8.5	20.0
Fluoranthene	Ave	1.174	1.118	0.6000	3810	4000	-4.8	20.0
Benzidine	Lin2		0.8369	0.0100	8130	8000	1.6	50.0
Pyrene	Ave	1.340	1.391	0.6000	4150	4000	3.8	20.0
Butyl benzyl phthalate	Lin2		0.7301	0.0100	4630	4000	15.8	20.0
Bis(2-ethylhexyl) phthalate	Lin2		1.059	0.0100	4700	4000	17.6	20.0
3,3'-Dichlorobenzidine	Lin2		0.6133	0.0100	7660	8000	-4.2	50.0
Benzo(a)anthracene	Ave	1.370	1.347	0.8000	3930	4000	-1.7	20.0
Chrysene	Ave	1.251	1.212	0.7000	3870	4000	-3.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730212/3 | Calibration Date: 10/29/2024 11:44

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04572.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin2		1.774	0.0100	4660	4000	16.6	20.0
Benzo(b)fluoranthene	Lin2		1.213	0.7000	3810	4000	-4.9	20.0
Benzo(k)fluoranthene	Ave	1.283	1.201	0.7000	3750	4000	-6.4	20.0
Benzo(a)pyrene	Lin2		1.068	0.7000	3760	4000	-6.1	20.0
Dibenz(a,h)anthracene	Lin2		1.066	0.4000	3780	4000	-5.4	20.0
Indeno(1,2,3-cd)pyrene	Lin2		1.343	0.5000	3850	4000	-3.8	20.0
Benzo(g,h,i)perylene	Lin2		0.996	0.5000	3640	4000	-9.1	20.0
2-Fluorophenol	Ave	1.232	1.272	0.0100	4130	4000	3.2	20.0
Phenol-d5	Ave	1.523	1.583	0.0100	4160	4000	4.0	20.0
Nitrobenzene-d5	Lin2		0.4155	0.0100	4340	4000	8.5	20.0
2-Fluorobiphenyl	Ave	1.375	1.307	0.0100	3800	4000	-4.9	20.0
2,4,6-Tribromophenol	Lin2		0.0868	0.0100	3580	4000	-10.5	20.0
p-Terphenyl-d14	Ave	1.084	1.070	0.0100	3950	4000	-1.3	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04572.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Oct-2024 11:44:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-003
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Oct-2024 16:16:19 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: IZ8L Date: 29-Oct-2024 16:14:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.000	96	175464	4.00	4.00	
* 2 Naphthalene-d8	136	7.089	7.089	0.000	99	686874	4.00	4.00	
* 3 Acenaphthene-d10	164	8.648	8.648	0.000	93	395738	4.00	4.00	
* 4 Phenanthrene-d10	188	9.929	9.929	0.000	97	671113	4.00	4.00	
* 5 Chrysene-d12	240	12.774	12.774	0.000	99	562758	4.00	4.00	
* 6 Perylene-d12	264	14.463	14.463	0.000	97	639845	4.00	4.00	
$ 7 2-Fluorophenol	112	4.641	4.641	0.000	92	223164	4.00	4.13	
$ 8 Phenol-d5	99	5.524	5.524	0.000	92	277832	4.00	4.16	
$ 9 Nitrobenzene-d5	82	6.414	6.414	0.000	96	285381	4.00	4.34	
$ 10 2-Fluorobiphenyl	172	8.038	8.038	0.000	98	517426	4.00	3.80	
$ 11 2,4,6-Tribromophenol	330	9.330	9.330	0.000	82	58273	4.00	3.58	
$ 12 p-Terphenyl-d14	244	11.482	11.482	0.000	97	602318	4.00	3.95	
13 1,4-Dioxane	88	3.147	3.147	0.000	93	91707	4.00	4.23	
14 N-Nitrosodimethylamine	42	3.473	3.473	0.000	76	195036	4.00	7.07	
15 Pyridine	52	3.503	3.503	0.000	80	282353	8.00	9.19	
35 Benzaldehyde	77	5.471	5.471	0.000	87	204465	4.00	4.86	
37 Phenol	94	5.536	5.536	0.000	92	280000	4.00	4.12	
36 Aniline	93	5.572	5.572	0.000	94	331361	4.00	4.00	
39 Bis(2-chloroethyl)ether	93	5.607	5.607	0.000	86	244745	4.00	4.37	
41 n-Decane	57	5.690	5.690	0.000	94	312870	4.00	4.79	
40 2-Chlorophenol	128	5.696	5.696	0.000	93	238181	4.00	4.22	
43 1,3-Dichlorobenzene	146	5.839	5.839	0.000	94	274854	4.00	4.10	
44 1,4-Dichlorobenzene	146	5.904	5.904	0.000	90	277888	4.00	4.05	
45 Benzyl alcohol	108	6.011	6.011	0.000	87	145909	4.00	4.01	
46 1,2-Dichlorobenzene	146	6.058	6.058	0.000	93	257829	4.00	4.00	
48 2-Methylphenol	108	6.111	6.111	0.000	95	222483	4.00	4.32	
49 2,2'-oxybis[1-chloropropane]	45	6.117	6.117	0.000	88	494112	4.00	5.74	
47 Indene	115	6.141	6.141	0.000	88	2902884	24.0	29.3	
53 N-Nitrosodi-n-propylamine	70	6.248	6.248	0.000	95	175592	4.00	4.54	
57 4-Methylphenol	108	6.254	6.254	0.000	95	228277	4.00	4.26	
52 Acetophenone	105	6.265	6.265	0.000	93	336002	4.00	4.50	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.378	6.378	0.000	92	122634	4.00	4.70	
59 Nitrobenzene	77	6.431	6.431	0.000	94	284009	4.00	4.45	
62 Isophorone	82	6.645	6.645	0.000	96	470121	4.00	4.15	
64 2-Nitrophenol	139	6.734	6.734	0.000	90	125110	4.00	3.91	
66 2,4-Dimethylphenol	107	6.751	6.751	0.000	95	248215	4.00	4.15	
69 Bis(2-chloroethoxy)methane	93	6.823	6.823	0.000	91	278259	4.00	4.02	
70 Benzoic acid	105	6.882	6.882	0.000	93	547075	24.0	22.8	
72 2,4-Dichlorophenol	162	6.959	6.959	0.000	95	191458	4.00	3.72	
73 1,2,4-Trichlorobenzene	180	7.030	7.030	0.000	92	218954	4.00	3.76	
74 Naphthalene	128	7.107	7.107	0.000	98	695650	4.00	3.83	
76 4-Chloroaniline	127	7.149	7.149	0.000	94	270233	4.00	3.90	
77 2,6-Dichlorophenol	162	7.161	7.161	0.000	91	196063	4.00	3.85	
79 Hexachlorobutadiene	225	7.208	7.208	0.000	92	125421	4.00	3.71	
84 Caprolactam	113	7.463	7.463	0.000	70	68791	4.00	3.72	
85 4-Chloro-3-methylphenol	107	7.581	7.581	0.000	95	198380	4.00	4.05	
87 2-Methylnaphthalene	142	7.730	7.730	0.000	92	433748	4.00	3.88	
89 1-Methylnaphthalene	142	7.818	7.818	0.000	92	438266	4.00	3.85	
90 Hexachlorocyclopentadiene	237	7.866	7.866	0.000	96	44146	4.00	2.06	
91 1,2,4,5-Tetrachlorobenzene	216	7.884	7.884	0.000	98	211308	4.00	3.61	
93 2,4,6-Trichlorophenol	196	7.979	7.979	0.000	96	135460	4.00	3.80	
94 2,4,5-Trichlorophenol	196	8.026	8.026	0.000	90	136731	4.00	3.64	
96 1,1'-Biphenyl	154	8.133	8.133	0.000	97	565905	4.00	3.90	
97 2-Chloronaphthalene	162	8.162	8.162	0.000	97	446920	4.00	3.85	
100 2-Nitroaniline	65	8.245	8.245	0.000	77	155941	4.00	4.83	
105 Dimethyl phthalate	163	8.370	8.370	0.000	96	501057	4.00	3.99	
106 1,3-Dinitrobenzene	168	8.429	8.429	0.000	80	72180	4.00	3.77	
107 2,6-Dinitrotoluene	165	8.441	8.441	0.000	85	112978	4.00	3.91	
108 Acenaphthylene	152	8.530	8.530	0.000	98	691026	4.00	3.94	
109 3-Nitroaniline	138	8.601	8.601	0.000	89	116097	4.00	3.94	
110 Acenaphthene	153	8.678	8.678	0.000	96	470224	4.00	4.01	
111 2,4-Dinitrophenol	184	8.696	8.696	0.000	82	72051	8.00	6.99	
112 4-Nitrophenol	109	8.749	8.749	0.000	96	138137	8.00	11.1	
114 2,4-Dinitrotoluene	165	8.797	8.797	0.000	87	150670	4.00	4.05	
115 Dibenzofuran	168	8.826	8.826	0.000	95	595204	4.00	3.75	
118 2,3,4,6-Tetrachlorophenol	232	8.933	8.933	0.000	78	86953	4.00	3.33	
121 Hexadecane	57	8.951	8.951	0.000	89	379507	4.00	4.81	
120 Diethyl phthalate	149	8.968	8.968	0.000	96	548067	4.00	4.41	
123 4-Chlorophenyl phenyl ether	204	9.093	9.093	0.000	96	228364	4.00	3.64	
124 Fluorene	166	9.123	9.123	0.000	94	508989	4.00	3.81	
126 4-Nitroaniline	138	9.129	9.129	0.000	76	123478	4.00	3.92	
127 4,6-Dinitro-2-methylphenol	198	9.158	9.158	0.000	75	140359	8.00	7.61	
130 N-Nitrosodiphenylamine	169	9.194	9.194	0.000	67	355229	4.00	3.83	
129 Diphenylamine	169	9.194	9.194	0.000	91	355229	3.42	3.27	
131 1,2-Diphenylhydrazine	77	9.229	9.229	0.000	41	616434	4.00	4.99	
132 Azobenzene	77	9.229	9.229	0.000	96	616434	4.00	4.99	
139 4-Bromophenyl phenyl ether	248	9.514	9.514	0.000	81	131392	4.00	3.47	
140 Hexachlorobenzene	284	9.603	9.603	0.000	89	134575	4.00	3.30	
143 Atrazine	200	9.621	9.621	0.000	87	137110	4.00	4.22	
148 n-Octadecane	57	9.727	9.727	0.000	86	400668	4.00	4.89	
145 Pentachlorophenol	266	9.769	9.769	0.000	86	81968	8.00	5.18	
151 Phenanthrene	178	9.947	9.947	0.000	99	741795	4.00	4.00	
152 Anthracene	178	9.988	9.988	0.000	99	724980	4.00	3.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.118	10.118	0.000	97	635040	4.00	3.85	
157 Di-n-butyl phthalate	149	10.356	10.356	0.000	99	920920	4.00	4.34	
164 Fluoranthene	202	11.108	11.108	0.000	99	749988	4.00	3.81	
166 Benzidine	184	11.215	11.215	0.000	99	941907	8.00	8.13	
167 Pyrene	202	11.369	11.369	0.000	96	782667	4.00	4.15	
174 Butyl benzyl phthalate	149	12.009	12.009	0.000	97	410858	4.00	4.63	
181 Bis(2-ethylhexyl) phthalate	149	12.667	12.667	0.000	95	595907	4.00	4.70	
179 3,3'-Dichlorobenzidine	252	12.697	12.697	0.000	76	690284	8.00	7.66	
180 Benzo[a]anthracene	228	12.762	12.762	0.000	100	757850	4.00	3.93	
182 Chrysene	228	12.810	12.810	0.000	97	681986	4.00	3.87	
184 Di-n-octyl phthalate	149	13.420	13.420	0.000	98	998276	4.00	4.66	
186 Benzo[b]fluoranthene	252	14.007	14.007	0.000	98	775861	4.00	3.81	
187 Benzo[k]fluoranthene	252	14.037	14.037	0.000	100	768474	4.00	3.75	M
189 Benzo[a]pyrene	252	14.398	14.398	0.000	79	683189	4.00	3.76	
194 Dibenz(a,h)anthracene	278	15.939	15.939	0.000	91	681803	4.00	3.78	
193 Indeno[1,2,3-cd]pyrene	276	15.945	15.945	0.000	98	859219	4.00	3.85	
195 Benzo[g,h,i]perylene	276	16.396	16.396	0.000	95	637213	4.00	3.64	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00646 Amount Added: 1.00 Units: mL

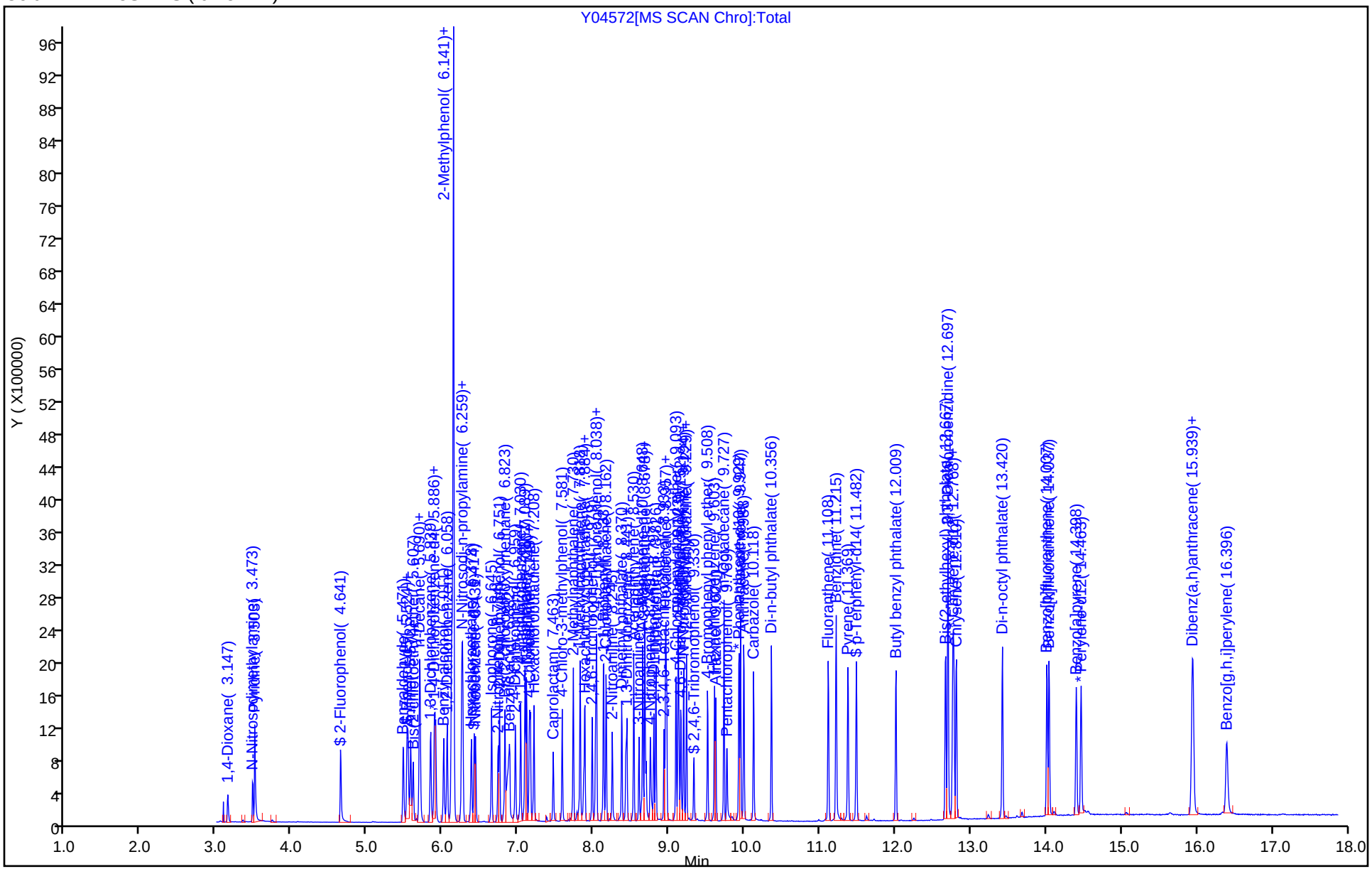
Report Date: 29-Oct-2024 16:16:21 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04572.D

Injection Date:	29-Oct-2024 11:44:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

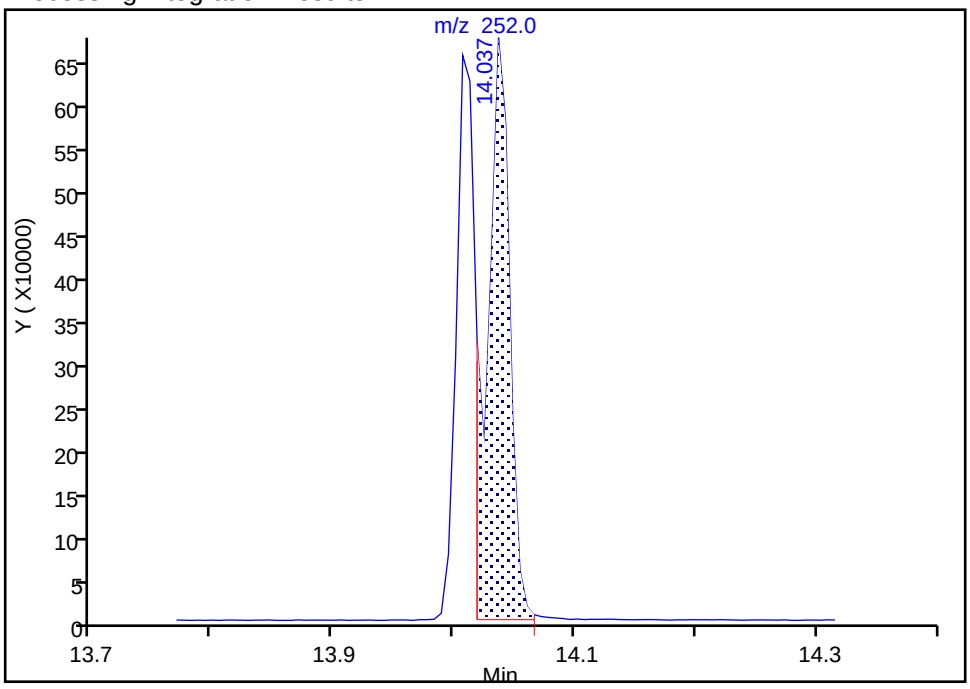
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04572.D
Injection Date: 29-Oct-2024 11:44:30 Instrument ID: HP5973Y
Lims ID: CCVIS
Client ID:
Operator ID: JM ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

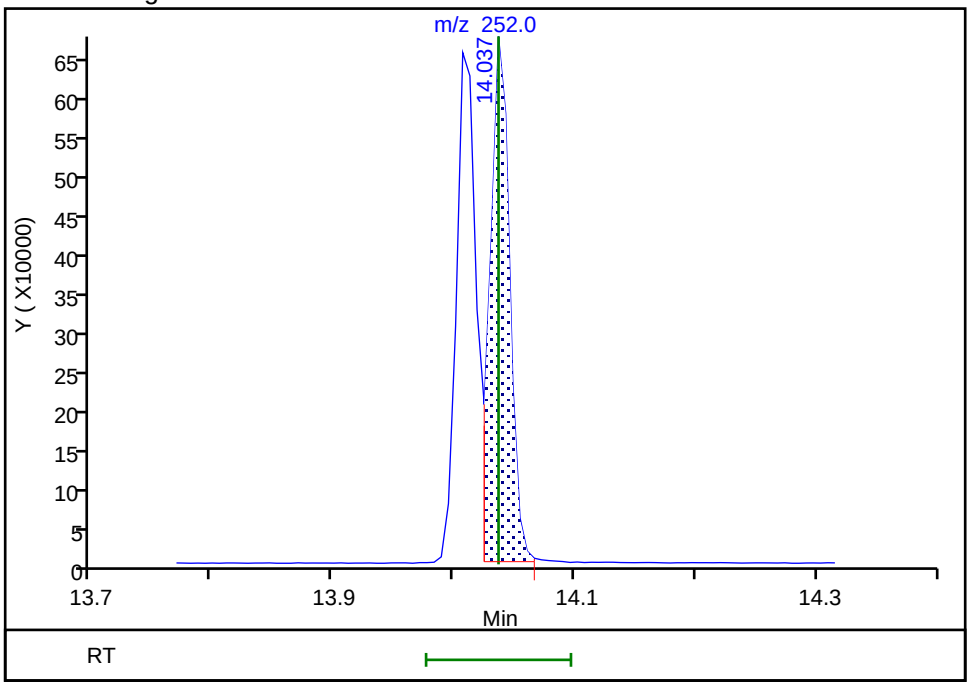
Processing Integration Results

RT: 14.04
Area: 882931
Amount: 4.303718
Amount Units: ng/uL



Manual Integration Results

RT: 14.04
Area: 768474
Amount: 3.745814
Amount Units: ng/uL



Reviewer: IZ8L, 29-Oct-2024 16:14:13 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730403/3 | Calibration Date: 10/30/2024 10:18

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04602.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4946	0.5023	0.0100	4060	4000	1.6	20.0
N-Nitrosodimethylamine	Ave	0.6291	1.136	0.0100	7220	4000	80.6*	50.0
Pyridine	Lin2		0.8132	0.0100	9290	8000	16.1	50.0
Benzaldehyde	Lin2		1.137	0.0100	4740	4000	18.4	50.0
Phenol	Ave	1.548	1.581	0.8000	4090	4000	2.2	20.0
Aniline	Ave	1.889	1.810	0.0100	3830	4000	-4.1	20.0
Bis(2-chloroethyl)ether	Lin2		1.321	0.7000	4140	4000	3.5	20.0
n-Decane	Ave	1.489	1.646	0.0100	4420	4000	10.6	20.0
2-Chlorophenol	Ave	1.288	1.305	0.8000	4050	4000	1.3	20.0
1,3-Dichlorobenzene	Ave	1.528	1.523	0.0100	3990	4000	-0.3	20.0
1,4-Dichlorobenzene	Ave	1.565	1.557	0.0100	3980	4000	-0.5	20.0
Benzyl alcohol	Lin2		0.8313	0.0100	4010	4000	0.2	20.0
1,2-Dichlorobenzene	Ave	1.468	1.454	0.0100	3960	4000	-0.9	20.0
2-Methylphenol	Ave	1.174	1.179	0.7000	4020	4000	0.4	20.0
bis (2-chloroisopropyl) ether	Lin2		2.749	0.0100	5600	4000	40.0*	20.0
Indene	Lin2		2.692	0.0100	28600	24000	19.2	20.0
N-Nitrosodi-n-propylamine	Ave	0.8823	0.9470	0.5000	4290	4000	7.3	20.0
4-Methylphenol	Ave	1.221	1.247	0.6000	4090	4000	2.2	20.0
Acetophenone	Ave	1.701	1.849	0.0100	4350	4000	8.7	20.0
Hexachloroethane	Ave	0.5953	0.6972	0.3000	4680	4000	17.1	20.0
Nitrobenzene	Ave	0.3721	0.4408	0.2000	4740	4000	18.5	20.0
Isophorone	Ave	0.6597	0.7048	0.4000	4270	4000	6.8	20.0
2-Nitrophenol	Lin2		0.1956	0.1000	4200	4000	4.9	20.0
2,4-Dimethylphenol	Ave	0.3484	0.3843	0.2000	4410	4000	10.3	20.0
Bis(2-chloroethoxy)methane	Ave	0.4030	0.4067	0.3000	4040	4000	0.9	20.0
Benzoic acid	Lin1		0.1482	0.0100	24700	24000	3.1	50.0
2,4-Dichlorophenol	Lin2		0.2947	0.2000	3930	4000	-1.8	20.0
1,2,4-Trichlorobenzene	Ave	0.3390	0.3318	0.0100	3920	4000	-2.1	20.0
Naphthalene	Ave	1.057	1.045	0.7000	3960	4000	-1.1	20.0
4-Chloroaniline	Ave	0.4039	0.4208	0.0100	4170	4000	4.2	20.0
2,6-Dichlorophenol	Ave	0.2965	0.3018	0.0100	4070	4000	1.8	20.0
Hexachlorobutadiene	Ave	0.1967	0.2052	0.0100	4170	4000	4.4	20.0
Caprolactam	Lin2		0.0994	0.0100	3690	4000	-7.7	50.0
4-Chloro-3-methylphenol	Lin2		0.3040	0.2000	4260	4000	6.5	20.0
2-Methylnaphthalene	Ave	0.6518	0.6418	0.4000	3940	4000	-1.5	20.0
1-Methylnaphthalene	Ave	0.6626	0.6655	0.0100	4020	4000	0.4	20.0
Hexachlorocyclopentadiene	Lin2		0.1167	0.0500	2140	4000	-46.5*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5921	0.5699	0.0100	3850	4000	-3.7	20.0
2,4,6-Trichlorophenol	Lin2		0.3484	0.2000	3860	4000	-3.4	20.0
2,4,5-Trichlorophenol	Lin2		0.3742	0.2000	3930	4000	-1.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730403/3 | Calibration Date: 10/30/2024 10:18

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04602.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.467	1.457	0.0100	3970	4000	-0.7	20.0
2-Chloronaphthalene	Ave	1.173	1.154	0.8000	3940	4000	-1.6	20.0
2-Nitroaniline	Lin2		0.3874	0.0100	4750	4000	18.8	20.0
Dimethyl phthalate	Ave	1.270	1.265	0.0100	3980	4000	-0.4	20.0
1,3-Dinitrobenzene	Lin2		0.1057	0.0100	3790	4000	-5.3	20.0
2,6-Dinitrotoluene	Lin2		0.2835	0.2000	3880	4000	-3.0	20.0
Acenaphthylene	Ave	1.772	1.822	0.9000	4110	4000	2.8	20.0
3-Nitroaniline	Lin2		0.2881	0.0100	3870	4000	-3.3	20.0
Acenaphthene	Ave	1.186	1.214	0.9000	4090	4000	2.4	20.0
2,4-Dinitrophenol	Lin1		0.1006	0.0100	7520	8000	-5.9	20.0
4-Nitrophenol	Lin2		0.1818	0.0100	11500	8000	44.3*	20.0
2,4-Dinitrotoluene	Lin2		0.3755	0.2000	4000	4000	0.0	20.0
Dibenzofuran	Ave	1.604	1.621	0.8000	4040	4000	1.0	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.2389	0.0100	3610	4000	-9.8	20.0
Hexadecane	Ave	0.7970	0.9326	0.0100	4680	4000	17.0	20.0
Diethyl phthalate	Ave	1.255	1.378	0.0100	4390	4000	9.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.6339	0.5767	0.4000	3640	4000	-9.0	20.0
Fluorene	Lin2		1.315	0.9000	3890	4000	-2.6	20.0
4-Nitroaniline	Lin2		0.3032	0.0100	3820	4000	-4.6	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.0956	0.0100	7030	8000	-12.1	20.0
Diphenylamine	Ave	0.6472	0.6158	0.0100	3250	3420	-4.8	20.0
N-Nitrosodiphenylamine	Ave	0.5533	0.5265	0.0100	3810	4000	-4.8	20.0
1,2-Diphenylhydrazine	Ave	0.7367	0.9282	0.0100	5040	4000	26.0*	20.0
trans-Azobenzene	Ave	0.7367	0.9282	0.0100	5040	4000	26.0*	20.0
4-Bromophenyl phenyl ether	Ave	0.2258	0.1910	0.1000	3380	4000	-15.4	20.0
Hexachlorobenzene	Ave	0.2431	0.2115	0.1000	3480	4000	-13.0	20.0
Atrazine	Lin2		0.3478	0.0100	4230	4000	5.8	20.0
n-Octadecane	Ave	0.4883	0.6000	0.0100	4910	4000	22.9*	20.0
Pentachlorophenol	Lin1		0.0683	0.0500	5660	8000	-29.2	50.0
Phenanthrene	Ave	1.106	1.133	0.7000	4100	4000	2.5	20.0
Anthracene	Ave	1.106	1.099	0.7000	3970	4000	-0.6	20.0
Carbazole	Ave	0.9831	0.9613	0.0100	3910	4000	-2.2	20.0
Di-n-butyl phthalate	Ave	1.265	1.389	0.0100	4390	4000	9.8	20.0
Fluoranthene	Ave	1.174	1.139	0.6000	3880	4000	-3.0	20.0
Benzidine	Lin2		0.8604	0.0100	8350	8000	4.4	50.0
Pyrene	Ave	1.340	1.420	0.6000	4240	4000	6.0	20.0
Butyl benzyl phthalate	Lin2		0.7599	0.0100	4820	4000	20.5*	20.0
Bis(2-ethylhexyl) phthalate	Lin2		1.106	0.0100	4910	4000	22.7*	20.0
3,3'-Dichlorobenzidine	Lin2		0.6320	0.0100	7890	8000	-1.4	50.0
Benzo(a)anthracene	Ave	1.370	1.387	0.8000	4050	4000	1.3	20.0
Chrysene	Ave	1.251	1.312	0.7000	4190	4000	4.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730403/3 | Calibration Date: 10/30/2024 10:18

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04602.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin2		1.834	0.0100	4820	4000	20.4*	20.0
Benzo(b)fluoranthene	Lin2		1.192	0.7000	3740	4000	-6.5	20.0
Benzo(k)fluoranthene	Ave	1.283	1.242	0.7000	3870	4000	-3.2	20.0
Benzo(a)pyrene	Lin2		1.116	0.7000	3930	4000	-1.8	20.0
Dibenz(a,h)anthracene	Lin2		1.067	0.4000	3790	4000	-5.3	20.0
Indeno(1,2,3-cd)pyrene	Lin2		1.328	0.5000	3810	4000	-4.9	20.0
Benzo(g,h,i)perylene	Lin2		1.022	0.5000	3730	4000	-6.7	20.0
2-Fluorophenol	Ave	1.232	1.235	0.0100	4010	4000	0.2	20.0
Phenol-d5	Ave	1.523	1.519	0.0100	3990	4000	-0.2	20.0
Nitrobenzene-d5	Lin2		0.4445	0.0100	4640	4000	16.0	20.0
2-Fluorobiphenyl	Ave	1.375	1.351	0.0100	3930	4000	-1.8	20.0
2,4,6-Tribromophenol	Lin2		0.0841	0.0100	3470	4000	-13.1	20.0
p-Terphenyl-d14	Ave	1.084	1.077	0.0100	3970	4000	-0.7	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04602.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Oct-2024 10:18:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120914-003
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 10:57:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.883	5.883	0.000	96	153871	4.00	4.00	
* 2 Naphthalene-d8	136	7.086	7.086	0.000	99	563716	4.00	4.00	
* 3 Acenaphthene-d10	164	8.651	8.651	0.000	95	329934	4.00	4.00	
* 4 Phenanthrene-d10	188	9.926	9.926	0.000	97	565127	4.00	4.00	
* 5 Chrysene-d12	240	12.777	12.777	0.000	99	468318	4.00	4.00	
* 6 Perylene-d12	264	14.460	14.460	0.000	97	537948	4.00	4.00	
$ 7 2-Fluorophenol	112	4.638	4.638	0.000	94	189999	4.00	4.01	
$ 8 Phenol-d5	99	5.521	5.521	0.000	89	233721	4.00	3.99	
$ 9 Nitrobenzene-d5	82	6.410	6.410	0.000	96	250587	4.00	4.64	
$ 10 2-Fluorobiphenyl	172	8.035	8.035	0.000	99	445581	4.00	3.93	
$ 11 2,4,6-Tribromophenol	330	9.327	9.327	0.000	81	47541	4.00	3.47	
$ 12 p-Terphenyl-d14	244	11.485	11.485	0.000	97	504172	4.00	3.97	
13 1,4-Dioxane	88	3.138	3.138	0.000	93	77291	4.00	4.06	
14 N-Nitrosodimethylamine	42	3.470	3.470	0.000	74	174784	4.00	7.22	
15 Pyridine	52	3.500	3.500	0.000	77	250267	8.00	9.29	
35 Benzaldehyde	77	5.474	5.474	0.000	88	174946	4.00	4.74	
37 Phenol	94	5.533	5.533	0.000	91	243320	4.00	4.09	
36 Aniline	93	5.569	5.569	0.000	93	278550	4.00	3.83	
39 Bis(2-chloroethyl)ether	93	5.604	5.604	0.000	86	203296	4.00	4.14	
41 n-Decane	57	5.687	5.687	0.000	94	253275	4.00	4.42	
40 2-Chlorophenol	128	5.699	5.699	0.000	93	200796	4.00	4.05	
43 1,3-Dichlorobenzene	146	5.835	5.835	0.000	94	234351	4.00	3.99	
44 1,4-Dichlorobenzene	146	5.901	5.901	0.000	93	239617	4.00	3.98	
45 Benzyl alcohol	108	6.007	6.007	0.000	86	127911	4.00	4.01	
46 1,2-Dichlorobenzene	146	6.055	6.055	0.000	93	223765	4.00	3.96	
48 2-Methylphenol	108	6.108	6.108	0.000	89	181433	4.00	4.02	
49 2,2'-oxybis[1-chloropropane]	45	6.120	6.120	0.000	88	423018	4.00	5.60	
47 Indene	115	6.138	6.138	0.000	87	2484956	24.0	28.6	
53 N-Nitrosodi-n-propylamine	70	6.244	6.244	0.000	93	145709	4.00	4.29	
57 4-Methylphenol	108	6.256	6.256	0.000	93	191897	4.00	4.09	
52 Acetophenone	105	6.262	6.262	0.000	93	284501	4.00	4.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.375	6.375	0.000	91	107272	4.00	4.68	
59 Nitrobenzene	77	6.434	6.434	0.000	95	248512	4.00	4.74	
62 Isophorone	82	6.647	6.647	0.000	95	397324	4.00	4.27	
64 2-Nitrophenol	139	6.730	6.730	0.000	91	110286	4.00	4.20	
66 2,4-Dimethylphenol	107	6.748	6.748	0.000	97	216614	4.00	4.41	
69 Bis(2-chloroethoxy)methane	93	6.819	6.819	0.000	93	229262	4.00	4.04	
70 Benzoic acid	105	6.885	6.885	0.000	92	501182	24.0	24.7	
72 2,4-Dichlorophenol	162	6.962	6.962	0.000	95	166109	4.00	3.93	
73 1,2,4-Trichlorobenzene	180	7.033	7.033	0.000	91	187061	4.00	3.92	
74 Naphthalene	128	7.110	7.110	0.000	98	589225	4.00	3.96	
76 4-Chloroaniline	127	7.145	7.145	0.000	94	237214	4.00	4.17	
77 2,6-Dichlorophenol	162	7.157	7.157	0.000	91	170121	4.00	4.07	
79 Hexachlorobutadiene	225	7.205	7.205	0.000	94	115696	4.00	4.17	
84 Caprolactam	113	7.466	7.466	0.000	70	56045	4.00	3.69	
85 4-Chloro-3-methylphenol	107	7.578	7.578	0.000	93	171355	4.00	4.26	
87 2-Methylnaphthalene	142	7.726	7.726	0.000	90	361800	4.00	3.94	
89 1-Methylnaphthalene	142	7.821	7.821	0.000	92	375142	4.00	4.02	
90 Hexachlorocyclopentadiene	237	7.869	7.869	0.000	96	38504	4.00	2.14	
91 1,2,4,5-Tetrachlorobenzene	216	7.880	7.880	0.000	98	188038	4.00	3.85	
93 2,4,6-Trichlorophenol	196	7.981	7.981	0.000	95	114962	4.00	3.86	
94 2,4,5-Trichlorophenol	196	8.023	8.023	0.000	91	123447	4.00	3.93	
96 1,1'-Biphenyl	154	8.129	8.129	0.000	97	480747	4.00	3.97	
97 2-Chloronaphthalene	162	8.165	8.165	0.000	97	380891	4.00	3.94	
100 2-Nitroaniline	65	8.248	8.248	0.000	79	127828	4.00	4.75	
105 Dimethyl phthalate	163	8.372	8.372	0.000	96	417252	4.00	3.98	
106 1,3-Dinitrobenzene	168	8.426	8.426	0.000	81	59570	4.00	3.79	
107 2,6-Dinitrotoluene	165	8.438	8.438	0.000	91	93533	4.00	3.88	
108 Acenaphthylene	152	8.533	8.533	0.000	98	601162	4.00	4.11	
109 3-Nitroaniline	138	8.598	8.598	0.000	89	95044	4.00	3.87	
110 Acenaphthene	153	8.681	8.681	0.000	96	400663	4.00	4.09	
111 2,4-Dinitrophenol	184	8.693	8.693	0.000	77	66355	8.00	7.52	
112 4-Nitrophenol	109	8.752	8.752	0.000	95	119992	8.00	11.5	
114 2,4-Dinitrotoluene	165	8.799	8.799	0.000	84	123894	4.00	4.00	
115 Dibenzofuran	168	8.823	8.823	0.000	95	534811	4.00	4.04	
118 2,3,4,6-Tetrachlorophenol	232	8.936	8.936	0.000	79	78825	4.00	3.61	
121 Hexadecane	57	8.953	8.953	0.000	86	307690	4.00	4.68	
120 Diethyl phthalate	149	8.965	8.965	0.000	96	454727	4.00	4.39	
123 4-Chlorophenyl phenyl ether	204	9.090	9.090	0.000	95	190280	4.00	3.64	
124 Fluorene	166	9.119	9.119	0.000	92	433895	4.00	3.89	
126 4-Nitroaniline	138	9.131	9.131	0.000	74	100040	4.00	3.82	
127 4,6-Dinitro-2-methylphenol	198	9.155	9.155	0.000	73	108018	8.00	7.03	
129 Diphenylamine	169	9.190	9.190	0.000	92	297551	3.42	3.25	
130 N-Nitrosodiphenylamine	169	9.190	9.190	0.000	67	297551	4.00	3.81	
132 Azobenzene	77	9.232	9.232	0.000	96	524541	4.00	5.04	
131 1,2-Diphenylhydrazine	77	9.232	9.232	0.000	41	524541	4.00	5.04	
139 4-Bromophenyl phenyl ether	248	9.511	9.511	0.000	82	107915	4.00	3.38	
140 Hexachlorobenzene	284	9.605	9.605	0.000	91	119511	4.00	3.48	
143 Atrazine	200	9.617	9.617	0.000	87	114735	4.00	4.23	
148 n-Octadecane	57	9.724	9.724	0.000	85	339102	4.00	4.91	
145 Pentachlorophenol	266	9.765	9.765	0.000	87	77227	8.00	5.66	
151 Phenanthrene	178	9.943	9.943	0.000	98	640412	4.00	4.10	M
152 Anthracene	178	9.991	9.991	0.000	98	621241	4.00	3.97	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.121	10.121	0.000	97	543268	4.00	3.91	
157 Di-n-butyl phthalate	149	10.358	10.358	0.000	99	784852	4.00	4.39	
164 Fluoranthene	202	11.111	11.111	0.000	98	643499	4.00	3.88	
166 Benzidine	184	11.212	11.212	0.000	99	805925	8.00	8.35	
167 Pyrene	202	11.372	11.372	0.000	97	665054	4.00	4.24	
174 Butyl benzyl phthalate	149	12.006	12.006	0.000	96	355868	4.00	4.82	
181 Bis(2-ethylhexyl) phthalate	149	12.664	12.664	0.000	95	517759	4.00	4.91	
179 3,3'-Dichlorobenzidine	252	12.700	12.700	0.000	76	591929	8.00	7.89	
180 Benzo[a]anthracene	228	12.765	12.765	0.000	99	649433	4.00	4.05	
182 Chrysene	228	12.806	12.806	0.000	97	614273	4.00	4.19	
184 Di-n-octyl phthalate	149	13.417	13.417	0.000	98	858742	4.00	4.82	
186 Benzo[b]fluoranthene	252	14.010	14.010	0.000	97	640996	4.00	3.74	
187 Benzo[k]fluoranthene	252	14.039	14.039	0.000	99	667921	4.00	3.87	
189 Benzo[a]pyrene	252	14.395	14.395	0.000	78	600544	4.00	3.93	
194 Dibenz(a,h)anthracene	278	15.936	15.936	0.000	89	574239	4.00	3.79	
193 Indeno[1,2,3-cd]pyrene	276	15.948	15.948	0.000	95	714545	4.00	3.81	
195 Benzo[g,h,i]perylene	276	16.393	16.393	0.000	95	549757	4.00	3.73	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00646 Amount Added: 1.00 Units: mL

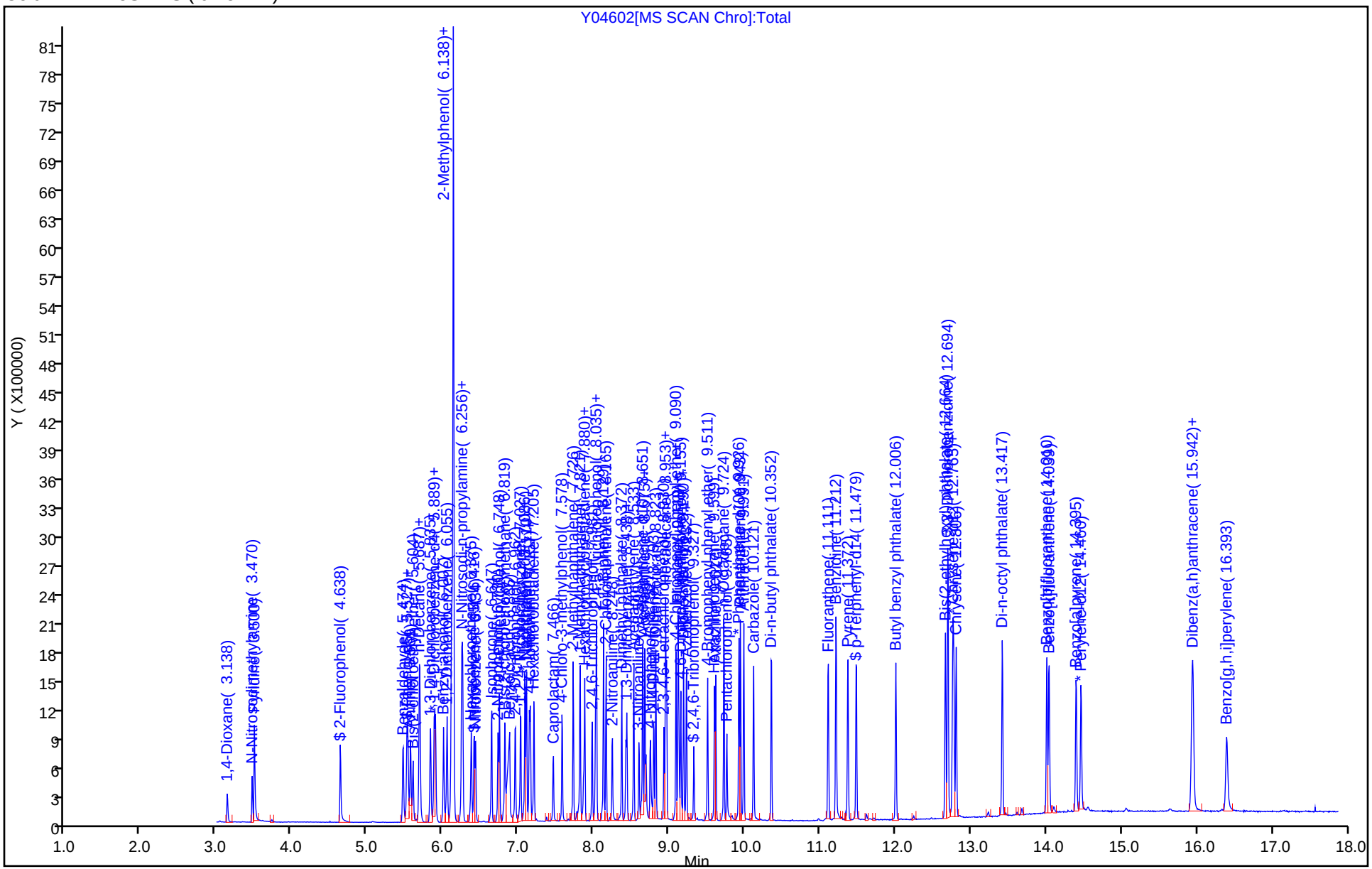
Report Date: 30-Oct-2024 16:06:34 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04602.D

Injection Date:	30-Oct-2024 10:18:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo

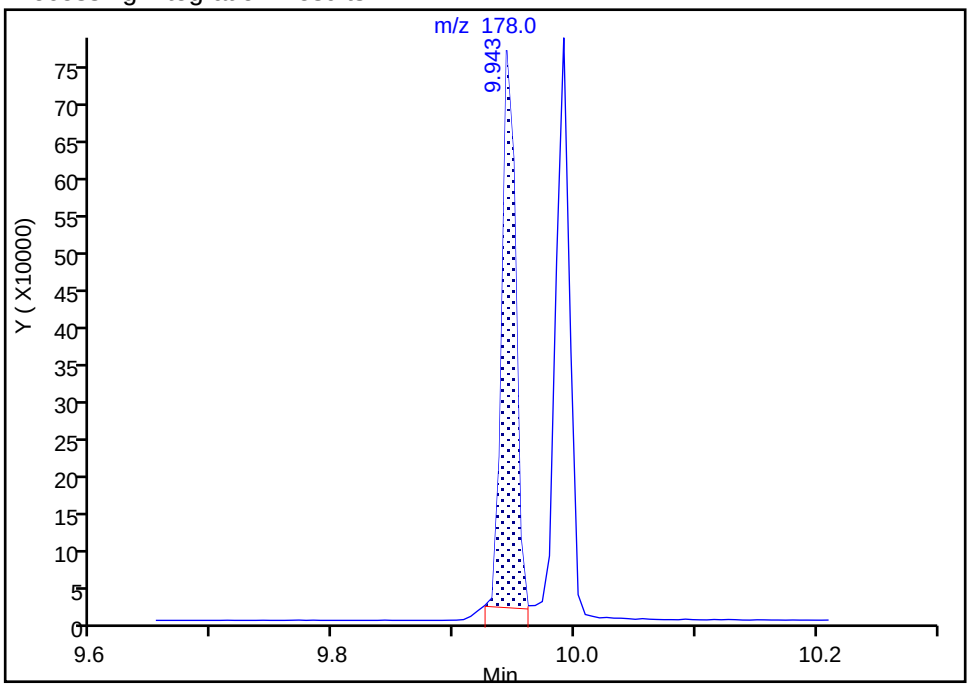
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04602.D
Injection Date: 30-Oct-2024 10:18:30 Instrument ID: HP5973Y
Lims ID: CCVIS
Client ID:
Operator ID: JM ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

151 Phenanthrene, CAS: 85-01-8

Signal: 1

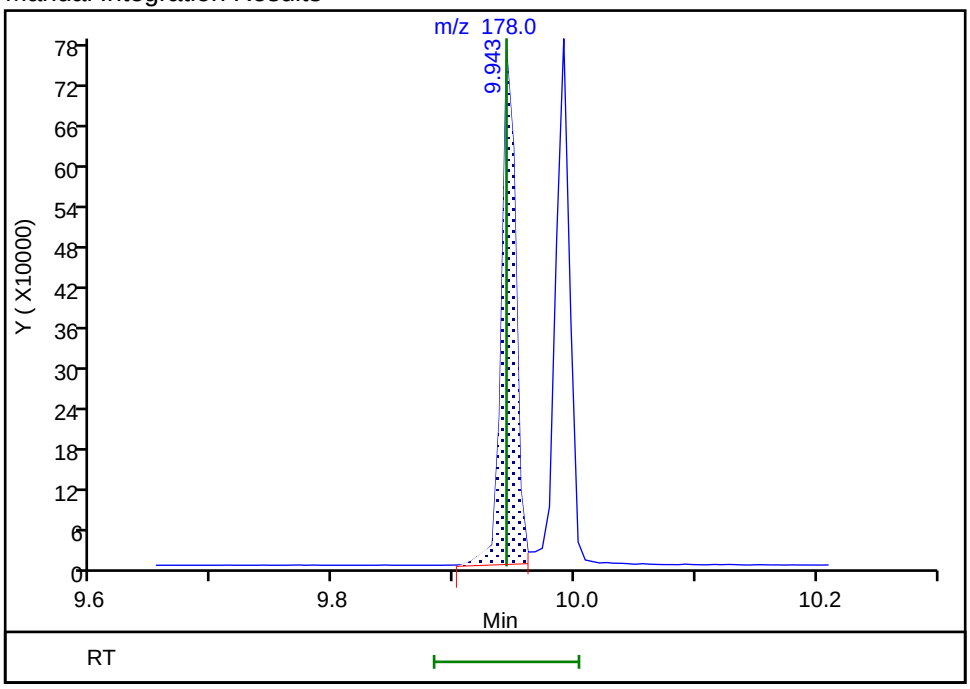
Processing Integration Results

RT: 9.94
Area: 591694
Amount: 3.787393
Amount Units: ng/uL



Manual Integration Results

RT: 9.94
Area: 640412
Amount: 4.099233
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:57:40 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 10-Oct-2024 14:20:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-002
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:34:42 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 10-Oct-2024 15:34:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
250 Pentachlorophenol_T	266	9.889	9.889	0.000	94	411120	NR	NR	a
251 DFTPP									
252 Benzidine_T	184	11.377	11.377	0.000	99	2969781	NR	NR	a
253 4,4'-DDE	246	11.554	11.554	0.000	1	0		NR	a
254 4,4'-DDD	235	12.012	12.012	0.000	97	17035		NR	a
255 4,4'-DDT	235	12.332	12.332	0.000	99	1904158	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

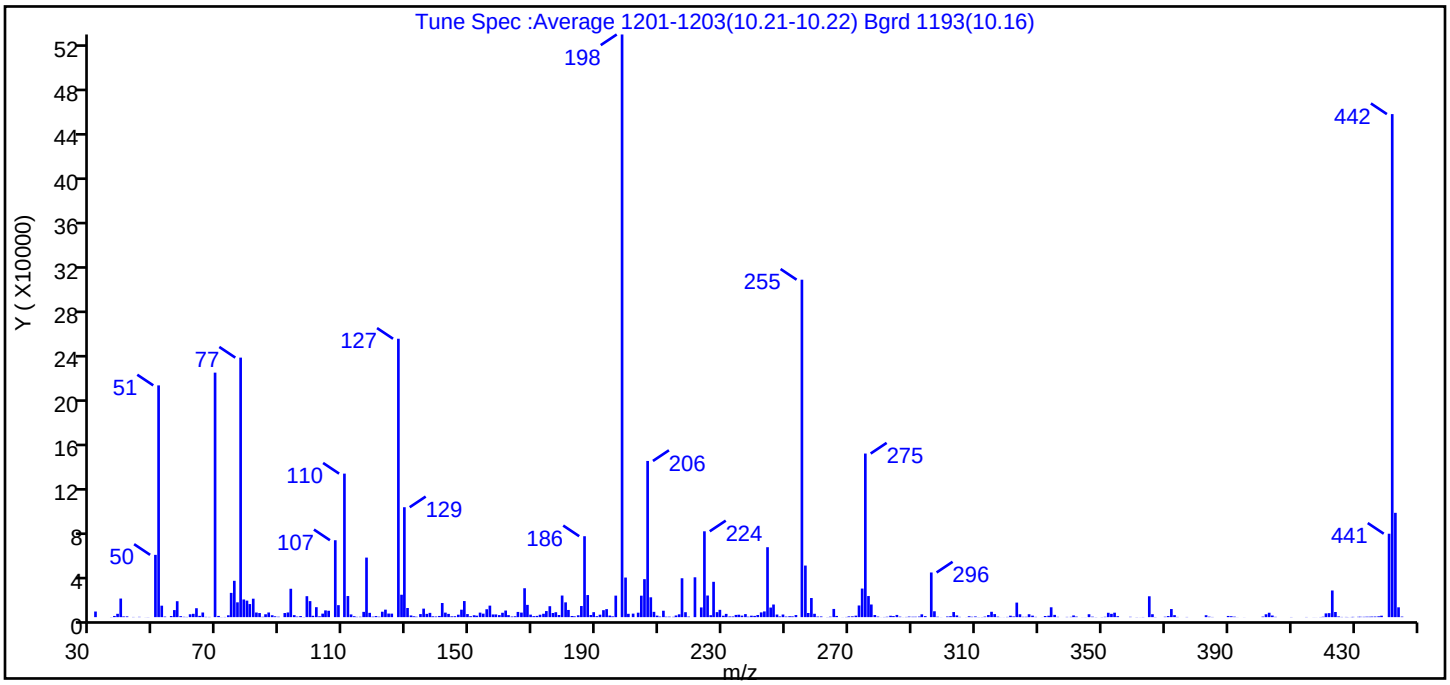
MB_DFTPP_WRK_00443 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D
Injection Date: 10-Oct-2024 14:20:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

251 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (115.8)
51	10-80% of the base peak	39.8
68	<2% of mass 69	0.0 (0.0)
69	Present	42.0
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	47.8
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	28.1
365	>1% of mass 198	3.6
441	present but <24% of mass 442	14.3 (16.6)
442	base peak, or >50% of 198	86.3
443	15-24% of mass 442	17.9 (20.7)

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 10-Oct-2024 14:20:30
Spectrum: Tune Spec :Average 1201-1203(10.21-10.22) Bgrd 1193(10.16)
Base Peak: 198.05
Minimum % Base Peak: 0
Number of Points: 353

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	5055	133.00	388	226.00	1751	321.00	1303
36.00	105	134.00	2761	227.00	31752	322.00	615
37.00	1066	135.00	7653	228.00	4490	323.00	13070
38.00	3004	136.00	2933	229.00	6570	324.00	2593
39.00	16712	137.00	3847	230.00	1266	325.00	316
40.00	668	138.00	744	231.00	2935	326.00	323
41.00	692	139.00	578	232.00	605	327.00	2611
43.00	175	140.00	1072	233.00	618	328.00	1338
44.00	20	141.00	12694	234.00	2004	329.00	251
45.00	261	142.00	4067	235.00	2185	331.00	54
47.00	60	143.00	2926	236.00	1374	332.00	1010
48.00	104	144.00	727	237.00	2739	333.00	1262
50.00	55976	145.00	820	238.00	419	334.00	8862
51.00	208256	146.00	2205	239.00	1307	335.00	2038
52.00	10309	147.00	6697	240.00	1132	336.00	292
53.00	501	148.00	14458	241.00	1929	339.00	225
55.00	991	149.00	2758	242.00	4267	340.00	264
56.00	6339	150.00	855	243.00	5137	341.00	1537
57.00	14327	151.00	1689	244.00	62848	342.00	498
58.00	885	152.00	1315	245.00	8614	344.00	51
59.00	305	153.00	4057	246.00	11353	345.00	65
60.00	199	154.00	3134	247.00	2350	346.00	2616
61.00	2582	155.00	7095	248.00	623	347.00	436
62.00	2993	156.00	10338	249.00	2361	348.00	112
63.00	8020	157.00	2418	250.00	516	350.00	118
64.00	1141	158.00	2434	251.00	833	351.00	311
65.00	4182	159.00	1827	252.00	705	352.00	3910
66.00	254	160.00	3927	253.00	1877	353.00	2960
67.00	203	161.00	5931	255.00	303232	354.00	3998
69.00	219712	162.00	1802	256.00	46352	355.00	832
70.00	1096	163.00	567	257.00	3722	359.00	299
71.00	106	164.00	776	258.00	17184	361.00	111
72.00	177	165.00	4683	259.00	3018	362.00	51

Report Date: 11-Oct-2024 11:34:43 Chrom Revision: 2.3 24-Sep-2024 15:19:46
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 10-Oct-2024 14:20:30
Spectrum: Tune Spec :Average 1201-1203(10.21-10.22) Bgrd 1193(10.16)
Base Peak: 198.05
Minimum % Base Peak: 0
Number of Points: 353

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1652	166.00	4080	260.00	536	363.00	148
74.00	21792	167.00	25976	261.00	607	365.00	18768
75.00	32656	168.00	11019	263.00	107	366.00	2637
76.00	13314	169.00	2247	264.00	410	367.00	144
77.00	233216	170.00	882	265.00	7382	370.00	375
78.00	15885	171.00	1128	266.00	1076	371.00	985
79.00	14828	172.00	2180	268.00	64	372.00	7293
80.00	11757	173.00	3035	269.00	175	373.00	1782
81.00	16576	174.00	5469	270.00	664	374.00	208
82.00	4153	175.00	9834	271.00	746	377.00	176
83.00	3681	176.00	3722	272.00	1319	383.00	1712
84.00	308	177.00	4437	273.00	10489	384.00	425
85.00	2587	178.00	1901	274.00	25688	385.00	172
86.00	4187	179.00	19416	275.00	147008	390.00	1070
87.00	1697	180.00	13287	276.00	18960	391.00	823
88.00	757	181.00	6466	277.00	11367	392.00	443
89.00	386	182.00	1036	278.00	1911	393.00	57
91.00	3694	183.00	720	279.00	531	395.00	58
92.00	4206	184.00	1672	280.00	55	401.00	501
93.00	25512	185.00	10001	281.00	158	402.00	2580
94.00	1796	186.00	72720	282.00	340	403.00	3953
95.00	496	187.00	19848	283.00	1257	404.00	1455
96.00	988	188.00	1918	284.00	957	405.00	271
97.00	137	189.00	4464	285.00	1989	410.00	140
98.00	18832	190.00	864	286.00	433	415.00	156
99.00	14398	191.00	2192	287.00	64	417.00	60
100.00	1200	192.00	6262	288.00	199	418.00	50
101.00	8948	193.00	7207	289.00	528	419.00	149
102.00	716	194.00	1421	290.00	365	420.00	360
103.00	3153	195.00	720	291.00	386	421.00	3374
104.00	6063	196.00	19336	292.00	544	422.00	3607
105.00	5722	198.00	523584	293.00	2536	423.00	23952
107.00	69112	199.00	35584	294.00	903	424.00	4622
108.00	10781	200.00	2991	296.00	40144	425.00	652

Report Date: 11-Oct-2024 11:34:43 Chrom Revision: 2.3 24-Sep-2024 15:19:46
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 10-Oct-2024 14:20:30
Spectrum: Tune Spec :Average 1201-1203(10.21-10.22) Bgrd 1193(10.16)
Base Peak: 198.05
Minimum % Base Peak: 0
Number of Points: 353

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	128968	202.00	3158	297.00	5278	426.00	194
111.00	18976	203.00	4002	298.00	403	428.00	200
112.00	2434	204.00	19280	299.00	69	428.00	90
113.00	827	205.00	34120	301.00	579	429.00	170
114.00	266	206.00	140352	302.00	832	430.00	241
115.00	366	207.00	17832	303.00	4589	431.00	312
116.00	4745	208.00	4762	304.00	1549	432.00	358
117.00	53520	209.00	1363	305.00	233	433.00	296
118.00	3864	210.00	511	307.00	53	434.00	415
119.00	463	211.00	5762	308.00	802	435.00	399
120.00	972	212.00	391	309.00	348	436.00	518
121.00	412	213.00	433	310.00	625	437.00	540
122.00	4876	214.00	285	311.00	119	438.00	760
123.00	6731	215.00	1482	312.00	130	439.00	1282
124.00	3222	216.00	2535	313.00	491	441.00	74968
125.00	3160	217.00	34944	314.00	1920	442.00	452032
127.00	250176	218.00	4438	315.00	4824	443.00	93744
128.00	20136	219.00	513	316.00	2741	444.00	8836
129.00	98776	221.00	35808	317.00	465	445.00	498
130.00	8213	223.00	8732	318.00	54		
131.00	1523	224.00	77136	319.00	55		
132.00	765	225.00	19440	320.00	212		

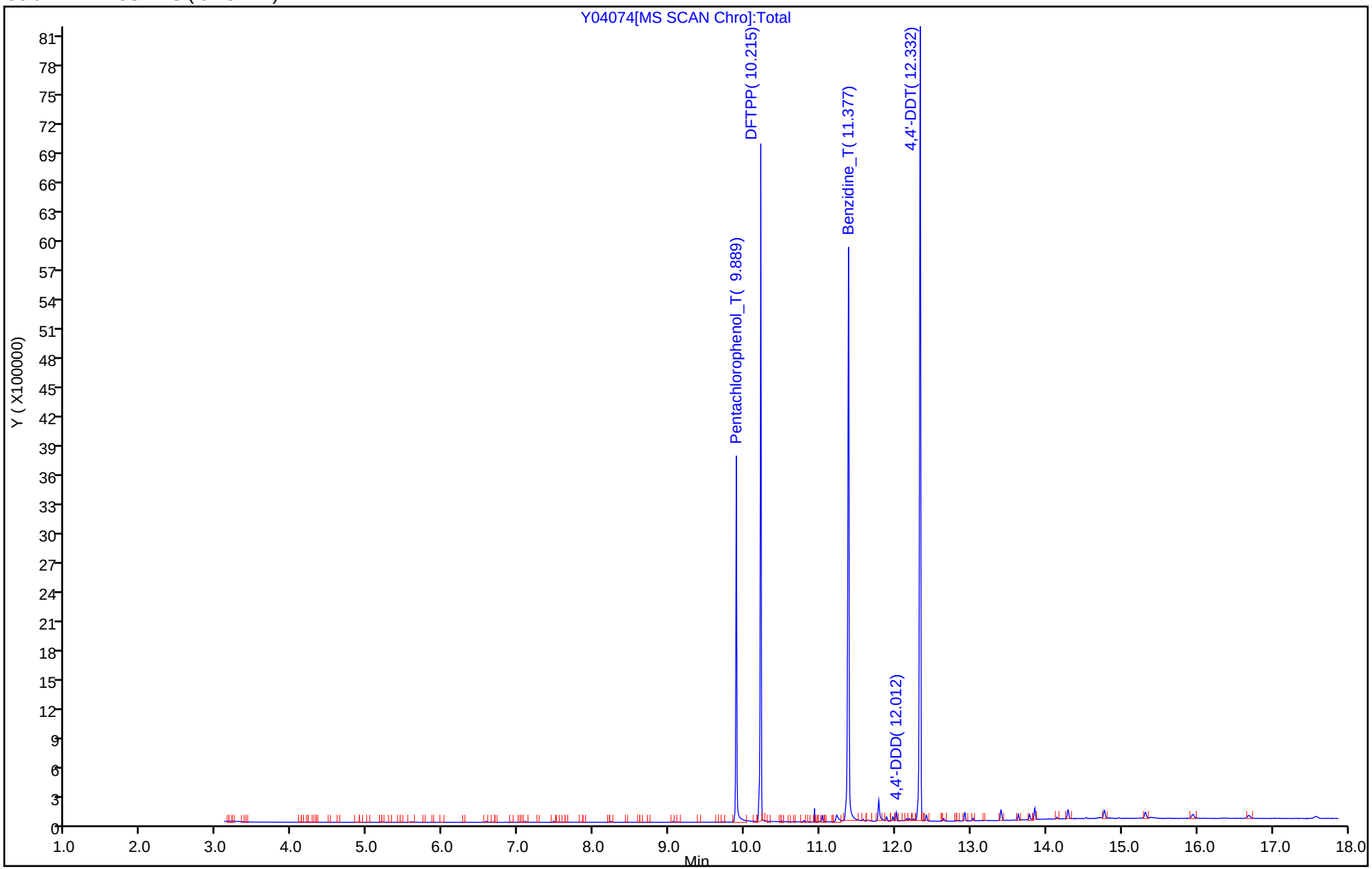
Report Date: 11-Oct-2024 11:34:43 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D

Injection Date:	10-Oct-2024 14:20:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)

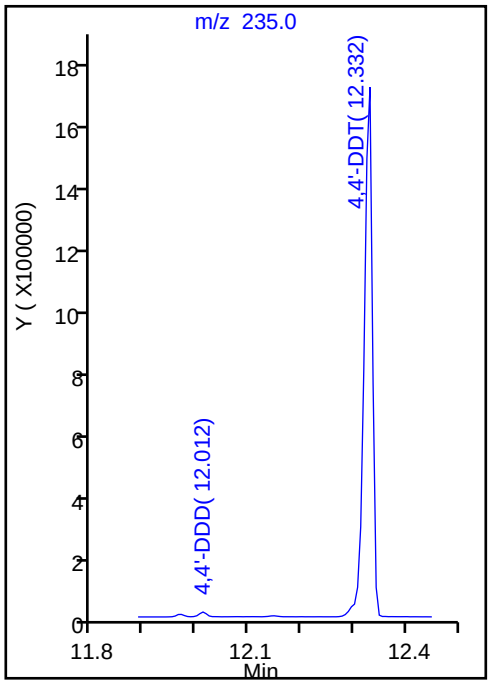


Breakdown Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D
Injection Date: 10-Oct-2024 14:20:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

255 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

255 4,4'-DDT, Area = 1904158
254 4,4'-DDD, Area = 17035
253 4,4'-DDE, Area = 0

%Breakdown: 0.89%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Buffalo

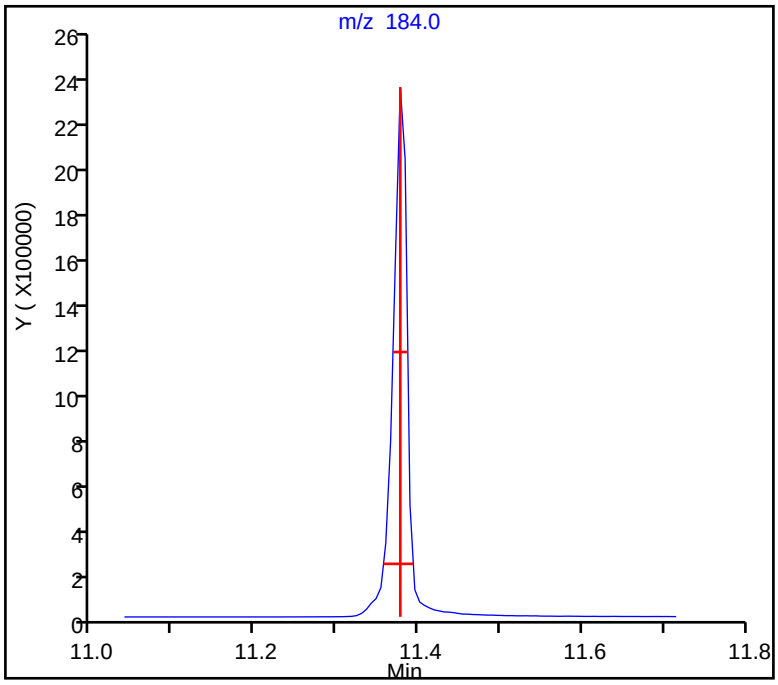
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D
Injection Date: 10-Oct-2024 14:20:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

252 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 0.76, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Buffalo

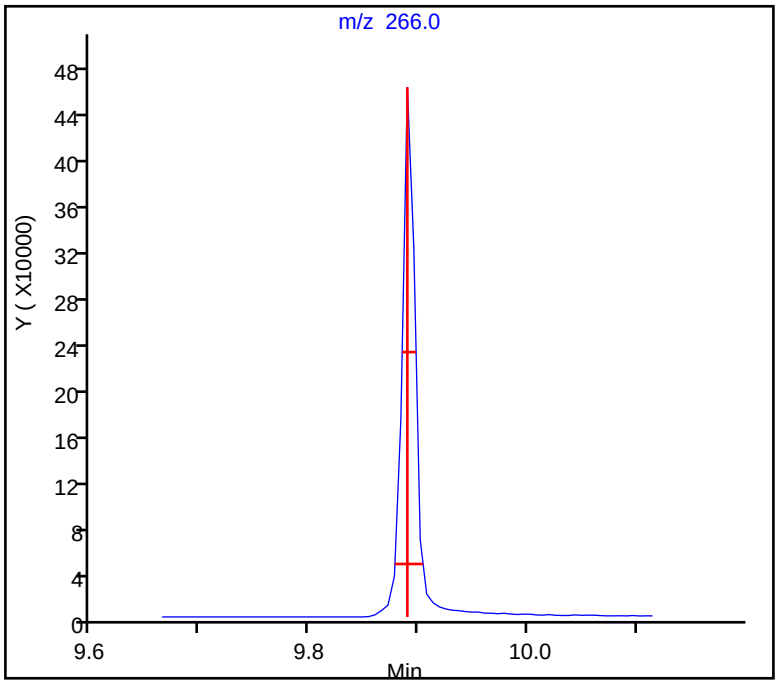
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D
Injection Date: 10-Oct-2024 14:20:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

250 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.36, Max. Tailing <= 2.00
Passed



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 29-Oct-2024 11:16:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-002
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Oct-2024 16:16:15 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: IZ8L Date: 29-Oct-2024 11:35:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
250 Pentachlorophenol_T	266	9.768	9.768	0.000	87	342851	NR	NR	
251 DFTPP									
252 Benzidine_T	184	11.220	11.220	0.000	99	2646357	NR	NR	
253 4,4'-DDE	246	11.410	11.410	0.000	82	2812		NR	
254 4,4'-DDD	235	11.801	11.801	0.000	93	10946		NR	
255 4,4'-DDT	235	12.163	12.163	0.000	95	1809612	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

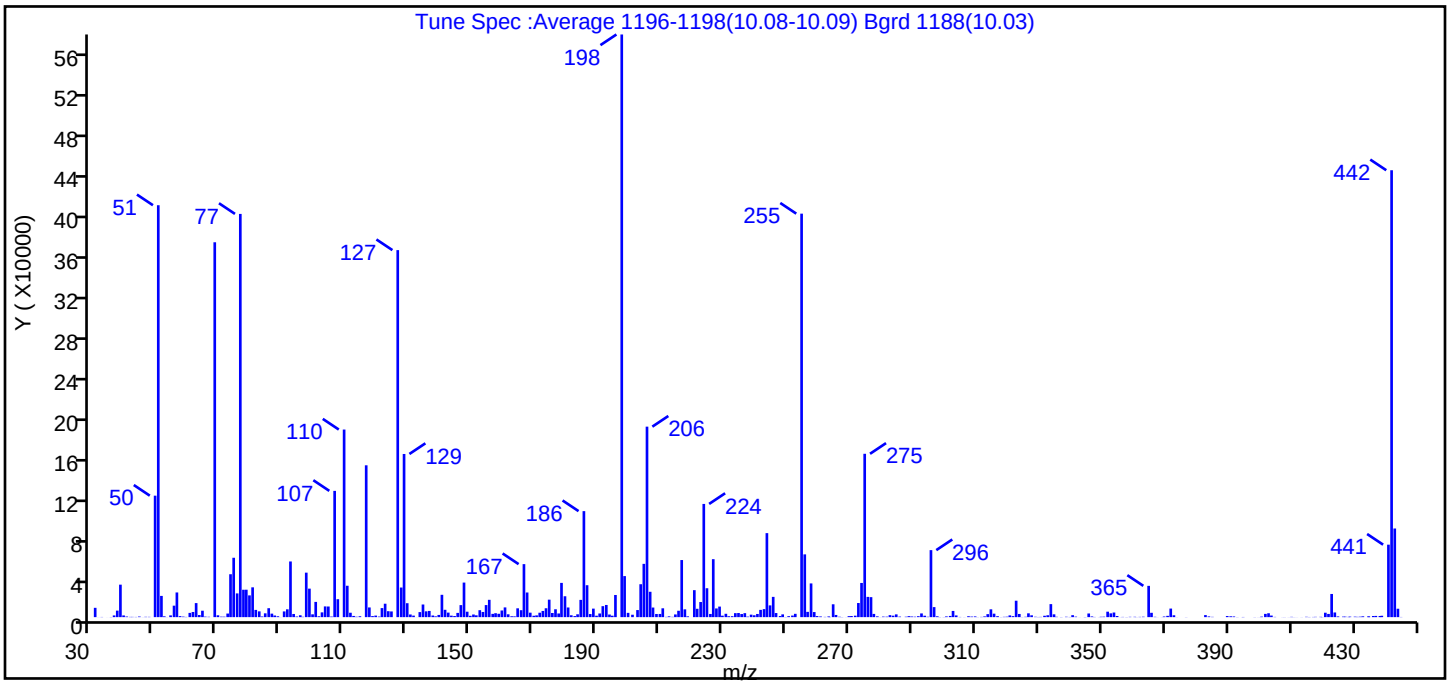
MB_DFTPP_WRK_00443 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D
Injection Date: 29-Oct-2024 11:16:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

251 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (130.4)
51	10-80% of the base peak	70.7
68	<2% of mass 69	0.0 (0.0)
69	Present	64.3
70	<2% of mass 69	0.3 (0.5)
127	10-80% of the base peak	63.0
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	28.0
365	>1% of mass 198	5.4
441	present but <24% of mass 442	12.4 (16.2)
442	base peak, or >50% of 198	76.7
443	15-24% of mass 442	15.2 (19.8)

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 29-Oct-2024 11:16:30
Spectrum: Tune Spec :Average 1196-1198(10.08-10.09) Bgrd 1188(10.03)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	9272	134.00	5007	234.00	3974	334.00	12959
32.00	57	135.00	12584	235.00	4098	335.00	2803
33.00	186	136.00	5788	236.00	3089	336.00	371
35.00	33	137.00	6176	237.00	3970	337.00	147
36.00	150	138.00	1619	238.00	518	339.00	385
37.00	1699	139.00	787	239.00	2478	340.00	185
38.00	6492	140.00	2201	240.00	1861	341.00	1966
39.00	32328	141.00	22232	241.00	3154	342.00	507
40.00	1704	142.00	7315	242.00	7237	343.00	55
41.00	621	143.00	4501	243.00	7965	345.00	51
42.00	243	144.00	1471	244.00	83600	345.00	121
43.00	255	145.00	1108	245.00	11704	346.00	3641
44.00	205	146.00	4225	246.00	20168	347.00	693
45.00	609	147.00	11970	247.00	4091	348.00	196
46.00	59	148.00	34400	248.00	1093	349.00	69
47.00	320	149.00	5410	249.00	2760	350.00	370
48.00	285	150.00	1339	250.00	153	351.00	451
50.00	120880	151.00	2621	251.00	967	352.00	5429
51.00	409920	152.00	1811	252.00	1565	353.00	3787
52.00	21136	153.00	6908	253.00	3305	354.00	4606
53.00	810	154.00	5156	255.00	401536	355.00	1129
54.00	75	155.00	12009	256.00	62472	356.00	63
55.00	1739	156.00	17248	257.00	5252	357.00	224
56.00	11416	157.00	3264	258.00	33552	358.00	133
57.00	24560	158.00	3919	259.00	5064	359.00	313
58.00	1007	159.00	3345	260.00	1081	361.00	337
59.00	534	160.00	6628	261.00	677	361.00	75
60.00	215	161.00	9685	262.00	252	362.00	258
61.00	4227	162.00	2841	264.00	706	363.00	426
62.00	5128	163.00	881	264.00	184	365.00	31136
63.00	13981	164.00	756	265.00	12806	366.00	4322
64.00	2101	165.00	8787	266.00	2171	367.00	335
65.00	6397	166.00	6900	267.00	395	368.00	52

Report Date: 29-Oct-2024 16:16:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 29-Oct-2024 11:16:30
Spectrum: Tune Spec :Average 1196-1198(10.08-10.09) Bgrd 1188(10.03)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
66.00	502	167.00	52752	268.00	142	369.00	70
67.00	348	168.00	24528	269.00	62	370.00	625
69.00	373056	169.00	4451	270.00	985	371.00	1292
70.00	1837	170.00	1373	271.00	1113	372.00	8536
71.00	506	171.00	1764	272.00	1446	373.00	1861
72.00	469	172.00	4400	273.00	14050	374.00	65
73.00	3578	173.00	6150	274.00	34016	377.00	102
74.00	42704	174.00	8848	275.00	162560	383.00	2033
75.00	59088	175.00	17392	276.00	20152	384.00	717
76.00	23624	176.00	4131	277.00	19896	385.00	290
77.00	401280	177.00	7843	278.00	3217	390.00	1102
78.00	27264	178.00	3650	279.00	790	391.00	840
79.00	27296	179.00	34088	280.00	67	392.00	672
80.00	21656	180.00	20784	281.00	541	393.00	109
81.00	29664	181.00	9617	282.00	463	395.00	66
82.00	7205	182.00	1865	283.00	1985	395.00	175
83.00	5760	183.00	1070	284.00	1465	399.00	110
84.00	654	184.00	2835	285.00	2757	400.00	57
85.00	3792	185.00	17176	286.00	544	400.00	55
86.00	8892	186.00	105496	288.00	421	401.00	518
87.00	3488	187.00	31768	289.00	989	402.00	3242
88.00	1619	188.00	3089	290.00	632	403.00	3874
89.00	874	189.00	8481	291.00	449	404.00	1578
90.00	60	190.00	1427	292.00	945	405.00	236
91.00	5695	191.00	3646	293.00	3704	407.00	62
92.00	7782	192.00	10934	294.00	1420	408.00	97
93.00	55408	193.00	12121	295.00	379	409.00	65
94.00	3154	194.00	2599	296.00	66688	410.00	282
95.00	637	195.00	1421	297.00	9983	411.00	88
96.00	1844	196.00	22048	298.00	849	412.00	51
97.00	330	198.00	579840	299.00	138	413.00	70
98.00	44272	199.00	40848	300.00	124	415.00	341
99.00	28368	200.00	4263	301.00	721	416.00	170
100.00	2800	201.00	2393	302.00	1198	417.00	196

Report Date: 29-Oct-2024 16:16:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 29-Oct-2024 11:16:30
Spectrum: Tune Spec :Average 1196-1198(10.08-10.09) Bgrd 1188(10.03)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
101.00	15169	203.00	7055	303.00	6175	418.00	290
102.00	856	204.00	32760	304.00	1701	419.00	300
103.00	4743	205.00	53032	305.00	196	420.00	139
104.00	10683	206.00	189568	307.00	79	421.00	4397
105.00	10591	207.00	25240	308.00	896	422.00	3195
106.00	566	208.00	9553	309.00	563	423.00	23064
107.00	125648	209.00	3142	310.00	717	424.00	4647
108.00	17864	210.00	3172	311.00	95	425.00	721
110.00	186688	211.00	8803	312.00	250	427.00	512
111.00	31240	212.00	250	313.00	749	427.00	482
112.00	4388	213.00	794	314.00	2976	428.00	261
113.00	1196	214.00	294	315.00	7783	429.00	513
114.00	413	215.00	2690	316.00	3443	430.00	482
115.00	894	216.00	6349	317.00	967	431.00	292
117.00	151104	217.00	56816	318.00	113	432.00	458
118.00	9648	218.00	7772	319.00	309	433.00	816
119.00	1059	219.00	786	320.00	428	435.00	754
120.00	1538	221.00	26848	321.00	1737	435.00	512
121.00	576	222.00	8313	322.00	1002	436.00	1139
122.00	8993	223.00	15041	323.00	16340	437.00	1225
123.00	13362	224.00	112664	324.00	3165	438.00	1144
124.00	5914	225.00	28768	325.00	113	439.00	1377
125.00	5680	226.00	3167	326.00	359	441.00	72120
127.00	365248	227.00	57688	327.00	3801	442.00	444736
128.00	29472	228.00	8656	328.00	1825	443.00	88216
129.00	162368	229.00	10511	329.00	374	444.00	8373
130.00	13868	230.00	1456	330.00	176	445.00	176
131.00	2643	231.00	3335	331.00	249		
132.00	1518	232.00	906	332.00	1380		
133.00	43	233.00	949	333.00	1871		

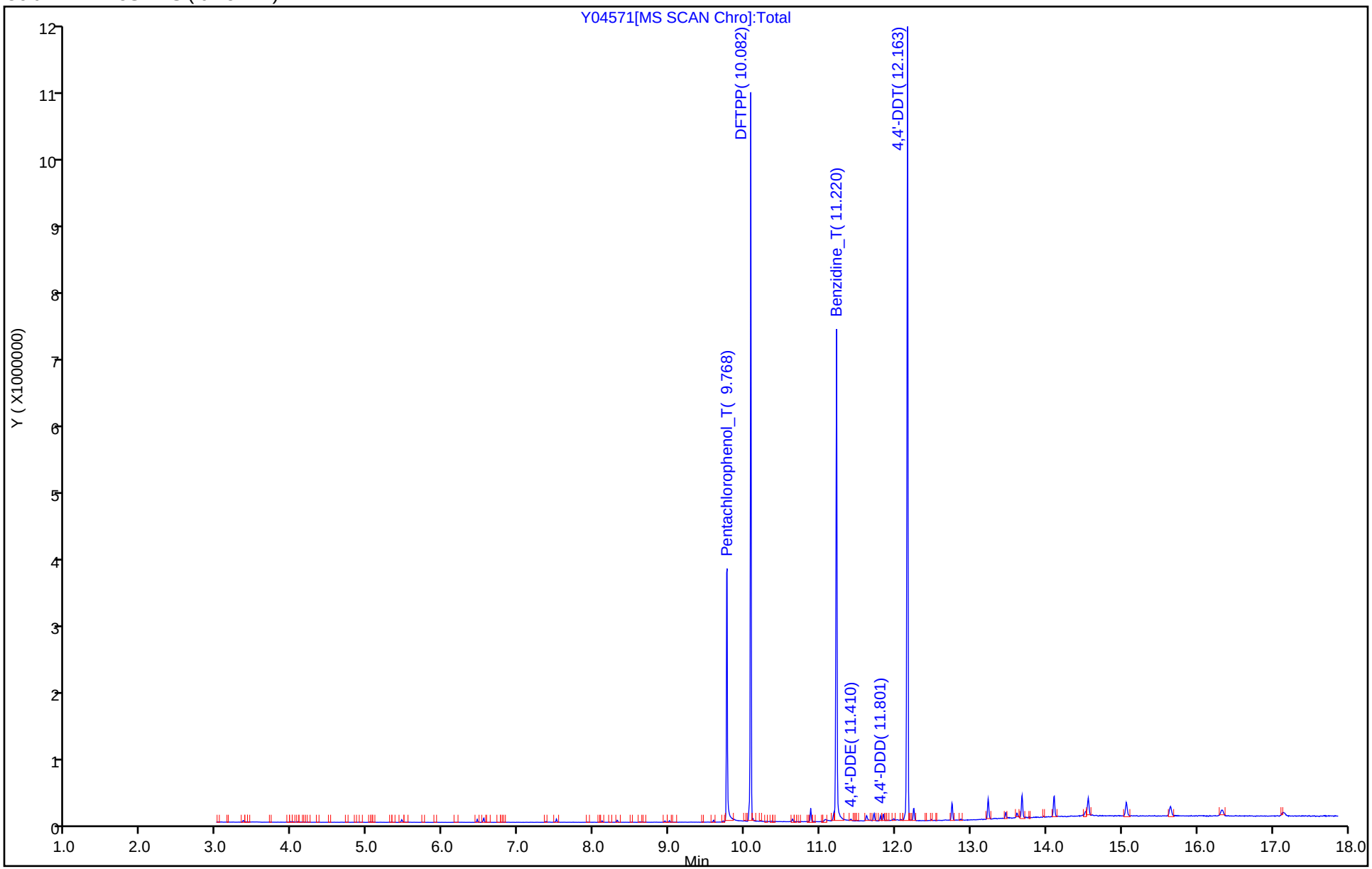
Report Date: 29-Oct-2024 16:16:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D

Injection Date:	29-Oct-2024 11:16:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Breakdown Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D
Injection Date: 29-Oct-2024 11:16:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

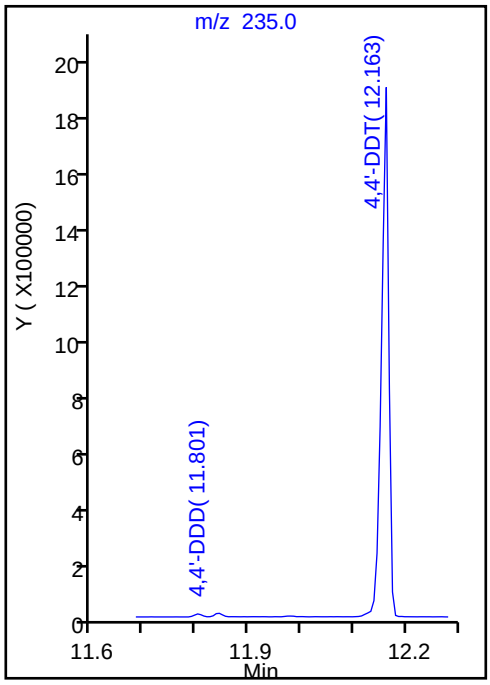
255 4,4'-DDT, Detector: MS SCAN

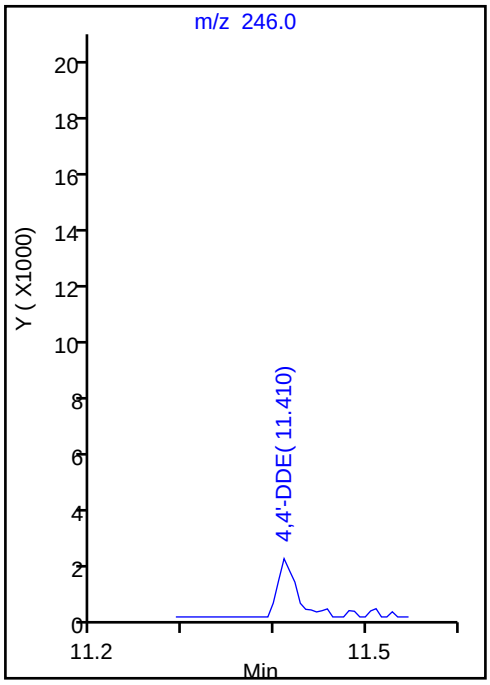
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

255 4,4'-DDT, Area = 1809612
254 4,4'-DDD, Area = 10946
253 4,4'-DDE, Area = 2812

%Breakdown: 0.75%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Buffalo

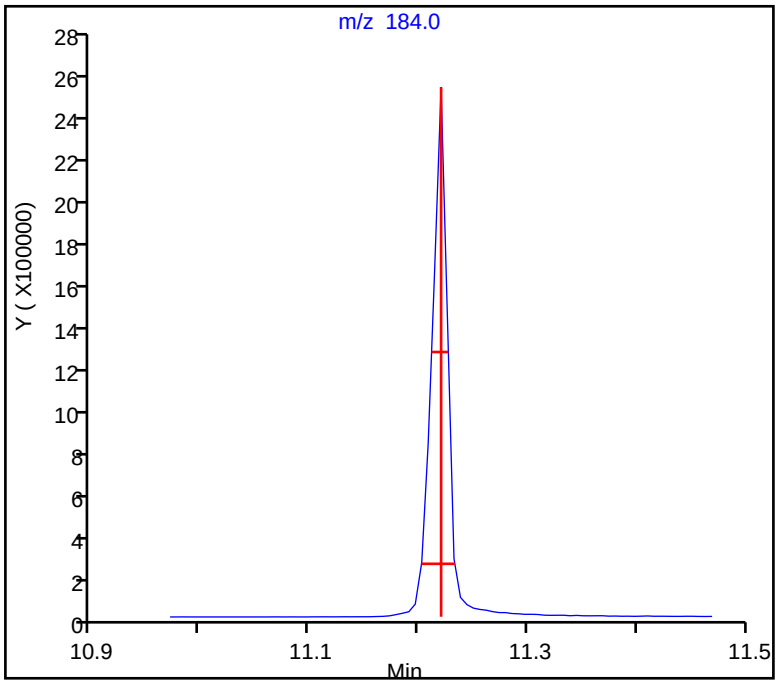
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D
Injection Date: 29-Oct-2024 11:16:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

252 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 0.72, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Buffalo

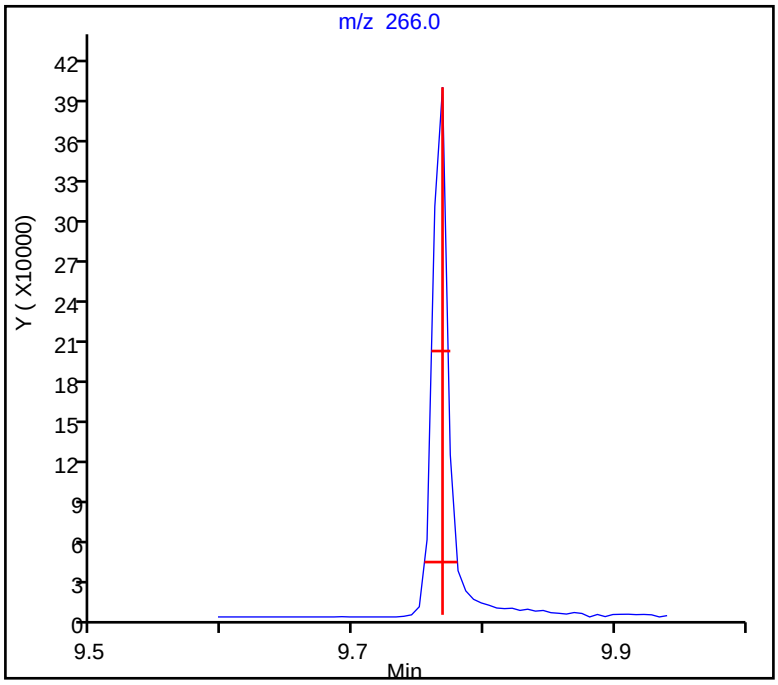
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D
Injection Date: 29-Oct-2024 11:16:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

250 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.79, Max. Tailing <= 2.00
Passed



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 30-Oct-2024 09:51:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120914-002
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:30 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 10:10:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
250 Pentachlorophenol_T	266	9.765	9.765	0.000	87	323000	NR	NR	
251 DFTPP									
252 Benzidine_T	184	11.217	11.217	0.000	98	2361610	NR	NR	
253 4,4'-DDE	246	11.407	11.407	0.000	83	2417		NR	
254 4,4'-DDD	235	11.798	11.798	0.000	91	13083		NR	
255 4,4'-DDT	235	12.160	12.160	0.000	94	1547852	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

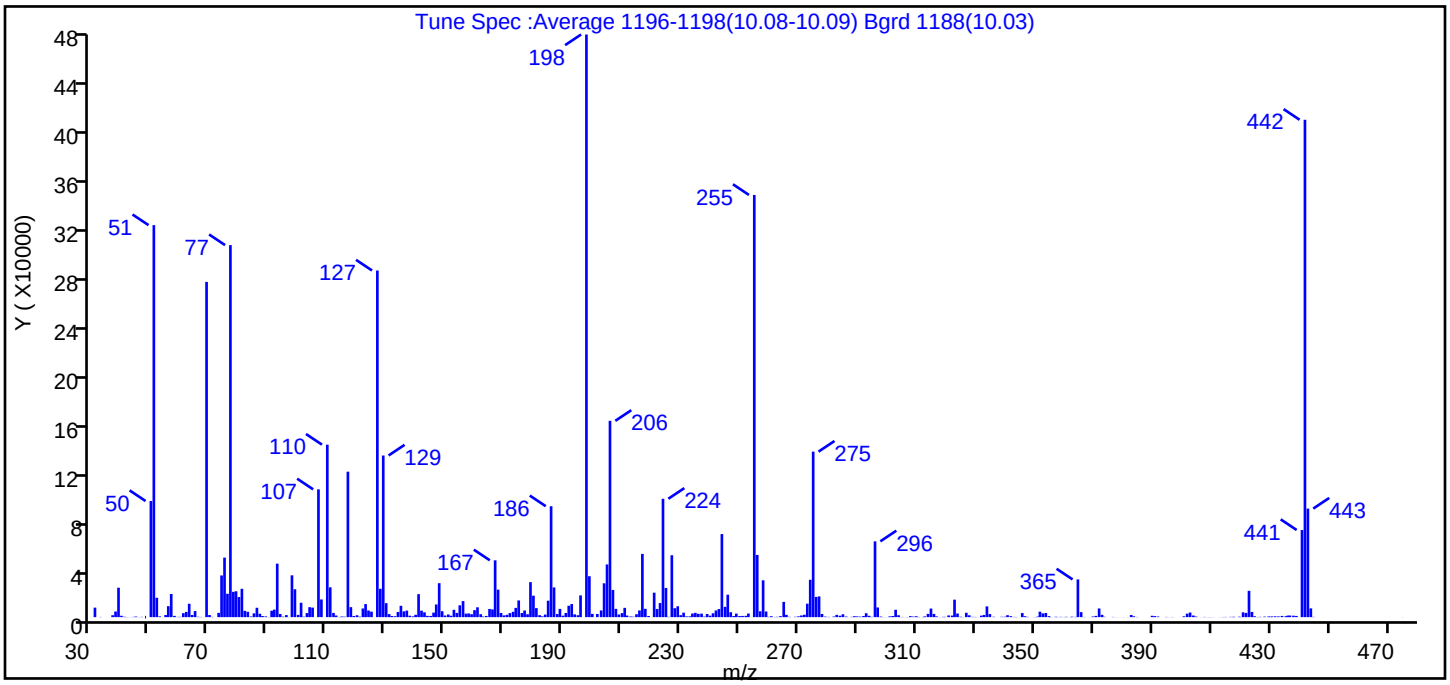
MB_DFTPP_WRK_00443 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D
Injection Date: 30-Oct-2024 09:51:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

251 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (117.2)
51	10-80% of the base peak	67.3
68	<2% of mass 69	0.0 (0.0)
69	Present	57.5
70	<2% of mass 69	0.4 (0.6)
127	10-80% of the base peak	59.5
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	28.4
365	>1% of mass 198	6.5
441	present but <24% of mass 442	15.0 (17.5)
442	base peak, or >50% of 198	85.4
443	15-24% of mass 442	18.6 (21.8)

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 30-Oct-2024 09:51:30
Spectrum: Tune Spec :Average 1196-1198(10.08-10.09) Bgrd 1188(10.03)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 378

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	7735	136.00	4718	234.00	2938	333.00	1775
33.00	163	137.00	5329	235.00	3507	334.00	8767
37.00	1577	138.00	1168	236.00	2712	335.00	2504
38.00	4595	139.00	652	237.00	2850	336.00	298
39.00	23952	140.00	1919	238.00	446	339.00	299
40.00	1127	141.00	18712	239.00	2577	340.00	362
41.00	309	142.00	5280	240.00	1209	341.00	1601
42.00	122	143.00	3926	241.00	3146	342.00	807
43.00	60	144.00	1058	242.00	5443	343.00	192
44.00	199	145.00	986	243.00	6606	344.00	146
45.00	496	146.00	3671	244.00	67624	346.00	3337
46.00	66	147.00	10310	245.00	8374	347.00	771
47.00	199	148.00	27648	246.00	18264	348.00	231
48.00	1	149.00	4829	247.00	3998	350.00	99
49.00	24	150.00	1331	248.00	882	351.00	433
50.00	94520	151.00	2140	249.00	2873	352.00	4445
51.00	319104	152.00	1140	250.00	899	353.00	3045
52.00	15768	153.00	5959	251.00	998	354.00	3395
53.00	625	154.00	3452	252.00	1069	355.00	822
55.00	1723	155.00	9648	253.00	2922	356.00	103
56.00	8928	156.00	13069	255.00	343680	357.00	277
57.00	18856	157.00	2852	256.00	50648	358.00	163
58.00	1027	158.00	2983	257.00	4772	359.00	247
59.00	211	159.00	2380	258.00	29984	360.00	143
60.00	235	160.00	5701	259.00	4578	361.00	260
61.00	3216	161.00	8014	260.00	250	362.00	112
62.00	4258	162.00	2366	261.00	763	363.00	377
63.00	10874	163.00	499	262.00	138	364.00	215
64.00	1735	164.00	978	263.00	268	365.00	30704
65.00	4937	165.00	6680	264.00	815	366.00	4055
66.00	307	166.00	6260	265.00	12428	367.00	181
67.00	159	167.00	46264	266.00	1852	369.00	53
69.00	272896	168.00	22384	267.00	255	370.00	529

Report Date: 30-Oct-2024 16:06:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 30-Oct-2024 09:51:30
Spectrum: Tune Spec :Average 1196-1198(10.08-10.09) Bgrd 1188(10.03)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 378

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	1704	169.00	3404	269.00	312	371.00	1027
71.00	207	170.00	1421	270.00	643	372.00	7071
73.00	3475	171.00	1900	271.00	1369	373.00	1885
74.00	33936	172.00	3280	272.00	1946	374.00	282
75.00	48480	173.00	4346	273.00	10958	377.00	185
76.00	19032	174.00	7541	274.00	30424	378.00	67
77.00	302848	175.00	13586	275.00	134720	380.00	85
78.00	20600	176.00	3373	276.00	16472	382.00	67
79.00	21072	177.00	5384	277.00	16856	383.00	1747
80.00	16358	178.00	2359	278.00	2575	384.00	688
81.00	23080	179.00	28488	279.00	438	385.00	154
82.00	5130	180.00	17456	280.00	208	390.00	1096
83.00	4356	181.00	7356	282.00	500	391.00	862
84.00	533	182.00	1625	283.00	1850	392.00	507
85.00	3106	183.00	630	284.00	1155	395.00	181
86.00	7647	184.00	2067	285.00	2342	396.00	64
87.00	2741	185.00	13392	286.00	483	397.00	145
88.00	899	186.00	90296	288.00	234	401.00	670
89.00	601	187.00	24192	289.00	771	402.00	2836
90.00	113	188.00	2529	290.00	588	403.00	3761
91.00	5206	189.00	6730	291.00	441	404.00	1321
92.00	6132	190.00	1197	292.00	941	405.00	484
93.00	43552	191.00	3377	293.00	3198	407.00	54
94.00	2597	192.00	9280	294.00	1106	408.00	186
95.00	394	193.00	10667	295.00	222	409.00	86
96.00	1682	194.00	2254	296.00	61704	410.00	104
97.00	75	195.00	1576	297.00	7873	411.00	56
98.00	34048	196.00	17704	298.00	483	413.00	73
99.00	22696	198.00	474304	299.00	88	414.00	145
100.00	1824	199.00	33312	300.00	64	415.00	179
101.00	11724	200.00	2691	301.00	632	417.00	221
102.00	370	202.00	2573	302.00	932	418.00	191
103.00	3313	203.00	5459	303.00	6002	418.00	239
104.00	8121	204.00	27552	304.00	1545	420.00	368

Report Date: 30-Oct-2024 16:06:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 30-Oct-2024 09:51:30
Spectrum: Tune Spec :Average 1196-1198(10.08-10.09) Bgrd 1188(10.03)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 378

m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	7747	205.00	42888	305.00	163	420.00	91
107.00	104032	206.00	159808	306.00	59	421.00	3928
108.00	14403	207.00	22128	307.00	126	422.00	3447
110.00	140416	208.00	6736	308.00	842	423.00	21416
111.00	24272	209.00	2141	309.00	481	424.00	4240
112.00	3440	210.00	3296	310.00	741	425.00	727
113.00	1327	211.00	7566	311.00	168	426.00	154
114.00	195	212.00	1291	312.00	135	427.00	236
115.00	506	213.00	524	313.00	616	428.00	437
116.00	348	214.00	354	314.00	2661	430.00	569
117.00	118416	215.00	2362	315.00	6990	430.00	193
118.00	8142	216.00	5448	316.00	2614	431.00	581
119.00	968	217.00	51480	317.00	604	432.00	672
120.00	1528	218.00	6778	318.00	94	433.00	592
121.00	393	219.00	954	319.00	229	434.00	979
122.00	7056	221.00	19912	320.00	207	435.00	776
123.00	10638	222.00	6658	321.00	1391	436.00	1281
124.00	5391	223.00	11463	322.00	1276	437.00	1306
125.00	4479	224.00	96360	323.00	14237	438.00	1205
127.00	282176	225.00	23768	324.00	2950	439.00	994
128.00	23080	226.00	247	325.00	323	441.00	70928
129.00	131584	227.00	50400	326.00	126	442.00	404864
130.00	11378	228.00	7272	327.00	3564	443.00	88352
131.00	2456	229.00	8856	328.00	1520	444.00	7129
132.00	917	230.00	1595	329.00	239	445.00	203
133.00	757	231.00	3648	330.00	185	475.00	51
134.00	4231	232.00	604	331.00	73		
135.00	9228	233.00	654	332.00	1222		

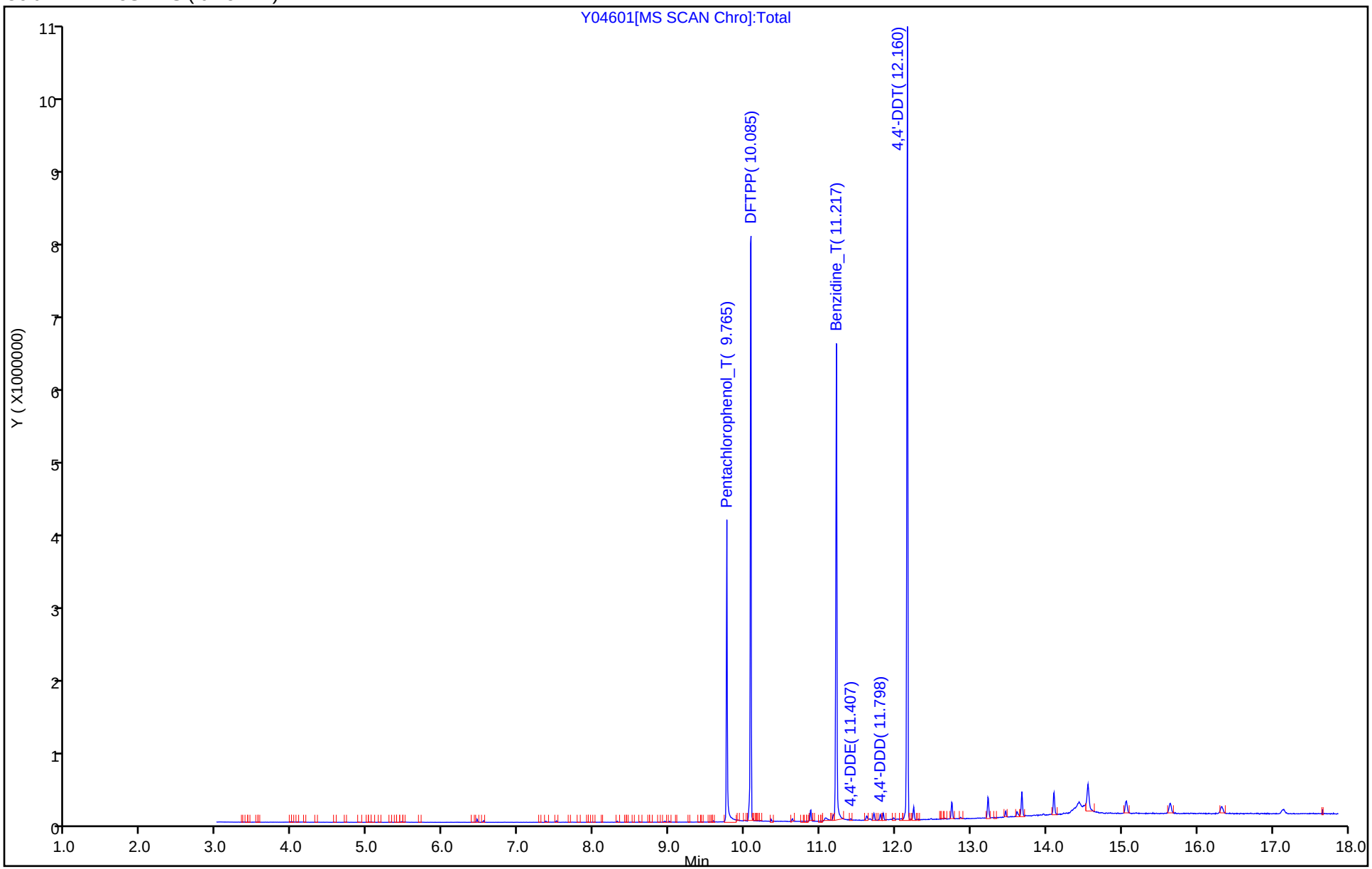
Report Date: 30-Oct-2024 16:06:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D

Injection Date:	30-Oct-2024 09:51:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Breakdown Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D
Injection Date: 30-Oct-2024 09:51:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

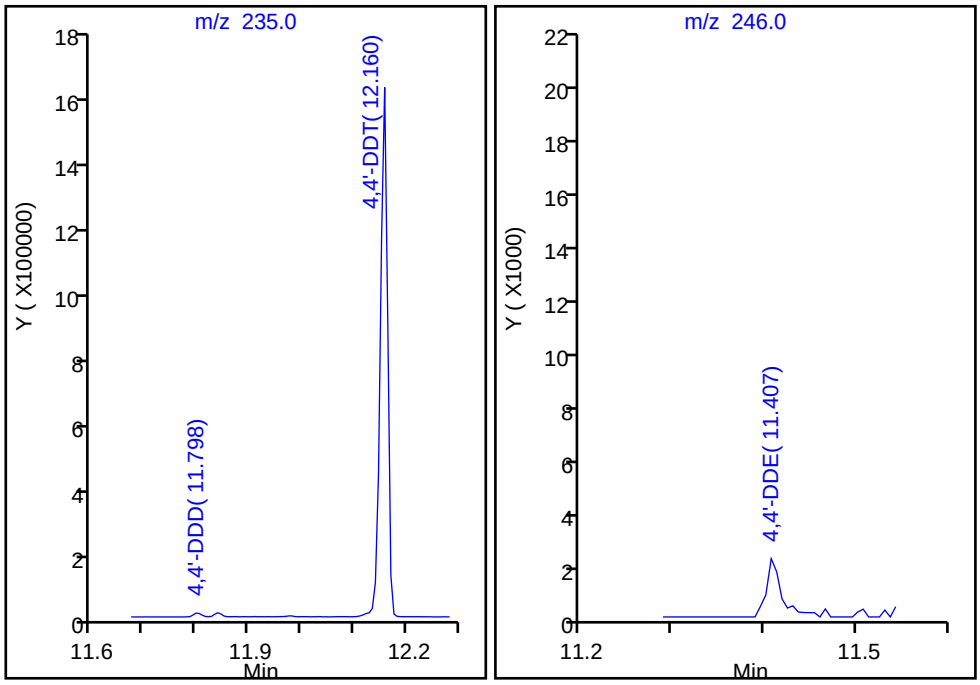
255 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

255 4,4'-DDT, Area = 1547852
254 4,4'-DDD, Area = 13083
253 4,4'-DDE, Area = 2417

%Breakdown: 0.99%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Buffalo

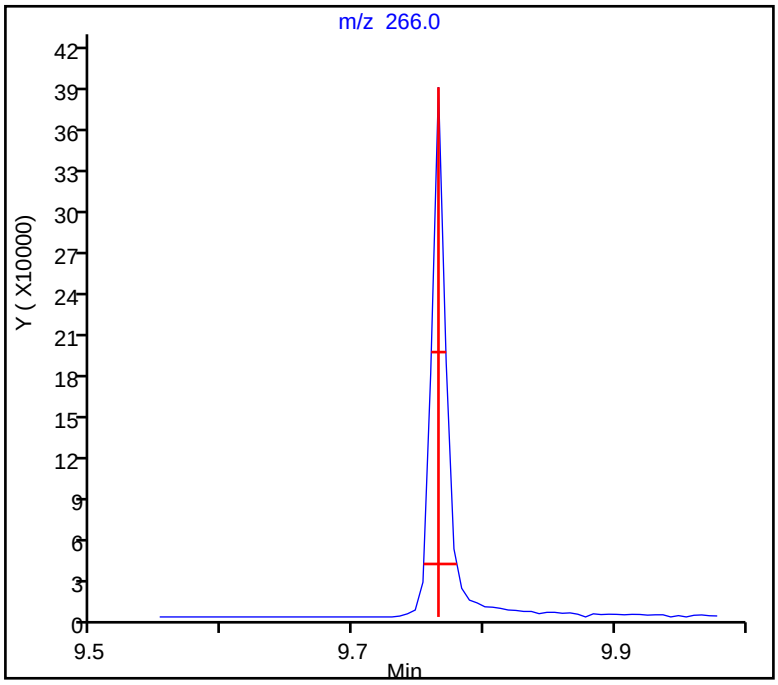
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D
Injection Date: 30-Oct-2024 09:51:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

250 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.27, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Buffalo

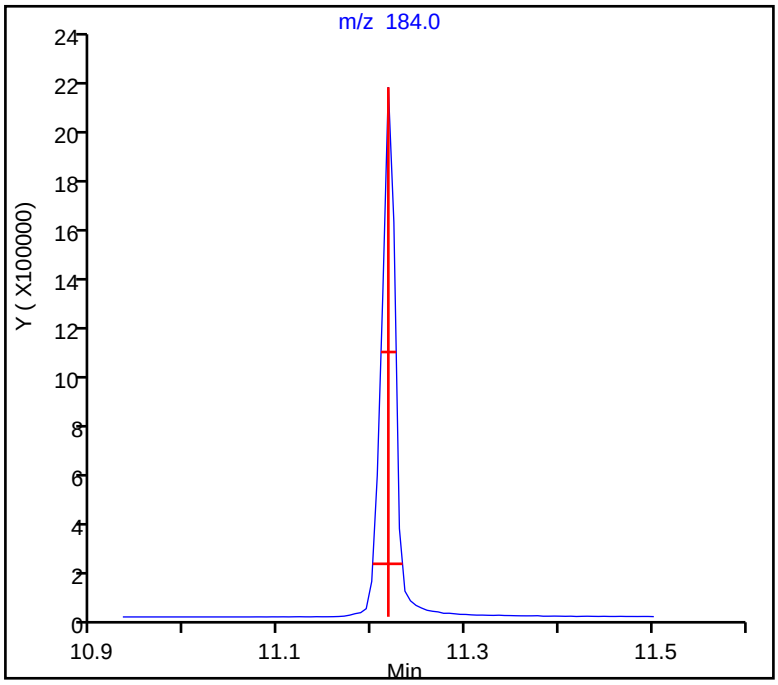
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D
Injection Date: 30-Oct-2024 09:51:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

252 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 0.88, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730138/1-A

Matrix: Water | Lab File ID: Y04575.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 13:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730138/1-A

Matrix: Water | Lab File ID: Y04575.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 13:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		5.0	0.36
50-32-8	Benzo(a)pyrene	ND		5.0	0.47
205-99-2	Benzo(b)fluoranthene	ND		5.0	0.34
191-24-2	Benzo(g,h,i)perylene	ND		5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730138/1-A

Matrix: Water | Lab File ID: Y04575.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 13:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	71		25-144
321-60-8	2-Fluorobiphenyl	70		53-126
367-12-4	2-Fluorophenol	56		24-120
4165-60-0	Nitrobenzene-d5	83		29-129
1718-51-0	p-Terphenyl-d14	91		33-132
4165-62-2	Phenol-d5	43		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04575.D
Lims ID: MB 480-730138/1-A
Client ID:
Sample Type: MB
Inject. Date: 29-Oct-2024 13:06:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-006
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 14:50:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.000	96	174744	4.00	4.00	
* 2 Naphthalene-d8	136	7.089	7.089	0.000	99	654428	4.00	4.00	
* 3 Acenaphthene-d10	164	8.648	8.648	0.000	94	374380	4.00	4.00	
* 4 Phenanthrene-d10	188	9.923	9.929	-0.006	97	601911	4.00	4.00	
* 5 Chrysene-d12	240	12.774	12.774	0.000	99	508252	4.00	4.00	
* 6 Perylene-d12	264	14.463	14.463	0.000	96	581726	4.00	4.00	
$ 7 2-Fluorophenol	112	4.671	4.644	0.030	93	241408	8.00	4.48	
$ 8 Phenol-d5	99	5.530	5.527	0.006	88	227594	8.00	3.42	
$ 9 Nitrobenzene-d5	82	6.413	6.410	-0.001	96	418978	8.00	6.66	
$ 10 2-Fluorobiphenyl	172	8.038	8.040	0.000	99	724954	8.00	5.63	
$ 11 2,4,6-Tribromophenol	330	9.330	9.327	0.000	84	84110	8.00	5.66	
$ 12 p-Terphenyl-d14	244	11.482	11.484	0.000	97	1005387	8.00	7.30	
237 Lidocaine	1		0.195					ND	
13 1,4-Dioxane	88		3.147					ND	
14 N-Nitrosodimethylamine	42		3.473					ND	
15 Pyridine	52	3.633	3.633	0.130	83	1314		0.2289	a
19 2-Picoline	93		4.143					ND	
20 N-Nitrosomethylethylamine	88		4.226					ND	
18 1-Methylcyclopentanol	71		4.314					ND	
22 Methyl methanesulfonate	80		4.481					ND	
24 Acrylamide	71		4.487					ND	
21 2-Chlorobenzotrifluoride	180		4.795					ND	
28 N-Nitrosodiethylamine	102		4.849					ND	
23 4-Chlorobenzotrifluoride	180		4.860					ND	
25 n,n'-Dimethylacetamide	87		4.937					ND	
26 4-Chloropyridine	78		5.040					ND	
27 3-Chloropyridine	78		5.117					ND	
30 Ethyl methanesulfonate	79		5.127					ND	
29 3-Chlorobenzotrifluoride	180		5.299					ND	
35 Benzaldehyde	77		5.471					ND	
196 CBF-400	214		5.530					ND	
37 Phenol	94		5.536					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
31 2-Chloropyridine	78		5.544					ND	
36 Aniline	93		5.572					ND	
39 Bis(2-chloroethyl)ether	93		5.607					ND	
38 Pentachloroethane	167		5.619					ND	
41 n-Decane	57		5.690					ND	
40 2-Chlorophenol	128		5.696					ND	
43 1,3-Dichlorobenzene	146		5.839					ND	
32 2-Chlorotoluene	91		5.880					ND	
33 3-Chlorotoluene	91		5.903					ND	
44 1,4-Dichlorobenzene	146		5.904					ND	
257 CBF-500	161		5.944					ND	
34 4-Chlorotoluene	91		5.945					ND	
45 Benzyl alcohol	108		6.011					ND	
46 1,2-Dichlorobenzene	146		6.058					ND	
48 2-Methylphenol	108		6.111					ND	
49 2,2'-oxybis[1-chloropropane]	45		6.117					ND	
47 Indene	115		6.141					ND	
42 p-Fluoroaniline	111		6.208					ND	
50 N-Nitrosopyrrolidine	100		6.242					ND	
53 N-Nitrosodi-n-propylamine	70		6.248					ND	
57 4-Methylphenol	108		6.254					ND	
52 Acetophenone	105	6.265	6.268	0.000	87	2373		0.0319	
54 N-Nitrosomorpholine	56		6.265					ND	
56 2-Toluidine	106		6.301					ND	
55 4-Methylbenzenamine	106		6.304					ND	
58 Hexachloroethane	117		6.378					ND	
59 Nitrobenzene	77		6.431					ND	
61 N-Nitrosopiperidine	114		6.568					ND	
62 Isophorone	82		6.645					ND	
63 2-Chloroaniline	127		6.695					ND	
64 2-Nitrophenol	139		6.734					ND	
66 2,4-Dimethylphenol	107		6.751					ND	
68 o,o',o''-Triethylphosphorothioat	198		6.787					ND	
67 Tetraethyl lead	237		6.790					ND	
69 Bis(2-chloroethoxy)methane	93		6.823					ND	
70 Benzoic acid	105		6.882					ND	
51 N-Methylaniline	106		6.935					ND	
71 alpha,alpha-Dimethyl phenethylam	58		6.953					ND	
72 2,4-Dichlorophenol	162		6.959					ND	
73 1,2,4-Trichlorobenzene	180		7.030					ND	
75 Alpha-Terpineol	59		7.086					ND	
74 Naphthalene	128		7.107					ND	
60 2,6-Dichloropyridine	112		7.121					ND	
76 4-Chloroaniline	127		7.149					ND	
77 2,6-Dichlorophenol	162		7.161					ND	
78 Hexachloropropene	213		7.184					ND	
79 Hexachlorobutadiene	225		7.208					ND	
81 Quinoline	129		7.410					ND	
287 1,3,5-Trichlorobenzene	180		7.416					ND	
82 N-Nitrosodi-n-butylamine	84		7.427					ND	
282 2,4-Dichlorotoluene	125		7.436					ND	
84 Caprolactam	113	7.439	7.462	-0.024	69	6228		0.4225	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
83 p-Phenylene diamine	108		7.463					ND	
65 Benzeneacetonitrile	117		7.498					ND	
85 4-Chloro-3-methylphenol	107		7.581					ND	
86 Safrole, Total	162		7.629					ND	
286 4-Chlorophenol	128		7.691					ND	
87 2-Methylnaphthalene	142		7.730					ND	
88 Phthalic anhydride	104		7.780					ND	
89 1-Methylnaphthalene	142		7.818					ND	
90 Hexachlorocyclopentadiene	237		7.866					ND	
91 1,2,4,5-Tetrachlorobenzene	216		7.884					ND	
275 Isosafrole Peak 1	162		7.890					ND	
93 2,4,6-Trichlorophenol	196		7.979					ND	
284 2,3-Dichlorobenzenamine	161	8.038	7.984	0.057	37	149			NC
94 2,4,5-Trichlorophenol	196		8.026					ND	
95 Isosafrole	162		8.091					ND	
277 Isosafrole Peak 2	162		8.091					ND	
258 CU-600	58	8.073	8.105	-0.030	0	306		0.001870	
96 1,1'-Biphenyl	154		8.133					ND	
97 2-Chloronaphthalene	162		8.162					ND	
281 2,4,5-Trichlorotoluene	159		8.171					ND	
80 Benzeneacetic acid (TIC)	91		8.174					ND	
99 1-Chloronaphthalene	162		8.186					ND	
100 2-Nitroaniline	65		8.245					ND	
198 NVF-400	82		8.313					ND	
103 Dicyclohexylamine	138		8.313					ND	
102 1,4-Naphthoquinone	158		8.316					ND	
104 1,4-Dinitrobenzene	168		8.352					ND	
105 Dimethyl phthalate	163		8.370					ND	
106 1,3-Dinitrobenzene	168		8.429					ND	
107 2,6-Dinitrotoluene	165		8.441					ND	
108 Acenaphthylene	152		8.530					ND	
109 3-Nitroaniline	138		8.601					ND	
110 Acenaphthene	153		8.678					ND	
111 2,4-Dinitrophenol	184		8.696					ND	
285 1,2,3,4 -Tetrachlorobenzene	216		8.733					ND	
112 4-Nitrophenol	109		8.749					ND	
114 2,4-Dinitrotoluene	165		8.797					ND	
113 Pentachlorobenzene	250		8.797					ND	
115 Dibenzofuran	168		8.826					ND	
116 1-Naphthylamine	143		8.891					ND	
117 2,3,5,6-Tetrachlorophenol	232		8.897					ND	
118 2,3,4,6-Tetrachlorophenol	232		8.933					ND	
121 Hexadecane	57		8.951					ND	U
119 2-Naphthylamine	143		8.957					ND	
120 Diethyl phthalate	149		8.968					ND	
122 Thionazin	97		9.040					ND	
123 4-Chlorophenyl phenyl ether	204		9.093					ND	
125 N-Nitro-o-toluidine	152		9.117					ND	
128 Tributyl phosphate	99		9.120					ND	
124 Fluorene	166		9.123					ND	
126 4-Nitroaniline	138		9.129					ND	
127 4,6-Dinitro-2-methylphenol	198		9.158					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
130 N-Nitrosodiphenylamine	169		9.194					ND	
129 Diphenylamine	169		9.194					ND	
131 1,2-Diphenylhydrazine	77		9.229					ND	
132 Azobenzene	77		9.229					ND	
134 Sulfotepp	322		9.289					ND	
278 Diallate Peak 1	86		9.419					ND	
136 Diallate	86		9.419					ND	
137 Phorate	75		9.425					ND	
135 1,3,5-Trinitrobenzene	213		9.431					ND	
138 Phenacetin	108		9.437					ND	
280 Diallate Peak 2	86		9.502					ND	
139 4-Bromophenyl phenyl ether	248		9.514					ND	
141 Dimethoate	87		9.585					ND	
142 Simazine	201		9.600					ND	
140 Hexachlorobenzene	284		9.603					ND	
143 Atrazine	200		9.621					ND	
148 n-Octadecane	57		9.727					ND	
144 4-Aminobiphenyl	169		9.739					ND	
147 Pronamide	173		9.757					ND	
145 Pentachlorophenol	266		9.769					ND	
146 Pentachloronitrobenzene	237		9.775					ND	
149 Disulfoton	88		9.870					ND	
150 Dinoseb	211		9.881					ND	
151 Phenanthrene	178		9.947					ND	
152 Anthracene	178		9.988					ND	
153 Carbazole	167		10.118					ND	
154 Alachlor	160		10.198					ND	
155 Methyl parathion	109		10.207					ND	
157 Di-n-butyl phthalate	149	10.355	10.352	-0.001	98	6793		0.0357	
241 5-Methyl-o-Anisidine	122		10.476					ND	
158 Ethyl Parathion	97		10.563					ND	
159 4-Nitroquinoline-1-oxide	190		10.658					ND	
161 Methapyrilene	58		10.676					ND	
160 Anthraquinone	180		10.684					ND	
288 2-Methylanthracene	192		10.846					ND	
162 Isodrin	193		10.937					ND	
164 Fluoranthene	202		11.108					ND	
165 1-Hydroxyanthraquinone	224		11.153					ND	
166 Benzidine	184		11.215					ND	
167 Pyrene	202		11.369					ND	
276 Aramite Peak 1	185		11.411					ND	
279 Aramite Peak 2	185		11.494					ND	
168 Aramite, Total	185		11.494					ND	
170 p-Dimethylamino azobenzene	120		11.642					ND	
171 Chlorobenzilate	251		11.672					ND	
169 1,4-Dihydroxyanthraquinone	240		11.680					ND	
172 Famphur	218		11.959					ND	
175 9-Octadecenamide	59		12.000					ND	
174 Butyl benzyl phthalate	149		12.009					ND	
173 3,3'-Dimethylbenzidine	212		12.033					ND	
176 Kepone	272		12.137					ND	
177 2-Acetylaminofluorene	181		12.353					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
181 Bis(2-ethylhexyl) phthalate	149		12.667					ND	
178 4,4'-Methylene bis(2-chloroanil	231		12.685					ND	
179 3,3'-Dichlorobenzidine	252		12.697					ND	
180 Benzo[a]anthracene	228		12.762					ND	
182 Chrysene	228		12.810					ND	
183 6-Methylchrysene	242		13.337					ND	
184 Di-n-octyl phthalate	149		13.420					ND	
185 7,12-Dimethylbenz(a)anthracene	256		13.977					ND	
186 Benzo[b]fluoranthene	252		14.007					ND	
187 Benzo[k]fluoranthene	252		14.037					ND	
192 Hexachlorophene	196		14.340					ND	
189 Benzo[a]pyrene	252		14.398					ND	
190 3-Methylcholanthrene	268		14.807					ND	
283 Benzo[e]pyrene	252	15.346	15.334	0.014	1	376			NC
191 Dibenz[a,h]acridine	279		15.560					ND	
194 Dibenz(a,h)anthracene	278		15.939					ND	
193 Indeno[1,2,3-cd]pyrene	276		15.945					ND	
195 Benzo[g,h,i]perylene	276		16.396					ND	
199 CAG-800	149		19.675					ND	
256 CN-500	112		19.994					ND	
197 Dibenzo[a,e]pyrene	302		20.118					ND	
295 4-Bromofluorobenzene TIC	1		0.000					ND	
301 3-Amino-4-Chlorobenzotrifluoride	1		0.000					ND	
303 Carbofuran	1		0.000					ND	
302 1-Bromo-2-chloroethane TIC	1		0.000					ND	
291 1,4-Dibromobenzene TIC	1		0.000					ND	
296 1,2-dichloro-4-(trifluoromethyl)	1		0.000					ND	
290 1,3-Dibromobenzene TIC	1		0.000					ND	
300 1-Bromo-4-ethylbenzene TIC	1		0.000					ND	
293 3-Nitro-4-Chlorobenzotrifluoride	1		0.000					ND	
297 Fluorobenzene TIC	1		0.000					ND	
294 3'-Bromoacetophenone TIC	1		0.000					ND	
298 2-Bromopyridine TIC	1		0.000					ND	
292 Ethylene Dibromide TIC	1		0.000					ND	
299 1-Bromo-3-fluorobenzene TIC	1		0.000					ND	
220 Tetramethyl lead TIC	1		0.195					ND	
201 7H-Dibenzo[c,g]carbazole	1		0.195					ND	
224 1-Bromopropane	1		0.195					ND	
227 Dibenz[a,j]acridine	279		0.195					ND	
212 Hexamethyldisiloxane TIC	1		0.195					ND	
204 2,6-Dichlorotoluene TIC	1		0.195					ND	
206 2,4-Toluene diamine	1		0.195					ND	
225 Dibenz(a,i)pyrene	1		0.195					ND	
211 Pendimethalin (TIC)	1		0.195					ND	
219 Photomirex TIC	1		0.195					ND	
218 3-Chlorobenzotrifluoride TIC	1		0.195					ND	
205 Phenylmercaptan	110		0.195					ND	
215 trans Azobenzene (TIC)	1		0.195					ND	
230 2,3-Dichlorophenol	1		0.195					ND	
222 2-Chlorobenzotrifluoride TIC	1		0.195					ND	
240 Prometryn (TIC)	1		0.195					ND	
210 Dibenzo[a,h]pyrene	1		0.195					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
244 Pendimethalin	1		0.195					ND	
233 4-Chlorobenzotrifluoride TIC	1		0.195					ND	
247 Benefin (TIC)	1		0.195					ND	
238 Phenylacetic Acid	1		0.195					ND	
254 4,4'-DDD	235		11.801					ND	
S 259 Chlorobenzotrifluoride N.O.S	1		0.195					ND	
S 263 3-Methylphenol	1		0.195					ND	
S 264 EPH Adjustment 1	1		0.195					ND	
S 260 Chlorotoluene N.O.S	1		0.195					ND	
S 262 3 & 4 Methylphenol	108		0.195					ND	
S 261 Total Cresols	1		0.195					ND	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

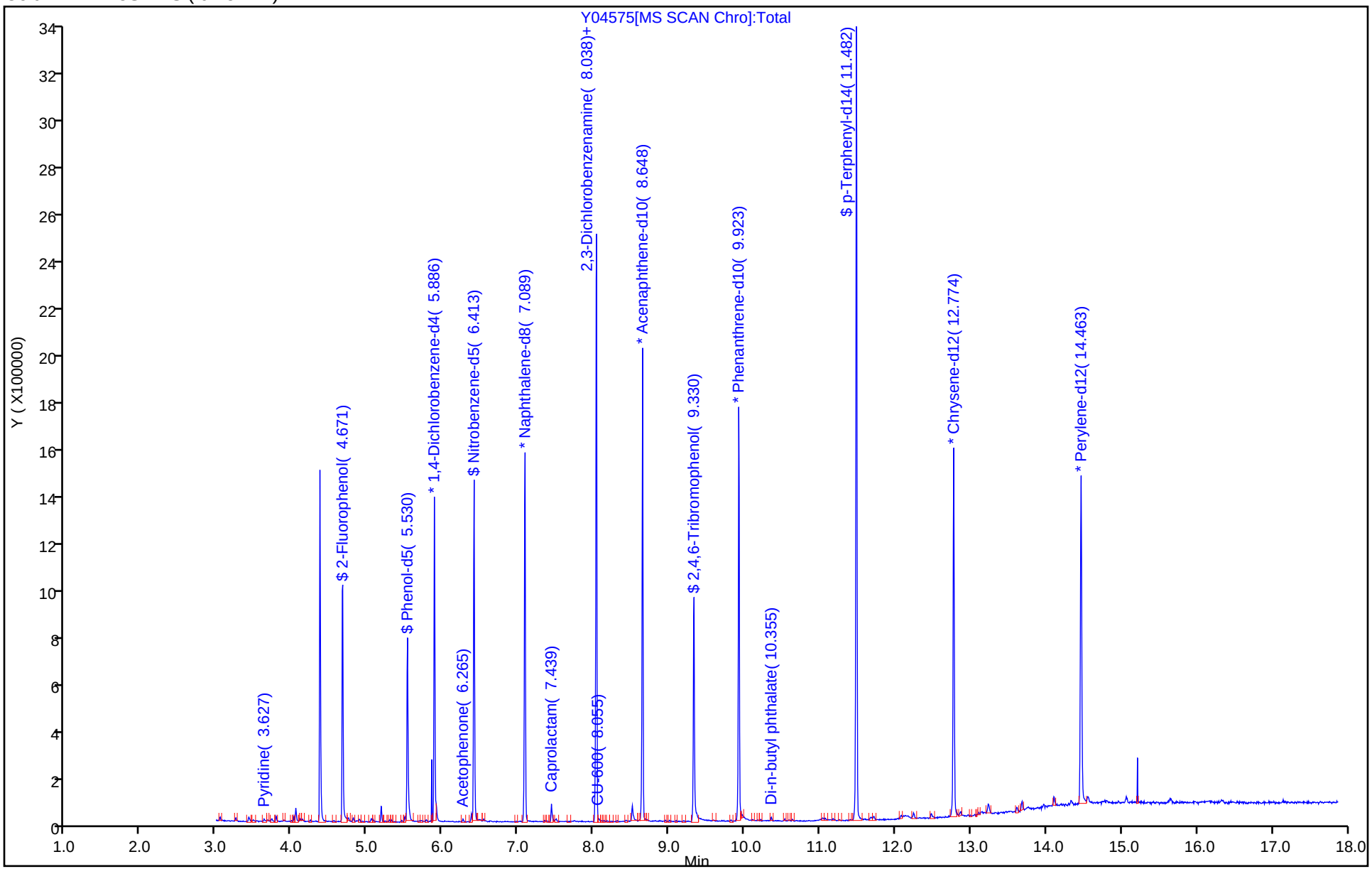
Report Date: 30-Oct-2024 15:16:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04575.D

Injection Date:	29-Oct-2024 13:06:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	MB 480-730138/1-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04575.D
Lims ID: MB 480-730138/1-A
Client ID:
Sample Type: MB
Inject. Date: 29-Oct-2024 13:06:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-006
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 14:50:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	4.48	56.05
$ 8 Phenol-d5	8.00	3.42	42.77
$ 9 Nitrobenzene-d5	8.00	6.66	83.24
$ 10 2-Fluorobiphenyl	8.00	5.63	70.42
$ 11 2,4,6-Tribromophenol	8.00	5.66	70.69
$ 12 p-Terphenyl-d14	8.00	7.30	91.21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730138/2-A

Matrix: Water | Lab File ID: Y04576.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 13:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	26.6		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	36.3		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	29.7		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	28.2		5.0	0.61
120-83-2	2,4-Dichlorophenol	27.0		5.0	0.51
105-67-9	2,4-Dimethylphenol	30.8		5.0	0.50
51-28-5	2,4-Dinitrophenol	63.2		10	2.2
121-14-2	2,4-Dinitrotoluene	31.9		5.0	0.45
606-20-2	2,6-Dinitrotoluene	30.3		5.0	0.40
91-58-7	2-Chloronaphthalene	26.5		5.0	0.46
95-57-8	2-Chlorophenol	26.5		5.0	0.53
91-57-6	2-Methylnaphthalene	25.4		5.0	0.60
95-48-7	2-Methylphenol	27.5		5.0	0.40
88-74-4	2-Nitroaniline	38.6		10	0.42
88-75-5	2-Nitrophenol	28.0		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	22.7		5.0	0.40
99-09-2	3-Nitroaniline	23.7		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	66.1		10	2.2
101-55-3	4-Bromophenyl phenyl ether	27.3		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	31.7		5.0	0.45
106-47-8	4-Chloroaniline	18.5		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	27.8		5.0	0.35
106-44-5	4-Methylphenol	28.1		10	0.36
100-01-6	4-Nitroaniline	29.5		10	0.25
100-02-7	4-Nitrophenol	81.5		10	1.5
83-32-9	Acenaphthene	29.0		5.0	0.41
208-96-8	Acenaphthylene	30.0		5.0	0.38
98-86-2	Acetophenone	30.9		5.0	0.54
120-12-7	Anthracene	32.4		5.0	0.28
1912-24-9	Atrazine	73.5		5.0	0.46
100-52-7	Benzaldehyde	63.8		5.0	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730138/2-A

Matrix: Water | Lab File ID: Y04576.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 13:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	31.8		5.0	0.36
50-32-8	Benzo(a)pyrene	31.1		5.0	0.47
205-99-2	Benzo(b)fluoranthene	30.9		5.0	0.34
191-24-2	Benzo(g,h,i)perylene	32.1		5.0	0.35
207-08-9	Benzo(k)fluoranthene	30.4		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	28.1		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	29.8		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	38.1		5.0	2.2
85-68-7	Butyl benzyl phthalate	37.8		5.0	1.0
105-60-2	Caprolactam	23.5		5.0	2.2
86-74-8	Carbazole	30.7		5.0	0.30
218-01-9	Chrysene	31.2		5.0	0.33
84-74-2	Di-n-butyl phthalate	36.7		5.0	0.31
117-84-0	Di-n-octyl phthalate	37.3		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	31.8		5.0	0.42
132-64-9	Dibenzofuran	28.8		10	0.51
84-66-2	Diethyl phthalate	36.1		5.0	0.22
131-11-3	Dimethyl phthalate	32.4		5.0	0.36
206-44-0	Fluoranthene	32.1		5.0	0.40
86-73-7	Fluorene	29.1		5.0	0.36
118-74-1	Hexachlorobenzene	28.1		5.0	0.51
87-68-3	Hexachlorobutadiene	19.7		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	10.1		5.0	0.59
67-72-1	Hexachloroethane	25.1		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	32.2		5.0	0.47
78-59-1	Isophorone	31.7		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	32.0		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	30.4		5.0	0.51
91-20-3	Naphthalene	25.2		5.0	0.76
98-95-3	Nitrobenzene	31.0		5.0	0.29
87-86-5	Pentachlorophenol	52.6		10	2.2

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730138/2-A

Matrix: Water | Lab File ID: Y04576.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 13:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	31.8		5.0	0.44
108-95-2	Phenol	18.1		5.0	0.39
129-00-0	Pyrene	33.4		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	89		25-144
321-60-8	2-Fluorobiphenyl	85		53-126
367-12-4	2-Fluorophenol	67		24-120
4165-60-0	Nitrobenzene-d5	91		29-129
1718-51-0	p-Terphenyl-d14	93		33-132
4165-62-2	Phenol-d5	53		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04576.D
Lims ID: LCS 480-730138/2-A
Client ID:
Sample Type: LCS
Inject. Date: 29-Oct-2024 13:33:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-007
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 07:58:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.888	5.886	0.002	96	174253	4.00	4.00	
* 2 Naphthalene-d8	136	7.085	7.089	-0.004	99	656574	4.00	4.00	
* 3 Acenaphthene-d10	164	8.650	8.648	0.002	94	379955	4.00	4.00	
* 4 Phenanthrene-d10	188	9.925	9.929	-0.004	97	643789	4.00	4.00	
* 5 Chrysene-d12	240	12.776	12.774	0.002	99	555925	4.00	4.00	
* 6 Perylene-d12	264	14.465	14.463	0.002	97	607785	4.00	4.00	
$ 7 2-Fluorophenol	112	4.679	4.644	0.038	92	287224	8.00	5.35	
$ 8 Phenol-d5	99	5.532	5.527	0.008	90	281164	8.00	4.24	
$ 9 Nitrobenzene-d5	82	6.416	6.410	0.002	97	459822	8.00	7.28	
$ 10 2-Fluorobiphenyl	172	8.034	8.040	-0.004	99	891571	8.00	6.83	
$ 11 2,4,6-Tribromophenol	330	9.332	9.327	0.002	82	113676	8.00	7.10	
$ 12 p-Terphenyl-d14	244	11.484	11.484	0.002	97	1121730	8.00	7.44	
13 1,4-Dioxane	88	3.262	3.147	0.115	94	92182	8.00	4.28	a
14 N-Nitrosodimethylamine	42	3.546	3.546	0.073	76	240209	8.00	8.76	a
15 Pyridine	52	3.588	3.633	0.085	78	349585	16.0	11.4	a
35 Benzaldehyde	77	5.473	5.473	0.002	88	655090	16.0	16.0	
37 Phenol	94	5.544	5.538	0.008	94	305481	8.00	4.53	
36 Aniline	93	5.574	5.572	0.002	95	415357	8.00	5.05	
39 Bis(2-chloroethyl)ether	93	5.603	5.607	-0.004	87	410427	8.00	7.44	
41 n-Decane	57	5.692	5.693	0.002	95	333660	8.00	5.14	
40 2-Chlorophenol	128	5.704	5.696	0.008	95	371323	8.00	6.62	
43 1,3-Dichlorobenzene	146	5.841	5.841	0.002	94	370973	8.00	5.57	
44 1,4-Dichlorobenzene	146	5.906	5.906	0.002	89	387484	8.00	5.68	
45 Benzyl alcohol	108	6.012	6.013	0.001	86	237028	8.00	6.52	
46 1,2-Dichlorobenzene	146	6.054	6.058	-0.004	92	379268	8.00	5.93	
48 2-Methylphenol	108	6.113	6.111	0.002	92	351467	8.00	6.87	
49 2,2'-oxybis[1-chloropropane]	45	6.119	6.118	0.002	89	773568	8.00	9.09	
47 Indene	115	6.143	6.143	0.002	88	5333241	64.0	54.7	
53 N-Nitrosodi-n-propylamine	70	6.250	6.247	0.002	94	307440	8.00	8.00	
57 4-Methylphenol	108	6.255	6.314	0.001	95	373090	8.00	7.02	
52 Acetophenone	105	6.261	6.268	-0.004	82	572723	8.00	7.73	
58 Hexachloroethane	117	6.374	6.378	-0.004	92	162870	8.00	6.28	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Nitrobenzene	77	6.433	6.428	0.002	95	473246	8.00	7.75	
62 Isophorone	82	6.647	6.641	0.002	96	857850	8.00	7.92	
64 2-Nitrophenol	139	6.730	6.734	-0.004	94	216756	8.00	7.01	
66 2,4-Dimethylphenol	107	6.753	6.751	0.002	96	440997	8.00	7.71	
69 Bis(2-chloroethoxy)methane	93	6.819	6.823	-0.004	93	465051	8.00	7.03	
70 Benzoic acid	105	6.908	6.878	0.026	92	1153205	64.0	42.6	
72 2,4-Dichlorophenol	162	6.961	6.959	0.002	95	335164	8.00	6.75	
73 1,2,4-Trichlorobenzene	180	7.032	7.030	0.002	92	312750	8.00	5.62	
74 Naphthalene	128	7.109	7.113	0.002	98	1093847	8.00	6.31	
76 4-Chloroaniline	127	7.151	7.145	0.002	94	306116	8.00	4.62	
77 2,6-Dichlorophenol	162	7.162	7.160	0.002	92	334594	8.00	6.88	
79 Hexachlorobutadiene	225	7.204	7.208	-0.004	92	158900	8.00	4.92	
84 Caprolactam	113	7.471	7.462	0.008	69	104407	16.0	5.86	
85 4-Chloro-3-methylphenol	107	7.583	7.581	0.002	94	374757	8.00	7.93	
87 2-Methylnaphthalene	142	7.726	7.726	-0.004	91	680678	8.00	6.36	
89 1-Methylnaphthalene	142	7.820	7.818	0.002	91	703353	8.00	6.47	
90 Hexachlorocyclopentadiene	237	7.868	7.866	0.002	95	53569	8.00	2.51	
91 1,2,4,5-Tetrachlorobenzene	216	7.880	7.883	-0.004	97	309607	8.00	5.51	
93 2,4,6-Trichlorophenol	196	7.980	7.978	0.001	95	245469	8.00	7.06	
94 2,4,5-Trichlorophenol	196	8.022	8.026	-0.004	92	273511	8.00	7.43	
96 1,1'-Biphenyl	154	8.129	8.132	-0.004	97	925951	8.00	6.64	
97 2-Chloronaphthalene	162	8.164	8.162	0.002	97	736841	8.00	6.61	
100 2-Nitroaniline	65	8.247	8.245	0.002	77	302914	8.00	9.66	
105 Dimethyl phthalate	163	8.378	8.372	0.008	97	976899	8.00	8.10	
106 1,3-Dinitrobenzene	168	8.431	8.429	0.002	80	145194	8.00	7.70	
107 2,6-Dinitrotoluene	165	8.443	8.440	0.002	82	212822	8.00	7.57	
108 Acenaphthylene	152	8.532	8.532	0.002	98	1261398	8.00	7.50	
109 3-Nitroaniline	138	8.603	8.602	0.002	88	170228	8.00	5.93	
110 Acenaphthene	153	8.680	8.675	0.002	96	817258	8.00	7.25	
111 2,4-Dinitrophenol	184	8.698	8.699	0.002	79	188676	16.0	15.8	
112 4-Nitrophenol	109	8.751	8.748	0.002	96	248816	16.0	20.4	
114 2,4-Dinitrotoluene	165	8.798	8.796	0.001	86	288630	8.00	7.97	
115 Dibenzofuran	168	8.828	8.829	0.002	95	1098604	8.00	7.21	
118 2,3,4,6-Tetrachlorophenol	232	8.935	8.933	0.002	79	196698	8.00	7.58	
121 Hexadecane	57	8.953	8.953	0.002	88	605329	8.00	8.00	
120 Diethyl phthalate	149	8.970	8.968	0.002	96	1075444	8.00	9.02	
123 4-Chlorophenyl phenyl ether	204	9.095	9.092	0.002	96	418861	8.00	6.96	
124 Fluorene	166	9.119	9.125	-0.004	93	935428	8.00	7.28	
126 4-Nitroaniline	138	9.136	9.128	0.007	77	225066	8.00	7.37	
127 4,6-Dinitro-2-methylphenol	198	9.160	9.153	0.002	74	311432	16.0	16.5	
130 N-Nitrosodiphenylamine	169	9.196	9.188	0.002	67	677888	8.00	7.61	
129 Diphenylamine	169	9.196	9.188	0.002	91	677888	6.84	6.51	
131 1,2-Diphenylhydrazine	77	9.231	9.232	0.002	41	1178361	8.00	9.94	
132 Azobenzene	77	9.231	9.226	0.002	95	1178361	8.00	9.94	
139 4-Bromophenyl phenyl ether	248	9.510	9.508	-0.004	81	247700	8.00	6.82	
140 Hexachlorobenzene	284	9.605	9.597	0.002	91	275278	8.00	7.03	
143 Atrazine	200	9.628	9.620	0.008	89	569392	16.0	18.4	E
148 n-Octadecane	57	9.729	9.724	0.002	86	705149	8.00	8.97	
145 Pentachlorophenol	266	9.771	9.763	0.002	89	233342	16.0	13.1	
151 Phenanthrene	178	9.948	9.946	0.001	99	1414865	8.00	7.95	
152 Anthracene	178	9.990	10.001	0.002	99	1442275	8.00	8.10	
153 Carbazole	167	10.120	10.149	0.002	97	1215669	8.00	7.68	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
157 Di-n-butyl phthalate	149	10.357	10.352	0.001	99	1867828	8.00	9.18	
164 Fluoranthene	202	11.110	11.104	0.002	99	1515945	8.00	8.02	
166 Benzidine	184	11.211	11.215	-0.004	99	224243	8.00	2.10	
167 Pyrene	202	11.371	11.366	0.002	96	1556412	8.00	8.36	
174 Butyl benzyl phthalate	149	12.011	12.012	0.002	96	836399	8.00	9.45	
181 Bis(2-ethylhexyl) phthalate	149	12.669	12.670	0.002	95	1202134	8.00	9.51	
179 3,3'-Dichlorobenzidine	252	12.699	12.697	0.002	75	504098	8.00	5.68	
180 Benzo[a]anthracene	228	12.764	12.764	0.002	99	1511634	8.00	7.94	
182 Chrysene	228	12.812	12.809	0.002	97	1357452	8.00	7.80	
184 Di-n-octyl phthalate	149	13.422	13.423	0.002	98	1988243	8.00	9.32	
186 Benzo[b]fluoranthene	252	14.015	14.019	0.008	98	1500800	8.00	7.73	
187 Benzo[k]fluoranthene	252	14.045	14.037	0.007	99	1480982	8.00	7.60	
189 Benzo[a]pyrene	252	14.400	14.401	0.002	79	1346975	8.00	7.77	
194 Dibenz(a,h)anthracene	278	15.947	15.941	0.008	92	1366038	8.00	7.95	
193 Indeno[1,2,3-cd]pyrene	276	15.959	15.942	0.014	94	1712814	8.00	8.05	
195 Benzo[g,h,i]perylene	276	16.404	16.417	0.008	96	1341128	8.00	8.03	
S 263 3-Methylphenol	1				0		8.00	7.02	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

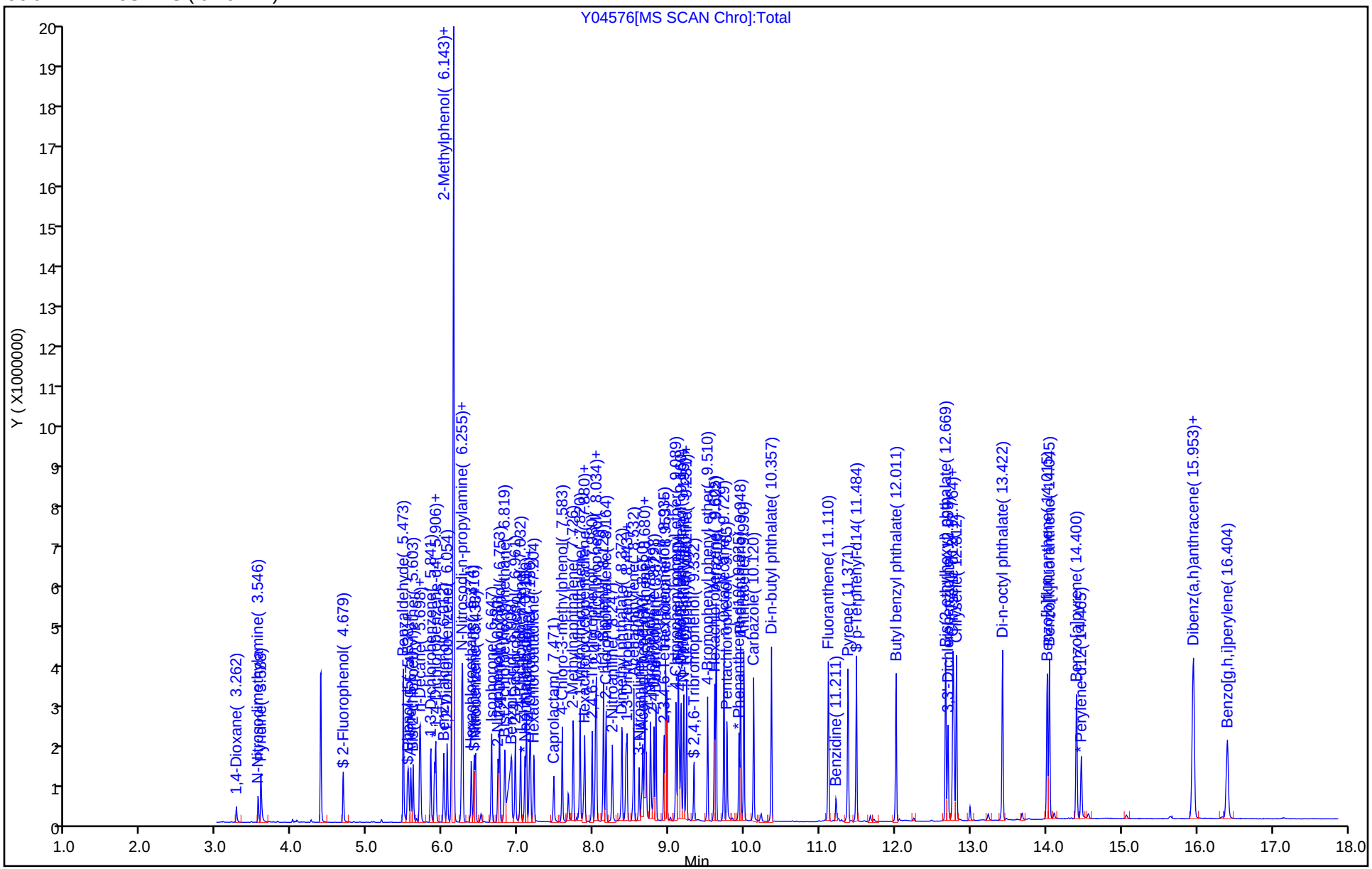
Report Date: 30-Oct-2024 15:16:26 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04576.D

Injection Date:	29-Oct-2024 13:33:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	LCS 480-730138/2-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04576.D
Lims ID: LCS 480-730138/2-A
Client ID:
Sample Type: LCS
Inject. Date: 29-Oct-2024 13:33:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-007
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 07:58:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.35	66.87
$ 8 Phenol-d5	8.00	4.24	52.98
$ 9 Nitrobenzene-d5	8.00	7.28	91.00
$ 10 2-Fluorobiphenyl	8.00	6.83	85.34
$ 11 2,4,6-Tribromophenol	8.00	7.10	88.75
$ 12 p-Terphenyl-d14	8.00	7.44	93.04

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: HP5973Y Start Date: 10/10/2024 14:20

Analysis Batch Number: 727763 End Date: 10/10/2024 22:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-727763/2		10/10/2024 14:20	1	Y04074.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/3		10/10/2024 14:47	1	Y04075.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/4		10/10/2024 15:14	1	Y04076.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/5		10/10/2024 15:42	1	Y04077.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/6		10/10/2024 16:10	1	Y04078.D	RXI-5Sil MS 0.25(mm)
ICIS 480-727763/7		10/10/2024 16:37	1	Y04079.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/8		10/10/2024 17:05	1	Y04080.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/9		10/10/2024 17:32	1	Y04081.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/10		10/10/2024 18:00	1	Y04082.D	RXI-5Sil MS 0.25(mm)
ICV 480-727763/11		10/10/2024 18:27	1	Y04083.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/12		10/10/2024 18:55	1		RXI-5Sil MS 0.25(mm)
IC 480-727763/13		10/10/2024 19:22	1		RXI-5Sil MS 0.25(mm)
IC 480-727763/14		10/10/2024 19:50	1		RXI-5Sil MS 0.25(mm)
IC 480-727763/15		10/10/2024 20:17	1		RXI-5Sil MS 0.25(mm)
IC 480-727763/16		10/10/2024 20:44	1		RXI-5Sil MS 0.25(mm)
IC 480-727763/17		10/10/2024 21:12	1		RXI-5Sil MS 0.25(mm)
IC 480-727763/18		10/10/2024 21:39	1		RXI-5Sil MS 0.25(mm)
ICV 480-727763/19		10/10/2024 22:07	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: HP5973Y Start Date: 10/29/2024 11:16

Analysis Batch Number: 730212 End Date: 10/29/2024 23:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-730212/2		10/29/2024 11:16	1	Y04571.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-730212/3		10/29/2024 11:44	1	Y04572.D	RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 12:38	400		RXI-5Sil MS 0.25(mm)
MB 480-730138/1-A		10/29/2024 13:06	1	Y04575.D	RXI-5Sil MS 0.25(mm)
LCS 480-730138/2-A		10/29/2024 13:33	1	Y04576.D	RXI-5Sil MS 0.25(mm)
ZZZZZ (QC)		10/29/2024 14:01	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (QC)		10/29/2024 14:28	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 14:56	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 15:23	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 15:50	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 16:18	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 16:45	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 17:12	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 17:40	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 18:07	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 18:34	1		RXI-5Sil MS 0.25(mm)
480-224869-1	MW-BCP-09A-10252024	10/29/2024 19:01	1	Y04588.D	RXI-5Sil MS 0.25(mm)
480-224869-3	MW-BCP-10A-10242024	10/29/2024 19:29	10	Y04589.D	RXI-5Sil MS 0.25(mm)
480-224869-5	MW-BCP-11A-10242024	10/29/2024 19:56	1	Y04590.D	RXI-5Sil MS 0.25(mm)
480-224869-7	MW-BCP-12A-10242024	10/29/2024 20:23	1	Y04591.D	RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 20:51	5		RXI-5Sil MS 0.25(mm)
480-224869-10	MW-BCP-13B-10252024	10/29/2024 21:18	5	Y04593.D	RXI-5Sil MS 0.25(mm)
480-224869-11	MW-BCP-24A-10252024	10/29/2024 21:45	1	Y04594.D	RXI-5Sil MS 0.25(mm)
480-224869-12	MW-BCP-25A-10252024	10/29/2024 22:13	1	Y04595.D	RXI-5Sil MS 0.25(mm)
480-224869-13	MW-BCP-19B-10252024	10/29/2024 22:40	1	Y04596.D	RXI-5Sil MS 0.25(mm)
480-224869-18	MW-BCP-21A-10252024	10/29/2024 23:07	1	Y04597.D	RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: HP5973Y Start Date: 10/30/2024 09:51

Analysis Batch Number: 730403 End Date: 10/30/2024 15:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-730403/2		10/30/2024 09:51	1	Y04601.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-730403/3		10/30/2024 10:18	1	Y04602.D	RXI-5Sil MS 0.25(mm)
480-224869-3 DL	MW-BCP-10A-10242024 DL	10/30/2024 11:12	100	Y04604.D	RXI-5Sil MS 0.25(mm)
480-224869-9	MW-BCP-13A-10252024	10/30/2024 11:40	500	Y04605.D	RXI-5Sil MS 0.25(mm)
480-224869-13 DL	MW-BCP-19B-10252024 DL	10/30/2024 12:07	5	Y04606.D	RXI-5Sil MS 0.25(mm)
480-224869-19	MW-BCP-19A-10252024	10/30/2024 12:34	300	Y04607.D	RXI-5Sil MS 0.25(mm)
ZZZZZ (QC)		10/30/2024 13:02	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (QC)		10/30/2024 13:29	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (QC)		10/30/2024 13:57	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/30/2024 14:24	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/30/2024 14:52	100		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/30/2024 15:19	100		RXI-5Sil MS 0.25(mm)
480-224869-10 DL	MW-BCP-13B-10252024 DL	10/30/2024 15:46	500	Y04614.D	RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 727763 Batch Start Date: 10/10/24 14:20 Batch Analyst: Marshall, Joseph M

Batch Method: 8270D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	CalcMsg	MB_DFTPP_WRK 00443	MB_L1LVI_WRK 00642	MB_L1LVI_WRK 00643	MB_L1LVI_WRK 00644
DFTPP 480-727763/2		8270D			1 mL	Perform Calculation left blank	1 mL			
IC 480-727763/3		8270D			1 mL	Perform Calculation left blank		1 mL		
IC 480-727763/4		8270D			1 mL	Perform Calculation left blank			1 mL	
IC 480-727763/5		8270D			1 mL	Perform Calculation left blank				1 mL
IC 480-727763/6		8270D			1 mL	Perform Calculation left blank				
ICIS 480-727763/7		8270D			1 mL	Perform Calculation left blank				
IC 480-727763/8		8270D			1 mL	Perform Calculation left blank				
IC 480-727763/9		8270D			1 mL	Perform Calculation left blank				
IC 480-727763/10		8270D			1 mL	Perform Calculation left blank				
ICV 480-727763/11		8270D			1 mL	Perform Calculation left blank				

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MB_L1LVI_WRK 00645	MB_L1LVI_WRK 00646	MB_L1LVI_WRK 00647	MB_L1LVI_WRK 00648	MB_L1LVI_WRK 00649	MB_L1SSLV_WRK 00055
DFTPP 480-727763/2		8270D								
IC 480-727763/3		8270D								
IC 480-727763/4		8270D								
IC 480-727763/5		8270D								
IC 480-727763/6		8270D			1 mL					

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 727763 Batch Start Date: 10/10/24 14:20 Batch Analyst: Marshall, Joseph M

Batch Method: 8270D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MB_L1LVI_WRK 00645	MB_L1LVI_WRK 00646	MB_L1LVI_WRK 00647	MB_L1LVI_WRK 00648	MB_L1LVI_WRK 00649	MB_L1SSLV_WRK 00055
ICIS 480-727763/7		8270D				1 mL				
IC 480-727763/8		8270D					1 mL			
IC 480-727763/9		8270D						1 mL		
IC 480-727763/10		8270D							1 mL	
ICV 480-727763/11		8270D								1 mL

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730138 Batch Start Date: 10/28/24 14:16 Batch Analyst: Capelli, Lane S

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	O_8270LL LCS 00159
MB 480-730138/1		3510C, 8270D			250 mL	1 mL	5 SU	<2 SU	>11 SU	
LCS 480-730138/2		3510C, 8270D			250 mL	1 mL	5 SU	<2 SU	>11 SU	1 mL
480-224869-B-1	MW-BCP-09A-1025 2024	3510C, 8270D	Water	T	240 mL	1 mL	7 SU	<2 SU	>11 SU	
480-224869-B-3	MW-BCP-10A-1024 2024	3510C, 8270D	Water	T	50 mL	1 mL	9 SU	<2 SU	>11 SU	
480-224869-B-5	MW-BCP-11A-1024 2024	3510C, 8270D	Water	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-224869-B-7	MW-BCP-12A-1024 2024	3510C, 8270D	Water	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-224869-B-9	MW-BCP-13A-1025 2024	3510C, 8270D	Water	T	250 mL	1 mL	8 SU	<2 SU	>11 SU	
480-224869-A-10	MW-BCP-13B-1025 2024	3510C, 8270D	Water	T	250 mL	1 mL	8 SU	<2 SU	>11 SU	
480-224869-A-11	MW-BCP-24A-1025 2024	3510C, 8270D	Water	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-224869-A-12	MW-BCP-25A-1025 2024	3510C, 8270D	Water	T	240 mL	1 mL	8 SU	<2 SU	>11 SU	
480-224869-A-13	MW-BCP-19B-1025 2024	3510C, 8270D	Water	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-224869-A-18	MW-BCP-21A-1025 2024	3510C, 8270D	Water	T	240 mL	1 mL	8 SU	<2 SU	>11 SU	
480-224869-B-19	MW-BCP-19A-1025 2024	3510C, 8270D	Water	T	250 mL	1 mL	8 SU	<2 SU	>11 SU	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O_8270LLsurr 00103	AnalysisComment				
MB 480-730138/1		3510C, 8270D			1 mL					
LCS 480-730138/2		3510C, 8270D			1 mL					
480-224869-B-1	MW-BCP-09A-1025 2024	3510C, 8270D	Water	T	1 mL					
480-224869-B-3	MW-BCP-10A-1024 2024	3510C, 8270D	Water	T	1 mL	Contains some oil				
480-224869-B-5	MW-BCP-11A-1024 2024	3510C, 8270D	Water	T	1 mL					
480-224869-B-7	MW-BCP-12A-1024 2024	3510C, 8270D	Water	T	1 mL					

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730138 Batch Start Date: 10/28/24 14:16 Batch Analyst: Capelli, Lane S

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O_8270LLsurr 00103	AnalysisComment				
480-224869-B-9	MW-BCP-13A-1025 2024	3510C, 8270D	Water	T	1 mL	Contains some sediment, cloudy				
480-224869-A-10	MW-BCP-13B-1025 2024	3510C, 8270D	Water	T	1 mL	Contains some sediment, cloudy				
480-224869-A-11	MW-BCP-24A-1025 2024	3510C, 8270D	Water	T	1 mL	Contains some sediment, cloudy				
480-224869-A-12	MW-BCP-25A-1025 2024	3510C, 8270D	Water	T	1 mL					
480-224869-A-13	MW-BCP-19B-1025 2024	3510C, 8270D	Water	T	1 mL					
480-224869-A-18	MW-BCP-21A-1025 2024	3510C, 8270D	Water	T	1 mL					
480-224869-B-19	MW-BCP-19A-1025 2024	3510C, 8270D	Water	T	1 mL					

Batch Notes	
Method/Fraction	3510C_LVI/8270D
Balance is Level? (Y/N)	no
pH Indicator ID	HC450408
Analyst ID - Extraction	LC
Analyst ID - Spike Analyst	LC
Analyst ID - Spike Witness Analyst	LC
Sufficient Volume for Batch QC	Yes
Acid Used for pH Adjustment ID	8060001
Base Used to Adjust pH ID	8122087
Prep Solvent ID	8128955
Prep Solvent Volume Used	120 mL
Glass Wool ID	34021999
Na2SO4 ID	8038697
Analyst ID - Concentration	LC
Vial Lot Number	26083064

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730138 Batch Start Date: 10/28/24 14:16 Batch Analyst: Capelli, Lane S

Batch Method: 3510C 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.

METALS

COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG No.:

Project: Ammonia SCO

Client Sample ID	Lab Sample ID
MW-BCP-09A-10252024	480-224869-1
MW-BCP-10A-10242024	480-224869-3
MW-BCP-11A-10242024	480-224869-5
MW-BCP-12A-10242024	480-224869-7
MW-BCP-13A-10252024	480-224869-9
MW-BCP-13B-10252024	480-224869-10
MW-BCP-24A-10252024	480-224869-11
MW-BCP-25A-10252024	480-224869-12
MW-BCP-19B-10252024	480-224869-13
MW-BCP-22A-10252024	480-224869-14
MW-BCP-25B-10252024	480-224869-15
MW-BCP-23A-10252024	480-224869-16
MW-BCP-24B-10252024	480-224869-17
MW-BCP-21A-10252024	480-224869-18
MW-BCP-19A-10252024	480-224869-19
MW-BCP-27A-10252024	480-224869-25

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-09A-10252024 Lab Sample ID: 480-224869-1

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 16:30

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00020	0.000042	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-10A-10242024 Lab Sample ID: 480-224869-3

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 10:40

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00016	0.00060	0.00013	mg/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-11A-10242024 Lab Sample ID: 480-224869-5

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 11:35

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00040	0.000084	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-12A-10242024 Lab Sample ID: 480-224869-7

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 03:15

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00043	0.00020	0.000042	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-13A-10252024 Lab Sample ID: 480-224869-9

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 08:50

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00060	0.00013	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-13B-10252024 Lab Sample ID: 480-224869-10

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 09:10

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00099	0.00040	0.000084	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-24A-10252024 Lab Sample ID: 480-224869-11

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 09:35

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00061	0.00040	0.000084	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-25A-10252024 Lab Sample ID: 480-224869-12

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 02:05

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.000050	0.00020	0.000042	mg/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-19B-10252024 Lab Sample ID: 480-224869-13

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 09:55

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00018	0.00040	0.000084	mg/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-22A-10252024
Lab Sample ID: 480-224869-14
Lab Name: Eurofins Buffalo
Job No.: 480-224869-1
SDG ID.:
Matrix: Water
Date Sampled: 10/25/2024 11:30
Reporting Basis: WET
Date Received: 10/25/2024 16:30
Preparation Batch Number: 730387
Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.000053	0.00020	0.000042	mg/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-25B-10252024 Lab Sample ID: 480-224869-15

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 02:15

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00040	0.000084	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-23A-10252024 Lab Sample ID: 480-224869-16

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 11:45

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.000062	0.00020	0.000042	mg/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-24B-10252024 Lab Sample ID: 480-224869-17

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 01:20

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00016	0.00060	0.00013	mg/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-21A-10252024 Lab Sample ID: 480-224869-18

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 11:00

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00020	0.000042	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-19A-10252024 Lab Sample ID: 480-224869-19

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 09:40

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00040	0.000084	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-27A-10252024 Lab Sample ID: 480-224869-25

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 02:30

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.0015	0.00020	0.000042	mg/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

ICV Source: MEH_HG1_WKG_03485 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_03485

Analyte	ICV 480-730556/7 10/30/2024 13:27				ICVL 480-730556/9 10/30/2024 13:29				CCVL 480-730556/48 10/30/2024 14:24			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00304		0.00301	101	0.000193	J	0.000201	96	0.000188	J	0.000201	94

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

ICV Source: MEH_HG1_WKG_03485 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_03485

Analyte	CCV 480-730556/59 10/30/2024 14:47				CCV 480-730556/71 10/30/2024 15:03				CCV 480-730556/83 10/30/2024 15:19			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00196		0.00201	98	0.00194		0.00201	97	0.00193		0.00201	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

ICV Source: MEH_HG1_WKG_03485 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_03485

Analyte	CCVL 480-730556/85 10/30/2024 15:21				CCV 480-730556/96 10/30/2024 15:35				CCVL 480-730556/122 10/30/2024 16:12			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.000182	J	0.000201	91	0.00191		0.00201	95	0.000181	J	0.000201	90

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-730556/8 10/30/2024 13:28		CCB 480-730556/60 10/30/2024 14:49		CCB 480-730556/72 10/30/2024 15:04		CCB 480-730556/84 10/30/2024 15:20	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-730556/97 10/30/2024 15:37							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND							

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-730387/1-A

Instrument Code: LEEMAN4 Batch No.: 730556

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-BCP-23A-10252024 MS Lab ID: 480-224869-16 MS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Concentration Units: mg/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.00614		0.000062	J	0.00669	91	80-120		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MW-BCP-23A-10252024 MSD Lab ID: 480-224869-16 MSD

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Concentration Units: mg/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.00628		0.00669	93	80-120	2	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-730387/2-A

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_03485

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00669	0.00605		90	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-224869-16

SDG No:

Lab Name: Eurofins Buffalo Job No: 480-224869-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.000062	J	ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN4

Method: 7470A MDL Date: 03/26/2024 14:50

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.000042

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN4

Method: 7470A XMDL Date: 03/26/2024 14:50

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.000042

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Buffalo Job No: 480-224869-1

SDG No.:

Instrument ID: LEEMAN4 Date: 03/21/2024 14:36

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	30	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-730387/1-A	10/30/2024 12:00	730387		30	50
LCS 480-730387/2-A	10/30/2024 12:00	730387		30	50
480-224869-1	10/30/2024 12:00	730387		30	50
480-224869-3	10/30/2024 12:00	730387		10	50
480-224869-5	10/30/2024 12:00	730387		15	50
480-224869-7	10/30/2024 12:00	730387		30	50
480-224869-9	10/30/2024 12:00	730387		10	50
480-224869-10	10/30/2024 12:00	730387		15	50
480-224869-11	10/30/2024 12:00	730387		15	50
480-224869-12	10/30/2024 12:00	730387		30	50
480-224869-13	10/30/2024 12:00	730387		15	50
480-224869-14	10/30/2024 12:00	730387		30	50
480-224869-15	10/30/2024 12:00	730387		15	50
480-224869-16	10/30/2024 12:00	730387		30	50
480-224869-16 MS	10/30/2024 12:00	730387		30	50
480-224869-16 MSD	10/30/2024 12:00	730387		30	50
480-224869-17	10/30/2024 12:00	730387		10	50
480-224869-18	10/30/2024 12:00	730387		30	50
480-224869-19	10/30/2024 12:00	730387		15	50
480-224869-25	10/30/2024 12:00	730387		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: LEEMAN4 Method: 7470A

Start Date: 10/30/2024 13:19 End Date: 10/30/2024 16:42

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
IC 480-730545/1-A			13:19	X																			
IC 480-730545/2-A			13:20	X																			
IC 480-730545/3-A			13:21	X																			
IC 480-730545/4-A			13:23	X																			
IC 480-730545/5-A			13:24	X																			
IC 480-730545/6-A			13:25	X																			
ICV 480-730556/7	1		13:27	X																			
ICB 480-730556/8	1		13:28	X																			
ICVL 480-730556/9	1		13:29	X																			
CCV 480-730556/10			13:31																				
CCB 480-730556/11			13:32																				
ZZZZZZ (QC)			13:37																				
ZZZZZZ (QC)			13:38																				
ZZZZZZ (Client)			13:39																				
ZZZZZZ (QC)			13:41																				
ZZZZZZ (QC)			13:42																				
ZZZZZZ (QC)			13:43																				
ZZZZZZ (Client)			13:45																				
ZZZZZZ (Client)			13:46																				
ZZZZZZ (Client)			13:47																				
ZZZZZZ (Client)			13:48																				
CCV 480-730556/22			13:50																				
CCB 480-730556/23			13:51																				
ZZZZZZ (Client)			13:52																				
ZZZZZZ (Client)			13:54																				
ZZZZZZ (Client)			13:55																				
ZZZZZZ (Client)			13:56																				
ZZZZZZ (Client)			13:58																				
ZZZZZZ (Client)			13:59																				
ZZZZZZ (Client)			14:00																				
ZZZZZZ (Client)			14:01																				
ZZZZZZ (Client)			14:03																				
ZZZZZZ (Client)			14:04																				
CCV 480-730556/34			14:05																				
CCB 480-730556/35			14:07																				
ZZZZZZ (Client)			14:08																				
ZZZZZZ (Client)			14:09																				
ZZZZZZ (Client)			14:11																				
ZZZZZZ (Client)			14:12																				
ZZZZZZ (Client)			14:13																				
ZZZZZZ (QC)			14:14																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: LEEMAN4 Method: 7470A

Start Date: 10/30/2024 13:19 End Date: 10/30/2024 16:42

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ (QC)			14:16																				
ZZZZZZ (Client)			14:17																				
ZZZZZZ (Client)			14:18																				
ZZZZZZ (Client)			14:20																				
CCV 480-730556/46			14:21																				
CCB 480-730556/47			14:22																				
CCVL 480-730556/48	1		14:24	X																			
ZZZZZZ (QC)			14:25																				
ZZZZZZ (QC)			14:26																				
ZZZZZZ (QC)			14:28																				
ZZZZZZ (Client)			14:38																				
ZZZZZZ (Client)			14:39																				
ZZZZZZ (Client)			14:41																				
ZZZZZZ (Client)			14:42																				
ZZZZZZ (Client)			14:43																				
ZZZZZZ (Client)			14:45																				
ZZZZZZ (Client)			14:46																				
CCV 480-730556/59	1		14:47	X																			
CCB 480-730556/60	1		14:49	X																			
ZZZZZZ (Client)			14:50																				
ZZZZZZ (Client)			14:51																				
ZZZZZZ (Client)			14:52																				
ZZZZZZ (Client)			14:54																				
ZZZZZZ (Client)			14:55																				
MB 480-730387/1-A	1	T	14:56	X																			
LCS 480-730387/2-A	1	T	14:58	X																			
480-224869-1	1	T	14:59	X																			
480-224869-3	1	T	15:00	X																			
480-224869-5	1	T	15:02	X																			
CCV 480-730556/71	1		15:03	X																			
CCB 480-730556/72	1		15:04	X																			
480-224869-7	1	T	15:05	X																			
480-224869-9	1	T	15:07	X																			
480-224869-10	1	T	15:08	X																			
480-224869-11	1	T	15:09	X																			
480-224869-12	1	T	15:11	X																			
480-224869-13	1	T	15:12	X																			
480-224869-14	1	T	15:13	X																			
480-224869-15	1	T	15:15	X																			
480-224869-16	1	T	15:16	X																			
480-224869-16 SD	5	T	15:17	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: LEEMAN4 Method: 7470A

Start Date: 10/30/2024 13:19 End Date: 10/30/2024 16:42

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
CCV 480-730556/83	1		15:19	X																			
CCB 480-730556/84	1		15:20	X																			
CCVL 480-730556/85	1		15:21	X																			
480-224869-16 MS	1	T	15:22	X																			
480-224869-16 MSD	1	T	15:24	X																			
480-224869-17	1	T	15:25	X																			
480-224869-18	1	T	15:26	X																			
480-224869-19	1	T	15:28	X																			
480-224869-25	1	T	15:29	X																			
ZZZZZZ (Client)			15:30																				
ZZZZZZ (Client)			15:32																				
ZZZZZZ (Client)			15:33																				
ZZZZZZ (Client)			15:34																				
CCV 480-730556/96	1		15:35	X																			
CCB 480-730556/97	1		15:37	X																			
ZZZZZZ (QC)			15:40																				
ZZZZZZ (QC)			15:42																				
ZZZZZZ (QC)			15:43																				
ZZZZZZ (Client)			15:44																				
ZZZZZZ (Client)			15:46																				
ZZZZZZ (Client)			15:47																				
ZZZZZZ (QC)			15:48																				
ZZZZZZ (QC)			15:50																				
ZZZZZZ (QC)			15:51																				
ZZZZZZ (Client)			15:52																				
CCV 480-730556/108			15:54																				
CCB 480-730556/109			15:55																				
ZZZZZZ (Client)			15:56																				
ZZZZZZ (Client)			15:58																				
ZZZZZZ (Client)			15:59																				
ZZZZZZ (Client)			16:00																				
ZZZZZZ (Client)			16:01																				
ZZZZZZ (Client)			16:03																				
ZZZZZZ (QC)			16:04																				
ZZZZZZ (QC)			16:05																				
ZZZZZZ (QC)			16:07																				
ZZZZZZ (Client)			16:08																				
CCV 480-730556/120			16:09																				
CCB 480-730556/121			16:11																				
CCVL 480-730556/122	1		16:12	X																			
ZZZZZZ (QC)			16:13																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: LEEMAN4 Method: 7470A

Start Date: 10/30/2024 13:19 End Date: 10/30/2024 16:42

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ (QC)			16:15																				
ZZZZZZ (QC)			16:16																				
ZZZZZZ (QC)			16:17																				
ZZZZZZ (QC)			16:19																				
ZZZZZZ (QC)			16:20																				
ZZZZZZ (Client)			16:21																				
ZZZZZZ (QC)			16:23																				
ZZZZZZ (QC)			16:24																				
ZZZZZZ (QC)			16:25																				
CCV 480-730556/133			16:27																				
CCB 480-730556/134			16:28																				
ZZZZZZ (Client)			16:29																				
ZZZZZZ (Client)			16:31																				
CCV 480-730556/137			16:34																				
CCB 480-730556/138			16:35																				
CCVL 480-730556/139			16:37																				
ZZZZZZ (QC)			16:38																				
CCV 480-730556/141			16:39																				
CCB 480-730556/142			16:41																				
CCVL 480-730556/143			16:42																				

Prep Types
T = Total/NA

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG4

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\K20241030A.wszf

Creation Date: 10/30/2024 1:17:33 PM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank	STD	10/30/24 01:19:21 pm	0.000	6	758.31	-2.24		1.0000	N/A
Replicates	-13.4	-47.0	22.8	62.5					
Standard #1	STD	10/30/24 01:20:39 pm	0.100	702	4.16	-5.47		1.0000	N/A
Replicates	674.3	681.4	735.4	718.1					
Standard #2	STD	10/30/24 01:21:57 pm	0.500	3731	2.84	15.59		1.0000	N/A
Replicates	3603.6	3693.2	3779.0	3847.7					
Standard #3	STD	10/30/24 01:23:16 pm	2.000	14690	3.18	39.25		1.0000	N/A
Replicates	14187.3	14437.8	14907.0	15228.5					
Standard #4	STD	10/30/24 01:24:34 pm	10.000	72388	2.94	60.90		1.0000	N/A
Replicates	69843.6	71612.4	73332.6	74763.9					
Standard #5	STD	10/30/24 01:25:54 pm	20.000	143146	2.79	-101.68		1.0000	N/A
Replicates	138539.0	141440.4	144923.7	147682.2					
ICV	ICV	10/30/24 01:27:13 pm	3.038	21873	3.16			1.0000	101.26
Replicates	21052.1	21643.6	22122.9	22672.1					
ICB	ICB	10/30/24 01:28:31 pm	-0.003	2	30.42			1.0000	N/A
Replicates	5.3	9.5	-1.3	-3.8					
ICVL	CRDL	10/30/24 01:29:51 pm	0.193	1407	6.01			1.0000	96.28
Replicates	1313.6	1384.3	1417.8	1514.0					
CCV	CCV	10/30/24 01:31:10 pm	2.031	14631	3.33			1.0000	101.55
Replicates	14092.8	14411.6	14805.6	15214.8					
CCB	CCB	10/30/24 01:32:28 pm	-0.005	-16	86.20			1.0000	N/A
Replicates	-50.3	20.9	-35.6	1.9					
MB 480-730160/1-A	UNK	10/30/24 01:37:16 pm	-0.004	-21	174.50			1.0000	N/A
Replicates	24.8	-73.2	-50.7	13.8					
LCS 480-730160/2-A	UNK	10/30/24 01:38:33 pm	3.797	27252	3.39			1.0000	N/A
Replicates	26220.0	26884.9	27514.2	28389.7					

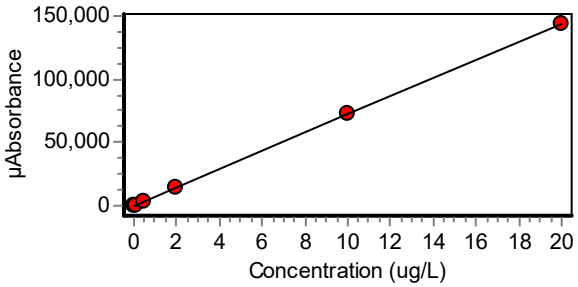
Calibration

Equation: Abs = 7192.767x + 22.347

R2: 0.99995

SEE: 453.0173

Flags:



Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-224823-C-1-G				UNK	10/30/24 01:39:51 pm	-0.008	-49	35.69			1.0000	N/A
Replicates	-75.7	-49.2	-37.5	-31.7								
480-224823-C-1-Gsd@5				UNK	10/30/24 01:41:08 pm	0.013	97	40.08			1.0000	N/A
Replicates	65.5	77.1	147.6	96.8								
480-224823-C-1-H MS				UNK	10/30/24 01:42:26 pm	3.857	27681	3.60			1.0000	N/A
Replicates	26547.4	27279.5	28030.7	28868.2								
480-224823-C-1-I MSD				UNK	10/30/24 01:43:44 pm	3.770	27054	3.44			1.0000	N/A
Replicates	26009.0	26652.0	27396.0	28159.0								
480-224823-C-2-C				UNK	10/30/24 01:45:02 pm	-0.006	-35	16.91			1.0000	N/A
Replicates	-35.4	-35.1	-27.1	-44.4								
480-224823-C-3-C				UNK	10/30/24 01:46:20 pm	0.002	23	157.53			1.0000	N/A
Replicates	58.1	11.8	25.5	-3.7								
480-224823-C-4-C				UNK	10/30/24 01:47:38 pm	-0.001	-4	186.34			1.0000	N/A
Replicates	8.0	-8.4	-28.1	13.4								
480-224823-C-5-C				UNK	10/30/24 01:48:57 pm	0.004	33	92.09			1.0000	N/A
Replicates	59.7	25.9	43.2	2.4								
CCV				CCV	10/30/24 01:50:17 pm	1.987	14265	3.82			1.0000	99.37
Replicates	13638.3	14061.6	14441.9	14917.6								
CCB				CCB	10/30/24 01:51:34 pm	0.000	6	687.46			1.0000	N/A
Replicates	19.0	13.4	-35.6	28.9								
480-224823-C-6-C				UNK	10/30/24 01:52:53 pm	-0.001	-1	475.33			1.0000	N/A
Replicates	-37.6	39.6	7.6	-12.1								
480-224823-C-7-C				UNK	10/30/24 01:54:11 pm	-0.006	-37	90.99			1.0000	N/A
Replicates	-13.4	-29.2	-10.2	-94.0								
480-224823-C-8-C				UNK	10/30/24 01:55:28 pm	0.002	23	73.62			1.0000	N/A
Replicates	16.5	9.0	30.0	35.8								
480-224823-C-10-C				UNK	10/30/24 01:56:46 pm	0.004	37	138.01			1.0000	N/A
Replicates	73.2	71.3	-9.2	11.3								
480-224823-C-11-C				UNK	10/30/24 01:58:03 pm	0.002	19	230.78			1.0000	N/A
Replicates	-21.4	46.6	34.8	16.3								
480-224823-C-12-C				UNK	10/30/24 01:59:21 pm	0.003	29	70.29			1.0000	N/A
Replicates	35.9	21.3	11.3	47.8								
480-224823-C-13-C				UNK	10/30/24 02:00:38 pm	0.003	26	164.57			1.0000	N/A
Replicates	-2.9	-1.3	59.9	49.4								
480-224823-C-14-C				UNK	10/30/24 02:01:56 pm	0.006	49	52.71			1.0000	N/A
Replicates	60.0	71.5	18.5	47.8								
480-224823-C-15-C				UNK	10/30/24 02:03:14 pm	0.004	35	73.33			1.0000	N/A
Replicates	18.3	15.3	54.5	52.3								

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-224823-C-16-C				UNK	10/30/24 02:04:32 pm	-0.005	-28	25.27			1.0000	N/A
Replicates	-20.6	-20.5	-34.8	-36.3								
CCV				CCV	10/30/24 02:05:52 pm	1.998	14343	3.74			1.0000	99.91
Replicates	13729.9	14151.1	14495.3	14997.1								
CCB				CCB	10/30/24 02:07:10 pm	-0.006	-37	27.20			1.0000	N/A
Replicates	-53.2	-37.6	-25.6	-32.1								
480-224823-C-17-C				UNK	10/30/24 02:08:28 pm	0.000	8	255.98			1.0000	N/A
Replicates	37.4	4.9	8.4	-18.6								
480-224823-C-18-C				UNK	10/30/24 02:09:46 pm	-0.005	-29	60.32			1.0000	N/A
Replicates	-56.2	-4.4	-29.9	-25.7								
480-224823-C-19-C				UNK	10/30/24 02:11:05 pm	-0.007	-41	67.38			1.0000	N/A
Replicates	-67.0	3.3	-39.0	-59.5								
480-224823-C-20-C				UNK	10/30/24 02:12:23 pm	-0.002	-8	339.81			1.0000	N/A
Replicates	7.5	-52.2	-42.2	54.1								
480-224823-C-21-C				UNK	10/30/24 02:13:41 pm	-0.002	-5	98.03			1.0000	N/A
Replicates	-6.4	-4.6	-19.4	8.6								
MB 480-730386/1-A				UNK	10/30/24 02:14:58 pm	0.001	13	385.66			1.0000	N/A
Replicates	35.2	-19.2	31.8	3.6								
LCS 480-730386/2-A				UNK	10/30/24 02:16:16 pm	3.701	26562	3.48			1.0000	N/A
Replicates	25513.1	26268.7	26748.4	27718.4								
480-224823-C-22-E				UNK	10/30/24 02:17:33 pm	-0.005	-26	52.13			1.0000	N/A
Replicates	-32.8	-30.2	-40.2	-1.7								
480-224823-C-23-C				UNK	10/30/24 02:18:51 pm	0.001	14	418.65			1.0000	N/A
Replicates	47.7	21.2	12.2	-26.8								
480-224823-C-24-C				UNK	10/30/24 02:20:09 pm	-0.002	-8	235.19			1.0000	N/A
Replicates	22.8	12.2	-52.1	-14.8								
CCV				CCV	10/30/24 02:21:28 pm	1.985	14247	3.47			1.0000	99.24
Replicates	13714.0	14061.8	14325.8	14884.8								
CCB				CCB	10/30/24 02:22:46 pm	-0.003	-17	123.79			1.0000	N/A
Replicates	-12.2	-28.6	-46.9	20.4								
CCVL				CRDL	10/30/24 02:24:06 pm	0.188	1356	4.54			1.0000	94.10
Replicates	1300.0	1310.4	1388.4	1426.9								
480-224823-C-24-Csd@5				UNK	10/30/24 02:25:24 pm	0.007	59	51.17			1.0000	N/A
Replicates	53.1	86.8	24.3	73.8								
480-224823-C-24-D MS				UNK	10/30/24 02:26:42 pm	3.701	26563	3.65			1.0000	N/A
Replicates	25392.2	26348.2	26783.4	27726.7								
480-224823-C-24-E MSD				UNK	10/30/24 02:28:00 pm	3.655	26231	3.72			1.0000	N/A
Replicates	25113.7	25925.5	26437.0	27446.7								

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-224823-C-25-C		UNK	10/30/24 02:38:38 pm	-0.001	0	769.16			1.0000	N/A
Replicates	-31.0	8.8	61.6	-38.4						
480-224823-C-26-C		UNK	10/30/24 02:39:57 pm	-0.003	-15	148.12			1.0000	N/A
Replicates	28.4	-38.9	-34.7	-13.2						
480-224823-C-27-C		UNK	10/30/24 02:41:15 pm	0.001	15	323.70			1.0000	N/A
Replicates	27.7	-25.5	39.2	18.5						
480-224795-C-2-C		UNK	10/30/24 02:42:33 pm	0.000	6	201.12			1.0000	N/A
Replicates	60.1	-41.8	12.7	-5.1						
480-224795-C-3-C		UNK	10/30/24 02:43:51 pm	0.001	13	305.71			1.0000	N/A
Replicates	44.8	-1.0	12.3	-2.5						
480-224795-C-4-C		UNK	10/30/24 02:45:08 pm	0.008	62	22.32			1.0000	N/A
Replicates	60.2	71.1	44.6	70.4						
480-224848-D-1-C		UNK	10/30/24 02:46:26 pm	0.003	30	92.84			1.0000	N/A
Replicates	21.6	24.5	62.0	11.8						
CCV		CCV	10/30/24 02:47:45 pm	1.963	14089	3.77			1.0000	98.14
Replicates	13484.9	13915.9	14200.9	14752.4						
CCB		CCB	10/30/24 02:49:03 pm	-0.005	-30	43.91			1.0000	N/A
Replicates	-26.0	-50.2	-12.2	-29.7						
480-224848-D-2-C		UNK	10/30/24 02:50:21 pm	0.005	39	44.33			1.0000	N/A
Replicates	24.3	41.8	31.8	57.8						
480-224848-D-3-C		UNK	10/30/24 02:51:38 pm	0.003	28	130.66			1.0000	N/A
Replicates	3.3	5.6	60.9	40.9						
480-224850-C-1-E		UNK	10/30/24 02:52:56 pm	0.007	54	68.28			1.0000	N/A
Replicates	83.7	62.7	63.7	7.2						
480-224850-C-4-E		UNK	10/30/24 02:54:14 pm	0.005	40	96.24			1.0000	N/A
Replicates	31.8	70.4	-2.1	58.2						
480-224850-C-5-C		UNK	10/30/24 02:55:33 pm	0.007	58	60.11			1.0000	N/A
Replicates	52.2	38.7	102.7	36.7						
MB 480-730387/1-A		UNK	10/30/24 02:56:51 pm	-0.007	-42	45.94			1.0000	N/A
Replicates	-70.7	-28.3	-48.0	-21.3						
LCS 480-730387/2-A		UNK	10/30/24 02:58:10 pm	3.632	26068	3.58			1.0000	N/A
Replicates	25056.6	25734.1	26202.8	27278.3						
480-224869-D-1-A		UNK	10/30/24 02:59:28 pm	0.011	86	42.86			1.0000	N/A
Replicates	131.3	83.5	78.2	49.2						
480-224869-D-3-A		UNK	10/30/24 03:00:46 pm	0.032	237	19.84			1.0000	N/A
Replicates	256.0	178.0	227.7	285.5						
480-224869-D-5-A		UNK	10/30/24 03:02:04 pm	0.019	146	13.35			1.0000	N/A
Replicates	129.4	171.9	136.2	146.7						

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCV				CCV	10/30/24 03:03:23 pm	1.943	13945	3.97			1.0000	97.14
	Replicates	13306.0	13768.7	14081.7	14624.2							
CCB				CCB	10/30/24 03:04:40 pm	-0.003	-14	132.22			1.0000	N/A
	Replicates	-31.9	20.1	-5.9	-38.4							
480-224869-D-7-A				UNK	10/30/24 03:05:58 pm	0.257	1847	4.35			1.0000	N/A
	Replicates	1758.5	1809.6	1875.4	1942.6							
480-224869-D-9-A				UNK	10/30/24 03:07:16 pm	0.003	26	194.46			1.0000	N/A
	Replicates	18.5	-22.5	69.7	38.7							
480-224869-D-10-A				UNK	10/30/24 03:08:34 pm	0.298	2146	4.18			1.0000	N/A
	Replicates	2060.4	2123.8	2129.0	2272.0							
480-224869-D-11-A				UNK	10/30/24 03:09:51 pm	0.183	1319	3.18			1.0000	N/A
	Replicates	1259.2	1333.7	1327.9	1355.9							
480-224869-D-12-A				UNK	10/30/24 03:11:09 pm	0.030	222	8.37			1.0000	N/A
	Replicates	238.8	197.2	221.4	230.9							
480-224869-D-13-A				UNK	10/30/24 03:12:27 pm	0.054	393	11.99			1.0000	N/A
	Replicates	444.9	358.0	349.7	418.5							
480-224869-B-14-A				UNK	10/30/24 03:13:46 pm	0.032	236	17.59			1.0000	N/A
	Replicates	268.1	192.6	271.8	209.8							
480-224869-B-15-A				UNK	10/30/24 03:15:04 pm	0.012	93	15.13			1.0000	N/A
	Replicates	83.0	107.1	102.4	81.4							
480-224869-B-16-A				UNK	10/30/24 03:16:22 pm	0.037	268	10.11			1.0000	N/A
	Replicates	247.4	296.0	243.8	285.5							
480-224869-B-16-A				UNK	10/30/24 03:17:41 pm	0.014	107	12.77			1.0000	N/A
	Replicates	94.0	122.8	99.6	111.8							
CCV				CCV	10/30/24 03:19:01 pm	1.928	13841	3.72			1.0000	96.42
	Replicates	13254.9	13674.0	13957.5	14479.5							
CCB				CCB	10/30/24 03:20:18 pm	-0.008	-53	27.22			1.0000	N/A
	Replicates	-35.3	-67.2	-43.0	-65.5							
CCVL				CRDL	10/30/24 03:21:38 pm	0.182	1314	4.23			1.0000	91.10
	Replicates	1250.0	1297.5	1323.8	1382.8							
480-224869-B-16-B MSsd@5				UNK	10/30/24 03:22:56 pm	3.686	26455	3.87			1.0000	N/A
	Replicates	25316.5	26108.4	26637.9	27758.9							
480-224869-B-16-C MSD				UNK	10/30/24 03:24:14 pm	3.766	27027	3.86			1.0000	N/A
	Replicates	25832.3	26630.8	27369.5	28274.8							
480-224869-B-17-A				UNK	10/30/24 03:25:32 pm	0.031	229	6.75			1.0000	N/A
	Replicates	242.4	216.0	215.3	240.8							
480-224869-D-18-A				UNK	10/30/24 03:26:50 pm	0.005	45	46.65			1.0000	N/A
	Replicates	25.6	44.4	69.4	41.1							

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-224869-D-19-A		UNK	10/30/24 03:28:08 pm	0.013	103	23.27			1.0000	N/A
Replicates	98.4	92.3	135.6	85.1						
480-224869-B-25-A		UNK	10/30/24 03:29:25 pm	0.925	6643	3.64			1.0000	N/A
Replicates	6350.1	6605.2	6678.2	6937.7						
160-55689-F-1-A		UNK	10/30/24 03:30:43 pm	0.007	55	42.40			1.0000	N/A
Replicates	47.1	49.6	84.9	37.9						
480-224882-A-1-C		UNK	10/30/24 03:32:01 pm	0.993	7132	3.75			1.0000	N/A
Replicates	6798.5	7077.1	7213.4	7438.1						
480-224882-A-2-C		UNK	10/30/24 03:33:20 pm	0.694	4985	3.40			1.0000	N/A
Replicates	4807.9	4915.1	5010.9	5206.6						
620-21873-A-1-B		UNK	10/30/24 03:34:38 pm	0.006	46	42.89			1.0000	N/A
Replicates	36.6	47.8	69.0	30.3						
CCV		CCV	10/30/24 03:35:58 pm	1.909	13705	4.22			1.0000	95.47
Replicates	13029.5	13547.4	13829.4	14414.9						
CCB		CCB	10/30/24 03:37:15 pm	-0.007	-44	35.57			1.0000	N/A
Replicates	-32.1	-25.9	-63.4	-54.7						
LB 480-730187/1-D		UNK	10/30/24 03:40:57 pm	0.016	120	37.23			1.0000	N/A
Replicates	133.2	67.4	168.9	111.4						
MB 480-730452/2-A		UNK	10/30/24 03:42:16 pm	-0.001	-2	361.42			1.0000	N/A
Replicates	-40.6	32.1	-11.9	10.6						
LCS 480-730452/3-A		UNK	10/30/24 03:43:34 pm	3.426	24585	4.00			1.0000	N/A
Replicates	23531.4	24185.6	24772.3	25848.8						
480-224791-B-18-G		UNK	10/30/24 03:44:53 pm	-0.003	-12	242.52			1.0000	N/A
Replicates	14.9	-58.9	-37.6	34.4						
480-224791-B-19-G		UNK	10/30/24 03:46:12 pm	0.056	411	7.19			1.0000	N/A
Replicates	371.4	417.9	441.4	414.6						
480-224791-B-20-I		UNK	10/30/24 03:47:31 pm	0.028	210	15.30			1.0000	N/A
Replicates	220.2	223.1	233.9	164.4						
480-224791-B-20-Isd@		UNK	10/30/24 03:48:49 pm	0.018	136	13.86			1.0000	N/A
Replicates	140.1	112.6	134.9	156.1						
480-224791-B-20-J MS		UNK	10/30/24 03:50:08 pm	3.514	25219	3.78			1.0000	N/A
Replicates	24206.6	24876.4	25320.9	26473.7						
480-224791-B-20-K MSD		UNK	10/30/24 03:51:27 pm	3.592	25779	3.59			1.0000	N/A
Replicates	24821.7	25412.9	25877.9	27004.2						
480-224791-B-21-G		UNK	10/30/24 03:52:45 pm	-0.007	-47	66.96			1.0000	N/A
Replicates	-26.8	-11.3	-59.3	-92.1						
CCV		CCV	10/30/24 03:54:05 pm	1.931	13863	3.78			1.0000	96.57
Replicates	13260.5	13698.5	13981.7	14510.7						

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCB				CCB	10/30/24 03:55:22 pm	-0.002	-10	49.25			1.0000	N/A
Replicates	-9.2	-7.6	-20.3	-1.6								
480-224791-A-22-E				UNK	10/30/24 03:56:41 pm	12.388	88885	3.64			1.0000	N/A
Replicates	85473.1	87644.7	89290.7	93132.7								
480-224791-A-23-E				UNK	10/30/24 03:58:00 pm	0.000	9	583.92			1.0000	N/A
Replicates	15.6	-15.8	27.5	10.0								
480-224791-A-24-E				UNK	10/30/24 03:59:19 pm	0.104	751	5.25			1.0000	N/A
Replicates	749.7	714.4	733.9	805.4								
480-224818-B-1-E				UNK	10/30/24 04:00:38 pm	0.007	60	99.01			1.0000	N/A
Replicates	85.3	17.2	122.0	14.2								
480-224703-D-1-C				UNK	10/30/24 04:01:57 pm	0.009	73	43.93			1.0000	N/A
Replicates	48.6	47.2	93.4	103.2								
480-224754-B-1-E				UNK	10/30/24 04:03:16 pm	0.022	164	14.00			1.0000	N/A
Replicates	156.1	144.3	159.8	195.5								
LB2 480-730257/1-D				UNK	10/30/24 04:04:35 pm	0.011	84	27.96			1.0000	N/A
Replicates	67.6	114.1	83.6	68.8								
MB 480-730453/2-A				UNK	10/30/24 04:05:54 pm	-0.003	-17	130.30			1.0000	N/A
Replicates	21.5	-50.8	-19.8	-17.1								
LCS 480-730453/3-A				UNK	10/30/24 04:07:13 pm	3.427	24593	3.64			1.0000	N/A
Replicates	23607.9	24259.2	24773.9	25730.4								
480-224791-B-26-J				UNK	10/30/24 04:08:34 pm	-0.003	-15	139.78			1.0000	N/A
Replicates	28.9	-25.6	-35.6	-27.4								
CCV				CCV	10/30/24 04:09:57 pm	1.904	13666	4.34			1.0000	95.19
Replicates	12965.1	13518.6	13786.4	14392.6								
CCB				CCB	10/30/24 04:11:17 pm	-0.008	-50	41.14			1.0000	N/A
Replicates	-19.1	-75.4	-55.4	-52.1								
CCVL				CRDL	10/30/24 04:12:39 pm	0.181	1304	4.63			1.0000	90.47
Replicates	1238.9	1287.8	1307.5	1383.5								
480-224791-B-26-Jsd@5				UNK	10/30/24 04:13:57 pm	0.010	81	26.47			1.0000	N/A
Replicates	110.5	72.7	76.7	65.7								
480-224791-B-26-K MS				UNK	10/30/24 04:15:16 pm	3.809	27337	3.56			1.0000	N/A
Replicates	26220.9	27036.8	27545.0	28544.5								
480-224791-B-26-L MSD				UNK	10/30/24 04:16:35 pm	3.807	27323	3.98			1.0000	N/A
Replicates	26115.9	26933.9	27546.7	28695.4								
LB 480-730373/1-B				UNK	10/30/24 04:17:54 pm	0.003	27	114.97			1.0000	N/A
Replicates	8.4	20.8	61.6	16.6								
MB 480-730455/2-A				UNK	10/30/24 04:19:14 pm	0.004	36	56.61			1.0000	N/A
Replicates	43.7	53.9	14.1	33.1								

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
LCS 480-730455/3-A					UNK	10/30/24 04:20:33 pm	2.957	21218	3.87			1.0000	N/A
	Replicates	20305.7	20917.5	21400.0	22248.3								
480-224926-A-1-A					UNK	10/30/24 04:21:52 pm	0.004	37	50.69			1.0000	N/A
	Replicates	40.4	23.4	26.1	57.1								
480-224926-A-1-Bsd@5					UNK	10/30/24 04:23:11 pm	0.011	85	25.09			1.0000	N/A
	Replicates	107.4	64.2	94.2	73.0								
480-224926-A-1-C MS					UNK	10/30/24 04:24:30 pm	3.437	24662	4.07			1.0000	N/A
	Replicates	23494.4	24320.6	24970.9	25861.9								
480-224926-A-1-D MSD					UNK	10/30/24 04:25:49 pm	3.458	24819	3.89			1.0000	N/A
	Replicates	23704.4	24480.5	25103.7	25986.5								
CCV					CCV	10/30/24 04:27:08 pm	1.894	13596	4.13			1.0000	94.71
	Replicates	12974.2	13413.1	13682.3	14314.1								
CCB					CCB	10/30/24 04:28:26 pm	0.000	3	614.17			1.0000	N/A
	Replicates	8.3	5.8	-20.0	19.8								
480-224926-A-2-B					UNK	10/30/24 04:29:45 pm	0.002	20	171.97			1.0000	N/A
	Replicates	26.5	-15.2	32.8	36.3								
480-224926-B-3-B					UNK	10/30/24 04:31:04 pm	0.002	17	359.70			1.0000	N/A
	Replicates	-12.3	-21.5	46.0	57.2								
CCV					CCV	10/30/24 04:34:29 pm	1.880	13496	4.34			1.0000	94.01
	Replicates	12868.2	13237.7	13643.2	14235.5								
CCB					CCB	10/30/24 04:35:46 pm	-0.004	-23	77.09			1.0000	N/A
	Replicates	3.0	-51.4	-19.4	-23.2								
CCVL					CRDL	10/30/24 04:37:07 pm	0.182	1312	3.55			1.0000	91.03
	Replicates	1258.3	1331.1	1294.4	1365.9								
LCS 480-730455/3-A					UNK	10/30/24 04:38:25 pm	2.980	21385	3.83			1.0000	N/A
	Replicates	20492.6	21097.0	21510.5	22439.0								
CCV					CCV	10/30/24 04:39:45 pm	1.892	13582	4.35			1.0000	94.61
	Replicates	12896.1	13414.1	13707.6	14311.6								
CCB					CCB	10/30/24 04:41:02 pm	-0.004	-26	59.93			1.0000	N/A
	Replicates	-13.2	-47.7	-36.7	-6.7								
CCVL					CRDL	10/30/24 04:42:23 pm	0.174	1252	5.57			1.0000	86.79
	Replicates	1173.2	1257.0	1235.0	1341.0								

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730387 Batch Start Date: 10/30/24 12:00 Batch Analyst: Boytar, Emily S

Batch Method: 7470A Batch End Date: 10/30/24 14:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 03485			
MB 480-730387/1		7470A, 7470A			30 mL	50 mL				
LCS 480-730387/2		7470A, 7470A			30 mL	50 mL	2 mL			
480-224869-D-1	MW-BCP-09A-1025 2024	7470A, 7470A	Water	T	30 mL	50 mL				
480-224869-D-3	MW-BCP-10A-1024 2024	7470A, 7470A	Water	T	10 mL	50 mL				
480-224869-D-5	MW-BCP-11A-1024 2024	7470A, 7470A	Water	T	15 mL	50 mL				
480-224869-D-7	MW-BCP-12A-1024 2024	7470A, 7470A	Water	T	30 mL	50 mL				
480-224869-D-9	MW-BCP-13A-1025 2024	7470A, 7470A	Water	T	10 mL	50 mL				
480-224869-D-10	MW-BCP-13B-1025 2024	7470A, 7470A	Water	T	15 mL	50 mL				
480-224869-D-11	MW-BCP-24A-1025 2024	7470A, 7470A	Water	T	15 mL	50 mL				
480-224869-D-12	MW-BCP-25A-1025 2024	7470A, 7470A	Water	T	30 mL	50 mL				
480-224869-D-13	MW-BCP-19B-1025 2024	7470A, 7470A	Water	T	15 mL	50 mL				
480-224869-B-14	MW-BCP-22A-1025 2024	7470A, 7470A	Water	T	30 mL	50 mL				
480-224869-B-15	MW-BCP-25B-1025 2024	7470A, 7470A	Water	T	15 mL	50 mL				
480-224869-B-16	MW-BCP-23A-1025 2024	7470A, 7470A	Water	T	30 mL	50 mL				
480-224869-B-16 MS	MW-BCP-23A-1025 2024	7470A, 7470A		T	30 mL	50 mL	2 mL			
480-224869-B-16 MSD	MW-BCP-23A-1025 2024	7470A, 7470A		T	30 mL	50 mL	2 mL			
480-224869-B-17	MW-BCP-24B-1025 2024	7470A, 7470A	Water	T	10 mL	50 mL				
480-224869-D-18	MW-BCP-21A-1025 2024	7470A, 7470A	Water	T	30 mL	50 mL				
480-224869-D-19	MW-BCP-19A-1025 2024	7470A, 7470A	Water	T	15 mL	50 mL				
480-224869-B-25	MW-BCP-27A-1025 2024	7470A, 7470A	Water	T	30 mL	50 mL				

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730387 Batch Start Date: 10/30/24 12:00 Batch Analyst: Boytar, Emily S

Batch Method: 7470A Batch End Date: 10/30/24 14:00

Batch Notes	
Digestion Tube/Cup ID	LV24051404
Pipette/Syringe/Dispenser ID	Hg-5
Analyst ID - Spike Analyst	EB
Nitric Acid ID	8121747
Sulfuric Acid ID	8047925
Potassium Permanganate ID	8124035
Potassium Persulfate ID	8120406
Digestion Unit ID	Hg-A
Thermometer ID	211049591
Temperature - Uncorrected - Start	94.5 Degrees C
Temperature - Corrected - Start	93.8 Degrees C
Digestion Start Time	1200
Digestion End Time	1400
Temperature - Uncorrected - End	96.0 Degrees C
Temperature - Corrected - End	95.3 Degrees C
Hydroxylamine ID	8090177
Batch Comment	spike 1 @ 0901

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG No.:

Project: Ammonia SCO

Client Sample ID	Lab Sample ID
MW-BCP-09A-10252024	480-224869-1
MW-BCP-09B-10242024	480-224869-2
MW-BCP-10A-10242024	480-224869-3
MW-BCP-10C-10242024	480-224869-4
MW-BCP-11A-10242024	480-224869-5
MW-BCP-11B-10242024	480-224869-6
MW-BCP-12A-10242024	480-224869-7
MW-BCP-12B-10242024	480-224869-8
MW-BCP-13A-10252024	480-224869-9
MW-BCP-13B-10252024	480-224869-10
MW-BCP-24A-10252024	480-224869-11
MW-BCP-25A-10252024	480-224869-12
MW-BCP-19B-10252024	480-224869-13
MW-BCP-22A-10252024	480-224869-14
MW-BCP-25B-10252024	480-224869-15
MW-BCP-23A-10252024	480-224869-16
MW-BCP-24B-10252024	480-224869-17
MW-BCP-21A-10252024	480-224869-18
MW-BCP-19A-10252024	480-224869-19
MW-BCP-20A-10252024	480-224869-20
MW-BCP-20B-10252024	480-224869-21
MW-BCP-17A-10242024	480-224869-22
MW-BCP-21C-10252024	480-224869-23
MW-BCP-17B-10242024	480-224869-24
MW-BCP-27A-10252024	480-224869-25

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-09A-10252024 | Lab Sample ID: 480-224869-1

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 16:30

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	1.7	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	1.6	0.050	0.021	mg/L		B	5	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-09B-10242024 Lab Sample ID: 480-224869-2

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 02:25

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	ND	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-10A-10242024 | Lab Sample ID: 480-224869-3

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/24/2024 10:40

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	223	10.0	4.5	mg/L			500	350.1
57-12-5	Cyanide, Total	1.8	0.050	0.021	mg/L		B	5	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-10C-10242024 | Lab Sample ID: 480-224869-4

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/24/2024 10:55

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.17	0.020	0.0090	mg/L		F1	1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-11A-10242024 | Lab Sample ID: 480-224869-5

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/24/2024 11:35

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.18	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.12	0.010	0.0041	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-11B-10242024 Lab Sample ID: 480-224869-6

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 01:00

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.047	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-12A-10242024 | Lab Sample ID: 480-224869-7

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/24/2024 03:15

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.073	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	1.2	0.050	0.021	mg/L		B	5	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-12B-10242024 Lab Sample ID: 480-224869-8

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 03:10

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	ND	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-13A-10252024 | Lab Sample ID: 480-224869-9

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 08:50

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	7.8	0.10	0.045	mg/L			5	350.1
57-12-5	Cyanide, Total	0.62	0.020	0.0082	mg/L		B	2	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-13B-10252024 Lab Sample ID: 480-224869-10

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 09:10

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.24	0.020	0.0090	mg/L		F1	1	350.1
57-12-5	Cyanide, Total	0.28	0.010	0.0041	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-24A-10252024 | Lab Sample ID: 480-224869-11

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 09:35

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	1.0	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.12	0.010	0.0041	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-25A-10252024 Lab Sample ID: 480-224869-12

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 02:05

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	5.1	0.10	0.045	mg/L		B	5	350.1
57-12-5	Cyanide, Total	1.4	0.050	0.021	mg/L		B	5	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-19B-10252024 Lab Sample ID: 480-224869-13

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 09:55

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.20	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-22A-10252024 Lab Sample ID: 480-224869-14

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 11:30

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.96	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.042	0.010	0.0041	mg/L		F1 B	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-25B-10252024 | Lab Sample ID: 480-224869-15

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 02:15

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.25	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.019	0.010	0.0041	mg/L		F1 B	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-23A-10252024 | Lab Sample ID: 480-224869-16

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 11:45

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	1.1	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.26	0.010	0.0041	mg/L		B	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-24B-10252024 | Lab Sample ID: 480-224869-17

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 01:20

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.30	0.020	0.0090	mg/L		F1 F2	1	350.1
57-12-5	Cyanide, Total	0.058	0.010	0.0041	mg/L		B	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-21A-10252024 | Lab Sample ID: 480-224869-18

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 11:00

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	1.5	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.020	0.010	0.0041	mg/L		B	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-19A-10252024 | Lab Sample ID: 480-224869-19

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 09:40

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	37.0	0.51	0.23	mg/L			25.71	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-20A-10252024 Lab Sample ID: 480-224869-20

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 10:20

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.17	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-20B-10252024 | Lab Sample ID: 480-224869-21

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 10:35

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	ND	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-17A-10242024 Lab Sample ID: 480-224869-22

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 03:00

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	ND	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-21C-10252024 Lab Sample ID: 480-224869-23

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 11:20

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.34	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-17B-10242024
Lab Sample ID: 480-224869-24
Lab Name: Eurofins Buffalo
Job No.: 480-224869-1
SDG ID.:
Matrix: Water
Date Sampled: 10/24/2024 08:40
Reporting Basis: WET
Date Received: 10/25/2024 16:30
Preparation Batch Number:
Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.049	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.0075	0.010	0.0041	mg/L	J	F1 B	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-27A-10252024 | Lab Sample ID: 480-224869-25

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/24/2024 02:30

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	1.1	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	16.8	0.50	0.21	mg/L		B	50	9012B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Analyst: AM Batch Start Date: 10/30/2024

Reporting Units: mg/L Analytical Batch No.: 730650

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	21:36	Ammonia	0.944	1.00	94	90-110		NH3 CCV_02038
2	ICB	21:38	Ammonia	ND					
63	CCV	22:30	Ammonia	0.939	1.00	94	90-110		NH3 CCV_02038
64	CCB	22:30	Ammonia	ND					
75	CCV	22:39	Ammonia	0.935	1.00	94	90-110		NH3 CCV_02038
76	CCB	22:40	Ammonia	ND					
77	CCV	22:56	Ammonia	0.954	1.00	95	90-110		NH3 CCV_02038
78	CCB	22:57	Ammonia	ND					
85	CCV	23:04	Ammonia	0.937	1.00	94	90-110		NH3 CCV_02038
86	CCB	23:04	Ammonia	ND					
92	CCV	23:09	Ammonia	0.945	1.00	95	90-110		NH3 CCV_02038
93	CCB	23:11	Ammonia	ND					
96	ICV	23:26	Ammonia	0.937	1.00	94	90-110		NH3 CCV_02038
97	ICB	23:28	Ammonia	ND					
98	CCV	23:28	Ammonia	0.963	1.00	96	90-110		NH3 CCV_02038
99	CCB	23:29	Ammonia	ND					
104	CCV	23:36	Ammonia	0.947	1.00	95	90-110		NH3 CCV_02038
105	CCB	23:38	Ammonia	ND					
108	ICV	23:53	Ammonia	0.946	1.00	95	90-110		NH3 CCV_02038
109	ICB	23:54	Ammonia	ND					
114	CCV	00:00	Ammonia	0.953	1.00	95	90-110		NH3 CCV_02038
115	CCB	00:02	Ammonia	ND					
118	CCV	09:52	Ammonia	0.931	1.00	93	90-110		NH3 CCV_02038
119	CCB	09:54	Ammonia	ND					
129	CCV	10:02	Ammonia	0.952	1.00	95	90-110		NH3 CCV_02038
130	CCB	10:02	Ammonia	ND					
141	CCV	10:11	Ammonia	0.959	1.00	96	90-110		NH3 CCV_02038
142	CCB	10:12	Ammonia	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Analyst: AM Batch Start Date: 10/31/2024

Reporting Units: mg/L Analytical Batch No.: 730651

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	00:18	Ammonia	0.944	1.00	94	90-110		NH3 CCV_02038
2	ICB	00:20	Ammonia	ND					
3	CCV	00:20	Ammonia	0.942	1.00	94	90-110		NH3 CCV_02038
4	CCB	00:20	Ammonia	ND					
14	CCV	00:30	Ammonia	0.961	1.00	96	90-110		NH3 CCV_02038
15	CCB	00:30	Ammonia	ND					
22	CCV	00:37	Ammonia	0.944	1.00	94	90-110		NH3 CCV_02038
23	CCB	00:37	Ammonia	ND					
57	ICV	01:35	Ammonia	0.956	1.00	96	90-110		NH3 CCV_02038
58	ICB	01:36	Ammonia	ND					
59	CCV	01:37	Ammonia	0.941	1.00	94	90-110		NH3 CCV_02038
60	CCB	01:37	Ammonia	ND					
64	CCV	01:42	Ammonia	0.933	1.00	93	90-110		NH3 CCV_02038
65	CCB	01:42	Ammonia	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Analyst: CLT Batch Start Date: 10/29/2024

Reporting Units: mg/L Analytical Batch No.: 730337

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
15	ICV	08:00	Cyanide, Total	0.249	0.250	100	90-110		WC_CN ICV_00296
16	ICB	08:02	Cyanide, Total	ND					
17	CCV	08:05	Cyanide, Total	0.250	0.250	100	90-110		WC_CN CCV/LCS_00521
18	CCB	08:08	Cyanide, Total	ND					
29	CCV	08:45	Cyanide, Total	0.261	0.250	105	90-110		WC_CN CCV/LCS_00521
30	CCB	08:48	Cyanide, Total	ND					
99	CCV	12:39	Cyanide, Total	0.259	0.250	104	90-110		WC_CN CCV/LCS_00521
100	CCB	12:42	Cyanide, Total	ND					
113	CCV	13:25	Cyanide, Total	0.274	0.250	110	90-110		WC_CN CCV/LCS_00521
114	CCB	13:29	Cyanide, Total	ND					
127	CCV	14:12	Cyanide, Total	0.264	0.250	106	90-110		WC_CN CCV/LCS_00521
128	CCB	14:16	Cyanide, Total	0.00460				J	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Analyst: CLT Batch Start Date: 10/30/2024

Reporting Units: mg/L Analytical Batch No.: 730502

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
15	ICV	07:56	Cyanide, Total	0.257	0.250	103	90-110		WC_CN ICV_00297
16	ICB	07:58	Cyanide, Total	0.00570				J	
17	CCV	08:01	Cyanide, Total	0.250	0.250	100	90-110		WC_CN CCV/LCS_00523
18	CCB	08:04	Cyanide, Total	0.00530				J	
29	CCV	08:41	Cyanide, Total	0.230	0.250	92	90-110		WC_CN CCV/LCS_00523
30	CCB	08:45	Cyanide, Total	0.00600				J	
44	CCV	09:32	Cyanide, Total	0.253	0.250	101	90-110		WC_CN CCV/LCS_00523
45	CCB	09:34	Cyanide, Total	0.00780				J	
58	CCV	10:18	Cyanide, Total	0.244	0.250	98	90-110		WC_CN CCV/LCS_00523
59	CCB	10:21	Cyanide, Total	0.00840				J	
72	CCV	11:04	Cyanide, Total	0.236	0.250	94	90-110		WC_CN CCV/LCS_00523
73	CCB	11:08	Cyanide, Total	0.00850				J	
86	CCV	11:51	Cyanide, Total	0.235	0.250	94	90-110		WC_CN CCV/LCS_00523
87	CCB	11:55	Cyanide, Total	0.00900				J	
100	CCV	12:38	Cyanide, Total	0.234	0.250	93	90-110		WC_CN CCV/LCS_00523
101	CCB	12:41	Cyanide, Total	0.00660				J	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 730650 Date: 10/30/2024 22:32							
350.1	MB 480-730650/65	Ammonia	ND		mg/L	0.020	1
Batch ID: 730650 Date: 10/30/2024 23:06							
350.1	MB 480-730650/87	Ammonia	ND		mg/L	0.020	1
Batch ID: 730650 Date: 10/30/2024 23:30							
350.1	MB 480-730650/100	Ammonia	0.0150	J	mg/L	0.020	1
Batch ID: 730650 Date: 10/31/2024 00:02							
350.1	MB 480-730650/116	Ammonia	ND		mg/L	0.020	1
Batch ID: 730651 Date: 10/31/2024 00:22							
350.1	MB 480-730651/5	Ammonia	ND		mg/L	0.020	1
Batch ID: 730651 Date: 10/31/2024 01:39							
350.1	MB 480-730651/61	Ammonia	ND		mg/L	0.020	1
Batch ID: 730650 Date: 10/31/2024 10:04							
350.1	MB 480-730650/131	Ammonia	ND		mg/L	0.020	1
Batch ID: 730337 Date: 10/29/2024 12:53							
9012B	MB 480-730337/103	Cyanide, Total	ND		mg/L	0.010	1
Batch ID: 730502 Date: 10/30/2024 08:16							
9012B	MB 480-730502/21	Cyanide, Total	0.00470	J	mg/L	0.010	1
Batch ID: 730502 Date: 10/30/2024 09:46							
9012B	MB 480-730502/48	Cyanide, Total	0.00910	J	mg/L	0.010	1
Batch ID: 730502 Date: 10/30/2024 11:19							
9012B	MB 480-730502/76	Cyanide, Total	0.00960	J	mg/L	0.010	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 730650 Date: 10/30/2024 22:59											
350.1	480-224869-10	Ammonia	0.24		mg/L						F1
350.1	480-224869-10 MS	Ammonia	0.302		mg/L	0.0800	75	90-110			F1
Batch ID: 730650 Date: 10/30/2024 23:08											
350.1	480-224869-16	Ammonia	1.1		mg/L						
350.1	480-224869-16 MS	Ammonia	1.21		mg/L	0.0800	134	90-110			4
Batch ID: 730651 Date: 10/31/2024 00:24											
350.1	480-224869-17	Ammonia	0.30		mg/L						F1 F2
350.1	480-224869-17 MS	Ammonia	0.362		mg/L	0.0800	83	90-110			F1
Batch ID: 730651 Date: 10/31/2024 00:32											
350.1	480-224869-23	Ammonia	0.34		mg/L						
350.1	480-224869-23 MS	Ammonia	0.398		mg/L	0.0800	73	90-110			4
Batch ID: 730650 Date: 10/31/2024 10:06											
350.1	480-224869-4	Ammonia	0.17		mg/L						F1
350.1	480-224869-4 MS	Ammonia	0.243		mg/L	0.0800	96	90-110			
Batch ID: 730502 Date: 10/30/2024 08:31											
9012B	480-224869-14	Cyanide, Total	0.042		mg/L						F1 B
9012B	480-224869-14 MS	Cyanide, Total	0.125		mg/L	0.100	83	90-110			F1
Batch ID: 730502 Date: 10/30/2024 09:01											
9012B	480-224869-15	Cyanide, Total	0.019		mg/L						F1 B
9012B	480-224869-15 MS	Cyanide, Total	0.105		mg/L	0.100	86	90-110			F1
Batch ID: 730502 Date: 10/30/2024 09:55											
9012B	480-224869-24	Cyanide, Total	0.0075	J	mg/L						F1 B
9012B	480-224869-24 MS	Cyanide, Total	0.0929		mg/L	0.100	85	90-110			F1

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 730650 Date: 10/30/2024 23:09											
350.1	480-224869-16 MSD	Ammonia	1.12		mg/L	0.0800	20	90-110	8	20	4
Batch ID: 730651 Date: 10/31/2024 00:25											
350.1	480-224869-17 MSD	Ammonia	0.265		mg/L	0.0800	-39	90-110	31	20	F1 F2
Batch ID: 730650 Date: 10/31/2024 10:07											
350.1	480-224869-4 MSD	Ammonia	0.222		mg/L	0.0800	70	90-110	9	20	F1

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 730502 Date: 10/30/2024 08:58								
9012B	MW-BCP-25B-10252024	480-224869-15	Cyanide, Total	0.019	mg/L			
9012B	MW-BCP-25B-10252024	480-224869-15 DU	Cyanide, Total	0.0177	mg/L	8	15	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 730650	Date: 10/30/2024 22:32										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730650/66	Ammonia	0.957		mg/L	1.00	96	90-110			
Batch ID: 730650	Date: 10/30/2024 23:06										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730650/88	Ammonia	0.958		mg/L	1.00	96	90-110			
Batch ID: 730650	Date: 10/30/2024 23:31										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730650/101	Ammonia	0.968		mg/L	1.00	97	90-110			
Batch ID: 730650	Date: 10/31/2024 00:02										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730650/117	Ammonia	0.948		mg/L	1.00	95	90-110			
Batch ID: 730651	Date: 10/31/2024 00:22										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730651/6	Ammonia	0.947		mg/L	1.00	95	90-110			
Batch ID: 730651	Date: 10/31/2024 01:39										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730651/62	Ammonia	0.961		mg/L	1.00	96	90-110			
Batch ID: 730650	Date: 10/31/2024 10:04										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730650/132	Ammonia	0.958		mg/L	1.00	96	90-110			
Batch ID: 730337	Date: 10/29/2024 12:55										
						LCS Source: WC_CN CCV/LCS_00521					
9012B	LCS 480-730337/104	Cyanide, Total	0.246		mg/L	0.250	98	90-110			
Batch ID: 730502	Date: 10/30/2024 08:21										
						LCS Source: WC_CN CCV/LCS_00523					
9012B	LCS 480-730502/23	Cyanide, Total	0.230		mg/L	0.250	92	90-110			
Batch ID: 730502	Date: 10/30/2024 09:48										
						LCS Source: WC_CN CCV/LCS_00523					
9012B	LCS 480-730502/49	Cyanide, Total	0.260		mg/L	0.250	104	90-110			
Batch ID: 730502	Date: 10/30/2024 11:21										
						LCS Source: WC_CN CCV/LCS_00523					
9012B	LCS 480-730502/77	Cyanide, Total	0.250		mg/L	0.250	100	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
HIGH LEVEL CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 730337 Date: 10/29/2024 08:22											
						LCS Source: WC_CN 0.400_00299					
9012B	HLCS 480-730337/22	Cyanide, Total	0.408		mg/L	0.400	102	90-110			
Batch ID: 730502 Date: 10/30/2024 08:18											
						LCS Source: WC_CN 0.400_00300					
9012B	HLCS 480-730502/22	Cyanide, Total	0.375		mg/L	0.400	94	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG Number:

Matrix: Water Instrument ID: SEAL 1

Method: 350.1 MDL Date: 01/12/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ammonia		0.02	0.009

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG Number:

Matrix: Water Instrument ID: SEAL 1

Method: 350.1 XMDL Date: 01/12/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ammonia		0.02	0.009

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG Number:

Matrix: Water Instrument ID: Skalar_San+

Method: 9012B MDL Date: 09/16/2022 12:49

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cyanide, Total		0.01	0.0041

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG Number:

Matrix: Water Instrument ID: Skalar_San+

Method: 9012B XMDL Date: 09/16/2022 12:48

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.0041

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: SEAL 1 Method: 350.1

Start Date: 10/30/2024 21:36 End Date: 10/31/2024 10:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
ICV 480-730650/1	1		21:36	X																			
ICB 480-730650/2	1		21:38	X																			
CCV 480-730650/3			21:38																				
CCB 480-730650/4			21:39																				
ZZZZZZ (QC)			21:40																				
ZZZZZZ (QC)			21:41																				
ZZZZZZ (Client)			21:41																				
ZZZZZZ (QC)			21:43																				
ZZZZZZ (QC)			21:43																				
ZZZZZZ (Client)			21:45																				
ZZZZZZ (Client)			21:46																				
ZZZZZZ (Client)			21:46																				
ZZZZZZ (Client)			21:48																				
CCV 480-730650/14			21:48																				
CCB 480-730650/15			21:49																				
ZZZZZZ (Client)			21:50																				
ZZZZZZ (QC)			21:51																				
ZZZZZZ (Client)			21:51																				
ZZZZZZ (Client)			21:53																				
ZZZZZZ (Client)			21:53																				
ZZZZZZ (Client)			21:55																				
CCV 480-730650/22			21:55																				
CCB 480-730650/23			21:56																				
ZZZZZZ (QC)			21:57																				
ZZZZZZ (QC)			21:58																				
ZZZZZZ (Client)			21:58																				
ZZZZZZ (QC)			22:00																				
ZZZZZZ (QC)			22:00																				
ZZZZZZ (Client)			22:01																				
ZZZZZZ (Client)			22:02																				
ZZZZZZ (Client)			22:03																				
ZZZZZZ (Client)			22:03																				
ZZZZZZ (Client)			22:05																				
CCV 480-730650/34			22:05																				
CCB 480-730650/35			22:06																				
ZZZZZZ (Client)			22:07																				
ZZZZZZ (QC)			22:08																				
ZZZZZZ (Client)			22:08																				
ZZZZZZ (Client)			22:10																				
ZZZZZZ (Client)			22:10																				
ZZZZZZ (Client)			22:12																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: SEAL 1 Method: 350.1

Start Date: 10/30/2024 21:36 End Date: 10/31/2024 10:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
CCV 480-730650/42			22:12																				
CCB 480-730650/43			22:13																				
ZZZZZZ (QC)			22:15																				
ZZZZZZ (QC)			22:15																				
ZZZZZZ (Client)			22:15																				
ZZZZZZ (QC)			22:17																				
ZZZZZZ (QC)			22:17																				
ZZZZZZ (Client)			22:18																				
ZZZZZZ (Client)			22:19																				
ZZZZZZ (Client)			22:20																				
ZZZZZZ (Client)			22:20																				
ZZZZZZ (Client)			22:22																				
CCV 480-730650/54			22:22																				
CCB 480-730650/55			22:23																				
ZZZZZZ (Client)			22:24																				
ZZZZZZ (QC)			22:25																				
ZZZZZZ (Client)			22:25																				
ZZZZZZ (Client)			22:27																				
ZZZZZZ (Client)			22:27																				
ZZZZZZ (Client)			22:28																				
ZZZZZZ (Client)			22:29																				
CCV 480-730650/63	1		22:30	X																			
CCB 480-730650/64	1		22:30	X																			
MB 480-730650/65	1	T	22:32	X																			
LCS 480-730650/66	1	T	22:32	X																			
ZZZZZZ (Client)			22:32																				
ZZZZZZ (QC)			22:34																				
ZZZZZZ (QC)			22:34																				
ZZZZZZ (Client)			22:35																				
ZZZZZZ (Client)			22:36																				
ZZZZZZ (Client)			22:37																				
ZZZZZZ (Client)			22:37																				
ZZZZZZ (Client)			22:39																				
CCV 480-730650/75	1		22:39	X																			
CCB 480-730650/76	1		22:40	X																			
CCV 480-730650/77	1		22:56	X																			
CCB 480-730650/78	1		22:57	X																			
480-224869-10	1	T	22:58	X																			
480-224869-10 MS	1	T	22:59	X																			
480-224869-11	1	T	22:59	X																			
480-224869-13	1	T	23:01	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: SEAL 1 Method: 350.1

Start Date: 10/30/2024 21:36 End Date: 10/31/2024 10:12

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
480-224869-14	1	T	23:02	X																			
480-224869-15	1	T	23:03	X																			
CCV 480-730650/85	1		23:04	X																			
CCB 480-730650/86	1		23:04	X																			
MB 480-730650/87	1	T	23:06	X																			
LCS 480-730650/88	1	T	23:06	X																			
480-224869-16	1	T	23:07	X																			
480-224869-16 MS	1	T	23:08	X																			
480-224869-16 MSD	1	T	23:09	X																			
CCV 480-730650/92	1		23:09	X																			
CCB 480-730650/93	1		23:11	X																			
ZZZZZZ (QC)			23:11																				
ZZZZZZ (QC)			23:11																				
ICV 480-730650/96	1		23:26	X																			
ICB 480-730650/97	1		23:28	X																			
CCV 480-730650/98	1		23:28	X																			
CCB 480-730650/99	1		23:29	X																			
MB 480-730650/100	1	T	23:30	X																			
LCS 480-730650/101	1	T	23:31	X																			
ZZZZZZ (Client)			23:33																				
480-224869-12	5	T	23:36	X																			
CCV 480-730650/104	1		23:36	X																			
CCB 480-730650/105	1		23:38	X																			
ZZZZZZ (QC)			23:38																				
ZZZZZZ (QC)			23:38																				
ICV 480-730650/108	1		23:53	X																			
ICB 480-730650/109	1		23:54	X																			
CCV 480-730650/110			23:55																				
CCB 480-730650/111			23:55																				
ZZZZZZ (QC)			23:57																				
ZZZZZZ (QC)			23:57																				
CCV 480-730650/114	1		00:00	X																			
CCB 480-730650/115	1		00:02	X																			
MB 480-730650/116	1	T	00:02	X																			
LCS 480-730650/117	1	T	00:02	X																			
CCV 480-730650/118	1		09:52	X																			
CCB 480-730650/119	1		09:54	X																			
ZZZZZZ (Client)			09:54																				
ZZZZZZ (Client)			09:55																				
ZZZZZZ (Client)			09:56																				
ZZZZZZ (QC)			09:57																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: SEAL 1 Method: 350.1

Start Date: 10/30/2024 21:36 End Date: 10/31/2024 10:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
ZZZZZZ (Client)			09:57																				
ZZZZZZ (Client)			09:59																				
480-224869-1	1	T	09:59	X																			
480-224869-2	1	T	10:00	X																			
480-224869-3	500	T	10:01	X																			
CCV 480-730650/129	1		10:02	X																			
CCB 480-730650/130	1		10:02	X																			
MB 480-730650/131	1	T	10:04	X																			
LCS 480-730650/132	1	T	10:04	X																			
480-224869-4	1	T	10:05	X																			
480-224869-4 MS	1	T	10:06	X																			
480-224869-4 MSD	1	T	10:07	X																			
480-224869-5	1	T	10:07	X																			
480-224869-6	1	T	10:09	X																			
480-224869-7	1	T	10:09	X																			
480-224869-8	1	T	10:09	X																			
480-224869-9	5	T	10:11	X																			
CCV 480-730650/141	1		10:11	X																			
CCB 480-730650/142	1		10:12	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: SEAL 1 Method: 350.1

Start Date: 10/31/2024 00:18 End Date: 10/31/2024 10:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
ICV 480-730651/1	1		00:18	X																			
ICB 480-730651/2	1		00:20	X																			
CCV 480-730651/3	1		00:20	X																			
CCB 480-730651/4	1		00:20	X																			
MB 480-730651/5	1	T	00:22	X																			
LCS 480-730651/6	1	T	00:22	X																			
480-224869-17	1	T	00:23	X																			
480-224869-17 MS	1	T	00:24	X																			
480-224869-17 MSD	1	T	00:25	X																			
480-224869-18	1	T	00:25	X																			
480-224869-20	1	T	00:27	X																			
480-224869-21	1	T	00:28	X																			
480-224869-22	1	T	00:29	X																			
CCV 480-730651/14	1		00:30	X																			
CCB 480-730651/15	1		00:30	X																			
480-224869-23	1	T	00:32	X																			
480-224869-23 MS	1	T	00:32	X																			
480-224869-24	1	T	00:33	X																			
480-224869-25	1	T	00:34	X																			
ZZZZZZ (Client)			00:35																				
ZZZZZZ (Client)			00:37																				
CCV 480-730651/22	1		00:37	X																			
CCB 480-730651/23	1		00:37	X																			
ZZZZZZ (QC)			00:39																				
ZZZZZZ (QC)			00:40																				
ZZZZZZ (Client)			00:40																				
ZZZZZZ (QC)			00:42																				
ZZZZZZ (QC)			00:42																				
ZZZZZZ (Client)			00:42																				
ZZZZZZ (Client)			00:44																				
ZZZZZZ (Client)			00:44																				
ZZZZZZ (Client)			00:45																				
ZZZZZZ (Client)			00:46																				
CCV 480-730651/34			00:47																				
CCB 480-730651/35			00:47																				
ZZZZZZ (Client)			00:49																				
ZZZZZZ (QC)			00:49																				
ZZZZZZ (Client)			00:50																				
ZZZZZZ (Client)			00:51																				
ZZZZZZ (Client)			00:52																				
ZZZZZZ (Client)			00:52																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: SEAL 1 Method: 350.1

Start Date: 10/31/2024 00:18 End Date: 10/31/2024 10:32

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
ZZZZZZ (Client)			00:54																				
CCV 480-730651/43			00:54																				
CCB 480-730651/44			00:54																				
ZZZZZZ (QC)			00:56																				
ZZZZZZ (QC)			00:56																				
ICV 480-730651/47			01:11																				
ICB 480-730651/48			01:13																				
CCV 480-730651/49			01:13																				
CCB 480-730651/50			01:14																				
ZZZZZZ (QC)			01:15																				
ZZZZZZ (QC)			01:16																				
CCV 480-730651/53			01:18																				
CCB 480-730651/54			01:18																				
ZZZZZZ (QC)			01:20																				
ZZZZZZ (QC)			01:20																				
ICV 480-730651/57	1		01:35	X																			
ICB 480-730651/58	1		01:36	X																			
CCV 480-730651/59	1		01:37	X																			
CCB 480-730651/60	1		01:37	X																			
MB 480-730651/61	1	T	01:39	X																			
LCS 480-730651/62	1	T	01:39	X																			
480-224869-19	25.71	T	01:40	X																			
CCV 480-730651/64	1		01:42	X																			
CCB 480-730651/65	1		01:42	X																			
ZZZZZZ (QC)			01:44																				
ZZZZZZ (QC)			01:44																				
CCV 480-730651/68			10:28																				
CCB 480-730651/69			10:29																				
ZZZZZZ (Client)			10:30																				
CCV 480-730651/71			10:30																				
CCB 480-730651/72			10:32																				

Prep Types
T = Total/NA

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/29/2024 07:09 End Date: 10/29/2024 15:38

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ			07:09																				
ZZZZZZ			07:13																				
ZZZZZZ			07:18																				
ZZZZZZ			07:22																				
IC 480-730337/5			07:26	X																			
IC 480-730337/6			07:28	X																			
IC 480-730337/7			07:32	X																			
IC 480-730337/8			07:35	X																			
IC 480-730337/9			07:39	X																			
IC 480-730337/10			07:42	X																			
IC 480-730337/11			07:45	X																			
IC 480-730337/12			07:48	X																			
ZZZZZZ			07:52																				
ZZZZZZ			07:55																				
ICV 480-730337/15	1		08:00	X																			
ICB 480-730337/16	1		08:02	X																			
CCV 480-730337/17	1		08:05	X																			
CCB 480-730337/18	1		08:08	X																			
ZZZZZZ			08:12																				
ZZZZZZ			08:15																				
ZZZZZZ (QC)			08:20																				
HLCS 480-730337/22	1	T	08:22	X																			
ZZZZZZ (QC)			08:25																				
ZZZZZZ			08:29																				
ZZZZZZ (Client)			08:32																				
ZZZZZZ (QC)			08:35																				
ZZZZZZ (Client)			08:39																				
ZZZZZZ (Client)			08:42																				
CCV 480-730337/29	1		08:45	X																			
CCB 480-730337/30	1		08:48	X																			
ZZZZZZ			08:52																				
ZZZZZZ			08:55																				
ZZZZZZ (Client)			09:00																				
ZZZZZZ (QC)			09:01																				
ZZZZZZ (QC)			09:05																				
ZZZZZZ (Client)			09:09																				
ZZZZZZ (Client)			09:12																				
ZZZZZZ (Client)			09:15																				
ZZZZZZ (Client)			09:18																				
ZZZZZZ (Client)			09:22																				
ZZZZZZ (Client)			09:25																				

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/29/2024 07:09 End Date: 10/29/2024 15:38

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ (Client)			09:28																				
CCV 480-730337/43			09:32																				
CCB 480-730337/44			09:35																				
ZZZZZZ			09:39																				
ZZZZZZ			09:42																				
ZZZZZZ (QC)			09:46																				
ZZZZZZ (QC)			09:48																				
ZZZZZZ (Client)			09:52																				
ZZZZZZ (QC)			09:55																				
ZZZZZZ (Client)			09:59																				
ZZZZZZ (Client)			10:02																				
ZZZZZZ (Client)			10:05																				
ZZZZZZ (Client)			10:08																				
ZZZZZZ (Client)			10:12																				
ZZZZZZ (Client)			10:15																				
CCV 480-730337/57			10:18																				
CCB 480-730337/58			10:22																				
ZZZZZZ			10:25																				
ZZZZZZ			10:29																				
ZZZZZZ (Client)			10:33																				
ZZZZZZ (Client)			10:35																				
ZZZZZZ (Client)			10:39																				
ZZZZZZ (Client)			10:42																				
ZZZZZZ (Client)			10:45																				
ZZZZZZ (Client)			10:48																				
ZZZZZZ (QC)			10:52																				
ZZZZZZ (QC)			10:55																				
ZZZZZZ (Client)			10:59																				
ZZZZZZ (Client)			11:02																				
CCV 480-730337/71			11:05																				
CCB 480-730337/72			11:08																				
ZZZZZZ			11:12																				
ZZZZZZ			11:15																				
ZZZZZZ (QC)			11:20																				
ZZZZZZ (QC)			11:22																				
ZZZZZZ (Client)			11:25																				
ZZZZZZ (QC)			11:29																				
ZZZZZZ (Client)			11:32																				
ZZZZZZ (Client)			11:35																				
ZZZZZZ (Client)			11:39																				
ZZZZZZ (Client)			11:42																				

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/29/2024 07:09 End Date: 10/29/2024 15:38

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ (Client)			11:45																				
ZZZZZZ (Client)			11:49																				
CCV 480-730337/85			11:52																				
CCB 480-730337/86			11:55																				
ZZZZZZ			11:59																				
ZZZZZZ			12:02																				
ZZZZZZ (Client)			12:06																				
ZZZZZZ (Client)			12:09																				
ZZZZZZ (QC)			12:12																				
ZZZZZZ (QC)			12:15																				
ZZZZZZ (Client)			12:19																				
ZZZZZZ (Client)			12:22																				
ZZZZZZ (Client)			12:25																				
ZZZZZZ (Client)			12:29																				
ZZZZZZ (Client)			12:32																				
ZZZZZZ (Client)			12:35																				
CCV 480-730337/99	1		12:39	X																			
CCB 480-730337/100	1		12:42	X																			
ZZZZZZ			12:45																				
ZZZZZZ			12:49																				
MB 480-730337/103	1	T	12:53	X																			
LCS 480-730337/104	1	T	12:55	X																			
ZZZZZZ (Client)			12:59																				
ZZZZZZ (QC)			13:02																				
ZZZZZZ (QC)			13:05																				
ZZZZZZ (Client)			13:09																				
ZZZZZZ (Client)			13:12																				
ZZZZZZ (Client)			13:15																				
ZZZZZZ (Client)			13:19																				
ZZZZZZ (Client)			13:22																				
CCV 480-730337/113	1		13:25	X																			
CCB 480-730337/114	1		13:29	X																			
ZZZZZZ			13:32																				
ZZZZZZ			13:36																				
ZZZZZZ (Client)			13:40																				
ZZZZZZ (QC)			13:42																				
ZZZZZZ (Client)			13:46																				
ZZZZZZ (Client)			13:49																				
480-224869-5	1	T	13:52	X																			
ZZZZZZ (Client)			13:55																				
ZZZZZZ (Client)			13:59																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/29/2024 07:09 End Date: 10/29/2024 15:38

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
480-224869-10	1	T	14:02	X																			
480-224869-11	1	T	14:05	X																			
ZZZZZZ (Client)			14:09																				
CCV 480-730337/127	1		14:12	X																			
CCB 480-730337/128	1		14:16	X																			
ZZZZZZ			14:19																				
ZZZZZZ			14:24																				
ZZZZZZ (QC)			14:30																				
ZZZZZZ (QC)			14:32																				
ZZZZZZ (Client)			14:35																				
ZZZZZZ (QC)			14:38																				
ZZZZZZ (QC)			14:41																				
ZZZZZZ (Client)			14:44																				
ZZZZZZ (Client)			14:47																				
ZZZZZZ (Client)			14:51																				
ZZZZZZ (Client)			14:54																				
ZZZZZZ (Client)			14:57																				
CCV 480-730337/141			15:01																				
CCB 480-730337/142			15:04																				
ZZZZZZ			15:07																				
ZZZZZZ			15:11																				
ZZZZZZ (Client)			15:15																				
ZZZZZZ (QC)			15:17																				
ZZZZZZ (Client)			15:21																				
CCV 480-730337/148			15:24																				
CCB 480-730337/149			15:27																				
ZZZZZZ			15:31																				
ZZZZZZ			15:34																				
ZZZZZZ			15:38																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/30/2024 07:05 End Date: 10/30/2024 13:36

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ			07:05																				
ZZZZZZ			07:09																				
ZZZZZZ			07:14																				
ZZZZZZ			07:18																				
IC 480-730502/5			07:22	X																			
IC 480-730502/6			07:24	X																			
IC 480-730502/7			07:28	X																			
IC 480-730502/8			07:31	X																			
IC 480-730502/9			07:34	X																			
IC 480-730502/10			07:38	X																			
IC 480-730502/11			07:41	X																			
IC 480-730502/12			07:44	X																			
ZZZZZZ			07:48																				
ZZZZZZ			07:51																				
ICV 480-730502/15	1		07:56	X																			
ICB 480-730502/16	1		07:58	X																			
CCV 480-730502/17	1		08:01	X																			
CCB 480-730502/18	1		08:04	X																			
ZZZZZZ			08:08																				
ZZZZZZ			08:11																				
MB 480-730502/21	1	T	08:16	X																			
HLCS 480-730502/22	1	T	08:18	X																			
LCS 480-730502/23	1	T	08:21	X																			
ZZZZZZ			08:24																				
480-224869-14	1	T	08:28	X																			
480-224869-14 MS	1	T	08:31	X																			
480-224869-1	5	T	08:34	X																			
480-224869-3	5	T	08:38	X																			
CCV 480-730502/29	1		08:41	X																			
CCB 480-730502/30	1		08:45	X																			
ZZZZZZ			08:48																				
ZZZZZZ			08:51																				
480-224869-15	1	T	08:56	X																			
480-224869-15 DU	1	T	08:58	X																			
480-224869-15 MS	1	T	09:01	X																			
480-224869-7	5	T	09:04	X																			
480-224869-9	2	T	09:08	X																			
480-224869-12	5	T	09:11	X																			
480-224869-16	1	T	09:14	X																			
480-224869-17	1	T	09:18	X																			
480-224869-18	1	T	09:21	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/30/2024 07:05 End Date: 10/30/2024 13:36

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ (Client)			09:24																				
ZZZZZZ			09:28																				
CCV 480-730502/44	1		09:32	X																			
CCB 480-730502/45	1		09:34	X																			
ZZZZZZ			09:38																				
ZZZZZZ			09:41																				
MB 480-730502/48	1	T	09:46	X																			
LCS 480-730502/49	1	T	09:48	X																			
480-224869-24	1	T	09:51	X																			
480-224869-24 MS	1	T	09:55	X																			
ZZZZZZ (Client)			09:58																				
ZZZZZZ (Client)			10:01																				
ZZZZZZ (Client)			10:05																				
ZZZZZZ (Client)			10:08																				
ZZZZZZ (Client)			10:11																				
ZZZZZZ (Client)			10:15																				
CCV 480-730502/58	1		10:18	X																			
CCB 480-730502/59	1		10:21	X																			
ZZZZZZ			10:24																				
ZZZZZZ			10:28																				
ZZZZZZ (Client)			10:33																				
ZZZZZZ (QC)			10:34																				
ZZZZZZ (QC)			10:38																				
ZZZZZZ (Client)			10:41																				
ZZZZZZ (Client)			10:44																				
ZZZZZZ (Client)			10:48																				
ZZZZZZ (Client)			10:51																				
ZZZZZZ (Client)			10:54																				
ZZZZZZ (Client)			10:58																				
ZZZZZZ (Client)			11:01																				
CCV 480-730502/72	1		11:04	X																			
CCB 480-730502/73	1		11:08	X																			
ZZZZZZ			11:11																				
ZZZZZZ			11:14																				
MB 480-730502/76	1	T	11:19	X																			
LCS 480-730502/77	1	T	11:21	X																			
ZZZZZZ (Client)			11:25																				
ZZZZZZ (QC)			11:27																				
ZZZZZZ (Client)			11:31																				
ZZZZZZ (Client)			11:34																				
ZZZZZZ (Client)			11:38																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/30/2024 07:05 End Date: 10/30/2024 13:36

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ (Client)			11:41																				
ZZZZZZ (Client)			11:45																				
ZZZZZZ (Client)			11:48																				
CCV 480-730502/86	1		11:51	X																			
CCB 480-730502/87	1		11:55	X																			
ZZZZZZ			11:58																				
ZZZZZZ			12:01																				
ZZZZZZ (Client)			12:06																				
ZZZZZZ (QC)			12:08																				
ZZZZZZ (QC)			12:11																				
ZZZZZZ (Client)			12:15																				
ZZZZZZ (Client)			12:18																				
ZZZZZZ (Client)			12:21																				
ZZZZZZ (Client)			12:25																				
ZZZZZZ (Client)			12:28																				
ZZZZZZ (Client)			12:31																				
480-224869-25	50	T	12:35	X																			
CCV 480-730502/100	1		12:38	X																			
CCB 480-730502/101	1		12:41	X																			
ZZZZZZ			12:45																				
ZZZZZZ			12:48																				
ZZZZZZ (QC)			12:53																				
ZZZZZZ (QC)			12:54																				
ZZZZZZ (Client)			12:58																				
ZZZZZZ (QC)			13:01																				
ZZZZZZ (QC)			13:05																				
ZZZZZZ (Client)			13:08																				
ZZZZZZ (Client)			13:11																				
ZZZZZZ			13:15																				
ZZZZZZ			13:18																				
CCV 480-730502/113			13:22																				
CCB 480-730502/114			13:25																				
ZZZZZZ			13:28																				
ZZZZZZ			13:31																				
ZZZZZZ			13:36																				

Prep Types
T = Total/NA

730650

Ammonia 350.1

Nitrogen 1000mg/L Std CAL	7622623	Expires 12/31/24
Ammonia as N 1000mg/L Std CCV/LCS/ICV	7613429	Expires 04/27/25
Matrix Spike Int Std	8142979	Expires 11/05/24
Sodium Nitroferricyanide	8094597	Expires 11/05/24
Alkaline Phenol	8140007	Expires 11/12/24
5% EDTA Buffer	8094596	Expires 11/05/24
Sulfuric Acid Carrier	8143456	Expires 10/31/24
Sodium Hypochlorite	7927334	Expires 05/08/25
NH3 CCV/ICV 1.0ppm Std	8143457	Expires 10/31/24

ICV = 1.0ppm
LCS/CCV = 1.0ppm
MS/MSD = 0.1ppm

Distilled LCS/CCV = 1.0ppm
Distilled MS/MSD = 0.5ppm

Residual Chlorine check of samples: Initials AM Date: 10-30-24

Residual Chlorine Strip Lot Number (If used) 42402

AM 10-31-24

AQ700 Water Baselines

SEAL Analytical

Software version: 2.5.1K5
User name: militelloA
Time and Date: 2024-10-31 11:39:09

Filter Number	Filter	Previous water baselines	Current Water baselines
1	405	4.7792 v (Gain = 233)	4.7374 v (Gain = 233)
2	450	4.7093 v (Gain = 192)	4.6701 v (Gain = 192)
3	480	4.6942 v (Gain = 178)	4.6596 v (Gain = 178)
4	505	4.6961 v (Gain = 182)	4.6626 v (Gain = 182)
5	520	4.6709 v (Gain = 160)	4.6754 v (Gain = 161)
6	546	4.7187 v (Gain = 195)	4.6878 v (Gain = 195)
7	578	4.7112 v (Gain = 179)	4.6816 v (Gain = 179)
8	660	4.6930 v (Gain = 169)	4.6698 v (Gain = 169)
9	880	4.6977 v (Gain = 159)	4.6876 v (Gain = 159)
10	Dark	0.0275 v	0.0276 v
Time & Date		**2024-10-30 10:07:52**	**2024-10-31 09:05:33**

AM 10-31-24

Standard report

SEAL Analytical

Software version:	2.5.1K5
User name:	militelloA
Time and Date:	2024-10-31 11:39:05
Tray number:	3
Tray name:	24.10.30 (C)nh3-1
Instrument serial number:	070034
Instrument name:	AQ700

NH3

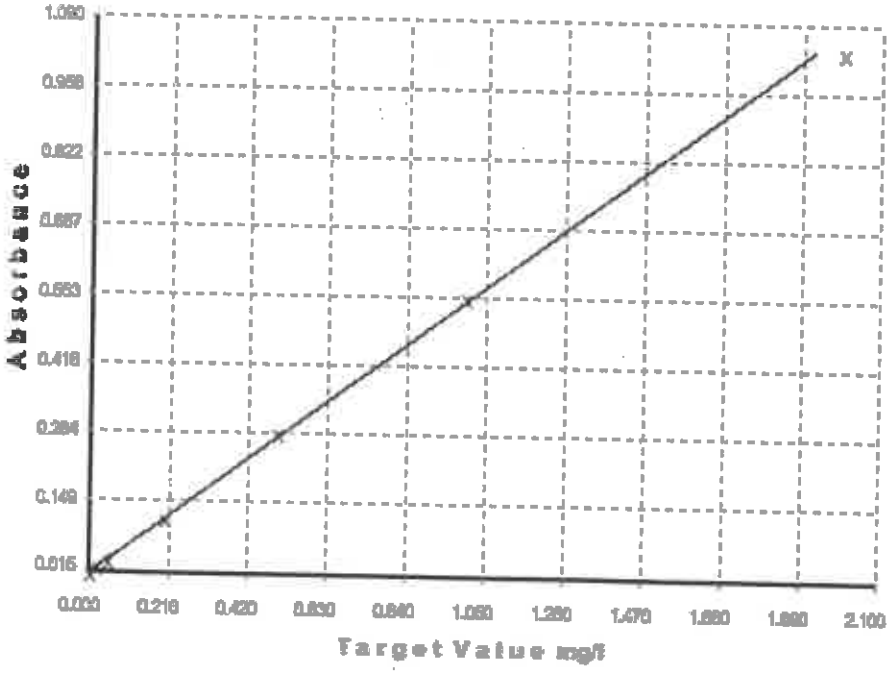
Calibration data

ID	Absorbance	Calc mg/L	Target mg/L	% Error
S95	1.0386	1.921	2.000	-3.9719
S94	0.5554	1.013	1.000	1.3464
S93	0.2885	0.512	0.500	2.4671
S92	0.1219	0.199	0.200	-0.2584
S91	0.0425	0.050	0.050	0.8641
S90	0.0274	0.022	0.022	-0.4473
S1	0.0148	-0.002	0.000	
*89	1.0259	1.897	2.000	-5.1619
S0	0.0148	-0.002	0.000	

Calibration status

Polynomial order	1
Correlation coefficient	0.9996
RSE (%)	2.48
Carryover(%)	-0.0
Calibration equation	y = bx + a
y =	Concentration mg/L
x =	Measured absorbance
a =	-2.933409E-02
b =	1.877495E+00
Original Date & Time	2024-10-10 16:03:01

Calibration graph



Standard report

SEAL Analytical

Reagents

Number	Reagent name	Batch number	User	Expiry date
1	NH3 EDTA Buffer			
2	NH3 phenol			
3	Nh3 Hypo			
4	Nh3 nitro			
21	NH3 ccb (Blank)			

Test results

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
	ICV	ICV		0.944	mg/L	0.518616				AM	2024-10-30 21:36:32
	ICB	ICB		-0.001	mg/L	0.015201				AM	2024-10-30 21:37:56
	CCV	CCV		0.949	mg/L	0.521011				AM	2024-10-30 21:38:20
	CCB	CCB		0.001	mg/L	0.016223				AM	2024-10-30 21:39:20
	MB	MB		0.004	mg/L	0.017879				AM	2024-10-30 21:40:57
	LCS	LCS		0.972	mg/L	0.533231				AM	2024-10-30 21:41:21
1	U1	480-224498-C-11		4.106	mg/L	0.452987		x5.0000		AM	2024-10-30 21:41:46
2	SPKA	Auto Spike	480-224498-C-11	4.363	mg/L	0.570839	128.54	x5.0000		AM	2024-10-30 21:43:23
3	SPKD	Spike duplicate	480-224498-C-11	4.322	mg/L	0.549791	108.10 (0.94)	x5.0000		AM	2024-10-30 21:43:47
4	U2	480-224613-F-4		9.305 ELH	mg/L	4.971950				AM	2024-10-30 21:44:12
5	U3	480-224659-C-10		0.023	mg/L	0.027789				AM	2024-10-30 21:45:48
6	U4	480-224679-C-1		452.879	mg/L	0.498053		x5.0000	x100.0000	AM	2024-10-30 21:46:13
7	U5	480-224695-A-6		0.135	mg/L	0.087737				AM	2024-10-30 21:46:38
8	U6	480-224695-A-7		0.118	mg/L	0.078357				AM	2024-10-30 21:48:15
	CCV	CCV		0.986	mg/L	0.540807				AM	2024-10-30 21:48:39
	CCB	CCB		0.010	mg/L	0.020934				AM	2024-10-30 21:49:03
9	U7	480-224704-C-2		0.159	mg/L	0.100374				AM	2024-10-30 21:50:40
10	SPKA	Auto Spike	480-224704-C-2	0.273	mg/L	0.156386	57.12			AM	2024-10-30 21:51:05
11	U8	480-224704-C-5		0.192	mg/L	0.117996				AM	2024-10-30 21:52:03
12	U9	480-224704-C-7		0.434	mg/L	0.246593				AM	2024-10-30 21:53:06
13	U10	480-224726-A-1		-0.014 ELL	mg/L	0.008033				AM	2024-10-30 21:53:31
14	U11	480-224726-A-2		2.095 ELH	mg/L	1.131348				AM	2024-10-30 21:53:55
15	U12	480-224726-A-3		-0.011 ELL	mg/L	0.009976				AM	2024-10-30 21:55:32
	CCV	CCV		0.952	mg/L	0.522889				AM	2024-10-30 21:55:57
	CCB	CCB		-0.001	mg/L	0.015235				AM	2024-10-30 21:56:22
	MB	MB		-0.001	mg/L	0.014843				AM	2024-10-30 21:57:59
	LCS	LCS		0.945	mg/L	0.518720				AM	2024-10-30 21:58:24
16	U13	480-224704-C-4		0.039	mg/L	0.036629				AM	2024-10-30 21:58:48
17	SPKA	Auto Spike	480-224704-C-4	0.146	mg/L	0.090833	53.31			AM	2024-10-30 22:00:25
18	SPKD	Spike duplicate	480-224704-C-4	0.157	mg/L	0.096614	58.92 (7.40)			AM	2024-10-30 22:00:49
19	U14	480-224726-A-5		0.470	mg/L	0.266148				AM	2024-10-30 22:01:14
20	U15	480-224726-A-8		0.432	mg/L	0.245964				AM	2024-10-30 22:01:41
21	U16	480-224726-A-10		0.165	mg/L	0.103608				AM	2024-10-30 22:02:10
22	U17	480-224732-B-1		0.014	mg/L	0.023293				AM	2024-10-30 22:04:46
23	U18	480-224732-B-2		0.330	mg/L	0.191355				AM	2024-10-30 22:05:07

Standard report

SEAL Analytical

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
	CCV	CCV		0.978	mg/L	0.536387				AM	2024-10-30 22:05:42
	CCB	CCB		-0.001	mg/L	0.015202				AM	2024-10-30 22:06:07
24	U19	480-224765-B-1		-0.012 ELL	mg/L	0.009149				AM	2024-10-30 22:07:43
25	SPKA	Auto Spike	480-224765-B-1	0.081	mg/L	0.057524	46.76			AM	2024-10-30 22:08:08
26	U20	480-224765-B-2		0.033	mg/L	0.033121				AM	2024-10-30 22:08:33
27	U21	480-224765-B-3		0.008	mg/L	0.019709				AM	2024-10-30 22:10:10
28	U22	480-224765-B-4		0.727	mg/L	0.402919				AM	2024-10-30 22:10:34
29	U23	480-224783-A-2		9.372 ELH	mg/L	5.007485				AM	2024-10-30 22:10:58
30	U24	480-224785-C-1		0.763	mg/L	0.421751				AM	2024-10-30 22:12:35
	CCV	CCV		0.989	mg/L	0.542172				AM	2024-10-30 22:12:59
	CCB	CCB		0.003	mg/L	0.017134				AM	2024-10-30 22:13:24
	MB	MB		0.003	mg/L	0.017463				AM	2024-10-30 22:[illegible]
	LCS	LCS		0.951	mg/L	0.522293				AM	2024-10-30 22:[illegible]
31	U25	480-224840-C-14		0.001	mg/L	0.016357				AM	2024-10-30 22:[illegible]
32	SPKA	Auto Spike	480-224840-C-14	0.126	mg/L	0.080261	62.07			AM	2024-10-30 22:17:23
33	SPKD	Spike duplicate	480-224840-C-14	0.142	mg/L	0.088941	70.50 (12.59)			AM	2024-10-30 22:17:[illegible]
34	U26	480-224840-C-15		0.014	mg/L	0.022916				AM	2024-10-30 22:18:17
35	U27	480-224797-A-2		-0.014 ELL	mg/L	0.008420				AM	2024-10-30 22:19:54
36	U28	480-224797-A-10		0.012	mg/L	0.022250				AM	2024-10-30 22:20:19
37	U29	480-224797-A-14		0.096	mg/L	0.066817				AM	2024-10-30 22:20:44
38	U30	480-224797-A-11		0.045	mg/L	0.039807				AM	2024-10-30 22:22:20
	CCV	CCV		0.932	mg/L	0.511971				AM	2024-10-30 22:22:44
	CCB	CCB		-0.004	mg/L	0.013729				AM	2024-10-30 22:23:09
39	U31	480-224802-C-1		0.308	mg/L	0.179939				AM	2024-10-30 22:24:47
40	SPKA	Auto Spike	480-224802-C-1	0.390	mg/L	0.216571	40.87			AM	2024-10-30 22:25:11
41	U32	480-224810-A-2		0.163	mg/L	0.102335				AM	2024-10-30 22:25:36
42	U33	480-224810-A-3		0.264	mg/L	0.156395				AM	2024-10-30 22:27:13
43	U34	480-224810-A-4		0.228	mg/L	0.137268				AM	2024-10-30 22:[illegible]
44	U35	480-224810-A-5		-0.006 ELL	mg/L	0.012186				AM	2024-10-30 22:[illegible]
45	U36	480-224810-A-6		0.163	mg/L	0.102687				AM	2024-10-30 22:[illegible]
	CCV	CCV		0.939	mg/L	0.515979				AM	2024-10-30 22:30:[illegible]
	CCB	CCB		-0.003	mg/L	0.013761				AM	2024-10-30 22:30:38
	MB	MB		-0.003	mg/L	0.013820				AM	2024-10-30 22:33:05
	LCS	LCS		0.957	mg/L	0.525563				AM	2024-10-30 22:33:30
46	U37	480-224802-C-2		0.574	mg/L	0.321465				AM	2024-10-30 22:33:55
47	SPKA	Auto Spike	480-224802-C-2	0.633	mg/L	0.341386	29.21			AM	2024-10-30 22:34:32
48	SPKD	Spike duplicate	480-224802-C-2	0.613	mg/L	0.331103	19.22 (3.21)			AM	2024-10-30 22:34:57
49	U38	480-224810-A-7		0.007	mg/L	0.019244				AM	2024-10-30 22:36:23
50	U39	480-224810-A-8		0.125	mg/L	0.082206				AM	2024-10-30 22:36:98
51	U40	480-224810-A-9		0.157	mg/L	0.099055				AM	2024-10-30 22:37:[illegible]
52	U41	480-224810-A-10		-0.010 ELL	mg/L	0.010505				AM	2024-10-30 22:37:48
53	U42	480-224810-A-11		0.116	mg/L	0.077261				AM	2024-10-30 22:38:24
	CCV	CCV		0.935	mg/L	0.513665				AM	2024-10-30 22:39:49
	CCB	CCB		-0.001	mg/L	0.015243				AM	2024-10-30 22:[illegible]
54	U43	480-224848-C-1		0.717	mg/L	0.397521				AM	2024-10-30 22:[illegible]

Standard report

SEAL Analytical

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
55	SPKA	Auto Spike	480-224848-C-1	0.805	mg/L	0.430144	43.99			AM	2024-10-30 22:42:16
56	U44	480-224848-C-2		0.145	mg/L	0.092726				AM	2024-10-30 22:42:41
57	U45	480-224848-C-3		0.314	mg/L	0.183063				AM	2024-10-30 22:44:18
58	U46	480-224869-C-1		1.588	mg/L	0.861661				AM	2024-10-30 22:44:42
59	U47	480-224869-A-2		0.024	mg/L	0.028391				AM	2024-10-30 22:45:09
60	U48	480-224869-C-3		9.596 ELH	mg/L	5.126940				AM	2024-10-30 22:46:45
	CCV	CCV		0.977	mg/L	0.535822				AM	2024-10-30 22:47:08
	CCB	CCB		0.065	mg/L	0.050132				AM	2024-10-30 22:47:34
	MB	MB		0.003	mg/L	0.017021				AM	2024-10-30 22:49:11
	LCS	LCS		0.951	mg/L	0.522053				AM	2024-10-30 22:49:37
61	U49	480-224869-A-4		0.177	mg/L	0.110034				AM	2024-10-30 22:50:02
62	SPKA	Auto Spike	480-224869-A-4	0.301	mg/L	0.170569	61.82			AM	2024-10-30 22:[illegible]
63	SPKD	Spike duplicate	480-224869-A-4	0.283	mg/L	0.161122	27.88 (6.29)			AM	2024-10-30 22:[illegible]
64	U50	480-224869-C-5		0.228	mg/L	0.136869				AM	2024-10-30 22:[illegible]
65	U51	480-224869-A-6		0.045	mg/L	0.039455				AM	2024-10-30 22:54:06
66	U52	480-224869-C-7		0.080	mg/L	0.058345				AM	2024-10-30 22:[illegible]
67	U53	480-224869-A-8		-0.004 ELL	mg/L	0.013451				AM	2024-10-30 22:[illegible]
68	U54	480-224869-C-9		3.675 ELH	mg/L	1.973276				AM	2024-10-30 22:56:31
	CCV	CCV		0.954	mg/L	0.523810				AM	2024-10-30 22:56:56
	CCB	CCB		0.001	mg/L	0.015986				AM	2024-10-30 22:[illegible]
69	U55	480-224869-C-10		0.242	mg/L	0.144557				AM	2024-10-30 22:[illegible]
70	SPKA	Auto Spike	480-224869-C-1(	0.302	mg/L	**0.171011**	29.84			AM	2024-10-30 22:[illegible]
71	U56	480-224869-C-11		1.015	mg/L	0.556471				AM	2024-10-30 22:59:46
72	U57	480-224869-C-12		2.579 ELH	mg/L	1.389014				AM	2024-10-30 23:01:26
73	U58	480-224869-C-13		0.200	mg/L	0.121945				AM	2024-10-30 23:01:50
74	U59	480-224869-A-14		0.963	mg/L	**0.528661**				AM	2024-10-30 23:02:14
75	U60	480-224869-A-15		0.249	mg/L	0.148266				AM	2024-10-30 23:03:50
	CCV	CCV		0.937	mg/L	**0.514650**				AM	2024-10-30 23:[illegible]
	CCB	CCB		-0.002	mg/L	0.014337				AM	2024-10-30 23:[illegible]
	MB	MB		-0.001	mg/L	0.015163				AM	2024-10-30 23:[illegible]
	LCS	LCS		0.958	mg/L	0.525883				AM	2024-10-30 23:[illegible]
76	U61	480-224869-A-16		1.100	mg/L	**0.601507**				AM	2024-10-30 23:[illegible]
77	SPKA	Auto Spike	480-224869-A-1(	1.207	mg/L	0.637326	53.67			AM	2024-10-30 23:[illegible]
78	SPKD	Spike duplicate	480-224869-A-1(	1.116	mg/L	0.590248	7.96 (7.87)			AM	2024-10-30 23:[illegible]
	CCV	CCV		0.945	mg/L	0.518806				AM	2024-10-30 23:[illegible]
	CCB	CCB		-0.001	mg/L	0.014959				AM	2024-10-30 23:[illegible]
	MB	MB		-0.003	mg/L	0.013963				AM	2024-10-30 23:[illegible]
	LCS	**LCS**		0.949	mg/L	0.521087				AM	2024-10-30 23:[illegible]
	ICV	ICV		0.937	mg/L	0.514550				AM	2024-10-30 23:[illegible]
	ICB	**ICB**		-0.001	mg/L	0.015090				AM	2024-10-30 23:[illegible]
	CCV	CCV		0.963	mg/L	0.528522				AM	2024-10-30 23:[illegible]
	CCB	CCB		0.007	mg/L	0.019332				AM	2024-10-30 23:[illegible]
	MB	MB		0.015	mg/L	0.023683				AM	2024-10-30 23:[illegible]
	LCS	LCS		0.968	mg/L	**0.531339**				AM	2024-10-30 23:[illegible]
4	U2	480-224613-F-4		46.134 ELH	mg/L	4.929994		x5.0000		AM	2024-10-30 23:[illegible]

Standard report

SEAL Analytical

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
14	U11	480-224726-A-2		4.331	mg/L	0.476983		x5.0000		AM	2024-10-30 23:33:14
29	U23	480-224783-A-2		46.615 ELH	mg/L	4.981328		x5.0000		AM	2024-10-30 23:33:38
60	U48	480-224869-C-3		46.074 ELH	mg/L	4.923619		x5.0000		AM	2024-10-30 23:34:02
68	U54	480-224869-C-9		7.114	mg/L	0.773495		x5.0000		AM	2024-10-30 23:36:38
72	U57	480-224869-C-12		5.050	mg/L	0.553613		x5.0000		AM	2024-10-30 23:36:02
	CCV	CCV		0.947	mg/L	0.519902				AM	2024-10-30 23:36:26
	CCB	CCB		-0.002	mg/L	0.014457				AM	2024-10-30 23:38:02
	MB	MB		-0.001	mg/L	0.015042				AM	2024-10-30 23:38:26
	LCS	LCS		0.939	mg/L	0.515785				AM	2024-10-30 23:38:52
	ICV	ICV		0.946	mg/L	0.519479				AM	2024-10-30 23:53:17
	ICB	ICB		-0.001	mg/L	0.015053				AM	2024-10-30 23:53:53
	CCV	CCV		0.953	mg/L	0.523165				AM	2024-10-30 23:[illegible]
	CCB	CCB		0.000	mg/L	0.015647				AM	2024-10-30 23:[illegible]
	MB	MB		0.001	mg/L	0.015938				AM	2024-10-30 23:[illegible]
	LCS	LCS		0.968	mg/L	0.531262				AM	2024-10-30 23:[illegible]
4	U2	480-224613-F-4		232.012 ELH	mg/L	4.821338		x25.7143		AM	2024-10-30 23:[illegible]
29	U23	480-224783-A-2		135.600 ELH	mg/L	2.824322		x25.7143		AM	2024-10-30 23:59:09
60	U48	480-224869-C-3		234.300 ELH	mg/L	4.868720		x25.7143		AM	2024-10-30 23:59:45
	CCV	CCV		0.953	mg/L	0.523071				AM	2024-10-31 00:00:09
	CCB	CCB		-0.001	mg/L	0.015290				AM	2024-10-31 00:00:33
	MB	MB		-0.001	mg/L	0.015246				AM	2024-10-31 00:00:57
	LCS	LCS		0.948	mg/L	0.520430				AM	2024-10-31 00:01:21
	CCV	CCV		0.931	mg/L	0.511662				AM	2024-10-31 00:01:45
	CCB	CCB		0.003	mg/L	0.017478				AM	2024-10-31 09:[illegible]
4	U2	480-224613-F-4		276.564	mg/L	0.310234		x5.0000	x100.0000	AM	2024-10-31 09:[illegible]
29	U23	480-224783-A-2		151.711	mg/L	0.913460		x90.0000		AM	2024-10-31 09:54:57
54	U43	480-224848-C-1		0.736	mg/L	0.407804				AM	2024-10-31 09:55:21
55	SPKA	Auto Spike	480-224848-C-1	0.755	mg/L	0.404335	9.28			AM	2024-10-31 09:56:58
56	U44	480-224848-C-2		0.152	mg/L	0.096821				AM	2024-10-31 09:[illegible]
57	U45	480-224848-C-3		0.276	mg/L	0.162732				AM	2024-10-31 09:[illegible]
58	U46	480-224869-C-1		1.719	mg/L	0.931386				AM	2024-10-31 09:[illegible]
59	U47	480-224869-A-2		0.005 AVF	mg/L	0.018342				AM	2024-10-31 09:[illegible]
60	U48	480-224869-C-3		223.149	mg/L	0.253333		x5.0000	x100.0000	AM	2024-10-31 10:[illegible]
	CCV	CCV		0.952	mg/L	0.522665				AM	2024-10-31 10:[illegible]
	CCB	CCB		0.003	mg/L	0.017086				AM	2024-10-31 10:[illegible]
	MB	MB		0.002	mg/L	0.016819				AM	2024-10-31 10:[illegible]
	LCS	LCS		0.958	mg/L	0.525736				AM	2024-10-31 10:[illegible]
61	U49	480-224869-A-4		0.166	mg/L	0.103960				AM	2024-10-31 10:[illegible]
62	SPKA	Auto Spike	480-224869-A-4	0.243	mg/L	0.140652	38.48			AM	2024-10-31 10:[illegible]
63	SPKD	Spike duplicate	480-224869-A-4	0.222	mg/L	0.129744	27.88 (9.12)			AM	2024-10-31 10:[illegible]
64	U50	480-224869-C-5		0.179	mg/L	0.110918				AM	2024-10-31 10:[illegible]
65	U51	480-224869-A-6		0.047	mg/L	0.040577				AM	2024-10-31 10:[illegible]
66	U52	480-224869-C-7		0.073	mg/L	0.054630				AM	2024-10-31 10:[illegible]
67	U53	480-224869-A-8		0.000 AVF	mg/L	0.015839				AM	2024-10-31 10:[illegible]
68	U54	480-224869-C-9		7.819	mg/L	0.848546		x5.0000		AM	2024-10-31 10:[illegible]

Standard report

SEAL Analytical

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
	CCV	CCV		0.959	mg/L	0.526585				AM	2024-10-31 10:11:52
	CCB	CCB		0.003	mg/L	0.017064				AM	2024-10-31 10:12:16

Work list

Cup	Type	ID	Details	Tests
1	U1	480-224498-C-11		NH3 x 5.000
2	SPKA	Auto Spike	480-224498-C-11	NH3 x 5.000
3	SPKD	Spike duplicate	480-224498-C-11	NH3 x 5.000
4	U2	480-224613-F-4		NH3
5	U3	480-224659-C-10		NH3
6x100.00	U4	480-224679-C-1		NH3 x 5.000
7	U5	480-224695-A-6		NH3
8	U6	480-224695-A-7		NH3
9	U7	480-224704-C-2		NH3
10	SPKA	Auto Spike	480-224704-C-2	NH3
11	U8	480-224704-C-5		NH3
12	U9	480-224704-C-7		NH3
13	U10	480-224726-A-1		NH3
14	U11	480-224726-A-2		NH3
15	U12	480-224726-A-3		NH3
16	U13	480-224704-C-4		NH3
17	SPKA	Auto Spike	480-224704-C-4	NH3
18	SPKD	Spike duplicate	480-224704-C-4	NH3
19	U14	480-224726-A-5		NH3
20	U15	480-224726-A-8		NH3
21	U16	480-224726-A-10		NH3
22	U17	480-224732-B-1		NH3
23	U18	480-224732-B-2		NH3
24	U19	480-224765-B-1		NH3
25	SPKA	Auto Spike	480-224765-B-1	NH3
26	U20	480-224765-B-2		NH3
27	U21	480-224765-B-3		NH3
28	U22	480-224765-B-4		NH3
29	U23	480-224783-A-2		NH3
30	U24	480-224785-C-1		NH3
31	U25	480-224840-C-14		NH3
32	SPKA	Auto Spike	480-224840-C-14	NH3
33	SPKD	Spike duplicate	480-224840-C-14	NH3
34	U26	480-224840-C-15		NH3
35	U27	480-224797-A-2		NH3
36	U28	480-224797-A-10		NH3
37	U29	480-224797-A-14		NH3
38	U30	480-224797-A-11		NH3
39	U31	480-224802-C-1		NH3
40	SPKA	Auto Spike	480-224802-C-1	NH3

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Cup	Type	ID	Details	Tests
41	U32	480-224810-A-2		NH3
42	U33	480-224810-A-3		NH3
43	U34	480-224810-A-4		NH3
44	U35	480-224810-A-5		NH3
45	U36	480-224810-A-6		NH3
46	U37	480-224802-C-2		NH3
47	SPKA	Auto Spike	480-224802-C-2	NH3
48	SPKD	Spike duplicate	480-224802-C-2	NH3
49	U38	480-224810-A-7		NH3
50	U39	480-224810-A-8		NH3
51	U40	480-224810-A-9		NH3
52	U41	480-224810-A-10		NH3
53	U42	480-224810-A-11		NH3
54	U43	480-224848-C-1		NH3
55	SPKA	Auto Spike	480-224848-C-1	NH3
56	U44	480-224848-C-2		NH3
57	U45	480-224848-C-3		NH3
58	U46	480-224869-C-1		NH3
59	U47	480-224869-A-2		NH3
60	U48	480-224869-C-3		NH3
61	U49	480-224869-A-4		NH3
62	SPKA	Auto Spike	480-224869-A-4	NH3
63	SPKD	Spike duplicate	480-224869-A-4	NH3
64	U50	480-224869-C-5		NH3
65	U51	480-224869-A-6		NH3
66	U52	480-224869-C-7		NH3
67	U53	480-224869-A-8		NH3
68	U54	480-224869-C-9		NH3
69	U55	480-224869-C-10		NH3
70	SPKA	Auto Spike	480-224869-C-10	NH3
71	U56	480-224869-C-11		NH3
72	U57	480-224869-C-12		NH3
73	U58	480-224869-C-13		NH3
74	U59	480-224869-A-14		NH3
75	U60	480-224869-A-15		NH3
76	U61	480-224869-A-16		NH3
77	SPKA	Auto Spike	480-224869-A-16	NH3
78	SPKD	Spike duplicate	480-224869-A-16	NH3

Historical Data Summary Report

For Batch 730650

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-224498-C-11	MW-22A	350.1	Ammonia	Total/NA	mg/L as N	8	5.00	4.1	☐	3.888 - 5.887	☐	3.52 - 6.48
480-224659-C-10	MW-N(S)	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.00	ND	☐	0 - 0	☐	0 - 0
480-224679-C-1	Underdrain 3B	350.1	Ammonia-N	Total/NA	mg/L as N	8	500.00	453	☑	0 - 95.768	☑	4.8 - 101.88
480-224695-A-6	MW-3R	350.1	Ammonia	Total/NA	mg/L	8	1.00	0.14	☐	0 - 0.315	☐	0 - 0.192
480-224695-A-7	MW-4R	350.1	Ammonia	Total/NA	mg/L	8	1.00	0.12	☑	0 - 0	☑	0 - 0
480-224704-C-2	MW-10R	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.00	0.16	☐	0.06 - 0.285	☐	0.07 - 0.252
480-224704-C-4	MW-13R	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.00	ND	☐	0 - 0.124	☐	0 - 0.086
480-224704-C-5	MW-80A	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.00	0.19	☐	0.122 - 0.301	☐	0.12 - 0.288
480-224704-C-7	MW-9R	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.00	0.43	☐	0.308 - 0.665	☐	0.296 - 0.672
480-224732-B-1	SW DUP	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	ND	☐	0 - 0.134	☐	0 - 0.144
480-224732-B-2	SW-01	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.33	☑	0 - 0.168	☑	0 - 0.18
480-224765-B-1	A12UR	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.00	ND	☐	0 - 0	☐	0 - 0
480-224765-B-3	MW-210R	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.00	ND	☐	0 - 0	☐	0 - 0
480-224765-B-4	MW-211	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.00	0.73	☐	0 - 2.203	☐	0.448 - 2.16
480-224797-A-10	B52U	350.1	Ammonia	Total/NA	mg/L	8	1.00	ND	☐	0 - 0	☐	0 - 0
480-224797-A-14	B44DA	350.1	Ammonia	Total/NA	mg/L	8	1.00	0.096	☐	0 - 0.232	☐	0 - 0.192
480-224797-A-2	Duplicate (Up)	350.1	Ammonia	Total/NA	mg/L	8	1.00	ND	☐	0 - 0	☐	0 - 0
480-224802-C-1	US-03D	350.1	Ammonia	Total/NA	mg/L as N	8	1.00	0.31	☐	0.269 - 0.483	☐	0.248 - 0.504
480-224802-C-2	US-04D	350.1	Ammonia	Total/NA	mg/L as N	8	1.00	0.57	☐	0.455 - 1	☐	0.48 - 1.032
480-224810-A-10	MW109	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	ND	☐	0 - 0.702	☐	0 - 0.516
480-224810-A-11	MW110	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.12	☐	0 - 0.904	☐	0 - 0.6
480-224810-A-2	GA34A	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.16	☐	0 - 0.326	☐	0 - 0.276
480-224810-A-3	GA33C	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.26	☐	0 - 0.939	☐	0 - 0.84
480-224810-A-4	MW101	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.23	☐	0.057 - 0.305	☐	0.07 - 0.264
480-224810-A-5	MW103	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	ND	☑	0.071 - 0.299	☑	0.079 - 0.276
480-224810-A-6	MW104	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.16	☐	0.145 - 0.268	☐	0.144 - 0.3
480-224810-A-7	MW106	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	ND	☐	0 - 0.74	☐	0 - 0.516
480-224810-A-8	MW107	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.13	☐	0.005 - 0.272	☐	0.06 - 0.228
480-224810-A-9	MW108	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.16	☐	0.132 - 0.248	☐	0.128 - 0.252
480-224840-C-14	SW-2	350.1	Ammonia	Total/NA	mg/L	7	1.00	ND	☐	0 - 0.156	☐	0 - 0.144
480-224840-C-15	SW-3	350.1	Ammonia	Total/NA	mg/L	3	1.00	ND	☐	0 - 0.128	☑	0.032 - 0.048
480-224848-C-1	US-01D	350.1	Ammonia	Total/NA	mg/L as N	8	1.00	0.74	☐	0.149 - 1.546	☐	0.2 - 1.2
480-224848-C-2	W-03D	350.1	Ammonia	Total/NA	mg/L as N	8	1.00	0.15	☐	0 - 0.348	☐	0.096 - 0.324
480-224848-C-3	PZ-07D	350.1	Ammonia	Total/NA	mg/L as N2	8	1.00	0.28	☑	0.37 - 0.4	☑	0.308 - 0.462

730651

Ammonia 350.1

Nitrogen 1000mg/L Std CAL	7622623	Expires 12/31/24
Ammonia as N 1000mg/L Std CCV/LCS/ICV	7613429	Expires 04/27/25
Matrix Spike Int Std	8142979	Expires 11/05/24
Sodium Nitroferricyanide	8094597	Expires 11/05/24
Alkaline Phenol	8140007	Expires 11/12/24
5% EDTA Buffer	8094596	Expires 11/05/24
Sulfuric Acid Carrier	8143456	Expires 10/31/24
Sodium Hypochlorite	7927334	Expires 05/08/25
NH3 CCV/ICV 1.0ppm Std	8143457	Expires 10/31/24

ICV = 1.0ppm
LCS/CCV = 1.0ppm
MS/MSD = 0.1ppm

Distilled LCS/CCV = 1.0ppm
Distilled MS/MSD = 0.5ppm

Residual Chlorine check of samples: Initials AM Date: 10-30-24

Residual Chlorine Strip Lot Number (if used) 424102

AM 10-31-24

AQ700 Water Baselines

SEAL Analytical

Software version: 2.5.1K5
User name: militelloA
Time and Date: 2024-10-31 11:39:47

Filter Number	Filter	Previous water baselines	Current Water baselines
1	405	4.7792 v (Gain = 233)	4.7374 v (Gain = 233)
2	450	4.7093 v (Gain = 192)	4.6701 v (Gain = 192)
3	480	4.6942 v (Gain = 178)	4.6596 v (Gain = 178)
4	505	4.6961 v (Gain = 182)	4.6626 v (Gain = 182)
5	520	4.6709 v (Gain = 160)	4.6754 v (Gain = 161)
6	546	4.7187 v (Gain = 195)	4.6878 v (Gain = 195)
7	578	4.7112 v (Gain = 179)	4.6816 v (Gain = 179)
8	660	4.6930 v (Gain = 169)	4.6698 v (Gain = 169)
9	880	4.6977 v (Gain = 159)	4.6876 v (Gain = 159)
10	Dark	0.0275 v	0.0276 v
Time & Date		**2024-10-30 10:07:52**	**2024-10-31 09:05:33**

AM 10-31-24

Standard report

SEAL Analytical

Software version:	2.5.1K5
User name:	militelloA
Time and Date:	2024-10-31 11:39:44
Tray number:	5
Tray name:	24.10.30 (D)nh3-2-2
Instrument serial number:	070034
Instrument name:	AQ700

NH3

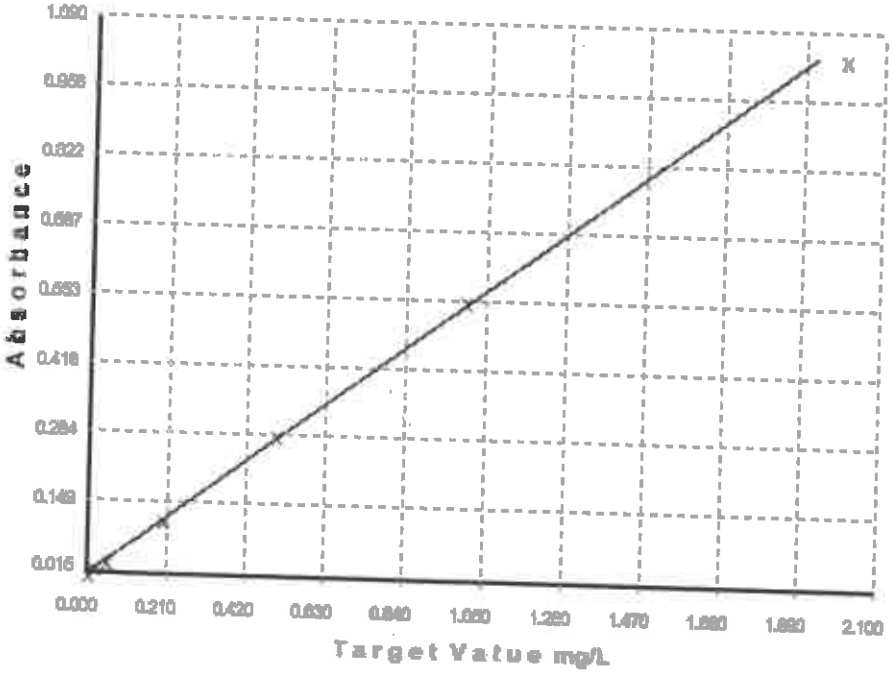
Calibration data

ID	Absorbance	Calc mg/L	Target mg/L	% Error
S95	1.0386	1.921	2.000	-3.9719
S94	0.5554	1.013	1.000	1.3464
S93	0.2885	0.512	0.500	2.4671
S92	0.1219	0.199	0.200	-0.2584
S91	0.0425	0.050	0.050	0.8641
S90	0.0274	0.022	0.022	-0.4473
S1	0.0148	-0.002	0.000	
*89	1.0259	1.897	2.000	-5.1619
S0	0.0148	-0.002	0.000	

Calibration status

Polynomial order	1
Correlation coefficient	0.9996
RSE (%)	2.48
Carryover(%)	-0.0
Calibration equation	y = bx + a
y =	Concentration mg/L
x =	Measured absorbance
a =	-2.933409E-02
b =	1.877495E+00
Original Date & Time	2024-10-10 16:03:01

Calibration graph



AM 10-31-24

Standard report

SEAL Analytical

Reagents

Number	Reagent name	Batch number	User	Expiry date
1	NH3 EDTA Buffer			
2	NH3 phenol			
3	Nh3 Hypo			
4	Nh3 nitro			
21	NH3 ccb (Blank)			

Test results

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
	ICV	ICV		0.944	mg/L	0.518358				AM	2024-10-31 00:18:10
	ICB	ICB		-0.002	mg/L	0.014563				AM	2024-10-31 00:19:01
	CCV	CCV		0.942	mg/L	0.517497				AM	2024-10-31 00:19:30
	CCB	CCB		-0.003	mg/L	0.013920				AM	2024-10-31 00:20:55
	MB	MB		-0.001	mg/L	0.015005				AM	2024-10-31 00:22:32
	LCS	LCS		0.947	mg/L	0.520048				AM	2024-10-31 00:22:57
1	U1	480-224869-A-17		0.296	mg/L	0.173539				AM	2024-10-31 00:23:21
2	SPKA	Auto Spike	480-224869-A-17	0.362	mg/L	0.202092	32.82			AM	2024-10-31 00:24:58
3	SPKD	Spike duplicate	480-224869-A-17	0.265	mg/L	0.151964	-15.86 (31.06)			AM	2024-10-31 00:25:23
4	U2	480-224869-C-18		1.516	mg/L	0.823294				AM	2024-10-31 00:25:47
5	U3	480-224869-C-19		9.355 ELH	mg/L	4.998582				AM	2024-10-31 00:27:24
6	U4	480-224869-A-20		0.170	mg/L	0.106352				AM	2024-10-31 00:27:49
7	U5	480-224869-A-21		-0.003 ELL	mg/L	0.014002				AM	2024-10-31 00:28:14
8	U6	480-224869-A-22		-0.006 ELL	mg/L	0.012349				AM	2024-10-31 00:29:51
	CCV	CCV		0.961	mg/L	0.527638				AM	2024-10-31 00:30:15
	CCB	CCB		0.000	mg/L	0.015885				AM	2024-10-31 00:30:40
9	U7	480-224869-A-23		0.340	mg/L	0.196727				AM	2024-10-31 00:32:17
10	SPKA	Auto Spike	480-224869-A-23	0.398	mg/L	0.220315	28.74			AM	2024-10-31 00:33:41
11	U8	480-224869-A-24		0.049	mg/L	0.041644				AM	2024-10-31 00:34:06
12	U9	480-224869-A-25		1.088	mg/L	0.595205				AM	2024-10-31 00:34:43
13	U10	480-224840-C-1		0.109	mg/L	0.073714				AM	2024-10-31 00:35:07
14	U11	480-224840-C-2		9.198 ELH	mg/L	4.914751				AM	2024-10-31 00:35:32
15	U12	480-224840-C-3		0.225	mg/L	0.135601				AM	2024-10-31 00:37:09
	CCV	CCV		0.944	mg/L	0.518207				AM	2024-10-31 00:37:35
	CCB	CCB		0.003	mg/L	0.017200				AM	2024-10-31 00:37:58
	MB	MB		0.004	mg/L	0.017580				AM	2024-10-31 00:39:25
	LCS	LCS		0.951	mg/L	0.522270				AM	2024-10-31 00:40:00
16	U13	480-224840-C-12		0.053	mg/L	0.043938				AM	2024-10-31 00:40:25
17	SPKA	Auto Spike	480-224840-C-12	0.160	mg/L	0.097912	53.32			AM	2024-10-31 00:42:01
18	SPKD	Spike duplicate	480-224840-C-12	0.156	mg/L	0.095807	51.28 (2.59)			AM	2024-10-31 00:42:26
19	U14	480-224840-C-4		0.025	mg/L	0.029203				AM	2024-10-31 00:42:51
20	U15	480-224840-C-5		0.234	mg/L	0.140424				AM	2024-10-31 00:44:21
21	U16	480-224840-C-6		0.006	mg/L	0.018634				AM	2024-10-31 00:45:34
22	U17	480-224840-C-7		0.775	mg/L	0.428305				AM	2024-10-31 00:47:09
23	U18	480-224840-C-8		0.061	mg/L	0.047968				AM	2024-10-31 00:48:36

Standard report

SEAL Analytical

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
	CCV	CCV		0.960	mg/L	0.527073				AM	2024-10-31 00:47:16
	CCB	CCB		-0.000	mg/L	0.015439				AM	2024-10-31 00:47:40
24	U19	480-224840-C-9		0.016	mg/L	0.024406				AM	2024-10-31 00:49:16
25	SPKA	Auto Spike	480-224840-C-9	0.130	mg/L	0.082363	56.56			AM	2024-10-31 00:49:40
26	U20	480-224840-C-10		0.130	mg/L	0.084909				AM	2024-10-31 00:50:04
27	U21	480-224840-C-11		0.064	mg/L	0.049575				AM	2024-10-31 00:51:40
28	U22	480-224840-C-13		0.046	mg/L	0.039898				AM	2024-10-31 00:52:04
29	U23	224585-8		0.235	mg/L	0.140713				AM	2024-10-31 00:52:28
30	U24	224585-8		0.262	mg/L	0.085314			x2.0000	AM	2024-10-31 00:54:04
	CCV	CCV		0.954	mg/L	0.523835				AM	2024-10-31 00:54:28
	CCB	CCB		-0.001	mg/L	0.014938				AM	2024-10-31 00:54:52
	MB	MB		-0.002	mg/L	0.014461				AM	2024-10-31 00:55:16
	LCS	LCS		0.941	mg/L	0.517023				AM	2024-10-31 00:55:40
	ICV	ICV		0.956	mg/L	0.524692				AM	2024-10-31 00:56:04
	ICB	ICB		-0.002	mg/L	0.014598				AM	2024-10-31 01:13:16
	CCV	CCV		0.932	mg/L	0.511856				AM	2024-10-31 01:13:40
	CCB	CCB		-0.000	mg/L	0.015440				AM	2024-10-31 01:14:04
	MB	MB		0.001	mg/L	0.016141				AM	2024-10-31 01:15:40
	LCS	LCS		0.973	mg/L	0.533707				AM	2024-10-31 01:16:04
5	U3	480-224869-C-19		18.936 ELH	mg/L	2.032733		x5.0000		AM	2024-10-31 01:16:28
14	U11	480-224840-C-2		45.903 ELH	mg/L	4.905386		x5.0000		AM	2024-10-31 01:18:04
	CCV	CCV		0.916	mg/L	0.503554				AM	2024-10-31 01:18:28
	CCB	CCB		0.001	mg/L	0.016023				AM	2024-10-31 01:18:52
	MB	MB		-0.003	mg/L	0.014143				AM	2024-10-31 01:20:28
	LCS	LCS		0.930	mg/L	0.510916				AM	2024-10-31 01:20:52
	ICV	ICV		0.956	mg/L	0.524819				AM	2024-10-31 01:33:13
	ICB	ICB		-0.001	mg/L	0.015307				AM	2024-10-31 01:36:53
	CCV	CCV		0.941	mg/L	0.517010				AM	2024-10-31 01:37:17
	CCB	CCB		-0.001	mg/L	0.015263				AM	2024-10-31 01:37:41
	MB	MB		-0.001	mg/L	0.015095				AM	2024-10-31 01:38:05
	LCS	LCS		0.961	mg/L	0.527502				AM	2024-10-31 01:39:16
5	U3	480-224869-C-19		37.024	mg/L	0.782513		x25.7143		AM	2024-10-31 01:40:09
14	U11	480-224840-C-2		76.567 ELH	mg/L	1.601564		x25.7143		AM	2024-10-31 01:41:41
	CCV	CCV		0.933	mg/L	0.512565				AM	2024-10-31 01:42:09
	CCB	CCB		0.000	mg/L	0.015682				AM	2024-10-31 01:42:29
	MB	MB		0.000	mg/L	0.015760				AM	2024-10-31 01:44:05
	LCS	LCS		0.941	mg/L	0.516632				AM	2024-10-31 01:44:29
	CCV	CCV		0.941	mg/L	0.517024				AM	2024-10-31 10:28:09
	CCB	CCB		0.008	mg/L	0.019841				AM	2024-10-31 10:29:45
14	U11	480-224840-C-2		85.474	mg/L	0.521466		x90.0000		AM	2024-10-31 10:30:09
	CCV	CCV		0.926	mg/L	0.508874				AM	2024-10-31 10:30:33
	CCB	CCB		0.003	mg/L	0.017303				AM	2024-10-31 10:33:09

Standard report

SEAL Analytical

Work list

Cup	Type	ID	Details	Tests
1	UI	480-224869-A-17		NH3
2	SPKA	Auto Spike	480-224869-A-17	NH3
3	SPKD	Spike duplicate	480-224869-A-17	NH3
4	U2	480-224869-C-18		NH3
5	U3	480-224869-C-19		NH3
6	U4	480-224869-A-20		NH3
7	U5	480-224869-A-21		NH3
8	U6	480-224869-A-22		NH3
9	U7	480-224869-A-23		NH3
10	SPKA	Auto Spike	480-224869-A-23	NH3
11	U8	480-224869-A-24		NH3
12	U9	480-224869-A-25		NH3
13	U10	480-224840-C-1		NH3
14	U11	480-224840-C-2		NH3
15	U12	480-224840-C-3		NH3
16	U13	480-224840-C-12		NH3
17	SPKA	Auto Spike	480-224840-C-12	NH3
18	SPKD	Spike duplicate	480-224840-C-12	NH3
19	U14	480-224840-C-4		NH3
20	U15	480-224840-C-5		NH3
21	U16	480-224840-C-6		NH3
22	U17	480-224840-C-7		NH3
23	U18	480-224840-C-8		NH3
24	U19	480-224840-C-9		NH3
25	SPKA	Auto Spike	480-224840-C-9	NH3
26	U20	480-224840-C-10		NH3
27	U21	480-224840-C-11		NH3
28	U22	480-224840-C-13		NH3
29	U23	224585-8		NH3
30x2.000	U24	224585-8		NH3

Historical Data Summary Report

For Batch 730651

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-224840-C-1	Dupe-X	350.1	Ammonia	Total/NA	mg/L	7	1.00	0.11	☐	0 - 0.539	☐	0 - 0.54
480-224840-C-10	OW-108	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.13	☑	0.024 - 0.122	☑	0.059 - 0.088
480-224840-C-11	OW-109	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.064	☐	0 - 0.169	☐	0.047 - 0.07
480-224840-C-12	OW-110	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.053	☐	0.027 - 0.093	☐	0.048 - 0.072
480-224840-C-13	SW-1	350.1	Ammonia	Total/NA	mg/L	7	1.00	0.046	☐	0 - 0.225	☐	0 - 0.216
480-224840-C-2	L-1	350.1	Ammonia	Total/NA	mg/L	3	90.00	85.5	☑	45.05 - 56.35	☑	40.56 - 60.84
480-224840-C-3	L-2	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.23	☐	0 - 0.261	☑	0.072 - 0.108
480-224840-C-4	OW-101	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.025	☐	0 - 0.154	☑	0.023 - 0.035
480-224840-C-5	OW-103	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.23	☑	0 - 0.148	☑	0.05 - 0.074
480-224840-C-6	OW-104	350.1	Ammonia	Total/NA	mg/L	3	1.00	ND	☐	0 - 0.091	☑	0.014 - 0.021
480-224840-C-7	OW-105	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.78	☐	0.351 - 1.242	☐	0.637 - 0.956
480-224840-C-8	OW-106	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.061	☐	0 - 0.072	☑	0.011 - 0.016
480-224840-C-9	OW-107	350.1	Ammonia	Total/NA	mg/L	3	1.00	ND	☐	0 - 0.128	☑	0.03 - 0.045

CT 10-29-24
730337

CN Solutions-Skalar:

Distillation Reagent:	**8123377**	**Exp: 11/22/2024**
Diluent	**8123375**	**Exp: 11/22//2024**
Sodium Dihydrogen Phosphate Buffer	**8122018**	**Exp: 11/10/2024**
Pyridine Barbituric Acid –color reagent	**8135877**	**Exp: 11/28/2024**
Chloramine-T Solution	**8124031**	**Exp: 11/22/2024**
Sodium hydroxide solution	**8110616**	**Exp: 11/10/2024**
Digestion reagent	**8113299**	**Exp: 11/17/2024**
1M Sodium Hydroxide	**8118501**	**Exp: 11/18/2024**
50ppm INT STD	**8135879**	**Exp: 11/04/2024**
CN.25ppm CCV/LCS Std	**8137590**	**Exp: 10/30/2024**
50ppm INT 2nd source STD	**8135880**	**Exp: 11/04/2024**
0.400mg/L HLCS	**8137591**	**Exp: 10/30/2024**
0.100 mg/L	**8137592**	**Exp: 10/30/2024**
0.01 mg/L CCVL	**8137593**	**Exp: 10/29/2024**
10ppm Complex-MS/MSD	**8135881**	**Exp: 11/04/2024**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Skalar : Daily
Curve Standard (50 ppm): 8135879
ICV (0.250 ppm): 8137594 Exp: 10/30/2024

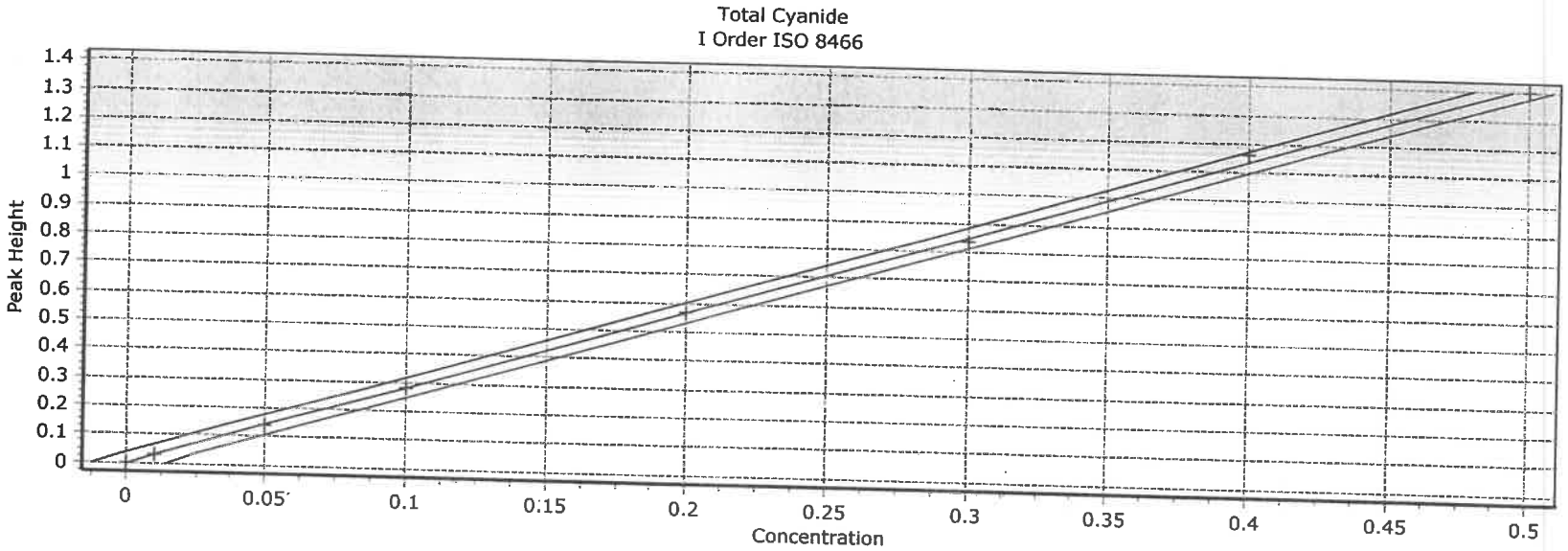
Test for sulfide in samples (Lead Acetate) **Lot number:** 02-05-2024
Tested with lead strips: CT
Test for oxidizers in samples (Potassium Iodine) **Lot number:** 05-10-2024
Tested with potassium Iodine strips: CT

CT 10-29-24

730337

FlowAccessV3

Date:2024-10-29 15:39:20



a = -0.00238851210214 b = 2.83845831259739 RSD = 0.01344983098158

r = 0.99972894234924 R2 = 0.99945795817072

Run Name : TABUF20241029A0CN10292024, Run Db Ref : TABUF20241029A0

User Name : Administrator Operator Name : Administrator

CT 10-29-24

730337

FlowAccessV3 Results Report

Run Name : TABUF20241029A0CN10292024A, Run Database Ref : TABUF20241029A0
DateTime :2024-10-29 06:55:57
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
1	IW	IW	InitialWash		1.0000	0.0008	0.0000	2024-10-29 07:09:00	0.0008
2	ST8	T	Tracer		1.0000	0.5082	1.4402	2024-10-29 07:13:00	0.5082
3	ST8	D	Drift		1.0000	0.5060	1.4340	2024-10-29 07:18:00	0.5060
4	WT	W	Wash		1.0000	0.0008	0.0000	2024-10-29 07:22:00	0.0008
5	ST1	S1	0		1.0000	0.0007	-0.0005	2024-10-29 07:26:00	0.0007
6	ST2	S2	0.01		1.0000	0.0099	0.0258	2024-10-29 07:28:00	0.0099
7	ST3	S3	0.05		1.0000	0.0488	0.1360	2024-10-29 07:32:00	0.0488
8	ST4	S4	0.1		1.0000	0.0997	0.2806	2024-10-29 07:35:00	0.0997
9	ST5	S5	0.2		1.0000	0.2004	0.5666	2024-10-29 07:39:00	0.2004
10	ST6	S6	0.3		1.0000	0.2965	0.8391	2024-10-29 07:42:00	0.2965
11	ST7	S7	0.4		1.0000	0.4095	1.1599	2024-10-29 07:45:00	0.4095
12	ST8	S8	0.5		1.0000	0.4945	1.4013	2024-10-29 07:48:00	0.4945
13	ST8	D	Drift		1.0000	0.5246	1.4866	2024-10-29 07:52:00	0.5246
14	WT	W	Wash		1.0000	0.0008	0.0000	2024-10-29 07:55:00	0.0008
15	ST9	ICV	ICV		1.0000	0.2488	0.7038	2024-10-29 08:00:00	0.2488
16	ST1	ICB	ICB		1.0000	0.0017	0.0025	2024-10-29 08:02:00	0.0017
17	ST10	CCV	CCV		1.0000	0.2498	0.7066	2024-10-29 08:05:00	0.2498
18	ST11	CCB	CCB		1.0000	0.0017	0.0024	2024-10-29 08:08:00	0.0017
19	ST8	D	Drift		1.0000	0.5160	1.4622	2024-10-29 08:12:00	0.5160
20	WT	W	Wash		1.0000	0.0008	0.0000	2024-10-29 08:15:00	0.0008
21	ST11	B	MB		1.0000	0.0008	0.0000	2024-10-29 08:20:00	0.0008
22	ST7	LCS	HLCS		1.0000	0.4080	1.1557	2024-10-29 08:22:00	0.4080
23	ST10	LCS	LCS		1.0000	0.2519	0.7125	2024-10-29 08:25:00	0.2519
24	ST2	CCV	CCVL		1.0000	0.0117	0.0309	2024-10-29 08:29:00	0.0117
25	A1	U	480-224793-d-2		1.0000	0.0006	-0.0006	2024-10-29 08:32:00	0.0006
26	A2	U	MS 480-224793-d-2		1.0000	0.0953	0.2682	2024-10-29 08:35:00	0.0953
27	A3	U	480-224793-d-3		1.0000	0.0019	0.0031	2024-10-29 08:39:00	0.0019

DateTime :2024-10-29 15:39:46

Run Name : TABUF20241029A0CN10292024A, Run Database Ref : TABUF20241029A0
DateTime :2024-10-29 06:55:57
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
28	A4	U	480-224793-d-4		1.0000	0.0008	-0.0002	2024-10-29 08:42:00	0.0008
29	ST10	CCV	CCV		1.0000	0.2614	0.7396	2024-10-29 08:45:00	0.2614
30	ST11	CCB	CCB		1.0000	0.0029	0.0059	2024-10-29 08:48:00	0.0029
31	ST8	D	DRIFT		1.0000	0.5289	1.4990	2024-10-29 08:52:00	0.5289
32	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 08:55:00	0.0008
33	A5	U	480-224793-d-5		1.0000	0.0038	0.0083	2024-10-29 09:00:00	0.0038
34	A6	U	DU 480-224793-d-5		1.0000	0.0009	0.0002	2024-10-29 09:01:00	0.0009
35	A7	U	MS 480-224793-d-5		1.0000	0.0962	0.2706	2024-10-29 09:05:00	0.0962
36	A8	U	480-224793-d-6		1.0000	0.0015	0.0019	2024-10-29 09:09:00	0.0015
37	A9	U	480-224793-d-7		1.0000	0.0012	0.0010	2024-10-29 09:12:00	0.0012
38	A10	U	480-224793-d-8		1.0000	0.0005	-0.0009	2024-10-29 09:15:00	0.0005
39	A11	U	480-224793-d-9		1.0000	0.0005	-0.0010	2024-10-29 09:18:00	0.0005
40	A12	U	480-224793-d-10		1.0000	0.0004	-0.0013	2024-10-29 09:22:00	0.0004
41	A13	U	480-224793-d-11		1.0000	0.0004	-0.0012	2024-10-29 09:25:00	0.0004
42	A14	U	480-224793-d-12		1.0000	0.0004	-0.0011	2024-10-29 09:28:00	0.0004
43	ST10	CCV	CCV		1.0000	0.2453	0.6939	2024-10-29 09:32:00	0.2453
44	ST11	CCB	CCB		1.0000	0.0023	0.0041	2024-10-29 09:35:00	0.0023
45	ST8	D	DRIFT		1.0000	0.5872	1.6645	2024-10-29 09:39:00	0.5872
46	WT	W	Wash		1.0000	0.0008	0.0000	2024-10-29 09:42:00	0.0008
47	ST11	B	MB		1.0000	0.0032	0.0066	2024-10-29 09:46:00	0.0032
48	ST10	LCS	LCS		1.0000	0.2681	0.7586	2024-10-29 09:48:00	0.2681
49	A15	U	480-224793-d-13		1.0000	0.0018	0.0026	2024-10-29 09:52:00	0.0018
50	A16	U	MS 480-224793-d-13		1.0000	0.0964	0.2713	2024-10-29 09:55:00	0.0964
51	A17	U	480-224793-d-14		1.0000	0.0023	0.0042	2024-10-29 09:59:00	0.0023
52	A18	U	480-224794-g-1		1.0000	0.2041	0.5770	2024-10-29 10:02:00	0.2041
53	A19	U	480-224794-g-2		1.0000	0.0402	0.1118	2024-10-29 10:05:00	0.0402
54	A20	U	480-224799-c-1		1.0000	0.0014	0.0016	2024-10-29 10:08:00	0.0014

DateTime :2024-10-29 15:39:46

Run Name : TABUF20241029A0CN10292024A, Run Database Ref : TABUF20241029A0
DateTime :2024-10-29 06:55:57
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
55	A21	U	480-224799-c-2		1.0000	0.0012	0.0011	2024-10-29 10:12:00	0.0012
56	A22	U	480-224799-c-3		1.0000	0.0011	0.0008	2024-10-29 10:15:00	0.0011
57	ST10	CCV	CCV		1.0000	0.2466	0.6975	2024-10-29 10:18:00	0.2466
58	ST11	CCB	CCB		1.0000	0.0032	0.0067	2024-10-29 10:22:00	0.0032
59	ST12	D	DRIFT		1.0000	0.5710	1.6184	2024-10-29 10:25:00	0.5710
60	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 10:29:00	0.0008
61	A23	U	480-224799-c-5		1.0000	0.0049	0.0115	2024-10-29 10:33:00	0.0049
62	A24	U	480-224799-c-4		1.0000	0.0088	0.0226	2024-10-29 10:35:00	0.0088
63	A25	U	480-224799-c-6		1.0000	0.0012	0.0010	2024-10-29 10:39:00	0.0012
64	A26	U	480-224799-c-7		1.0000	0.0008	-0.0001	2024-10-29 10:42:00	0.0008
65	A27	U	480-224802-e-1		1.0000	0.0006	-0.0008	2024-10-29 10:45:00	0.0006
66	A28	U	480-224802-e-2		1.0000	0.0006	-0.0008	2024-10-29 10:48:00	0.0006
67	A29	U	480-224802-e-2 ms		1.0000	0.0934	0.2628	2024-10-29 10:52:00	0.0934
68	A30	U	480-224802-e-2 msd		1.0000	0.1009	0.2839	2024-10-29 10:55:00	0.1009
69	A31	U	480-224807-c-2		1.0000	0.0761	0.2136	2024-10-29 10:59:00	0.0761
70	A32	U	480-224836-a-1		1.0000	0.0039	0.0087	2024-10-29 11:02:00	0.0039
71	ST13	CCV	CCV		1.0000	0.2541	0.7188	2024-10-29 11:05:00	0.2541
72	ST14	CCB	CCB		1.0000	0.0019	0.0031	2024-10-29 11:08:00	0.0019
73	ST15	D	DRIFT		1.0000	0.5408	1.5327	2024-10-29 11:12:00	0.5408
74	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 11:15:00	0.0008
75	ST14	B	MB		1.0000	0.0015	0.0018	2024-10-29 11:20:00	0.0015
76	ST13	LCS	LCS		1.0000	0.2522	0.7136	2024-10-29 11:22:00	0.2522
77	A33	U	480-224836-a-2		1.0000	0.0043	0.0097	2024-10-29 11:25:00	0.0043
78	A34	U	MS 480-224836-a-2		1.0000	0.0930	0.2615	2024-10-29 11:29:00	0.0930
79	A35	U	480-224836-a-3		1.0000	0.0039	0.0088	2024-10-29 11:32:00	0.0039
80	A36	U	480-224842-I-1		1.0000	0.4575	1.2962	2024-10-29 11:35:00	0.4575
81	A37	U	480-224842-I-2		1.0000	0.0459	0.1279	2024-10-29 11:39:00	0.0459

Run Name : TABUF20241029A0CN10292024A, Run Database Ref : TABUF20241029A0
DateTime :2024-10-29 06:55:57
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
82	A38	U	480-224843-j-1		1.0000	0.0096	0.0250	2024-10-29 11:42:00	0.0096
83	A39	U	480-224843-j-2		1.0000	0.0325	0.0897	2024-10-29 11:45:00	0.0325
84	A40	U	480-224846-g-1		1.0000	0.0420	0.1169	2024-10-29 11:49:00	0.0420
85	ST13	CCV	CCV		1.0000	0.2526	0.7147	2024-10-29 11:52:00	0.2526
86	ST14	CCB	CCB		1.0000	0.0020	0.0033	2024-10-29 11:55:00	0.0020
87	ST15	D	DRIFT		1.0000	0.5316	1.5066	2024-10-29 11:59:00	0.5316
88	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 12:02:00	0.0008
89	A41	U	480-224847-g-1		1.0000	0.0165	0.0444	2024-10-29 12:06:00	0.0165
90	A42	U	480-224848-e-1		1.0000	0.0006	-0.0007	2024-10-29 12:09:00	0.0006
91	A43	U	DU 480-224848-e-1		1.0000	0.0004	-0.0012	2024-10-29 12:12:00	0.0004
92	A44	U	MS 480-224848-e-1		1.0000	0.0991	0.2790	2024-10-29 12:15:00	0.0991
93	A45	U	480-224848-e-2		1.0000	0.0012	0.0009	2024-10-29 12:19:00	0.0012
94	A46	U	480-224848-e-3		1.0000	0.0004	-0.0011	2024-10-29 12:22:00	0.0004
95	A47	U	480-224850-d-1		1.0000	0.0003	-0.0014	2024-10-29 12:25:00	0.0003
96	A48	U	480-224850-d-2		1.0000	0.0013	0.0014	2024-10-29 12:29:00	0.0013
97	A49	U	480-224850-d-3		1.0000	0.0025	0.0047	2024-10-29 12:32:00	0.0025
98	A50	U	480-224850-d-4		1.0000	0.0004	-0.0011	2024-10-29 12:35:00	0.0004
99	ST13	CCV	CCV		1.0000	0.2592	0.7333	2024-10-29 12:39:00	0.2592
100	ST14	CCB	CCB		1.0000	0.0019	0.0029	2024-10-29 12:42:00	0.0019
101	ST15	D	DRIFT		1.0000	0.5198	1.4732	2024-10-29 12:45:00	0.5198
102	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 12:49:00	0.0008
103	ST14	B	MB		1.0000	0.0019	0.0031	2024-10-29 12:53:00	0.0019
104	ST13	LCS	LCS		1.0000	0.2460	0.6960	2024-10-29 12:55:00	0.2460
105	A51	U	480-224850-d-5		1.0000	0.0016	0.0021	2024-10-29 12:59:00	0.0016
106	A52	U	DU 480-224850-d-5		1.0000	0.0006	-0.0008	2024-10-29 13:02:00	0.0006
107	A53	U	MS 480-224850-d-5		1.0000	0.0892	0.2508	2024-10-29 13:05:00	0.0892
108	A54	U	480-224726-c-4	500ml→10ml	20.0000	6.6857	0.9465	2024-10-29 13:09:00	0.3343

DateTime :2024-10-29 15:39:46

FlowAccessV3 Results Report

Run Name : TABUF20241029A0CN10292024A, Run Database Ref : TABUF20241029A0
DateTime :2024-10-29 06:55:57
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
109	A55	U	480-224744-c-2	2ml→10ml	5.0000	1.3510	0.7646	2024-10-29 13:12:00	0.2702
110	A56	U	480-224744-c-2	1ml→10ml	10.0000	1.4168	0.3998	2024-10-29 13:15:00	0.1417
111	A57	U	480-224744-c-5	2ml→10ml	5.0000	4.1062	2.3287	2024-10-29 13:19:00	0.8212
112	A58	U	480-224744-c-5	1ml→10ml	10.0000	4.3836	1.2419	2024-10-29 13:22:00	0.4384
113	ST13	CCV	CCV		1.0000	0.2742	0.7760	2024-10-29 13:25:00	0.2742
114	ST14	CCB	CCB		1.0000	0.0036	0.0079	2024-10-29 13:29:00	0.0036
115	ST15	D	DRIFT		1.0000	0.5903	1.6731	2024-10-29 13:32:00	0.5903
116	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 13:36:00	0.0008
117	A59	U	480-224756-e-2		1.0000	0.0163	0.0440	2024-10-29 13:40:00	0.0163
118	A60	U	MS 480-224756-e-2		1.0000	0.0969	0.2726	2024-10-29 13:42:00	0.0969
119	B1	U	480-224869-e-1		1.0000	1.0438	2.9605	2024-10-29 13:46:00	1.0438
120	B2	U	480-224869-e-3		1.0000	1.0491	2.9753	2024-10-29 13:49:00	1.0491
121	B3	U	480-224869-e-5		1.0000	0.1206	0.3401	2024-10-29 13:52:00	0.1206
122	B4	U	480-224869-e-7		1.0000	0.9816	2.7839	2024-10-29 13:55:00	0.9816
123	B5	U	480-224869-e-9		1.0000	0.6485	1.8384	2024-10-29 13:59:00	0.6485
124	B6	U	480-224869-e-10		1.0000	0.2798	0.7917	2024-10-29 14:02:00	0.2798
125	B7	U	480-224869-e-11		1.0000	0.1182	0.3331	2024-10-29 14:05:00	0.1182
126	B8	U	480-224869-e-12		1.0000	0.9953	2.8228	2024-10-29 14:09:00	0.9953
127	ST13	CCV	CCV		1.0000	0.2643	0.7477	2024-10-29 14:12:00	0.2643
128	ST14	CCB	CCB		1.0000	0.0046	0.0107	2024-10-29 14:16:00	0.0046
129	ST15	D	DRIFT		1.0000	0.5872	1.6645	2024-10-29 14:19:00	0.5872
130	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 14:24:00	0.0008
131	ST14	B	MB		1.0000	0.0067	0.0168	2024-10-29 14:30:00	0.0067
132	ST13	LCS	LCS		1.0000	0.2607	0.7376	2024-10-29 14:32:00	0.2607
133	B9	U	480-224869-c-14		1.0000	0.0424	0.1180	2024-10-29 14:35:00	0.0424
134	B10	U	DU 480-224869-c-14		1.0000	0.0389	0.1081	2024-10-29 14:38:00	0.0389
135	B11	U	MS 480-224869-c-14		1.0000	0.1305	0.3679	2024-10-29 14:41:00	0.1305

DateTime :2024-10-29 15:39:46

11/04/2024

FlowAccessV3 Results Report

Run Name : TABUF20241029A0CN10292024A, Run Database Ref : TABUF20241029A0
DateTime :2024-10-29 06:55:57
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
136	B12	U	480-224869-c-15		1.0000	0.0161	0.0433	2024-10-29 14:44:00	0.0161
137	B13	U	480-224869-c-16		1.0000	0.2792	0.7902	2024-10-29 14:47:00	0.2792
138	B14	U	480-224869-c-17		1.0000	0.0576	0.1611	2024-10-29 14:51:00	0.0576
139	B15	U	480-224869-e-18		1.0000	0.0165	0.0444	2024-10-29 14:54:00	0.0165
140	B16	U	480-224869-c-25		1.0000	1.2077	3.4256	2024-10-29 14:57:00	1.2077
141	ST13	CCV	CCV		1.0000	0.4460	1.2634	2024-10-29 15:01:00	0.4460
142	ST14	CCB	CCB		1.0000	0.0182	0.0493	2024-10-29 15:04:00	0.0182
143	ST15	D	DRIFT		1.0000	0.5545	1.5717	2024-10-29 15:07:00	0.5545
144	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 15:11:00	0.0008
145	B17	U	480-224869-b-24		1.0000	0.0066	0.0163	2024-10-29 15:15:00	0.0066
146	B18	U	MS 480-224869-b-24		1.0000	0.1035	0.2913	2024-10-29 15:17:00	0.1035
147	B19	U	480-224887-f-1		1.0000	0.0023	0.0041	2024-10-29 15:21:00	0.0023
148	ST16	CCV	CCV		1.0000	0.2879	0.8148	2024-10-29 15:24:00	0.2879
149	ST17	CCB	CCB		1.0000	0.0047	0.0109	2024-10-29 15:27:00	0.0047
150	ST18	D	DRIFT		1.0000	0.0006	0.0008	2024-10-29 15:31:00	0.0006
151	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 15:34:00	0.0008
152	E	E	EndRun		1.0000	0.0008	0.0000	2024-10-29 15:38:00	0.0008

Historical Data Summary Report

For Batch 730337

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits	
480-224756-E-2	HT-2	9012B_NP	Cyanide, Total	Total/NA	mg/L	5	1.0000	0.016	☑	0 - 0	☑	0 - 0	leachate
480-224793-D-10	MW-112	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-11	MW-113	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.019	☐	0 - 0.02	
480-224793-D-12	MW-114	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-13	MW-115	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-14	MW-116	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-2	MW-101	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-3	MW-102	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-4	MW-103	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-5	MW-104	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-6	MW-105	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-7	MW-106	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-8	MW-108	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-9	MW-111	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224794-G-1	Outfall 001	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224794-G-2	INFLUENT	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	0.20	☑	0 - 0.081	☑	0.012 - 0.084	OK
480-224799-C-1	US-06S	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	0.040	☐	0 - 0.052	☐	0.009 - 0.046	
480-224799-C-2	US-04S	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224799-C-3	DUP 02	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224799-C-4	W-06S	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224799-C-5	G-102	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0.013	☐	0 - 0.014	
480-224799-C-6	PZ-04U	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224799-C-7	PZ-03U	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224802-E-1	US-03D	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224802-E-2	US-04D	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224807-C-2	Leachate - GRAB	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	0.076	☐	0.033 - 0.079	☑	0.033 - 0.076	leachate
480-224842-L-1	L302	9012B_NP	Cyanide, Total	Total/NA	mg/L	5	1.0000	0.46	☑	0 - 0.11	☑	0 - 0.088	leachate
480-224842-L-2	L307	9012B_NP	Cyanide, Total	Total/NA	mg/L	1	1.0000	0.046	☑	0.042 - 0.042	☐	0.034 - 0.05	
480-224843-J-1	L303	9012B_NP	Cyanide, Total	Total/NA	mg/L	6	1.0000	0.0096	☑	0 - 0.009	☑	0 - 0.009	leachate
480-224843-J-2	L304	9012B_NP	Cyanide, Total	Total/NA	mg/L	5	1.0000	0.033	☑	0 - 0.024	☑	0 - 0.019	leachate
480-224846-G-1	Midway Tank Compc	335.4_NP	Cyanide, Total	Total/NA	mg/L	3	1.0000	0.042	☑	0 - 0.023	☑	0.003 - 0.005	leachate
480-224847-G-1	Settlers Hill Tank Co	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	0.017	☐	0 - 0.049	☐	0 - 0.043	
480-224848-E-1	US-01D	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224848-E-2	W-03D	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224848-E-3	PZ-07D	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	2	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224850-D-1	DUP-1	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224850-D-2	SG-2	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224850-D-3	SG-3	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224850-D-4	MW-109	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	

Historical Data Summary Report

For Batch 730337

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-224850-D-5	MW-110	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0

CT 10-30-24

730502

CN Solutions-Skalar:

Distillation Reagent:	**8137620**	**Exp: 11/29/2024**
Diluent	**8138050**	**Exp: 11/29//2024**
Sodium Dihydrogen Phosphate Buffer	**8137614**	**Exp: 11/29/2024**
Pyridine Barbituric Acid –color reagent	**8135877**	**Exp: 11/28/2024**
Chloramine-T Solution	**8124031**	**Exp: 11/22/2024**
Sodium hydroxide solution	**8137595**	**Exp: 11/29/2024**
Digestion reagent	**8113299**	**Exp: 11/17/2024**
1M Sodium Hydroxide	**8137597**	**Exp: 11/29/2024**
50ppm INT STD	**8135879**	**Exp: 11/04/2024**
CN.25ppm CCV/LCS Std	**8140152**	**Exp: 10/31/2024**
50ppm INT 2nd source STD	**8135880**	**Exp: 11/04/2024**
0.400mg/L HLCS	**8140153**	**Exp: 10/31/2024**
0.100 mg/L	**8140154**	**Exp: 10/31/2024**
0.01 mg/L CCVL	**8140155**	**Exp: 10/31/2024**
10ppm Complex-MS/MSD	**8135881**	**Exp: 11/04/2024**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Skalar : Daily
Curve Standard (50 ppm): 8135879
ICV (0.250 ppm): 8140156 Exp: 10/31/2024

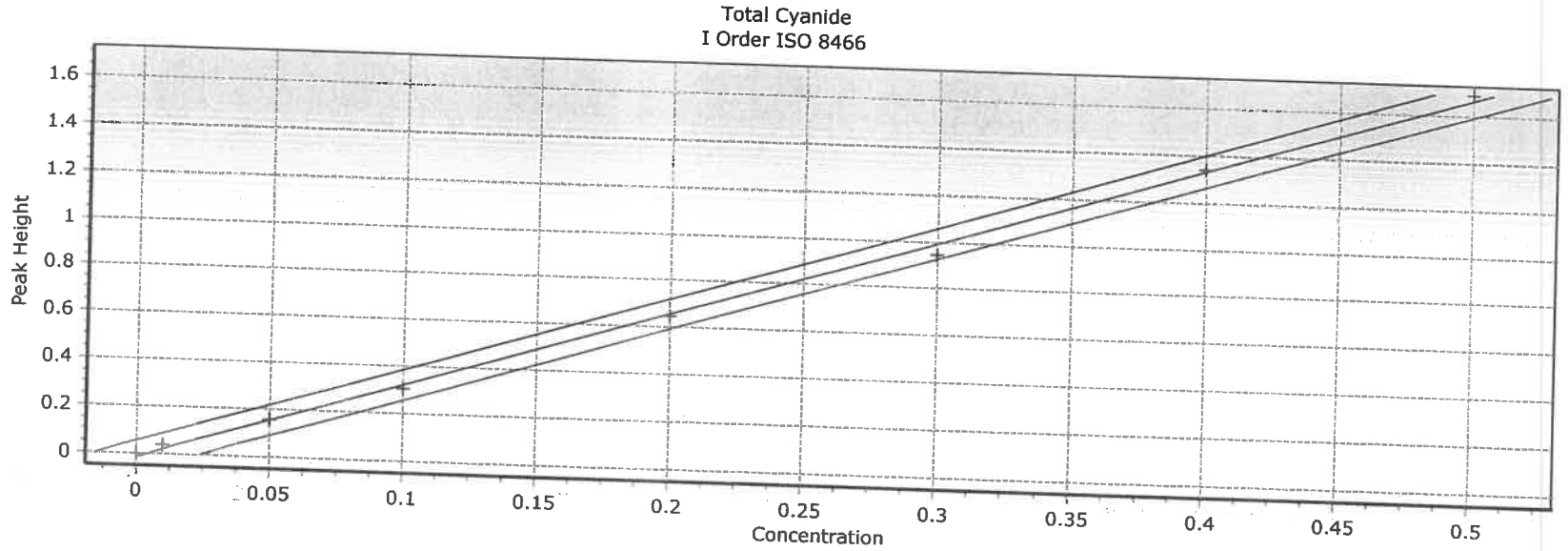
Test for sulfide in samples (Lead Acetate) **Lot number:** 02-05-2024
Tested with lead strips: CT
Test for oxidizers in samples (Potassium Iodine) **Lot number:** 05-10-2024
Tested with potassium Iodine strips: CT

CT 10-30-24

730502

FlowAccessV3

Date:2024-10-30 13:37:16



a = -0.01529795210152 b = 3.35778997583442 RSD = 0.02441263898302

r = 0.99936221187651 R2 = 0.99872483052670

Run Name : TABUF20241030A1CN10302024, Run Db Ref : TABUF20241030A1

User Name : Administrator Operator Name : Administrator

CT 10-30-24
730502

FlowAccessV3 Results Report

Run Name : TABUF20241030A1CN10302024A, Run Database Ref : TABUF20241030A1
DateTime :2024-10-30 06:51:40
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
1	IW	IW	InitialWash		1.0000	0.0046	0.0000	2024-10-30 07:05:00	0.0046
2	ST8	T	Tracer		1.0000	0.4562	1.5166	2024-10-30 07:09:00	0.4562
3	ST8	D	Drift		1.0000	0.4851	1.6137	2024-10-30 07:14:00	0.4851
4	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 07:18:00	0.0046
5	ST1	S1	0		1.0000	0.0045	0.0000	2024-10-30 07:22:00	0.0045
6	ST2	S2	0.01		1.0000	0.0146	0.0338	2024-10-30 07:24:00	0.0146
7	ST3	S3	0.05		1.0000	0.0510	0.1558	2024-10-30 07:28:00	0.0510
8	ST4	S4	0.1		1.0000	0.0957	0.3060	2024-10-30 07:31:00	0.0957
9	ST5	S5	0.2		1.0000	0.1972	0.6468	2024-10-30 07:34:00	0.1972
10	ST6	S6	0.3		1.0000	0.2865	0.9468	2024-10-30 07:38:00	0.2865
11	ST7	S7	0.4		1.0000	0.4029	1.3374	2024-10-30 07:41:00	0.4029
12	ST8	S8	0.5		1.0000	0.5076	1.6891	2024-10-30 07:44:00	0.5076
13	ST8	D	Drift		1.0000	0.4743	1.5772	2024-10-30 07:48:00	0.4743
14	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 07:51:00	0.0046
15	ST9	ICV	ICV		1.0000	0.2571	0.8481	2024-10-30 07:56:00	0.2571
16	ST1	ICB	ICB		1.0000	0.0057	0.0039	2024-10-30 07:58:00	0.0057
17	ST10	CCV	CCV		1.0000	0.2504	0.8253	2024-10-30 08:01:00	0.2504
18	ST11	CCB	CCB		1.0000	0.0053	0.0026	2024-10-30 08:04:00	0.0053
19	ST8	D	Drift		1.0000	0.4871	1.6201	2024-10-30 08:08:00	0.4871
20	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 08:11:00	0.0046
21	ST11	B	MB		1.0000	0.0047	0.0004	2024-10-30 08:16:00	0.0047
22	ST7	LCS	HLCS		1.0000	0.3752	1.2444	2024-10-30 08:18:00	0.3752
23	ST10	LCS	LCS		1.0000	0.2304	0.7582	2024-10-30 08:21:00	0.2304
24	ST2	CCV	CCVL		1.0000	0.0158	0.0377	2024-10-30 08:24:00	0.0158
25	A1	U	480-224869-c-14		1.0000	0.0418	0.1251	2024-10-30 08:28:00	0.0418
26	A2	U	MS 480-224869-c-14		1.0000	0.1245	0.4028	2024-10-30 08:31:00	0.1245
27	A3	U	480-224869-e-1	2ml⇒10ml	5.0000	1.6231	1.0747	2024-10-30 08:34:00	0.3246

DateTime :2024-10-30 13:38:01

11/04/2024

FlowAccessV3 Results Report

Run Name : TABUF20241030A1CN10302024A, Run Database Ref : TABUF20241030A1
DateTime :2024-10-30 06:51:40
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
28	A4	U	480-224869-e-3	2ml=10ml	5.0000	1.7916	1.1879	2024-10-30 08:38:00	0.3583
29	ST10	CCV	CCV		1.0000	0.2301	0.7573	2024-10-30 08:41:00	0.2301
30	ST11	CCB	CCB		1.0000	0.0060	0.0048	2024-10-30 08:45:00	0.0060
31	ST8	D	DRIFT		1.0000	0.5135	1.7090	2024-10-30 08:48:00	0.5135
32	WT	W	WASH		1.0000	0.0046	0.0000	2024-10-30 08:51:00	0.0046
33	A5	U	480-224869-c-15		1.0000	0.0192	0.0492	2024-10-30 08:56:00	0.0192
34	A6	U	DU 480-224869-c-15		1.0000	0.0177	0.0440	2024-10-30 08:58:00	0.0177
35	A7	U	MS 480-224869-c-15		1.0000	0.1053	0.3384	2024-10-30 09:01:00	0.1053
36	A8	U	480-224869-e-7		5.0000	1.1871	0.7819	2024-10-30 09:04:00	0.2374
37	A9	U	480-224869-e-9		2.0000	0.6238	1.0321	2024-10-30 09:08:00	0.3119
38	A10	U	480-224869-e-12		5.0000	1.4498	0.9583	2024-10-30 09:11:00	0.2900
39	A11	U	480-224869-c-16		1.0000	0.2624	0.8657	2024-10-30 09:14:00	0.2624
40	A12	U	480-224869-c-17		1.0000	0.0581	0.1798	2024-10-30 09:18:00	0.0581
41	A13	U	480-224869-e-18		1.0000	0.0197	0.0510	2024-10-30 09:21:00	0.0197
42	A14	U	480-224869-c-25	1ml=10ml	10.0000	10.1414	3.3900	2024-10-30 09:24:00	1.0141
43	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 09:28:00	0.0046
44	ST10	CCV	CCV		1.0000	0.2531	0.8347	2024-10-30 09:32:00	0.2531
45	ST11	CCB	CCB		1.0000	0.0078	0.0110	2024-10-30 09:34:00	0.0078
46	ST8	D	DRIFT		1.0000	0.4851	1.6135	2024-10-30 09:38:00	0.4851
47	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 09:41:00	0.0046
48	ST11	B	MB		1.0000	0.0091	0.0153	2024-10-30 09:46:00	0.0091
49	ST10	LCS	LCS		1.0000	0.2601	0.8582	2024-10-30 09:48:00	0.2601
50	A15	U	480-224869-b-24		1.0000	0.0075	0.0098	2024-10-30 09:51:00	0.0075
51	A16	U	MS 480-224869-b-24		1.0000	0.0929	0.2967	2024-10-30 09:55:00	0.0929
52	A17	U	480-224887-f-1		1.0000	0.0062	0.0054	2024-10-30 09:58:00	0.0062
53	A18	U	480-224896-c-2		1.0000	0.4573	1.5204	2024-10-30 10:01:00	0.4573
54	A19	U	480-224896-c-3		1.0000	0.1081	0.3476	2024-10-30 10:05:00	0.1081

DateTime :2024-10-30 13:38:01

Run Name : TABUF20241030A1CN10302024A, Run Database Ref : TABUF20241030A1
DateTime :2024-10-30 06:51:40
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
55	A20	U	480-224896-c-6		1.0000	0.0048	0.0009	2024-10-30 10:08:00	0.0048
56	A21	U	480-224896-c-7		1.0000	0.0041	-0.0014	2024-10-30 10:11:00	0.0041
57	A22	U	480-224914-d-2		1.0000	0.0044	-0.0004	2024-10-30 10:15:00	0.0044
58	ST10	CCV	CCV		1.0000	0.2443	0.8051	2024-10-30 10:18:00	0.2443
59	ST11	CCB	CCB		1.0000	0.0084	0.0130	2024-10-30 10:21:00	0.0084
60	ST12	D	DRIFT		1.0000	0.5521	1.8385	2024-10-30 10:24:00	0.5521
61	WT	W	WASH		1.0000	0.0046	0.0000	2024-10-30 10:28:00	0.0046
62	A23	U	480-224914-d-3		1.0000	0.0098	0.0176	2024-10-30 10:33:00	0.0098
63	A24	U	DU 480-224914-d-3		1.0000	0.0052	0.0022	2024-10-30 10:34:00	0.0052
64	A25	U	MS 480-224914-d-3		1.0000	0.0917	0.2925	2024-10-30 10:38:00	0.0917
65	A26	U	480-224914-d-4		1.0000	0.0065	0.0064	2024-10-30 10:41:00	0.0065
66	A27	U	480-224914-d-5		1.0000	0.0058	0.0040	2024-10-30 10:44:00	0.0058
67	A28	U	480-224914-d-6		1.0000	0.0051	0.0019	2024-10-30 10:48:00	0.0051
68	A29	U	480-224914-d-7		1.0000	0.0049	0.0011	2024-10-30 10:51:00	0.0049
69	A30	U	480-224914-d-8		1.0000	0.0047	0.0006	2024-10-30 10:54:00	0.0047
70	A31	U	480-224914-d-9		1.0000	0.0046	0.0001	2024-10-30 10:58:00	0.0046
71	A32	U	480-224914-d-11		1.0000	0.0050	0.0015	2024-10-30 11:01:00	0.0050
72	ST13	CCV	CCV		1.0000	0.2360	0.7771	2024-10-30 11:04:00	0.2360
73	ST14	CCB	CCB		1.0000	0.0085	0.0133	2024-10-30 11:08:00	0.0085
74	ST15	D	DRIFT		1.0000	0.5714	1.9034	2024-10-30 11:11:00	0.5714
75	WT	W	WASH		1.0000	0.0046	0.0000	2024-10-30 11:14:00	0.0046
76	ST14	B	MB		1.0000	0.0096	0.0171	2024-10-30 11:19:00	0.0096
77	ST13	LCS	LCS		1.0000	0.2500	0.8242	2024-10-30 11:21:00	0.2500
78	A33	U	480-224914-d-10		1.0000	0.0089	0.0144	2024-10-30 11:25:00	0.0089
79	A34	U	MS 480-224914-d-10		1.0000	0.0906	0.2889	2024-10-30 11:27:00	0.0906
80	A35	U	480-224914-d-12		1.0000	0.0067	0.0072	2024-10-30 11:31:00	0.0067
81	A36	U	480-224914-d-13		1.0000	0.0049	0.0013	2024-10-30 11:34:00	0.0049

FlowAccessV3 Results Report

Run Name : TABUF20241030A1CN10302024A, Run Database Ref : TABUF20241030A1
DateTime :2024-10-30 06:51:40
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
82	A37	U	480-224914-d-14		1.0000	0.0048	0.0008	2024-10-30 11:38:00	0.0048
83	A38	U	480-224914-d-15		1.0000	0.0051	0.0017	2024-10-30 11:41:00	0.0051
84	A39	U	480-224914-d-16		1.0000	0.0050	0.0014	2024-10-30 11:45:00	0.0050
85	A40	U	480-224914-d-17		1.0000	0.0046	0.0002	2024-10-30 11:48:00	0.0046
86	ST13	CCV	CCV		1.0000	0.2349	0.7734	2024-10-30 11:51:00	0.2349
87	ST14	CCB	CCB		1.0000	0.0090	0.0149	2024-10-30 11:55:00	0.0090
88	ST15	D	DRIFT		1.0000	0.5182	1.7245	2024-10-30 11:58:00	0.5182
89	WT	W	WASH		1.0000	0.0046	0.0000	2024-10-30 12:01:00	0.0046
90	A41	U	480-224915-e-1		1.0000	0.0111	0.0221	2024-10-30 12:06:00	0.0111
91	A42	U	DU 480-224915-e-1		1.0000	0.0056	0.0035	2024-10-30 12:08:00	0.0056
92	A43	U	MS 480-224915-e-1		1.0000	0.0861	0.2738	2024-10-30 12:11:00	0.0861
93	A44	U	480-224915-e-2		1.0000	0.0061	0.0052	2024-10-30 12:15:00	0.0061
94	A45	U	480-224915-e-3		1.0000	0.0077	0.0106	2024-10-30 12:18:00	0.0077
95	A46	U	480-224916-g-1		1.0000	0.0053	0.0027	2024-10-30 12:21:00	0.0053
96	A47	U	480-224916-g-2		1.0000	0.0052	0.0021	2024-10-30 12:25:00	0.0052
97	A48	U	480-224917-d-1		1.0000	0.0098	0.0175	2024-10-30 12:28:00	0.0098
98	A49	U	480-224869-c-25	400ml →10ml	25.0000	17.0704	2.2774	2024-10-30 12:31:00	0.6828
99	A50	U	480-224869-c-25	200ml →10ml	50.0000	16.8468	1.1161	2024-10-30 12:35:00	0.3369
100	ST13	CCV	CCV		1.0000	0.2335	0.7688	2024-10-30 12:38:00	0.2335
101	ST14	CCB	CCB		1.0000	0.0066	0.0069	2024-10-30 12:41:00	0.0066
102	ST15	D	DRIFT		1.0000	0.5607	1.8676	2024-10-30 12:45:00	0.5607
103	WT	W	WASH		1.0000	0.0046	0.0000	2024-10-30 12:48:00	0.0046
104	ST14	B	MB		1.0000	0.0068	0.0075	2024-10-30 12:53:00	0.0068
105	ST13	LCS	LCS		1.0000	0.2338	0.7698	2024-10-30 12:54:00	0.2338
106	A51	U	480-224949-d-1	2ml →10ml	5.0000	0.0309	0.0055	2024-10-30 12:58:00	0.0062
107	A52	U	DU 480-224949-d-1		5.0000	0.0279	0.0034	2024-10-30 13:01:00	0.0056
108	A53	U	MS 480-224949-d-1		5.0000	0.4250	0.2701	2024-10-30 13:05:00	0.0850

DateTime :2024-10-30 13:38:01

11/04/2024

FlowAccessV3 Results Report

Run Name : TABUF20241030A1CN10302024A, Run Database Ref : TABUF20241030A1
DateTime :2024-10-30 06:51:40
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
109	A54	U	480-224949-d-1	5ml →10ml	2.0000	0.0202	0.0186	2024-10-30 13:08:00	0.0101
110	A55	U	480-224949-d-1		1.0000	0.0069	0.0079	2024-10-30 13:11:00	0.0069
111	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 13:15:00	0.0046
112	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 13:18:00	0.0046
113	ST13	CCV	CCV		1.0000	0.2410	0.7938	2024-10-30 13:22:00	0.2410
114	ST14	CCB	CCB		1.0000	0.0059	0.0045	2024-10-30 13:25:00	0.0059
115	ST15	D	Drift		1.0000	0.5207	1.7331	2024-10-30 13:28:00	0.5207
116	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 13:31:00	0.0046
117	E	E	EndRun		1.0000	0.0046	0.0000	2024-10-30 13:36:00	0.0046

Historical Data Summary Report

For Batch 730502

10-30-24

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-224914-D-10	GZ-9A-88	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.025	☐	0 - 0.026
480-224914-D-11	MW-9R	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.012	☐	0 - 0.013
480-224914-D-12	MW-9S	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.018	☐	0 - 0.019
480-224914-D-13	PZ-28R	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-14	PZ-28S	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-15	PZ-32I	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-16	PZ-32R	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-17	PZ-32S	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-2	FIELD BLANK 1	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.017	☐	0 - 0.014
480-224914-D-3	FIELD DUP 1 (GW)	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.021	☐	0 - 0.017
480-224914-D-4	FIELD DUP 2 (GW)	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-5	CD-5-82	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.011	☐	0 - 0.012
480-224914-D-6	CD-5A-82	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-7	GZ-10-88	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.011	☐	0 - 0.012
480-224914-D-8	GZ-10A-88	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-9	GZ-9-88	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.021	☐	0 - 0.019
480-224915-E-2	LM-3-SW	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224915-E-3	SW-6	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224916-G-1	LEACHATE	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224916-G-2	DUP 1	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224917-D-1	OFFICE WELL	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.016	☐	0 - 0.017

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730650 Batch Start Date: 10/30/24 21:36 Batch Analyst: Militello, Alex

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	NH3 CCV 02038	NH3_MSSeal 00016		
ICV 480-730650/1		350.1			2 mL	2 mL	# mL			
ICB 480-730650/2		350.1			2 mL	2 mL				
CCV 480-730650/63		350.1			2 mL	2 mL	# mL			
CCB 480-730650/64		350.1			2 mL	2 mL				
MB 480-730650/65		350.1			2 mL	2 mL				
LCS 480-730650/66		350.1			2 mL	2 mL	# mL			
CCV 480-730650/75		350.1			2 mL	2 mL	# mL			
CCB 480-730650/76		350.1			2 mL	2 mL				
CCV 480-730650/77		350.1			2 mL	2 mL	# mL			
CCB 480-730650/78		350.1			2 mL	2 mL				
480-224869-C-10	MW-BCP-13B-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-C-10 MS	MW-BCP-13B-1025 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-C-11	MW-BCP-24A-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-C-13	MW-BCP-19B-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-14	MW-BCP-22A-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-15	MW-BCP-25B-1025 2024	350.1	Water	T	2 mL	2 mL				
CCV 480-730650/85		350.1			2 mL	2 mL	# mL			
CCB 480-730650/86		350.1			2 mL	2 mL				
MB 480-730650/87		350.1			2 mL	2 mL				
LCS 480-730650/88		350.1			2 mL	2 mL	# mL			
480-224869-A-16	MW-BCP-23A-1025 2024	350.1	Water	T	2 mL	2 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730650 Batch Start Date: 10/30/24 21:36 Batch Analyst: Militello, Alex

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	NH3 CCV 02038	NH3_MSSeal 00016		
480-224869-A-16 MS	MW-BCP-23A-1025 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-A-16 MSD	MW-BCP-23A-1025 2024	350.1		T	2 mL	2 mL		40 uL		
CCV 480-730650/92		350.1			2 mL	2 mL	# mL			
CCB 480-730650/93		350.1			2 mL	2 mL				
ICV 480-730650/96		350.1			2 mL	2 mL	# mL			
ICB 480-730650/97		350.1			2 mL	2 mL				
CCV 480-730650/98		350.1			2 mL	2 mL	# mL			
CCB 480-730650/99		350.1			2 mL	2 mL				
MB 480-730650/100		350.1			2 mL	2 mL				
LCS 480-730650/101		350.1			2 mL	2 mL	# mL			
480-224869-C-12	MW-BCP-25A-1025 2024	350.1	Water	T	2 mL	2 mL				
CCV 480-730650/104		350.1			2 mL	2 mL	# mL			
CCB 480-730650/105		350.1			2 mL	2 mL				
ICV 480-730650/108		350.1			2 mL	2 mL	# mL			
ICB 480-730650/109		350.1			2 mL	2 mL				
CCV 480-730650/114		350.1			2 mL	2 mL	# mL			
CCB 480-730650/115		350.1			2 mL	2 mL				
MB 480-730650/116		350.1			2 mL	2 mL				
LCS 480-730650/117		350.1			2 mL	2 mL	# mL			
CCV 480-730650/118		350.1			2 mL	2 mL	# mL			
CCB 480-730650/119		350.1			2 mL	2 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730650 Batch Start Date: 10/30/24 21:36 Batch Analyst: Militello, Alex

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	NH3 CCV 02038	NH3_MSSeal 00016		
480-224869-C-1	MW-BCP-09A-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-2	MW-BCP-09B-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-C-3	MW-BCP-10A-1024 2024	350.1	Water	T	2 mL	2 mL				
CCV 480-730650/129		350.1			2 mL	2 mL	# mL			
CCB 480-730650/130		350.1			2 mL	2 mL				
MB 480-730650/131		350.1			2 mL	2 mL				
LCS 480-730650/132		350.1			2 mL	2 mL	# mL			
480-224869-A-4	MW-BCP-10C-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-4 MS	MW-BCP-10C-1024 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-A-4 MSD	MW-BCP-10C-1024 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-C-5	MW-BCP-11A-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-6	MW-BCP-11B-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-C-7	MW-BCP-12A-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-8	MW-BCP-12B-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-C-9	MW-BCP-13A-1025 2024	350.1	Water	T	2 mL	2 mL				
CCV 480-730650/141		350.1			2 mL	2 mL	# mL			
CCB 480-730650/142		350.1			2 mL	2 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730650 Batch Start Date: 10/30/24 21:36 Batch Analyst: Militello, Alex

Batch Method: 350.1 Batch End Date:

Batch Notes	
Sodium Nitroprusside ID	8094597
Hypochlorite ID	7927334
Sodium Phenolate ID	8140007
EDTA Buffer ID	8094596
Carrier Identification	sulfuric carrier

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730651 Batch Start Date: 10/31/24 00:18 Batch Analyst: Militello, Alex

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	NH3 CCV 02038	NH3_MSSeal 00016		
ICV 480-730651/1		350.1			2 mL	2 mL	# mL			
ICB 480-730651/2		350.1			2 mL	2 mL				
CCV 480-730651/3		350.1			2 mL	2 mL	# mL			
CCB 480-730651/4		350.1			2 mL	2 mL				
MB 480-730651/5		350.1			2 mL	2 mL				
LCS 480-730651/6		350.1			2 mL	2 mL	# mL			
480-224869-A-17	MW-BCP-24B-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-17 MS	MW-BCP-24B-1025 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-A-17 MSD	MW-BCP-24B-1025 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-C-18	MW-BCP-21A-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-20	MW-BCP-20A-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-21	MW-BCP-20B-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-22	MW-BCP-17A-1024 2024	350.1	Water	T	2 mL	2 mL				
CCV 480-730651/14		350.1			2 mL	2 mL	# mL			
CCB 480-730651/15		350.1			2 mL	2 mL				
480-224869-A-23	MW-BCP-21C-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-23 MS	MW-BCP-21C-1025 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-A-24	MW-BCP-17B-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-25	MW-BCP-27A-1025 2024	350.1	Water	T	2 mL	2 mL				
CCV 480-730651/22		350.1			2 mL	2 mL	# mL			
CCB 480-730651/23		350.1			2 mL	2 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730651 Batch Start Date: 10/31/24 00:18 Batch Analyst: Militello, Alex

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	NH3 CCV 02038	NH3_MSSeal 00016		
ICV 480-730651/57		350.1			2 mL	2 mL	# mL			
ICB 480-730651/58		350.1			2 mL	2 mL				
CCV 480-730651/59		350.1			2 mL	2 mL	# mL			
CCB 480-730651/60		350.1			2 mL	2 mL				
MB 480-730651/61		350.1			2 mL	2 mL				
LCS 480-730651/62		350.1			2 mL	2 mL	# mL			
480-224869-C-19	MW-BCP-19A-10252024	350.1	Water	T	2 mL	2 mL				
CCV 480-730651/64		350.1			2 mL	2 mL	# mL			
CCB 480-730651/65		350.1			2 mL	2 mL				

Batch Notes	
Sodium Nitroprusside ID	8094597
Hypochlorite ID	7927334
Sodium Phenolate ID	8140007
EDTA Buffer ID	8094596
Carrier Identification	sulfuric carrier

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730337 Batch Start Date: 10/29/24 07:09 Batch Analyst: Thomas, Christine L

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	WC_CN 0.400 00299	WC_CN CCV/LCS 00521	WC_CN ICV 00296	
ICV 480-730337/15		9012B			10 mL	10 mL			# mL	
ICB 480-730337/16		9012B			10 mL	10 mL				
CCV 480-730337/17		9012B			10 mL	10 mL		# mL		
CCB 480-730337/18		9012B			10 mL	10 mL				
HLCS 480-730337/22		9012B			10 mL	10 mL	# mL			
CCV 480-730337/29		9012B			10 mL	10 mL		# mL		
CCB 480-730337/30		9012B			10 mL	10 mL				
CCV 480-730337/99		9012B			10 mL	10 mL		# mL		
CCB 480-730337/100		9012B			10 mL	10 mL				
MB 480-730337/103		9012B			10 mL	10 mL				
LCS 480-730337/104		9012B			10 mL	10 mL		# mL		
CCV 480-730337/113		9012B			10 mL	10 mL		# mL		
CCB 480-730337/114		9012B			10 mL	10 mL				
480-224869-E-5	MW-BCP-11A-1024 2024	9012B	Water	T	10 mL	10 mL				
480-224869-E-10	MW-BCP-13B-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-E-11	MW-BCP-24A-1025 2024	9012B	Water	T	10 mL	10 mL				
CCV 480-730337/127		9012B			10 mL	10 mL		# mL		
CCB 480-730337/128		9012B			10 mL	10 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730337 Batch Start Date: 10/29/24 07:09 Batch Analyst: Thomas, Christine L

Batch Method: 9012B 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730502 Batch Start Date: 10/30/24 07:05 Batch Analyst: Thomas, Christine L

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	10ppm CN MS 00450	WC_CN 0.400 00300	WC_CN CCV/LCS 00523	WC_CN ICV 00297
ICV 480-730502/15		9012B			10 mL	10 mL				# mL
ICB 480-730502/16		9012B			10 mL	10 mL				
CCV 480-730502/17		9012B			10 mL	10 mL			# mL	
CCB 480-730502/18		9012B			10 mL	10 mL				
MB 480-730502/21		9012B			10 mL	10 mL				
HLCS 480-730502/22		9012B			10 mL	10 mL		# mL		
LCS 480-730502/23		9012B			10 mL	10 mL			# mL	
480-224869-C-14	MW-BCP-22A-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-C-14 MS	MW-BCP-22A-1025 2024	9012B		T	10 mL	10 mL	100 uL			
480-224869-E-1	MW-BCP-09A-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-E-3	MW-BCP-10A-1024 2024	9012B	Water	T	10 mL	10 mL				
CCV 480-730502/29		9012B			10 mL	10 mL			# mL	
CCB 480-730502/30		9012B			10 mL	10 mL				
480-224869-C-15	MW-BCP-25B-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-C-15 DU	MW-BCP-25B-1025 2024	9012B		T	10 mL	10 mL				
480-224869-C-15 MS	MW-BCP-25B-1025 2024	9012B		T	10 mL	10 mL	100 uL			
480-224869-E-7	MW-BCP-12A-1024 2024	9012B	Water	T	10 mL	10 mL				
480-224869-E-9	MW-BCP-13A-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-E-12	MW-BCP-25A-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-C-16	MW-BCP-23A-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-C-17	MW-BCP-24B-1025 2024	9012B	Water	T	10 mL	10 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730502 Batch Start Date: 10/30/24 07:05 Batch Analyst: Thomas, Christine L

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	10ppm CN MS 00450	WC_CN 0.400 00300	WC_CN CCV/LCS 00523	WC_CN ICV 00297
480-224869-E-18	MW-BCP-21A-1025 2024	9012B	Water	T	10 mL	10 mL				
CCV 480-730502/44		9012B			10 mL	10 mL			# mL	
CCB 480-730502/45		9012B			10 mL	10 mL				
MB 480-730502/48		9012B			10 mL	10 mL				
LCS 480-730502/49		9012B			10 mL	10 mL			# mL	
480-224869-B-24	MW-BCP-17B-1024 2024	9012B	Water	T	10 mL	10 mL				
480-224869-B-24 MS	MW-BCP-17B-1024 2024	9012B		T	10 mL	10 mL	100 uL			
CCV 480-730502/58		9012B			10 mL	10 mL			# mL	
CCB 480-730502/59		9012B			10 mL	10 mL				
CCV 480-730502/72		9012B			10 mL	10 mL			# mL	
CCB 480-730502/73		9012B			10 mL	10 mL				
MB 480-730502/76		9012B			10 mL	10 mL				
LCS 480-730502/77		9012B			10 mL	10 mL			# mL	
CCV 480-730502/86		9012B			10 mL	10 mL			# mL	
CCB 480-730502/87		9012B			10 mL	10 mL				
480-224869-C-25	MW-BCP-27A-1025 2024	9012B	Water	T	10 mL	10 mL				
CCV 480-730502/100		9012B			10 mL	10 mL			# mL	
CCB 480-730502/101		9012B			10 mL	10 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730502 Batch Start Date: 10/30/24 07:05 Batch Analyst: Thomas, Christine L

Batch Method: 9012B 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.

Shipping and Receiving Documents

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Austin OARE	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-199914-41224.3
Client Contact: Mr. Austin Oare	Phone: 716-553-5129	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: ~~Page 3 of 18~~ 1 of 3
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): Standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: austin.oare@inventumeng.com / Peter.Zaffram@inventumeng.com	WO #:			
Project Name: Ammonia SCO	Project #: 48028091			
Site: 3875 River Road	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
N - None
D - HNO3
S - H2SO4

Other:

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~82600 - (MOD) TCL Hot OLM04.2~~ Ammonia (350.1)	~~8270D (MOD) TCL~~ VOCs (8260C TCL)	~~9014 - NP - Local Method~~ SVOCs (8270D TCL)	~~7470A - Local Method~~ Total Cyanide (9012B)	~~350.1 - (MOD) Local Method~~ Total Mercury (7470A)	~~8081 - (MOD) Local Method~~	~~7470, 9012B, 9030B, Moisture~~	Total Number of containers
			Preservation Code:				A	B	N	D	S	N	N	
MW-BCP-09A-10252024	10/25/24	16:30	G	Water			X	X	X	X	X			
MW-BCP-09B-10242024	10/24/24	2:25	G	Water			X							
MW-BCP-10A-10242024	10/24/24	10:40	G	Water			X	X	X	X	X			
MW-BCP-10C-10242024	10/24/24	10:55	G	Water			X							
MW-BCP-11A-10242024	10/24/24	11:35	G	Water			X	X	X	X	X			
MW-BCP-11B-10242024	10/24/24	2:00	G	Water			X							
MW-BCP-12A-10242024	10/24/24	3:15	G	Water			X	X	X	X	X			
MW-BCP-12B-10242024	10/24/24	3:10	G	Water			X							
MW-BCP-13A-10252024	10/25/24	8:50	G	Water			X	X	X	X	X			
MW-BCP-13B-10252024	10/25/24	9:10	G	Water			X	X	X	X	X			
MW-BCP-24A-10252024	10/25/24	9:35	G	Water			X	X	X	X	X			

480-224869 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 10/25/24 1630	Company: TW	Received by:	Date/Time: 10/25/24 1630	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.4 3.7 IR #5 ICE

Ver: 05/06/2024

11/04/2024

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Austin Oare	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-199914-41224.4
Client Contact: Mr. Austin Oare	Phone: (716) 553-5129	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: NY	Page: ~~4 of 10~~ 2 of 3
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: austin.oare@inventumeng.com	WO #:			
Project Name: Ammonia SCO	Project #: 48028091			
Site: 3875 River Rd.	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
N - None
D - HNO3
S - H2SO4

Other:

John.Black@Inventumeng.com
Peter.Zaffram@inventumeng.com

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~8260C - (MOD) TCL list OLM04.2~~	Ammonia (350.1)	~~9012B_NP - Local Method~~	VOCs (8260C TCL)	~~8270D - (MOD) TCL SVOA - OLM04.2~~	SVOCs (8270D TCL)	~~7420A - Local Method~~	Total Cyanide (9012B)	~~350.1 - (MOD) Local Method~~	Total Mercury (7470A)	~~7474B_9012B_9045D_Moisture~~	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	B	N	D	S	N	N						
MW-BCP-25A-10252024	10/25/24	2:05	G	Water			X	X	X	X	X								
MW-BCP-19B-10252024	10/25/24	9:55	G	Water			X	X	X		X								
MW-BCP-22A-10252024	10/25/24	11:30	G	Water			X			X	X								
MW-BCP-25B-10252024	10/25/24	2:15	G	Water			X			X	X								
MW-BCP-23A-10252024	10/25/24	11:45	G	Water			X			X	X								
MW-BCP-24B-10252024	10/25/24	1:20	G	Water			X			X	X								
MW-BCP-21A-10252024	10/25/24	11:00	G	Water			X	X	X	X	X								
MW-BCP-19A-10252024	10/25/24	9:40	G	Water			X	X	X		X								
MW-BCP-20A-10252024	10/25/24	10:20	G	Water			X												
MW-BCP-20B-10252024	10/25/24	10:35	G	Water			X												
MW-BCP-17A-10252024	10/24/24	3:00	G	Water			X												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/25/24 1630	IW			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/25/24 1630	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

11/04/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Austin Oare	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-199914-41224.5
Client Contact: Mr. Austin Oare	Phone: (716) 553-5129	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: NY	Page: Page ~~5 of 10~~ 3 of 3
Company: Inventum Engineering LLC	PWSID:			Job #:

Address: 441 Carlisle Drive Suite C	Due Date Requested:	Analysis Requested	Preservation Codes: A - HCL; B - NaOH; N - None; D - HNO3; S - H2SO4
City: Herndon	TAT Requested (days): Standard		
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No		
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required		
Email: austin.oare@inventumeng.com	WO #:		
Project Name: Ammonia SCO	Project #: 48028091		
Site: 3875 River Rd.	SSOW#:		Other:

John.Black@Inventum eng.com
Peter.Zaffram@ Inventumeng.com

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~8260B (MOD) TCL list OLM04.2~~ Ammonia (350.1)	~~9012B_NP Local Method~~ TOC's (9260 TCL)	~~8270D (MOD) TCL SVOA_OLM04.2~~ SVOC's (8270 TCL)	~~7470A Local Method~~ Total Cyanide (9012 B)	~~350.1 (MOD) Local Method~~ Total Mercury (7470A)	~~350.1 (MOD) Local Method~~	~~7474B, 90125, 90450~~ Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	B	N	D	S	N	N		
MW-BCP-21C-10252024	10/25/24	11:20	G	Water			X								
MW-BCP-17B-10242024	10/24/24	8:40	G	Water			X			X					
MW-BCP-27A-10252024	10/24/24	2:30	G	Water			X			X	X				
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:		Date/Time: 10/25/24 1695	Company: Inv	Received by:		Date/Time: 10/25/24 1630	Company: EA
Relinquished by:		Date/Time:	Company	Received by:		Date/Time:	Company
Relinquished by:		Date/Time:	Company	Received by:		Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 480-224869-1

Login Number: 224869
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

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	4.4, 3.7 IR#SC ice
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	Inventum Engineering
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Appendix D – Pre-Characterization Soil Laboratory Reports

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Austin Oare
Inventum Engineering LLC
441 Carlisle Drive
Suite C
Herndon, Virginia 20170

Generated 11/1/2024 10:46:03 AM

JOB DESCRIPTION

Ammonia SCO

JOB NUMBER

480-224585-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

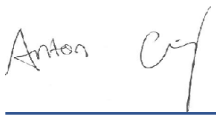
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

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Definitions/Glossary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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 ID: 480-224585-1 Eurofins Buffalo

Job Narrative
480-224585-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/18/2024 4:14 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 time was 5.0°C.

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

General Chemistry
Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: SD-MW-BCP-01A-10172024 (480-224585-1), SD-MW-BCP-21A-10172024 (480-224585-2), SD-MW-BCP-06A-10172024 (480-224585-3), SD-MW-BCP-22A-10172024 (480-224585-4), SD-MW-BCP-23A-10172024 (480-224585-5), SD-MW-BCP-27A-10172024 (480-224585-6), SD-MW-BCP-13A-10172024 (480-224585-7), SD-MW-BCP-24A-10172024 (480-224585-8), SD-MW-BCP-19A-10172024 (480-224585-9), SD-MW-BCP-25A-10182024 (480-224585-10), SD-MW-BCP-20A-10182024 (480-224585-11), SD-MW-BCP-17A-10182024 (480-224585-12), SD-MW-BCP-04A-1012024 (480-224585-13), SD-WAL-10182024 (480-224585-14), SD-THINKSAFETY-10182024 (480-224585-15), SD-MW-BCP-08A-10182024 (480-224585-16), SD-MW-BCP-09-10182024 (480-224585-17), SD-MW-BCP-11A-10182024 (480-224585-18), SD-BATTERYSUMP-10182024 (480-224585-19) and SD-MW-BCP-12A-10182024 (480-224585-20).

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

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-01A-10172024 — Lab Sample ID: 480-224585-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.28	F1 F2	0.023	0.0054	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.65	J	0.95	0.46	mg/Kg	1	☼	9012B	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.3	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-21A-10172024 — Lab Sample ID: 480-224585-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.088		0.024	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	8.4	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.8	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	7.1		3.8	1.9	mg/Kg	1		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-06A-10172024 — Lab Sample ID: 480-224585-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0051	J	0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.7	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-22A-10172024 — Lab Sample ID: 480-224585-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.5	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-23A-10172024 — Lab Sample ID: 480-224585-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.11		0.028	0.0064	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.3	J	1.4	0.66	mg/Kg	1	☼	9012B	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-27A-10172024 — Lab Sample ID: 480-224585-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.9		0.031	0.0070	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	265		73.5	35.5	mg/Kg	50	☼	9012B	Total/NA
pH	6.2	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	6.8		3.5	1.7	mg/Kg	1		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-13A-10172024 — Lab Sample ID: 480-224585-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.074		0.025	0.0057	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.97	J	1.2	0.58	mg/Kg	1	☼	9012B	Total/NA
pH	6.2	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-24A-10172024 — Lab Sample ID: 480-224585-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.081		0.027	0.0061	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.7		1.2	0.59	mg/Kg	1	☼	9012B	Total/NA
pH	7.5	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	4.4		3.8	1.9	mg/Kg	1		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-19A-10172024 — Lab Sample ID: 480-224585-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.28		0.024	0.0054	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	4.0		1.1	0.53	mg/Kg	1	☼	9012B	Total/NA
pH	7.6	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	7.4		3.8	1.9	mg/Kg	1		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-25A-10182024 — Lab Sample ID: 480-224585-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.16		0.023	0.0054	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.7		1.1	0.56	mg/Kg	1	☼	9012B	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	0.0011		0.00037	0.00018	mg/Kg	1		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-20A-10182024 — Lab Sample ID: 480-224585-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.10		0.023	0.0052	mg/Kg	1	☼	7471B	Total/NA
pH	8.2	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-17A-10182024 — Lab Sample ID: 480-224585-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.021	J	0.024	0.0055	mg/Kg	1	☼	7471B	Total/NA
pH	6.0	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.8	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-04A-1012024 — Lab Sample ID: 480-224585-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.084		0.026	0.0060	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.91	J	1.3	0.61	mg/Kg	1	☼	9012B	Total/NA
pH	7.8	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.7	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-WAL-10182024 — Lab Sample ID: 480-224585-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.19		0.025	0.0058	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.1		1.1	0.55	mg/Kg	1	☼	9012B	Total/NA
pH	8.6	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.7	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-THINKSAFETY-10182024 — Lab Sample ID: 480-224585-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	31.5		2.4	0.54	mg/Kg	100	☼	7471B	Total/NA
Cyanide, Total	3.4		1.1	0.54	mg/Kg	1	☼	9012B	Total/NA
pH	8.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-08A-10182024 — Lab Sample ID: 480-224585-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.33		0.029	0.0066	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.9		1.3	0.65	mg/Kg	1	☼	9012B	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-09-10182024 — Lab Sample ID: 480-224585-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.29		0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.0		1.1	0.51	mg/Kg	1	☼	9012B	Total/NA
pH	6.5	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-11A-10182024 — Lab Sample ID: 480-224585-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.11		0.025	0.0057	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.93	J	1.2	0.58	mg/Kg	1	☼	9012B	Total/NA
pH	8.4	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.7	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-BATTERYSUMP-10182024 — Lab Sample ID: 480-224585-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.50		0.025	0.0058	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	4.8		1.1	0.51	mg/Kg	1	☼	9012B	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-12A-10182024 — Lab Sample ID: 480-224585-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.45		0.024	0.0056	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.5		1.1	0.53	mg/Kg	1	☼	9012B	Total/NA
pH	8.5	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SD-MW-BCP-01A-10172024

Lab Sample ID: 480-224585-1
Date Collected: 10/17/24 09:10
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.7	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.3	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.9	1.9	mg/Kg			10/30/24 13:41	1

Client Sample ID: SD-MW-BCP-01A-10172024

Lab Sample ID: 480-224585-1
Date Collected: 10/17/24 09:10
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 88.3

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28	F1 F2	0.023	0.0054	mg/Kg	☼	10/22/24 10:00	10/22/24 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.65	J	0.95	0.46	mg/Kg	☼	10/21/24 16:15	10/22/24 11:14	1

Client Sample ID: SD-MW-BCP-21A-10172024

Lab Sample ID: 480-224585-2
Date Collected: 10/17/24 09:55
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.4	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.8	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	7.1		3.8	1.9	mg/Kg			10/30/24 13:41	1

Client Sample ID: SD-MW-BCP-21A-10172024

Lab Sample ID: 480-224585-2
Date Collected: 10/17/24 09:55
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 82.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088		0.024	0.0056	mg/Kg	☼	10/22/24 10:00	10/22/24 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.52	mg/Kg	☼	10/21/24 16:15	10/22/24 11:16	1

Client Sample ID: SD-MW-BCP-06A-10172024

Lab Sample ID: 480-224585-3
Date Collected: 10/17/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.7	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

Client Sample ID: SD-MW-BCP-06A-10172024

Lab Sample ID: 480-224585-3
Date Collected: 10/17/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.9	1.9	mg/Kg			10/30/24 13:42	1

Client Sample ID: SD-MW-BCP-06A-10172024

Lab Sample ID: 480-224585-3
Date Collected: 10/17/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 85.5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0051	J	0.022	0.0051	mg/Kg	☼	10/22/24 10:00	10/22/24 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.54	mg/Kg	☼	10/21/24 16:15	10/22/24 12:38	1

Client Sample ID: SD-MW-BCP-22A-10172024

Lab Sample ID: 480-224585-4
Date Collected: 10/17/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.7	1.9	mg/Kg			10/30/24 13:43	1

Client Sample ID: SD-MW-BCP-22A-10172024

Lab Sample ID: 480-224585-4
Date Collected: 10/17/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 67.0

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030	0.0068	mg/Kg	☼	10/22/24 10:00	10/22/24 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.3	0.61	mg/Kg	☼	10/21/24 16:15	10/22/24 11:17	1

Client Sample ID: SD-MW-BCP-23A-10172024

Lab Sample ID: 480-224585-5
Date Collected: 10/17/24 11:30
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.7	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	18.1	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.00038	0.00019	mg/Kg			10/30/24 13:49	1

Client Sample ID: SD-MW-BCP-23A-10172024

Lab Sample ID: 480-224585-5
Date Collected: 10/17/24 11:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 70.6

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.028	0.0064	mg/Kg	☼	10/22/24 10:00	10/22/24 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	1.3	J	1.4	0.66	mg/Kg	☼	10/21/24 16:15	10/22/24 11:17	1

Client Sample ID: SD-MW-BCP-27A-10172024

Lab Sample ID: 480-224585-6
Date Collected: 10/17/24 13:25
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.2	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	18.0	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	6.8		3.5	1.7	mg/Kg			10/30/24 13:51	1

Client Sample ID: SD-MW-BCP-27A-10172024

Lab Sample ID: 480-224585-6
Date Collected: 10/17/24 13:25
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 62.8

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.9		0.031	0.0070	mg/Kg	☼	10/22/24 10:00	10/22/24 11:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	265		73.5	35.5	mg/Kg	☼	10/21/24 16:15	10/22/24 11:18	50

Client Sample ID: SD-MW-BCP-13A-10172024

Lab Sample ID: 480-224585-7
Date Collected: 10/17/24 14:00
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.2	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.00038	0.00019	mg/Kg			10/30/24 13:51	1

Client Sample ID: SD-MW-BCP-13A-10172024

Lab Sample ID: 480-224585-7
Date Collected: 10/17/24 14:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 81.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074		0.025	0.0057	mg/Kg	☼	10/22/24 10:00	10/22/24 11:49	1

Client Sample ID: SD-MW-BCP-13A-10172024

Lab Sample ID: 480-224585-7
Date Collected: 10/17/24 14:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 81.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.97	J	1.2	0.58	mg/Kg	☼	10/21/24 16:15	10/22/24 11:20	1

Client Sample ID: SD-MW-BCP-24A-10172024

Lab Sample ID: 480-224585-8
Date Collected: 10/17/24 14:30
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	18.0	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	4.4		3.8	1.9	mg/Kg			10/31/24 00:52	1

Client Sample ID: SD-MW-BCP-24A-10172024

Lab Sample ID: 480-224585-8
Date Collected: 10/17/24 14:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 73.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.081		0.027	0.0061	mg/Kg	☼	10/22/24 10:00	10/22/24 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	2.7		1.2	0.59	mg/Kg	☼	10/21/24 16:15	10/22/24 11:21	1

Client Sample ID: SD-MW-BCP-19A-10172024

Lab Sample ID: 480-224585-9
Date Collected: 10/17/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.6	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	7.4		3.8	1.9	mg/Kg			10/30/24 13:53	1

Client Sample ID: SD-MW-BCP-19A-10172024

Lab Sample ID: 480-224585-9
Date Collected: 10/17/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 86.6

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.024	0.0054	mg/Kg	☼	10/22/24 10:00	10/22/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	4.0		1.1	0.53	mg/Kg	☼	10/21/24 16:15	10/21/24 20:17	1

Client Sample ID: SD-MW-BCP-25A-10182024
Lab Sample ID: 480-224585-10
Date Collected: 10/18/24 09:00
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.7	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	18.6	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.0011		0.00037	0.00018	mg/Kg			10/29/24 23:44	1

Client Sample ID: SD-MW-BCP-25A-10182024
Lab Sample ID: 480-224585-10
Date Collected: 10/18/24 09:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 85.5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.023	0.0054	mg/Kg	☼	10/22/24 10:00	10/22/24 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	1.7		1.1	0.56	mg/Kg	☼	10/21/24 16:15	10/21/24 20:17	1

Client Sample ID: SD-MW-BCP-20A-10182024
Lab Sample ID: 480-224585-11
Date Collected: 10/18/24 09:50
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.2	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.9	1.9	mg/Kg			10/29/24 23:45	1

Client Sample ID: SD-MW-BCP-20A-10182024
Lab Sample ID: 480-224585-11
Date Collected: 10/18/24 09:50
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 87.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.023	0.0052	mg/Kg	☼	10/22/24 10:00	10/22/24 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	F1	1.1	0.51	mg/Kg	☼	10/21/24 16:15	10/21/24 20:18	1

Client Sample ID: SD-MW-BCP-17A-10182024
Lab Sample ID: 480-224585-12
Date Collected: 10/18/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.0	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.8	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

Client Sample ID: SD-MW-BCP-17A-10182024
Lab Sample ID: 480-224585-12
Date Collected: 10/18/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.8	1.9	mg/Kg			10/29/24 23:46	1

Client Sample ID: SD-MW-BCP-17A-10182024
Lab Sample ID: 480-224585-12
Date Collected: 10/18/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 86.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	J	0.024	0.0055	mg/Kg	☼	10/22/24 10:00	10/22/24 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.55	mg/Kg	☼	10/23/24 13:58	10/23/24 19:45	1

Client Sample ID: SD-MW-BCP-04A-1012024
Lab Sample ID: 480-224585-13
Date Collected: 10/18/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.8	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.7	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		4.0	2.0	mg/Kg			10/29/24 23:46	1

Client Sample ID: SD-MW-BCP-04A-1012024
Lab Sample ID: 480-224585-13
Date Collected: 10/18/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 75.3

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.084		0.026	0.0060	mg/Kg	☼	10/22/24 10:00	10/22/24 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.91	J	1.3	0.61	mg/Kg	☼	10/23/24 13:58	10/23/24 19:45	1

Client Sample ID: SD-WAL-10182024
Lab Sample ID: 480-224585-14
Date Collected: 10/18/24 11:10
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.6	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.7	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.8	1.9	mg/Kg			10/29/24 23:48	1

Client Sample ID: SD-WAL-10182024

Lab Sample ID: 480-224585-14
Date Collected: 10/18/24 11:10
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 82.4

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.025	0.0058	mg/Kg	☼	10/22/24 10:00	10/22/24 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	2.1		1.1	0.55	mg/Kg	☼	10/23/24 13:58	10/23/24 19:45	1

Client Sample ID: SD-THINKSAFETY-10182024

Lab Sample ID: 480-224585-15
Date Collected: 10/18/24 11:25
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.7	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.6	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.6	1.8	mg/Kg			10/30/24 13:56	1

Client Sample ID: SD-THINKSAFETY-10182024

Lab Sample ID: 480-224585-15
Date Collected: 10/18/24 11:25
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 82.4

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	31.5		2.4	0.54	mg/Kg	☼	10/22/24 10:00	10/22/24 13:15	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	3.4		1.1	0.54	mg/Kg	☼	10/23/24 13:58	10/23/24 19:46	1

Client Sample ID: SD-MW-BCP-08A-10182024

Lab Sample ID: 480-224585-16
Date Collected: 10/18/24 11:50
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.6	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		4.0	2.0	mg/Kg			10/30/24 13:56	1

Client Sample ID: SD-MW-BCP-08A-10182024

Lab Sample ID: 480-224585-16
Date Collected: 10/18/24 11:50
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 72.3

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.33		0.029	0.0066	mg/Kg	☼	10/22/24 10:00	10/22/24 12:06	1

Client Sample ID: SD-MW-BCP-08A-10182024

Lab Sample ID: 480-224585-16
Date Collected: 10/18/24 11:50
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 72.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	1.9		1.3	0.65	mg/Kg	☼	10/23/24 13:58	10/23/24 19:46	1

Client Sample ID: SD-MW-BCP-09-10182024

Lab Sample ID: 480-224585-17
Date Collected: 10/18/24 13:15
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.5	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.6	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.6	1.8	mg/Kg			10/30/24 13:58	1

Client Sample ID: SD-MW-BCP-09-10182024

Lab Sample ID: 480-224585-17
Date Collected: 10/18/24 13:15
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 90.1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.023	0.0053	mg/Kg	☼	10/22/24 10:00	10/22/24 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	2.0		1.1	0.51	mg/Kg	☼	10/23/24 13:58	10/23/24 19:49	1

Client Sample ID: SD-MW-BCP-11A-10182024

Lab Sample ID: 480-224585-18
Date Collected: 10/18/24 13:40
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.4	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.7	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.9	2.0	mg/Kg			10/30/24 13:59	1

Client Sample ID: SD-MW-BCP-11A-10182024

Lab Sample ID: 480-224585-18
Date Collected: 10/18/24 13:40
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 79.5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.025	0.0057	mg/Kg	☼	10/22/24 10:00	10/22/24 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.93	J	1.2	0.58	mg/Kg	☼	10/23/24 13:58	10/23/24 19:49	1

Client Sample ID: SD-BATTERYSUMP-10182024
Lab Sample ID: 480-224585-19
Date Collected: 10/18/24 14:10
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.8	1.9	mg/Kg			10/30/24 13:59	1

Client Sample ID: SD-BATTERYSUMP-10182024
Lab Sample ID: 480-224585-19
Date Collected: 10/18/24 14:10
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 81.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50		0.025	0.0058	mg/Kg	☼	10/22/24 10:00	10/22/24 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	4.8		1.1	0.51	mg/Kg	☼	10/23/24 13:58	10/23/24 19:49	1

Client Sample ID: SD-MW-BCP-12A-10182024
Lab Sample ID: 480-224585-20
Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.5	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.9	1.9	mg/Kg			10/30/24 14:03	1

Client Sample ID: SD-MW-BCP-12A-10182024
Lab Sample ID: 480-224585-20
Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 85.5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.45		0.024	0.0056	mg/Kg	☼	10/22/24 10:00	10/22/24 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	2.5		1.1	0.53	mg/Kg	☼	10/23/24 13:58	10/23/24 19:50	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-729201/1-A
Matrix: Solid
Analysis Batch: 729316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0047	mg/Kg		10/22/24 10:00	10/22/24 11:32	1

Lab Sample ID: LCSSRM 480-729201/2-A ^10
Matrix: Solid
Analysis Batch: 729316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729201

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	11.9	10.63		mg/Kg		89.3	59.8 - 139.5

Lab Sample ID: 480-224585-1 MS
Matrix: Solid
Analysis Batch: 729316

Client Sample ID: SD-MW-BCP-01A-10172024
Prep Type: Total/NA
Prep Batch: 729201

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.28	F1 F2	0.365	0.492	F1	mg/Kg	☼	58	80 - 120

Lab Sample ID: 480-224585-1 MSD
Matrix: Solid
Analysis Batch: 729316

Client Sample ID: SD-MW-BCP-01A-10172024
Prep Type: Total/NA
Prep Batch: 729201

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.28	F1 F2	0.386	1.11	F1 F2	mg/Kg	☼	215	80 - 120	77	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-730524/24
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg			10/29/24 23:16	1

Lab Sample ID: MB 480-730524/66
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg			10/30/24 00:58	1

Lab Sample ID: MB 480-730524/81
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg			10/30/24 13:46	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-730524/25
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.944		mg/Kg		94	90 - 110

Lab Sample ID: LCS 480-730524/67
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.934		mg/Kg		93	90 - 110

Lab Sample ID: LCS 480-730524/82
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.944		mg/Kg		94	90 - 110

Lab Sample ID: MB 480-730651/5
Matrix: Solid
Analysis Batch: 730651

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg			10/31/24 00:22	1

Lab Sample ID: LCS 480-730651/6
Matrix: Solid
Analysis Batch: 730651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.947		mg/Kg		95	90 - 110

Lab Sample ID: MB 480-730363/1-A
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Method Blank
Prep Type: ASTM Leach

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg			10/30/24 13:39	1

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-729210/1-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.93	0.45	mg/Kg		10/21/24 14:55	10/21/24 19:37	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-729210/3-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.419		mg/Kg		105	29 - 122

Lab Sample ID: LCS 480-729210/4-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.249		mg/Kg		100	29 - 122

Lab Sample ID: MB 480-729215/1-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.0	0.48	mg/Kg		10/21/24 16:15	10/22/24 11:05	1

Lab Sample ID: LCSSRM 480-729215/2-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729215

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	128.2		mg/Kg		85.5	38.9 - 138.7

Lab Sample ID: 480-224585-11 MS
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: SD-MW-BCP-20A-10182024
Prep Type: Total/NA
Prep Batch: 729215

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND	F1	1.30	1.03	J F1	mg/Kg	☼	79	85 - 115

Lab Sample ID: MB 480-729538/1-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.94	0.46	mg/Kg		10/23/24 13:58	10/23/24 19:33	1

Lab Sample ID: LCS 480-729538/3-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.408		mg/Kg		102	29 - 122

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-729538/4-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.261		mg/Kg		104	29 - 122

Lab Sample ID: LCSSRM 480-729538/2-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	115.3		mg/Kg		76.8	38.9 - 138.7

Lab Sample ID: 480-224585-20 MS
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: SD-MW-BCP-12A-10182024
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.5		1.30	3.71		mg/Kg	☼	91	85 - 115

Method: 9045D - pH

Lab Sample ID: LCS 480-729375/23
Matrix: Solid
Analysis Batch: 729375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: 480-224585-1 DU
Matrix: Solid
Analysis Batch: 729375

Client Sample ID: SD-MW-BCP-01A-10172024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.7	HF	7.8		SU		1	5
Temperature	17.3	HF	17.6		Degrees C		2	10

QC Association Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Metals

Prep Batch: 729201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	Total/NA	Solid	7471B	
480-224585-2	SD-MW-BCP-21A-10172024	Total/NA	Solid	7471B	
480-224585-3	SD-MW-BCP-06A-10172024	Total/NA	Solid	7471B	
480-224585-4	SD-MW-BCP-22A-10172024	Total/NA	Solid	7471B	
480-224585-5	SD-MW-BCP-23A-10172024	Total/NA	Solid	7471B	
480-224585-6	SD-MW-BCP-27A-10172024	Total/NA	Solid	7471B	
480-224585-7	SD-MW-BCP-13A-10172024	Total/NA	Solid	7471B	
480-224585-8	SD-MW-BCP-24A-10172024	Total/NA	Solid	7471B	
480-224585-9	SD-MW-BCP-19A-10172024	Total/NA	Solid	7471B	
480-224585-10	SD-MW-BCP-25A-10182024	Total/NA	Solid	7471B	
480-224585-11	SD-MW-BCP-20A-10182024	Total/NA	Solid	7471B	
480-224585-12	SD-MW-BCP-17A-10182024	Total/NA	Solid	7471B	
480-224585-13	SD-MW-BCP-04A-1012024	Total/NA	Solid	7471B	
480-224585-14	SD-WAL-10182024	Total/NA	Solid	7471B	
480-224585-15	SD-THINKSAFETY-10182024	Total/NA	Solid	7471B	
480-224585-16	SD-MW-BCP-08A-10182024	Total/NA	Solid	7471B	
480-224585-17	SD-MW-BCP-09-10182024	Total/NA	Solid	7471B	
480-224585-18	SD-MW-BCP-11A-10182024	Total/NA	Solid	7471B	
480-224585-19	SD-BATTERYSUMP-10182024	Total/NA	Solid	7471B	
480-224585-20	SD-MW-BCP-12A-10182024	Total/NA	Solid	7471B	
MB 480-729201/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-729201/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-224585-1 MS	SD-MW-BCP-01A-10172024	Total/NA	Solid	7471B	
480-224585-1 MSD	SD-MW-BCP-01A-10172024	Total/NA	Solid	7471B	

Analysis Batch: 729316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	Total/NA	Solid	7471B	729201
480-224585-2	SD-MW-BCP-21A-10172024	Total/NA	Solid	7471B	729201
480-224585-3	SD-MW-BCP-06A-10172024	Total/NA	Solid	7471B	729201
480-224585-4	SD-MW-BCP-22A-10172024	Total/NA	Solid	7471B	729201
480-224585-5	SD-MW-BCP-23A-10172024	Total/NA	Solid	7471B	729201
480-224585-6	SD-MW-BCP-27A-10172024	Total/NA	Solid	7471B	729201
480-224585-7	SD-MW-BCP-13A-10172024	Total/NA	Solid	7471B	729201
480-224585-8	SD-MW-BCP-24A-10172024	Total/NA	Solid	7471B	729201
480-224585-9	SD-MW-BCP-19A-10172024	Total/NA	Solid	7471B	729201
480-224585-10	SD-MW-BCP-25A-10182024	Total/NA	Solid	7471B	729201
480-224585-11	SD-MW-BCP-20A-10182024	Total/NA	Solid	7471B	729201
480-224585-12	SD-MW-BCP-17A-10182024	Total/NA	Solid	7471B	729201
480-224585-13	SD-MW-BCP-04A-1012024	Total/NA	Solid	7471B	729201
480-224585-14	SD-WAL-10182024	Total/NA	Solid	7471B	729201
480-224585-15	SD-THINKSAFETY-10182024	Total/NA	Solid	7471B	729201
480-224585-16	SD-MW-BCP-08A-10182024	Total/NA	Solid	7471B	729201
480-224585-17	SD-MW-BCP-09-10182024	Total/NA	Solid	7471B	729201
480-224585-18	SD-MW-BCP-11A-10182024	Total/NA	Solid	7471B	729201
480-224585-19	SD-BATTERYSUMP-10182024	Total/NA	Solid	7471B	729201
480-224585-20	SD-MW-BCP-12A-10182024	Total/NA	Solid	7471B	729201
MB 480-729201/1-A	Method Blank	Total/NA	Solid	7471B	729201
LCSSRM 480-729201/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	729201
480-224585-1 MS	SD-MW-BCP-01A-10172024	Total/NA	Solid	7471B	729201
480-224585-1 MSD	SD-MW-BCP-01A-10172024	Total/NA	Solid	7471B	729201

General Chemistry

Analysis Batch: 729203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	Total/NA	Solid	Moisture	
480-224585-2	SD-MW-BCP-21A-10172024	Total/NA	Solid	Moisture	
480-224585-3	SD-MW-BCP-06A-10172024	Total/NA	Solid	Moisture	
480-224585-4	SD-MW-BCP-22A-10172024	Total/NA	Solid	Moisture	
480-224585-5	SD-MW-BCP-23A-10172024	Total/NA	Solid	Moisture	
480-224585-6	SD-MW-BCP-27A-10172024	Total/NA	Solid	Moisture	
480-224585-7	SD-MW-BCP-13A-10172024	Total/NA	Solid	Moisture	
480-224585-8	SD-MW-BCP-24A-10172024	Total/NA	Solid	Moisture	
480-224585-9	SD-MW-BCP-19A-10172024	Total/NA	Solid	Moisture	
480-224585-10	SD-MW-BCP-25A-10182024	Total/NA	Solid	Moisture	
480-224585-11	SD-MW-BCP-20A-10182024	Total/NA	Solid	Moisture	
480-224585-12	SD-MW-BCP-17A-10182024	Total/NA	Solid	Moisture	
480-224585-13	SD-MW-BCP-04A-1012024	Total/NA	Solid	Moisture	
480-224585-14	SD-WAL-10182024	Total/NA	Solid	Moisture	
480-224585-15	SD-THINKSAFETY-10182024	Total/NA	Solid	Moisture	
480-224585-16	SD-MW-BCP-08A-10182024	Total/NA	Solid	Moisture	
480-224585-17	SD-MW-BCP-09-10182024	Total/NA	Solid	Moisture	
480-224585-18	SD-MW-BCP-11A-10182024	Total/NA	Solid	Moisture	
480-224585-19	SD-BATTERYSUMP-10182024	Total/NA	Solid	Moisture	
480-224585-20	SD-MW-BCP-12A-10182024	Total/NA	Solid	Moisture	

Prep Batch: 729210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-729210/1-A	Method Blank	Total/NA	Solid	Distill/CN	
LCS 480-729210/3-A	Lab Control Sample	Total/NA	Solid	Distill/CN	
LCS 480-729210/4-A	Lab Control Sample	Total/NA	Solid	Distill/CN	

Prep Batch: 729215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	Total/NA	Solid	9012B	
480-224585-2	SD-MW-BCP-21A-10172024	Total/NA	Solid	9012B	
480-224585-3	SD-MW-BCP-06A-10172024	Total/NA	Solid	9012B	
480-224585-4	SD-MW-BCP-22A-10172024	Total/NA	Solid	9012B	
480-224585-5	SD-MW-BCP-23A-10172024	Total/NA	Solid	9012B	
480-224585-6	SD-MW-BCP-27A-10172024	Total/NA	Solid	9012B	
480-224585-7	SD-MW-BCP-13A-10172024	Total/NA	Solid	9012B	
480-224585-8	SD-MW-BCP-24A-10172024	Total/NA	Solid	9012B	
480-224585-9	SD-MW-BCP-19A-10172024	Total/NA	Solid	9012B	
480-224585-10	SD-MW-BCP-25A-10182024	Total/NA	Solid	9012B	
480-224585-11	SD-MW-BCP-20A-10182024	Total/NA	Solid	9012B	
MB 480-729215/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-729215/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-224585-11 MS	SD-MW-BCP-20A-10182024	Total/NA	Solid	9012B	

Analysis Batch: 729299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	Total/NA	Solid	9012B	729215
480-224585-2	SD-MW-BCP-21A-10172024	Total/NA	Solid	9012B	729215
480-224585-3	SD-MW-BCP-06A-10172024	Total/NA	Solid	9012B	729215
480-224585-4	SD-MW-BCP-22A-10172024	Total/NA	Solid	9012B	729215
480-224585-5	SD-MW-BCP-23A-10172024	Total/NA	Solid	9012B	729215

General Chemistry (Continued)

Analysis Batch: 729299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-6	SD-MW-BCP-27A-10172024	Total/NA	Solid	9012B	729215
480-224585-7	SD-MW-BCP-13A-10172024	Total/NA	Solid	9012B	729215
480-224585-8	SD-MW-BCP-24A-10172024	Total/NA	Solid	9012B	729215
480-224585-9	SD-MW-BCP-19A-10172024	Total/NA	Solid	9012B	729215
480-224585-10	SD-MW-BCP-25A-10182024	Total/NA	Solid	9012B	729215
480-224585-11	SD-MW-BCP-20A-10182024	Total/NA	Solid	9012B	729215
MB 480-729210/1-A	Method Blank	Total/NA	Solid	9012B	729210
MB 480-729215/1-A	Method Blank	Total/NA	Solid	9012B	729215
LCS 480-729210/3-A	Lab Control Sample	Total/NA	Solid	9012B	729210
LCS 480-729210/4-A	Lab Control Sample	Total/NA	Solid	9012B	729210
LCSSRM 480-729215/2-A	Lab Control Sample	Total/NA	Solid	9012B	729215
480-224585-11 MS	SD-MW-BCP-20A-10182024	Total/NA	Solid	9012B	729215

Analysis Batch: 729375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	Total/NA	Solid	9045D	
480-224585-2	SD-MW-BCP-21A-10172024	Total/NA	Solid	9045D	
480-224585-3	SD-MW-BCP-06A-10172024	Total/NA	Solid	9045D	
480-224585-4	SD-MW-BCP-22A-10172024	Total/NA	Solid	9045D	
480-224585-5	SD-MW-BCP-23A-10172024	Total/NA	Solid	9045D	
480-224585-6	SD-MW-BCP-27A-10172024	Total/NA	Solid	9045D	
480-224585-7	SD-MW-BCP-13A-10172024	Total/NA	Solid	9045D	
480-224585-8	SD-MW-BCP-24A-10172024	Total/NA	Solid	9045D	
480-224585-9	SD-MW-BCP-19A-10172024	Total/NA	Solid	9045D	
480-224585-10	SD-MW-BCP-25A-10182024	Total/NA	Solid	9045D	
480-224585-11	SD-MW-BCP-20A-10182024	Total/NA	Solid	9045D	
480-224585-12	SD-MW-BCP-17A-10182024	Total/NA	Solid	9045D	
480-224585-13	SD-MW-BCP-04A-1012024	Total/NA	Solid	9045D	
480-224585-14	SD-WAL-10182024	Total/NA	Solid	9045D	
480-224585-15	SD-THINKSAFETY-10182024	Total/NA	Solid	9045D	
480-224585-16	SD-MW-BCP-08A-10182024	Total/NA	Solid	9045D	
480-224585-17	SD-MW-BCP-09-10182024	Total/NA	Solid	9045D	
480-224585-18	SD-MW-BCP-11A-10182024	Total/NA	Solid	9045D	
480-224585-19	SD-BATTERYSUMP-10182024	Total/NA	Solid	9045D	
480-224585-20	SD-MW-BCP-12A-10182024	Total/NA	Solid	9045D	
LCS 480-729375/23	Lab Control Sample	Total/NA	Solid	9045D	
480-224585-1 DU	SD-MW-BCP-01A-10172024	Total/NA	Solid	9045D	

Prep Batch: 729538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-12	SD-MW-BCP-17A-10182024	Total/NA	Solid	9012B	
480-224585-13	SD-MW-BCP-04A-1012024	Total/NA	Solid	9012B	
480-224585-14	SD-WAL-10182024	Total/NA	Solid	9012B	
480-224585-15	SD-THINKSAFETY-10182024	Total/NA	Solid	9012B	
480-224585-16	SD-MW-BCP-08A-10182024	Total/NA	Solid	9012B	
480-224585-17	SD-MW-BCP-09-10182024	Total/NA	Solid	9012B	
480-224585-18	SD-MW-BCP-11A-10182024	Total/NA	Solid	9012B	
480-224585-19	SD-BATTERYSUMP-10182024	Total/NA	Solid	9012B	
480-224585-20	SD-MW-BCP-12A-10182024	Total/NA	Solid	9012B	
MB 480-729538/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-729538/3-A	Lab Control Sample	Total/NA	Solid	9012B	

General Chemistry (Continued)

Prep Batch: 729538 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-729538/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-729538/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-224585-20 MS	SD-MW-BCP-12A-10182024	Total/NA	Solid	9012B	

Analysis Batch: 729607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-12	SD-MW-BCP-17A-10182024	Total/NA	Solid	9012B	729538
480-224585-13	SD-MW-BCP-04A-1012024	Total/NA	Solid	9012B	729538
480-224585-14	SD-WAL-10182024	Total/NA	Solid	9012B	729538
480-224585-15	SD-THINKSAFETY-10182024	Total/NA	Solid	9012B	729538
480-224585-16	SD-MW-BCP-08A-10182024	Total/NA	Solid	9012B	729538
480-224585-17	SD-MW-BCP-09-10182024	Total/NA	Solid	9012B	729538
480-224585-18	SD-MW-BCP-11A-10182024	Total/NA	Solid	9012B	729538
480-224585-19	SD-BATTERYSUMP-10182024	Total/NA	Solid	9012B	729538
480-224585-20	SD-MW-BCP-12A-10182024	Total/NA	Solid	9012B	729538
MB 480-729538/1-A	Method Blank	Total/NA	Solid	9012B	729538
LCS 480-729538/3-A	Lab Control Sample	Total/NA	Solid	9012B	729538
LCS 480-729538/4-A	Lab Control Sample	Total/NA	Solid	9012B	729538
LCSSRM 480-729538/2-A	Lab Control Sample	Total/NA	Solid	9012B	729538
480-224585-20 MS	SD-MW-BCP-12A-10182024	Total/NA	Solid	9012B	729538

Leach Batch: 730363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-2	SD-MW-BCP-21A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-3	SD-MW-BCP-06A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-4	SD-MW-BCP-22A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-5	SD-MW-BCP-23A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-6	SD-MW-BCP-27A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-7	SD-MW-BCP-13A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-8	SD-MW-BCP-24A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-9	SD-MW-BCP-19A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-10	SD-MW-BCP-25A-10182024	ASTM Leach	Solid	D3987-85	
480-224585-11	SD-MW-BCP-20A-10182024	ASTM Leach	Solid	D3987-85	
480-224585-12	SD-MW-BCP-17A-10182024	ASTM Leach	Solid	D3987-85	
480-224585-13	SD-MW-BCP-04A-1012024	ASTM Leach	Solid	D3987-85	
480-224585-14	SD-WAL-10182024	ASTM Leach	Solid	D3987-85	
480-224585-15	SD-THINKSAFETY-10182024	ASTM Leach	Solid	D3987-85	
480-224585-16	SD-MW-BCP-08A-10182024	ASTM Leach	Solid	D3987-85	
480-224585-17	SD-MW-BCP-09-10182024	ASTM Leach	Solid	D3987-85	
480-224585-18	SD-MW-BCP-11A-10182024	ASTM Leach	Solid	D3987-85	
480-224585-19	SD-BATTERYSUMP-10182024	ASTM Leach	Solid	D3987-85	
480-224585-20	SD-MW-BCP-12A-10182024	ASTM Leach	Solid	D3987-85	
MB 480-730363/1-A	Method Blank	ASTM Leach	Solid	D3987-85	

Analysis Batch: 730524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-2	SD-MW-BCP-21A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-3	SD-MW-BCP-06A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-4	SD-MW-BCP-22A-10172024	ASTM Leach	Solid	350.1	730363

General Chemistry (Continued)

Analysis Batch: 730524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-5	SD-MW-BCP-23A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-6	SD-MW-BCP-27A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-7	SD-MW-BCP-13A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-9	SD-MW-BCP-19A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-10	SD-MW-BCP-25A-10182024	ASTM Leach	Solid	350.1	730363
480-224585-11	SD-MW-BCP-20A-10182024	ASTM Leach	Solid	350.1	730363
480-224585-12	SD-MW-BCP-17A-10182024	ASTM Leach	Solid	350.1	730363
480-224585-13	SD-MW-BCP-04A-1012024	ASTM Leach	Solid	350.1	730363
480-224585-14	SD-WAL-10182024	ASTM Leach	Solid	350.1	730363
480-224585-15	SD-THINKSAFETY-10182024	ASTM Leach	Solid	350.1	730363
480-224585-16	SD-MW-BCP-08A-10182024	ASTM Leach	Solid	350.1	730363
480-224585-17	SD-MW-BCP-09-10182024	ASTM Leach	Solid	350.1	730363
480-224585-18	SD-MW-BCP-11A-10182024	ASTM Leach	Solid	350.1	730363
480-224585-19	SD-BATTERYSUMP-10182024	ASTM Leach	Solid	350.1	730363
480-224585-20	SD-MW-BCP-12A-10182024	ASTM Leach	Solid	350.1	730363
MB 480-730363/1-A	Method Blank	ASTM Leach	Solid	350.1	730363
MB 480-730524/24	Method Blank	Total/NA	Solid	350.1	
MB 480-730524/66	Method Blank	Total/NA	Solid	350.1	
MB 480-730524/81	Method Blank	Total/NA	Solid	350.1	
LCS 480-730524/25	Lab Control Sample	Total/NA	Solid	350.1	
LCS 480-730524/67	Lab Control Sample	Total/NA	Solid	350.1	
LCS 480-730524/82	Lab Control Sample	Total/NA	Solid	350.1	

Analysis Batch: 730651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-8	SD-MW-BCP-24A-10172024	ASTM Leach	Solid	350.1	730363
MB 480-730651/5	Method Blank	Total/NA	Solid	350.1	
LCS 480-730651/6	Lab Control Sample	Total/NA	Solid	350.1	

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-01A-10172024
Lab Sample ID: 480-224585-1
Date Collected: 10/17/24 09:10
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:41
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-01A-10172024
Lab Sample ID: 480-224585-1
Date Collected: 10/17/24 09:10
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:34
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 11:14

Client Sample ID: SD-MW-BCP-21A-10172024
Lab Sample ID: 480-224585-2
Date Collected: 10/17/24 09:55
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:41
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-21A-10172024
Lab Sample ID: 480-224585-2
Date Collected: 10/17/24 09:55
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:40
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 11:16

Client Sample ID: SD-MW-BCP-06A-10172024
Lab Sample ID: 480-224585-3
Date Collected: 10/17/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:42
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-06A-10172024
Lab Sample ID: 480-224585-3
Date Collected: 10/17/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:41
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 12:38

Client Sample ID: SD-MW-BCP-22A-10172024
Lab Sample ID: 480-224585-4
Date Collected: 10/17/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:43
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-22A-10172024
Lab Sample ID: 480-224585-4
Date Collected: 10/17/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 67.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:42
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 11:17

Client Sample ID: SD-MW-BCP-23A-10172024
Lab Sample ID: 480-224585-5
Date Collected: 10/17/24 11:30
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:49
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-23A-10172024
Lab Sample ID: 480-224585-5
Date Collected: 10/17/24 11:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 70.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:44
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 11:17

Client Sample ID: SD-MW-BCP-27A-10172024

Lab Sample ID: 480-224585-6
Matrix: Solid
Date Collected: 10/17/24 13:25
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:51
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-27A-10172024

Lab Sample ID: 480-224585-6
Matrix: Solid
Date Collected: 10/17/24 13:25
Date Received: 10/18/24 16:14
Percent Solids: 62.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:48
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		50	729299	AM	EET BUF	10/22/24 11:18

Client Sample ID: SD-MW-BCP-13A-10172024

Lab Sample ID: 480-224585-7
Matrix: Solid
Date Collected: 10/17/24 14:00
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:51
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-13A-10172024

Lab Sample ID: 480-224585-7
Matrix: Solid
Date Collected: 10/17/24 14:00
Date Received: 10/18/24 16:14
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:49
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 11:20

Client Sample ID: SD-MW-BCP-24A-10172024

Lab Sample ID: 480-224585-8
Matrix: Solid
Date Collected: 10/17/24 14:30
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:52
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-24A-10172024
Lab Sample ID: 480-224585-8
Date Collected: 10/17/24 14:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:50
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 11:21

Client Sample ID: SD-MW-BCP-19A-10172024
Lab Sample ID: 480-224585-9
Date Collected: 10/17/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:53
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-19A-10172024
Lab Sample ID: 480-224585-9
Date Collected: 10/17/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:51
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/21/24 20:17

Client Sample ID: SD-MW-BCP-25A-10182024
Lab Sample ID: 480-224585-10
Date Collected: 10/18/24 09:00
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/29/24 23:44
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-25A-10182024
Lab Sample ID: 480-224585-10
Date Collected: 10/18/24 09:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:53
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/21/24 20:17

Client Sample ID: SD-MW-BCP-20A-10182024

Lab Sample ID: 480-224585-11
Matrix: Solid
Date Collected: 10/18/24 09:50
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/29/24 23:45
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-20A-10182024

Lab Sample ID: 480-224585-11
Matrix: Solid
Date Collected: 10/18/24 09:50
Date Received: 10/18/24 16:14
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:54
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/21/24 20:18

Client Sample ID: SD-MW-BCP-17A-10182024

Lab Sample ID: 480-224585-12
Matrix: Solid
Date Collected: 10/18/24 10:30
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/29/24 23:46
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-17A-10182024

Lab Sample ID: 480-224585-12
Matrix: Solid
Date Collected: 10/18/24 10:30
Date Received: 10/18/24 16:14
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:55
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:45

Client Sample ID: SD-MW-BCP-04A-1012024

Lab Sample ID: 480-224585-13
Matrix: Solid
Date Collected: 10/18/24 11:00
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/29/24 23:46
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-04A-1012024
Lab Sample ID: 480-224585-13
Date Collected: 10/18/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:57
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:45

Client Sample ID: SD-WAL-10182024
Lab Sample ID: 480-224585-14
Date Collected: 10/18/24 11:10
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/29/24 23:48
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-WAL-10182024
Lab Sample ID: 480-224585-14
Date Collected: 10/18/24 11:10
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:58
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:45

Client Sample ID: SD-THINKSAFETY-10182024
Lab Sample ID: 480-224585-15
Date Collected: 10/18/24 11:25
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:56
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-THINKSAFETY-10182024
Lab Sample ID: 480-224585-15
Date Collected: 10/18/24 11:25
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		100	729316	ESB	EET BUF	10/22/24 13:15
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:46

Client Sample ID: SD-MW-BCP-08A-10182024
Lab Sample ID: 480-224585-16
Date Collected: 10/18/24 11:50
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:56
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-08A-10182024
Lab Sample ID: 480-224585-16
Date Collected: 10/18/24 11:50
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 72.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:06
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:46

Client Sample ID: SD-MW-BCP-09-10182024
Lab Sample ID: 480-224585-17
Date Collected: 10/18/24 13:15
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:58
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-09-10182024
Lab Sample ID: 480-224585-17
Date Collected: 10/18/24 13:15
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:07
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:49

Client Sample ID: SD-MW-BCP-11A-10182024
Lab Sample ID: 480-224585-18
Date Collected: 10/18/24 13:40
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:59
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-11A-10182024
Lab Sample ID: 480-224585-18
Date Collected: 10/18/24 13:40
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:09
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:49

Client Sample ID: SD-BATTERYSUMP-10182024
Lab Sample ID: 480-224585-19
Date Collected: 10/18/24 14:10
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:59
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-BATTERYSUMP-10182024
Lab Sample ID: 480-224585-19
Date Collected: 10/18/24 14:10
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:10
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:49

Client Sample ID: SD-MW-BCP-12A-10182024
Lab Sample ID: 480-224585-20
Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 14:03
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-12A-10182024
Lab Sample ID: 480-224585-20
Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:11
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:50

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Laboratory References:

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

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
350.1		Solid	Ammonia
9045D		Solid	Temperature
Moisture		Solid	Percent Solids

Method Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Method	Method Description	Protocol	Laboratory
7471B	Mercury (CVAA)	SW846	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET BUF
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
9045D	pH	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET BUF
D3987-85	ASTM Leaching Procedure	ASTM	EET BUF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224585-1	SD-MW-BCP-01A-10172024	Solid	10/17/24 09:10	10/18/24 16:14
480-224585-2	SD-MW-BCP-21A-10172024	Solid	10/17/24 09:55	10/18/24 16:14
480-224585-3	SD-MW-BCP-06A-10172024	Solid	10/17/24 10:30	10/18/24 16:14
480-224585-4	SD-MW-BCP-22A-10172024	Solid	10/17/24 11:00	10/18/24 16:14
480-224585-5	SD-MW-BCP-23A-10172024	Solid	10/17/24 11:30	10/18/24 16:14
480-224585-6	SD-MW-BCP-27A-10172024	Solid	10/17/24 13:25	10/18/24 16:14
480-224585-7	SD-MW-BCP-13A-10172024	Solid	10/17/24 14:00	10/18/24 16:14
480-224585-8	SD-MW-BCP-24A-10172024	Solid	10/17/24 14:30	10/18/24 16:14
480-224585-9	SD-MW-BCP-19A-10172024	Solid	10/17/24 15:00	10/18/24 16:14
480-224585-10	SD-MW-BCP-25A-10182024	Solid	10/18/24 09:00	10/18/24 16:14
480-224585-11	SD-MW-BCP-20A-10182024	Solid	10/18/24 09:50	10/18/24 16:14
480-224585-12	SD-MW-BCP-17A-10182024	Solid	10/18/24 10:30	10/18/24 16:14
480-224585-13	SD-MW-BCP-04A-1012024	Solid	10/18/24 11:00	10/18/24 16:14
480-224585-14	SD-WAL-10182024	Solid	10/18/24 11:10	10/18/24 16:14
480-224585-15	SD-THINKSAFETY-10182024	Solid	10/18/24 11:25	10/18/24 16:14
480-224585-16	SD-MW-BCP-08A-10182024	Solid	10/18/24 11:50	10/18/24 16:14
480-224585-17	SD-MW-BCP-09-10182024	Solid	10/18/24 13:15	10/18/24 16:14
480-224585-18	SD-MW-BCP-11A-10182024	Solid	10/18/24 13:40	10/18/24 16:14
480-224585-19	SD-BATTERYSUMP-10182024	Solid	10/18/24 14:10	10/18/24 16:14
480-224585-20	SD-MW-BCP-12A-10182024	Solid	10/18/24 15:00	10/18/24 16:14

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Austin Oare / Corey Bra[illegible]	Lab PM: [illegible], Brian J	Carrier Tracking No(s):	COC No: 480-199914-41224.7
Client Contact: Mr. Austin Oare	Phone: 716-720-3256	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: NY	Page: Page [illegible] 1 of 2
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): Standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: austin.oare@inventumeng.com	WO #:			
Project Name: Ammonia SCO	Project #: 48028091			
Site: 3875 River Road	SSOW#:			

john.black@inventumeng.com
peter.zaffram@inventumeng.com

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Ammonia	Total Mercury	Total Cyanide	pH 2				Total Number of containers	Special Instructions/Note:
Preservation Code:							A	B	N	D	S	N	N		
SD-MW-BCP-01A-10172024	10/17/24	0910	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-21A-10172024	10/17/24	0955	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-06A-10172024	10/17/24	10:30	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-22A-10172024	10/17/24	11:00	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-23A-10172024	10/17/24	11:30	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-27A-10172024	10/17/24	13:25	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-13A-10172024	10/17/24	14:00	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-24A-10172024	10/17/24	14:30	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-19A-10172024	10/17/24	15:00	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-25A-10182024	10/18/24	0900	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-20A-10182024	10/18/24	0950	G	Solid Water			X	X	X	X				2	

480-224585 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC CATB / EQuIS 1

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Peter Zaffram	Date/Time: 10/18/2024	Company: Inventum	Received by: [signature]	Date/Time: 10/18/24 1614	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.0 IR#5 ICE

Ver: 05/06/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Austin Oare/Corey Boyerton	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-199914-41224.8
Client Contact: Mr. Austin Oare	Phone: 716-720-3256	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: NY	Page: Page 2 of 2
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): Standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: austin.oare@inventumeng.com	WO #:			
Project Name: Ammonia SCO	Project #: 48028091			
Site: 3875 River Road	SSOW#:			

john.black@inventumeng.com
peter.zaffram@inventumeng.com

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
N - None
D - HNO3
S - H2SO4

Other:

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Ammonia	Total Mercury	Total Cyanide	pH				Total Number of containers
			Preservation Code:				A	B	N	D	S	N	N	
SD-MW-BCP-17A-10182024	10/18/24	10:30	G	Solid			X	X	X	X				2
SD-MW-BCP-04A-10182024	10/18/24	11:00	G	Solid			X	X	X	X				2
SD-WAL-10182024	10/18/24	11:10	G	Solid			X	X	X	X				2
SD-THINKSAFETY-10182024	10/18/24	11:25	G	Solid			X	X	X	X				2
SD-MW-BCP-08A-10182024	10/18/24	11:50	G	Solid			X	X	X	X				2
SD-MW-BCP-09A-10182024	10/18/24	13:15	G	Solid			X	X	X	X				2
SD-MW-BCP-11A-10182024	10/18/24	13:40	G	Solid			X	X	X	X				2
SD-BATTERYSUMP-10182024	10/18/24	14:10	G	Solid			X	X	X	X				2
SD-MW-BCP-12A-10182024	10/18/24	15:00	G	Solid			X	X	X	X				2
				Solid										
				Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC CATB/EQUIS 1

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Peter Zaffram	10/18/2024	Inventum			
2	Relinquished by:	Date/Time:	Company	Received by: Matthew Crabb	10/18/24 1614	T&A
3	Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 480-224585-1

Login Number: 224585
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

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	5.0 IR#SC ice
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.	N/A	
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	Inventum Engineering
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Austin Oare
Inventum Engineering LLC
441 Carlisle Drive
Suite C
Herndon, Virginia 20170

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JOB DESCRIPTION

Ammonia SCO

JOB NUMBER

480-224610-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

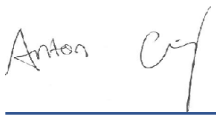
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

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Definitions/Glossary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Qualifiers

Metals

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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 ID: 480-224610-1 Eurofins Buffalo

Job Narrative
480-224610-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/21/2024 2:18 PM. Unless otherwise noted below, the samples arrived in good condition. The temperature of the cooler at receipt time was 21.4°C.

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

General Chemistry
Method 9012B: The sample duplicate (DUP) precision for preparation batch 480-730503 and analytical batch 480-730602 was outside control limits. Sample matrix interference is suspected.

Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: SD-TM-10212024 (480-224610-1), SD-MW-BCP-10A-10212024 (480-224610-2), SD-MW05AREA-10212024 (480-224610-3) and SD-MW-BCP-05A-10212024 (480-224610-4).

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

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Client Sample ID: SD-TM-10212024 — Lab Sample ID: 480-224610-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.3	^-	0.24	0.055	mg/Kg	10	☼	7471B	Total/NA
Cyanide, Total	2.2	F1	1.1	0.55	mg/Kg	1	☼	9012B	Total/NA
pH	8.8	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.2	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	64.2		19.0	9.5	mg/Kg	5		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-10A-10212024 — Lab Sample ID: 480-224610-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	3.6	^-	0.25	0.058	mg/Kg	10	☼	7471B	Total/NA
Cyanide, Total	10.5		6.2	3.0	mg/Kg	5	☼	9012B	Total/NA
pH	9.3	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	228		100	50.2	mg/Kg	25.71		350.1	ASTM Leach

Client Sample ID: SD-MW05AREA-10212024 — Lab Sample ID: 480-224610-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	5.4	^-	0.26	0.059	mg/Kg	10	☼	7471B	Total/NA
Cyanide, Total	115		26.6	12.8	mg/Kg	25	☼	9012B	Total/NA
pH	11.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.4	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	171		18.2	9.1	mg/Kg	5		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-05A-10212024 — Lab Sample ID: 480-224610-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	6.5	^-	0.26	0.059	mg/Kg	10	☼	7471B	Total/NA
Cyanide, Total	7.1		1.2	0.60	mg/Kg	1	☼	9012B	Total/NA
pH	9.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.3	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	247		100	50.1	mg/Kg	25.71		350.1	ASTM Leach

This Detection Summary does not include radiochemical test results.

Client Sample ID: SD-TM-10212024

Lab Sample ID: 480-224610-1
Date Collected: 10/21/24 08:30
Matrix: Solid
Date Received: 10/21/24 14:18

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.8	HF	0.1	0.1	SU			10/25/24 13:00	1
Temperature (SW846 9045D)	18.2	HF	0.001	0.001	Degrees C			10/25/24 13:00	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	64.2		19.0	9.5	mg/Kg			11/01/24 23:13	5

Client Sample ID: SD-TM-10212024

Lab Sample ID: 480-224610-1
Date Collected: 10/21/24 08:30
Matrix: Solid
Date Received: 10/21/24 14:18
Percent Solids: 85.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3	^-	0.24	0.055	mg/Kg	☼	10/25/24 09:07	10/25/24 15:30	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	2.2	F1	1.1	0.55	mg/Kg	☼	10/30/24 13:25	10/30/24 20:06	1

Client Sample ID: SD-MW-BCP-10A-10212024

Lab Sample ID: 480-224610-2
Date Collected: 10/21/24 09:00
Matrix: Solid
Date Received: 10/21/24 14:18

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	9.3	HF	0.1	0.1	SU			10/25/24 13:00	1
Temperature (SW846 9045D)	18.1	HF	0.001	0.001	Degrees C			10/25/24 13:00	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	228		100	50.2	mg/Kg			11/02/24 11:11	25.71

Client Sample ID: SD-MW-BCP-10A-10212024

Lab Sample ID: 480-224610-2
Date Collected: 10/21/24 09:00
Matrix: Solid
Date Received: 10/21/24 14:18
Percent Solids: 78.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.6	^-	0.25	0.058	mg/Kg	☼	10/25/24 09:07	10/25/24 15:32	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	10.5		6.2	3.0	mg/Kg	☼	10/30/24 13:25	10/30/24 21:00	5

Client Sample ID: SD-MW05AREA-10212024

Lab Sample ID: 480-224610-3
Date Collected: 10/21/24 10:10
Matrix: Solid
Date Received: 10/21/24 14:18

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	11.7	HF	0.1	0.1	SU			10/25/24 13:00	1
Temperature (SW846 9045D)	18.4	HF	0.001	0.001	Degrees C			10/25/24 13:00	1

Client Sample ID: SD-MW05AREA-10212024

Lab Sample ID: 480-224610-3
Date Collected: 10/21/24 10:10
Matrix: Solid
Date Received: 10/21/24 14:18

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	171		18.2	9.1	mg/Kg			11/02/24 11:12	5

Client Sample ID: SD-MW05AREA-10212024

Lab Sample ID: 480-224610-3
Date Collected: 10/21/24 10:10
Matrix: Solid
Date Received: 10/21/24 14:18
Percent Solids: 78.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.4	^-	0.26	0.059	mg/Kg	☼	10/25/24 09:07	10/25/24 15:33	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	115		26.6	12.8	mg/Kg	☼	10/30/24 13:25	10/30/24 21:20	25

Client Sample ID: SD-MW-BCP-05A-10212024

Lab Sample ID: 480-224610-4
Date Collected: 10/21/24 10:45
Matrix: Solid
Date Received: 10/21/24 14:18

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	9.7	HF	0.1	0.1	SU			10/25/24 13:00	1
Temperature (SW846 9045D)	18.3	HF	0.001	0.001	Degrees C			10/25/24 13:00	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	247		100	50.1	mg/Kg			11/02/24 11:12	25.71

Client Sample ID: SD-MW-BCP-05A-10212024

Lab Sample ID: 480-224610-4
Date Collected: 10/21/24 10:45
Matrix: Solid
Date Received: 10/21/24 14:18
Percent Solids: 78.3

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.5	^-	0.26	0.059	mg/Kg	☼	10/25/24 09:07	10/25/24 15:34	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	7.1		1.2	0.60	mg/Kg	☼	10/30/24 13:25	10/30/24 20:11	1

QC Sample Results

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-729636/1-A
Matrix: Solid
Analysis Batch: 729877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0045	mg/Kg		10/25/24 09:07	10/25/24 12:16	1

Lab Sample ID: LCSSRM 480-729636/2-A ^10
Matrix: Solid
Analysis Batch: 729877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729636

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	11.9	11.18		mg/Kg		93.9	59.8 - 139.5

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-730935/44
Matrix: Solid
Analysis Batch: 730935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.962		mg/Kg		96	90 - 110

Lab Sample ID: LCS 480-730935/63
Matrix: Solid
Analysis Batch: 730935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.992		mg/Kg		99	90 - 110

Lab Sample ID: MB 480-730900/1-A
Matrix: Solid
Analysis Batch: 730935

Client Sample ID: Method Blank
Prep Type: ASTM Leach

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg			11/01/24 22:29	1

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-730503/1-A
Matrix: Solid
Analysis Batch: 730602

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.92	0.44	mg/Kg		10/30/24 13:25	10/30/24 20:02	1

Lab Sample ID: LCS 480-730503/3-A
Matrix: Solid
Analysis Batch: 730602

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.409		mg/Kg		102	29 - 122

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-730503/4-A
Matrix: Solid
Analysis Batch: 730602

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730503

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.253		mg/Kg		101	29 - 122		

Lab Sample ID: LCSSRM 480-730503/2-A
Matrix: Solid
Analysis Batch: 730602

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730503

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			150	88.89		mg/Kg		59.3	38.9 - 138.7		

Lab Sample ID: 480-224610-1 MS
Matrix: Solid
Analysis Batch: 730602

Client Sample ID: SD-TM-10212024
Prep Type: Total/NA
Prep Batch: 730503

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	2.2	F1	1.28	2.35	F1	mg/Kg	☼	12	85 - 115		

Lab Sample ID: 480-224610-1 DU
Matrix: Solid
Analysis Batch: 730602

Client Sample ID: SD-TM-10212024
Prep Type: Total/NA
Prep Batch: 730503

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	2.2	F1	1.71	F5	mg/Kg	☼	25	15

Method: 9045D - pH

Lab Sample ID: LCS 480-729999/1
Matrix: Solid
Analysis Batch: 729999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.1		SU		101	99 - 101		

QC Association Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Metals

Prep Batch: 729636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	Total/NA	Solid	7471B	
480-224610-2	SD-MW-BCP-10A-10212024	Total/NA	Solid	7471B	
480-224610-3	SD-MW05AREA-10212024	Total/NA	Solid	7471B	
480-224610-4	SD-MW-BCP-05A-10212024	Total/NA	Solid	7471B	
MB 480-729636/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-729636/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 729877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	Total/NA	Solid	7471B	729636
480-224610-2	SD-MW-BCP-10A-10212024	Total/NA	Solid	7471B	729636
480-224610-3	SD-MW05AREA-10212024	Total/NA	Solid	7471B	729636
480-224610-4	SD-MW-BCP-05A-10212024	Total/NA	Solid	7471B	729636
MB 480-729636/1-A	Method Blank	Total/NA	Solid	7471B	729636
LCSSRM 480-729636/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	729636

General Chemistry

Analysis Batch: 729295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	Total/NA	Solid	Moisture	
480-224610-2	SD-MW-BCP-10A-10212024	Total/NA	Solid	Moisture	
480-224610-3	SD-MW05AREA-10212024	Total/NA	Solid	Moisture	
480-224610-4	SD-MW-BCP-05A-10212024	Total/NA	Solid	Moisture	

Analysis Batch: 729999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	Total/NA	Solid	9045D	
480-224610-2	SD-MW-BCP-10A-10212024	Total/NA	Solid	9045D	
480-224610-3	SD-MW05AREA-10212024	Total/NA	Solid	9045D	
480-224610-4	SD-MW-BCP-05A-10212024	Total/NA	Solid	9045D	
LCS 480-729999/1	Lab Control Sample	Total/NA	Solid	9045D	

Prep Batch: 730503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	Total/NA	Solid	9012B	
480-224610-2	SD-MW-BCP-10A-10212024	Total/NA	Solid	9012B	
480-224610-3	SD-MW05AREA-10212024	Total/NA	Solid	9012B	
480-224610-4	SD-MW-BCP-05A-10212024	Total/NA	Solid	9012B	
MB 480-730503/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-730503/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-730503/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-730503/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-224610-1 MS	SD-TM-10212024	Total/NA	Solid	9012B	
480-224610-1 DU	SD-TM-10212024	Total/NA	Solid	9012B	

Analysis Batch: 730602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	Total/NA	Solid	9012B	730503
480-224610-2	SD-MW-BCP-10A-10212024	Total/NA	Solid	9012B	730503
480-224610-3	SD-MW05AREA-10212024	Total/NA	Solid	9012B	730503

General Chemistry (Continued)

Analysis Batch: 730602 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-4	SD-MW-BCP-05A-10212024	Total/NA	Solid	9012B	730503
MB 480-730503/1-A	Method Blank	Total/NA	Solid	9012B	730503
LCS 480-730503/3-A	Lab Control Sample	Total/NA	Solid	9012B	730503
LCS 480-730503/4-A	Lab Control Sample	Total/NA	Solid	9012B	730503
LCSSRM 480-730503/2-A	Lab Control Sample	Total/NA	Solid	9012B	730503
480-224610-1 MS	SD-TM-10212024	Total/NA	Solid	9012B	730503
480-224610-1 DU	SD-TM-10212024	Total/NA	Solid	9012B	730503

Leach Batch: 730900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	ASTM Leach	Solid	D3987-85	
480-224610-2	SD-MW-BCP-10A-10212024	ASTM Leach	Solid	D3987-85	
480-224610-3	SD-MW05AREA-10212024	ASTM Leach	Solid	D3987-85	
480-224610-4	SD-MW-BCP-05A-10212024	ASTM Leach	Solid	D3987-85	
MB 480-730900/1-A	Method Blank	ASTM Leach	Solid	D3987-85	

Analysis Batch: 730935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	ASTM Leach	Solid	350.1	730900
480-224610-2	SD-MW-BCP-10A-10212024	ASTM Leach	Solid	350.1	730900
480-224610-3	SD-MW05AREA-10212024	ASTM Leach	Solid	350.1	730900
480-224610-4	SD-MW-BCP-05A-10212024	ASTM Leach	Solid	350.1	730900
MB 480-730900/1-A	Method Blank	ASTM Leach	Solid	350.1	730900
LCS 480-730935/44	Lab Control Sample	Total/NA	Solid	350.1	
LCS 480-730935/63	Lab Control Sample	Total/NA	Solid	350.1	

Client Sample ID: SD-TM-10212024

Lab Sample ID: 480-224610-1

Date Collected: 10/21/24 08:30

Matrix: Solid

Date Received: 10/21/24 14:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730900	AM	EET BUF	10/31/24 17:09 - 11/01/24 11:09 [1]
ASTM Leach	Analysis	350.1		5	730935	AM	EET BUF	11/01/24 23:13
Total/NA	Analysis	9045D		1	729999	CG	EET BUF	10/25/24 13:00
Total/NA	Analysis	Moisture		1	729295	VXF	EET BUF	10/22/24 12:09

Client Sample ID: SD-TM-10212024

Lab Sample ID: 480-224610-1

Date Collected: 10/21/24 08:30

Matrix: Solid

Date Received: 10/21/24 14:18

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729636	ESB	EET BUF	10/25/24 09:07
Total/NA	Analysis	7471B		10	729877	ESB	EET BUF	10/25/24 15:30
Total/NA	Prep	9012B			730503	AM	EET BUF	10/30/24 13:25
Total/NA	Analysis	9012B		1	730602	AM	EET BUF	10/30/24 20:06

Client Sample ID: SD-MW-BCP-10A-10212024

Lab Sample ID: 480-224610-2

Date Collected: 10/21/24 09:00

Matrix: Solid

Date Received: 10/21/24 14:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730900	AM	EET BUF	10/31/24 17:09 - 11/01/24 11:09 [1]
ASTM Leach	Analysis	350.1		25.71	730935	AM	EET BUF	11/02/24 11:11
Total/NA	Analysis	9045D		1	729999	CG	EET BUF	10/25/24 13:00
Total/NA	Analysis	Moisture		1	729295	VXF	EET BUF	10/22/24 12:09

Client Sample ID: SD-MW-BCP-10A-10212024

Lab Sample ID: 480-224610-2

Date Collected: 10/21/24 09:00

Matrix: Solid

Date Received: 10/21/24 14:18

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729636	ESB	EET BUF	10/25/24 09:07
Total/NA	Analysis	7471B		10	729877	ESB	EET BUF	10/25/24 15:32
Total/NA	Prep	9012B			730503	AM	EET BUF	10/30/24 13:25
Total/NA	Analysis	9012B		5	730602	AM	EET BUF	10/30/24 21:00

Client Sample ID: SD-MW05AREA-10212024

Lab Sample ID: 480-224610-3

Date Collected: 10/21/24 10:10

Matrix: Solid

Date Received: 10/21/24 14:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730900	AM	EET BUF	10/31/24 17:09 - 11/01/24 11:09 [1]
ASTM Leach	Analysis	350.1		5	730935	AM	EET BUF	11/02/24 11:12
Total/NA	Analysis	9045D		1	729999	CG	EET BUF	10/25/24 13:00
Total/NA	Analysis	Moisture		1	729295	VXF	EET BUF	10/22/24 12:09

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Client Sample ID: SD-MW05AREA-10212024

Lab Sample ID: 480-224610-3
Date Collected: 10/21/24 10:10
Matrix: Solid
Date Received: 10/21/24 14:18
Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729636	ESB	EET BUF	10/25/24 09:07
Total/NA	Analysis	7471B		10	729877	ESB	EET BUF	10/25/24 15:33
Total/NA	Prep	9012B			730503	AM	EET BUF	10/30/24 13:25
Total/NA	Analysis	9012B		25	730602	AM	EET BUF	10/30/24 21:20

Client Sample ID: SD-MW-BCP-05A-10212024

Lab Sample ID: 480-224610-4
Date Collected: 10/21/24 10:45
Matrix: Solid
Date Received: 10/21/24 14:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730900	AM	EET BUF	10/31/24 17:09 - 11/01/24 11:09 [1]
ASTM Leach	Analysis	350.1		25.71	730935	AM	EET BUF	11/02/24 11:12
Total/NA	Analysis	9045D		1	729999	CG	EET BUF	10/25/24 13:00
Total/NA	Analysis	Moisture		1	729295	VXF	EET BUF	10/22/24 12:09

Client Sample ID: SD-MW-BCP-05A-10212024

Lab Sample ID: 480-224610-4
Date Collected: 10/21/24 10:45
Matrix: Solid
Date Received: 10/21/24 14:18
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729636	ESB	EET BUF	10/25/24 09:07
Total/NA	Analysis	7471B		10	729877	ESB	EET BUF	10/25/24 15:34
Total/NA	Prep	9012B			730503	AM	EET BUF	10/30/24 13:25
Total/NA	Analysis	9012B		1	730602	AM	EET BUF	10/30/24 20:11

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
350.1		Solid	Ammonia
9045D		Solid	Temperature
Moisture		Solid	Percent Solids

Method Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Method	Method Description	Protocol	Laboratory
7471B	Mercury (CVAA)	SW846	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET BUF
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
9045D	pH	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET BUF
D3987-85	ASTM Leaching Procedure	ASTM	EET BUF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224610-1	SD-TM-10212024	Solid	10/21/24 08:30	10/21/24 14:18
480-224610-2	SD-MW-BCP-10A-10212024	Solid	10/21/24 09:00	10/21/24 14:18
480-224610-3	SD-MW05AREA-10212024	Solid	10/21/24 10:10	10/21/24 14:18
480-224610-4	SD-MW-BCP-05A-10212024	Solid	10/21/24 10:45	10/21/24 14:18

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information
Client Contact: Mr. Austin Oare
Company: Inventum Engineering LLC
Address: 441 Carlisle Drive Suite C
City: Herndon
State, Zip: VA, 20170
Phone: 518-844-5745(Tel)
Email: austin.oare@inventumeng.com
Project Name: Ammonia SCO
Site: 3875 River Rd.
John.Black@Inventumeng.Com
Peter.Zaffram@Inventumeng-Com

Sampler: Austin Oare / Corey Bryerton
Phone: (518) 844-5745
PWSID:
Due Date Requested:
TAT Requested (days): Standard
Compliance Project: Δ Yes Δ No
PO #: Purchase Order not required
WO #:
Project #: 48028091
SSOW#:

Lab PM: Fischer, Brian J
E-Mail: Brian.Fischer@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin: NY

COC No: 480-199914-41224.9
Page: Page ~~Not~~ 1 of 1
Job #:

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
N - None
D - HNO3
S - H2SO4

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Ammonia	Total Mercury	Total Cyanide	pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	B	N	D		
SD-TM-10212024	10/21/24	8:30	G	Solid			X	X	X	X	2	
SD-MW-BCP-10A-10212024	10/21/24	9:00	G	Solid			X	X	X	X	2	
SD-MWOSAREA-10212024	10/21/24	10:10	G	Solid			X	X	X	X	2	
SD-MW-BCP-OSA-10212024	10/21/24	10:45	G	Solid			X	X	X	X	2	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

480-224610 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Austin Oare	10/21/2024	Inventum	Received by:	10-21-24 1418	
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.1 21.4 IR#5 Ice

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 480-224610-1

Login Number: 224610
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

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	21.4 IR#SC ice
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.	N/A	
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	Inventum Engineering
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Appendix E – LEAF Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Todd Waldrop
Inventum Engineering LLC
441 Carlisle Drive
Suite C
Herndon, Virginia 20170

Generated 8/27/2025 10:05:26 AM Revision 1

JOB DESCRIPTION

RITC-Ammonia

JOB NUMBER

180-184461-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

myEOL

Eurofins Pittsburgh

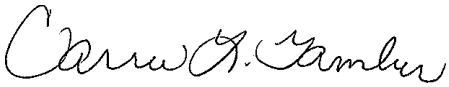
Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



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Revision 1

Authorized for release by
Carrie Gamber, Senior Project Manager
Carrie.Gamber@et.eurofinsus.com
(412)963-2428

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CASE NARRATIVE

Client: Inventum Engineering LLC

Project: RITC-Ammonia

Report Number: 180-184461-1 REVISED

NOTE: This report was revised to correct the units description for the Ammonia Prep. There was no change to the reported Ammonia data.

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 12/20/2024; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

AMMONIA
Sample LEAF-MW10A-12182024 PRE (180-184461-4) and LEAF-MW-05A-12182024 PRE (180-184461-6) were analyzed at a dilution. The reporting limits have been adjusted accordingly.

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

Definitions/Glossary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-1

Laboratory: Eurofins Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11182	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
EPA 350.1	350.1	Solid	Ammonia

Sample Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
180-184461-1	LEAF-MW27A-12182024 PRE	Solid	12/18/24 13:15	12/20/24 18:00	New York
180-184461-2	LEAF-MW25A-12182024 PRE	Solid	12/18/24 11:45	12/20/24 18:00	New York
180-184461-3	LEAF-TM-12182024 PRE	Solid	12/18/24 13:55	12/20/24 18:00	New York
180-184461-4	LEAF-MW10A-12182024 PRE	Solid	12/18/24 14:05	12/20/24 18:00	New York
180-184461-5	LEAF-MW21A-12182024 PRE	Solid	12/18/24 14:55	12/20/24 18:00	New York
180-184461-6	LEAF-MW-05A-12182024 PRE	Solid	12/18/24 14:30	12/20/24 18:00	New York
180-184461-7	LEAF-05AREA-12182024 PRE	Solid	12/18/24 14:35	12/20/24 18:00	New York
180-184461-15	LEAF-MW27A-12182024 DRIED	Solid	12/18/24 13:15	12/20/24 18:00	New York
180-184461-16	LEAF-MW25A-12182024 DRIED	Solid	12/18/24 11:45	12/20/24 18:00	New York
180-184461-17	LEAF-TM-12182024 DRIED	Solid	12/18/24 13:55	12/20/24 18:00	New York
180-184461-18	LEAF-MW10A-12182024 DRIED	Solid	12/18/24 14:05	12/20/24 18:00	New York
180-184461-19	LEAF-MW21A-12182024 DRIED	Solid	12/18/24 14:55	12/20/24 18:00	New York
180-184461-20	LEAF-MW-05A-12182024 DRIED	Solid	12/18/24 14:30	12/20/24 18:00	New York
180-184461-21	LEAF-05AREA-12182024 DRIED	Solid	12/18/24 14:35	12/20/24 18:00	New York

Method Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-1

Method	Method Description	Protocol	Laboratory
2540G	SM 2540G	SM22	EET PIT
EPA 350.1	Nitrogen, Ammonia	EPA	EET PIT
350.1	Distillation, Ammonia	EPA	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Client Sample ID: LEAF-MW27A-12182024 PRE
Lab Sample ID: 180-184461-1
Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487279	12/26/24 13:25	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW27A-12182024 PRE
Lab Sample ID: 180-184461-1
Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 58.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.20 g	10 mL	487829	01/07/25 09:43	SNR	EET PIT
Total/NA	Analysis	EPA 350.1		1			487867	01/07/25 18:19	SNR	EET PIT
	Instrument ID: BLUE-ASTORIA									

Client Sample ID: LEAF-MW25A-12182024 PRE
Lab Sample ID: 180-184461-2
Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487279	12/26/24 13:25	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW25A-12182024 PRE
Lab Sample ID: 180-184461-2
Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.21 g	10 mL	487829	01/07/25 09:43	SNR	EET PIT
Total/NA	Analysis	EPA 350.1		1			487867	01/07/25 18:20	SNR	EET PIT
	Instrument ID: BLUE-ASTORIA									

Client Sample ID: LEAF-TM-12182024 PRE
Lab Sample ID: 180-184461-3
Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487279	12/26/24 13:25	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-TM-12182024 PRE
Lab Sample ID: 180-184461-3
Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.19 g	10 mL	487829	01/07/25 09:43	SNR	EET PIT
Total/NA	Analysis	EPA 350.1		1			487867	01/07/25 18:21	SNR	EET PIT
	Instrument ID: BLUE-ASTORIA									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-1

Client Sample ID: LEAF-MW10A-12182024 PRE
Lab Sample ID: 180-184461-4
Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487279	12/26/24 13:25	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW10A-12182024 PRE
Lab Sample ID: 180-184461-4
Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.19 g	10 mL	487829	01/07/25 09:43	SNR	EET PIT
Total/NA	Analysis	EPA 350.1		2			487953	01/08/25 13:36	SNR	EET PIT
	Instrument ID: BLUE-ASTORIA									

Client Sample ID: LEAF-MW21A-12182024 PRE
Lab Sample ID: 180-184461-5
Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487279	12/26/24 13:25	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW21A-12182024 PRE
Lab Sample ID: 180-184461-5
Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.19 g	10 mL	487829	01/07/25 09:43	SNR	EET PIT
Total/NA	Analysis	EPA 350.1		1			487867	01/07/25 18:27	SNR	EET PIT
	Instrument ID: BLUE-ASTORIA									

Client Sample ID: LEAF-MW-05A-12182024 PRE
Lab Sample ID: 180-184461-6
Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487279	12/26/24 13:25	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW-05A-12182024 PRE
Lab Sample ID: 180-184461-6
Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.20 g	10 mL	487842	01/07/25 10:55	SNR	EET PIT
Total/NA	Analysis	EPA 350.1		2			487953	01/08/25 13:41	SNR	EET PIT
	Instrument ID: BLUE-ASTORIA									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-1

Client Sample ID: LEAF-05AREA-12182024 PRE
Lab Sample ID: 180-184461-7
Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487279	12/26/24 13:25	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-05AREA-12182024 PRE
Lab Sample ID: 180-184461-7
Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.18 g	10 mL	487842	01/07/25 10:55	SNR	EET PIT
Total/NA	Analysis	EPA 350.1		1			487867	01/07/25 18:36	SNR	EET PIT
	Instrument ID: BLUE-ASTORIA									

Client Sample ID: LEAF-MW27A-12182024 DRIED
Lab Sample ID: 180-184461-15
Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487777	01/06/25 12:57	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW25A-12182024 DRIED
Lab Sample ID: 180-184461-16
Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487777	01/06/25 12:57	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-TM-12182024 DRIED
Lab Sample ID: 180-184461-17
Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487777	01/06/25 12:57	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW10A-12182024 DRIED
Lab Sample ID: 180-184461-18
Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487777	01/06/25 12:57	EBA	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-1

Client Sample ID: LEAF-MW21A-12182024 DRIED
Lab Sample ID: 180-184461-19
Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487777	01/06/25 12:57	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW-05A-12182024 DRIED
Lab Sample ID: 180-184461-20
Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487777	01/06/25 12:57	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-05AREA-12182024 DRIED
Lab Sample ID: 180-184461-21
Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			487777	01/06/25 12:57	EBA	EET PIT
	Instrument ID: NOEQUIP									

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Prep

SNR = Sabra Richart

Batch Type: Analysis

EBA = Elizabeth Arbster

SNR = Sabra Richart

Client Sample ID: LEAF-MW27A-12182024 PRE
Lab Sample ID: 180-184461-1
Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	41.4		0.1	0.1	%			12/26/24 13:25	1

Client Sample ID: LEAF-MW27A-12182024 PRE
Lab Sample ID: 180-184461-1
Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 58.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	110		17	9.3	mg/Kg	☼	01/07/25 09:43	01/07/25 18:19	1

Client Sample ID: LEAF-MW25A-12182024 PRE
Lab Sample ID: 180-184461-2
Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	20.7		0.1	0.1	%			12/26/24 13:25	1

Client Sample ID: LEAF-MW25A-12182024 PRE
Lab Sample ID: 180-184461-2
Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 79.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	36		12	6.5	mg/Kg	☼	01/07/25 09:43	01/07/25 18:20	1

Client Sample ID: LEAF-TM-12182024 PRE
Lab Sample ID: 180-184461-3
Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	20.2		0.1	0.1	%			12/26/24 13:25	1

Client Sample ID: LEAF-TM-12182024 PRE
Lab Sample ID: 180-184461-3
Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 79.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	26		13	7.2	mg/Kg	☼	01/07/25 09:43	01/07/25 18:21	1

Client Sample ID: LEAF-MW10A-12182024 PRE
Lab Sample ID: 180-184461-4
Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	23.2		0.1	0.1	%			12/26/24 13:25	1

Client Sample ID: LEAF-MW10A-12182024 PRE — **Lab Sample ID: 180-184461-4**
Date Collected: 12/18/24 14:05 — **Matrix: Solid**
Date Received: 12/20/24 18:00 — **Percent Solids: 76.8**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	820		27	15	mg/Kg	☼	01/07/25 09:43	01/08/25 13:36	2

Client Sample ID: LEAF-MW21A-12182024 PRE — **Lab Sample ID: 180-184461-5**
Date Collected: 12/18/24 14:55 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	26.3		0.1	0.1	%			12/26/24 13:25	1

Client Sample ID: LEAF-MW21A-12182024 PRE — **Lab Sample ID: 180-184461-5**
Date Collected: 12/18/24 14:55 — **Matrix: Solid**
Date Received: 12/20/24 18:00 — **Percent Solids: 73.7**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	87		14	7.8	mg/Kg	☼	01/07/25 09:43	01/07/25 18:27	1

Client Sample ID: LEAF-MW-05A-12182024 PRE — **Lab Sample ID: 180-184461-6**
Date Collected: 12/18/24 14:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	21.4		0.1	0.1	%			12/26/24 13:25	1

Client Sample ID: LEAF-MW-05A-12182024 PRE — **Lab Sample ID: 180-184461-6**
Date Collected: 12/18/24 14:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00 — **Percent Solids: 78.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	540		25	14	mg/Kg	☼	01/07/25 10:55	01/08/25 13:41	2

Client Sample ID: LEAF-05AREA-12182024 PRE — **Lab Sample ID: 180-184461-7**
Date Collected: 12/18/24 14:35 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	20.2		0.1	0.1	%			12/26/24 13:25	1

Client Sample ID: LEAF-05AREA-12182024 PRE — **Lab Sample ID: 180-184461-7**
Date Collected: 12/18/24 14:35 — **Matrix: Solid**
Date Received: 12/20/24 18:00 — **Percent Solids: 79.8**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	110		14	7.6	mg/Kg	☼	01/07/25 10:55	01/07/25 18:36	1

Client Sample ID: LEAF-MW27A-12182024 DRIED — **Lab Sample ID: 180-184461-15**
Date Collected: 12/18/24 13:15 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	1.7		0.1	0.1	%			01/06/25 12:57	1

Client Sample ID: LEAF-MW25A-12182024 DRIED — **Lab Sample ID: 180-184461-16**
Date Collected: 12/18/24 11:45 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	0.4		0.1	0.1	%			01/06/25 12:57	1

Client Sample ID: LEAF-TM-12182024 DRIED — **Lab Sample ID: 180-184461-17**
Date Collected: 12/18/24 13:55 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	2.5		0.1	0.1	%			01/06/25 12:57	1

Client Sample ID: LEAF-MW10A-12182024 DRIED — **Lab Sample ID: 180-184461-18**
Date Collected: 12/18/24 14:05 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	0.6		0.1	0.1	%			01/06/25 12:57	1

Client Sample ID: LEAF-MW21A-12182024 DRIED — **Lab Sample ID: 180-184461-19**
Date Collected: 12/18/24 14:55 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	0.9		0.1	0.1	%			01/06/25 12:57	1

Client Sample ID: LEAF-MW-05A-12182024 DRIED — **Lab Sample ID: 180-184461-20**
Date Collected: 12/18/24 14:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	1.8		0.1	0.1	%			01/06/25 12:57	1

Client Sample ID: LEAF-05AREA-12182024 DRIED — **Lab Sample ID: 180-184461-21**
Date Collected: 12/18/24 14:35 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	1		0.1	0.1	%			01/06/25 12:57	1

Method: 2540G - SM 2540G

Lab Sample ID: 180-184461-1 DU
Matrix: Solid
Analysis Batch: 487279

Client Sample ID: LEAF-MW27A-12182024 PRE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	41.4		40.7		%		2	10

Method: EPA 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 180-487829/4-A
Matrix: Solid
Analysis Batch: 487867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		11	6.1	mg/Kg		01/07/25 09:43	01/07/25 17:41	1

Lab Sample ID: MB 180-487829/4-A
Matrix: Solid
Analysis Batch: 487953

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		11	6.1	mg/Kg		01/07/25 09:43	01/08/25 13:32	1

Lab Sample ID: LCS 180-487829/5-A
Matrix: Solid
Analysis Batch: 487867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	95.2	100		mg/Kg		105	90 - 110

Lab Sample ID: LCS 180-487829/5-A
Matrix: Solid
Analysis Batch: 487953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	95.2	95.2		mg/Kg		100	90 - 110

Lab Sample ID: MB 180-487842/1-A
Matrix: Solid
Analysis Batch: 487867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		11	6.1	mg/Kg		01/07/25 10:55	01/07/25 18:29	1

Lab Sample ID: MB 180-487842/1-A
Matrix: Solid
Analysis Batch: 487953

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		11	6.1	mg/Kg		01/07/25 10:55	01/08/25 13:37	1

Method: EPA 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 180-487842/2-A
Matrix: Solid
Analysis Batch: 487867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	95.2	103		mg/Kg		108	90 - 110

Lab Sample ID: LCS 180-487842/2-A
Matrix: Solid
Analysis Batch: 487953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	95.2	93.0		mg/Kg		98	90 - 110

General Chemistry

Analysis Batch: 487279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184461-1	LEAF-MW27A-12182024 PRE	Total/NA	Solid	2540G	
180-184461-2	LEAF-MW25A-12182024 PRE	Total/NA	Solid	2540G	
180-184461-3	LEAF-TM-12182024 PRE	Total/NA	Solid	2540G	
180-184461-4	LEAF-MW10A-12182024 PRE	Total/NA	Solid	2540G	
180-184461-5	LEAF-MW21A-12182024 PRE	Total/NA	Solid	2540G	
180-184461-6	LEAF-MW-05A-12182024 PRE	Total/NA	Solid	2540G	
180-184461-7	LEAF-05AREA-12182024 PRE	Total/NA	Solid	2540G	
180-184461-1 DU	LEAF-MW27A-12182024 PRE	Total/NA	Solid	2540G	

Analysis Batch: 487777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184461-15	LEAF-MW27A-12182024 DRIED	Total/NA	Solid	2540G	
180-184461-16	LEAF-MW25A-12182024 DRIED	Total/NA	Solid	2540G	
180-184461-17	LEAF-TM-12182024 DRIED	Total/NA	Solid	2540G	
180-184461-18	LEAF-MW10A-12182024 DRIED	Total/NA	Solid	2540G	
180-184461-19	LEAF-MW21A-12182024 DRIED	Total/NA	Solid	2540G	
180-184461-20	LEAF-MW-05A-12182024 DRIED	Total/NA	Solid	2540G	
180-184461-21	LEAF-05AREA-12182024 DRIED	Total/NA	Solid	2540G	

Prep Batch: 487829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184461-1	LEAF-MW27A-12182024 PRE	Total/NA	Solid	350.1	
180-184461-2	LEAF-MW25A-12182024 PRE	Total/NA	Solid	350.1	
180-184461-3	LEAF-TM-12182024 PRE	Total/NA	Solid	350.1	
180-184461-4	LEAF-MW10A-12182024 PRE	Total/NA	Solid	350.1	
180-184461-5	LEAF-MW21A-12182024 PRE	Total/NA	Solid	350.1	
MB 180-487829/4-A	Method Blank	Total/NA	Solid	350.1	
LCS 180-487829/5-A	Lab Control Sample	Total/NA	Solid	350.1	

Prep Batch: 487842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184461-6	LEAF-MW-05A-12182024 PRE	Total/NA	Solid	350.1	
180-184461-7	LEAF-05AREA-12182024 PRE	Total/NA	Solid	350.1	
MB 180-487842/1-A	Method Blank	Total/NA	Solid	350.1	
LCS 180-487842/2-A	Lab Control Sample	Total/NA	Solid	350.1	

Analysis Batch: 487867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184461-1	LEAF-MW27A-12182024 PRE	Total/NA	Solid	EPA 350.1	487829
180-184461-2	LEAF-MW25A-12182024 PRE	Total/NA	Solid	EPA 350.1	487829
180-184461-3	LEAF-TM-12182024 PRE	Total/NA	Solid	EPA 350.1	487829
180-184461-5	LEAF-MW21A-12182024 PRE	Total/NA	Solid	EPA 350.1	487829
180-184461-7	LEAF-05AREA-12182024 PRE	Total/NA	Solid	EPA 350.1	487842
MB 180-487829/4-A	Method Blank	Total/NA	Solid	EPA 350.1	487829
MB 180-487842/1-A	Method Blank	Total/NA	Solid	EPA 350.1	487842
LCS 180-487829/5-A	Lab Control Sample	Total/NA	Solid	EPA 350.1	487829
LCS 180-487842/2-A	Lab Control Sample	Total/NA	Solid	EPA 350.1	487842

Analysis Batch: 487953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184461-4	LEAF-MW10A-12182024 PRE	Total/NA	Solid	EPA 350.1	487829

General Chemistry (Continued)

Analysis Batch: 487953 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184461-6	LEAF-MW-05A-12182024 PRE	Total/NA	Solid	EPA 350.1	487842
MB 180-487829/4-A	Method Blank	Total/NA	Solid	EPA 350.1	487829
MB 180-487842/1-A	Method Blank	Total/NA	Solid	EPA 350.1	487842
LCS 180-487829/5-A	Lab Control Sample	Total/NA	Solid	EPA 350.1	487829
LCS 180-487842/2-A	Lab Control Sample	Total/NA	Solid	EPA 350.1	487842

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone. 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Corey Bryerton	Lab PM: [redacted] Carrie Gamber	Carrier Tracking No(s):	COC No: 480-199914-41224.10
Client Contact: [redacted] Corey Bryerton	Phone: (716) 720-3256	E-Mail: carrie.gamber@et.eurofinsus.com	State of Origin: NY	Page: ~~Page 19 of 19~~ 1 of 1
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): Standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: [redacted] john.black@inventumeng.com corey.bryerton@inventumeng.com	WO#:			
Project Name: [redacted] Ammonia SCO LEAF Samples	Project #: [redacted] 48028162			
Site: 3875 River Road	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL; B - NaOH; N - None; D - HNO3; S - H2SO4

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	[redacted] 1314 LEAF	[redacted] Ammonia HR										Total Number of containers	Special Instructions/Note:
Preservation Code:							●	■	●	■	■	■	■						
LEAF-MW27A-12182024	12/18/24	13:15	G	Solid			X	X	X										May contain heavy ammonia odors.
LEAF-MW25A-12182024	12/18/24	11:45	G	Solid			X	X	X										
LEAF-TM-12182024	12/18/24	13:55	G	Solid			X	X	X										
LEAF-MW10A-12182024	12/18/24	14:05	G	Solid			X	X	X										
LEAF-MW21A-12182024	12/18/24	14:55	G	Solid			X	X	X										
LEAF-MW05A-12182024	12/18/24	14:30	G	Solid			X	X	X										
LEAF-05AREA-12182024	12/18/24	14:35	G	Solid			X	X	X										

180-184461 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify) NYS DEC CAT B

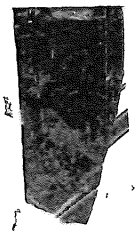
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Austin Care	12/18/24 3:30			12/20/24 1800	ET/Eurofins
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time.	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No :	Cooler Temperature(s) °C and Other Remarks

Ver: 05/06/2024



FROM: (571) 217-3627
DANIEL WALDROP

Suite C
441 Carlisle Dr Ste C
HERNDON VA 20170
US

SHIP DATE: 18DEC24
ACTWGT: 42.45 LB
CAD: 6571710/ROSA2570
DIMMED: 24 X 24 X 13 IN

BILL 3rd PARTY

TO Carrie Gamber
Eurofins Environment Testing NE LLC
301 Alpha Dr

PITTSBURGH PA 15238 (US

(000) 000-0000 REF:
INV:
PO: DEPT:

Uncorrected temp 2.6 °C
Thermometer ID 26

CF -0.8 Initials

PT-WI-SR-001 effective 7/26/13

FedEx Ground

TRK# 7708 8852 1865

15238

9622 0417 3 (000 447 6979) 9 00 7708 8852 1865

180-184461 Waybill

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 180-184461-1

Login Number: 184461
List Number: 1
Creator: Say, Thomas C

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Todd Waldrop
Inventum Engineering LLC
441 Carlisle Drive
Suite C
Herndon, Virginia 20170

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JOB DESCRIPTION

RITC-Ammonia

JOB NUMBER

180-184461-2

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

myEOL

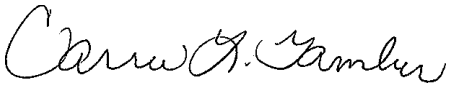
Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



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2/4/2025 2:53:40 PM

Authorized for release by
Carrie Gamber, Senior Project Manager
Carrie.Gamber@et.eurofinsus.com
(412)963-2428

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CASE NARRATIVE

Client: Inventum Engineering LLC

Project: RITC-Ammonia

Report Number: 180-184461-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 12/20/2024; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

NOTE: These samples are the analysis on the monoliths post leaching. The date sampled is the day after leaching completed. It is the day the samples were particle size reduced for total Ammonia analysis.

AMMONIA
Sample LEAF-05AREA-12182024 POST (180-184461-14) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Ammonia, distilled failed the recovery criteria high for the MS of sample LEAF-05AREA-12182024 POSTMS (180-184461-14) in batch 180-489243. Ammonia, distilled failed the recovery criteria high for the MSD of sample LEAF-05AREA-12182024 POSTMSD (180-184461-14) in batch 180-489243.

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

Definitions/Glossary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-2

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-2

Laboratory: Eurofins Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11182	04-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
EPA 350.1	350.1	Solid	Ammonia, distilled

Sample Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-184461-8	LEAF-MW27A-12182024 POST	Solid	01/18/25 06:30	12/20/24 18:00
180-184461-9	LEAF-MW25A-12182024 POST	Solid	01/18/25 06:30	12/20/24 18:00
180-184461-10	LEAF-TM-12182024 POST	Solid	01/18/25 06:30	12/20/24 18:00
180-184461-11	LEAF-MW10A-12182024 POST	Solid	01/18/25 06:30	12/20/24 18:00
180-184461-12	LEAF-MW21A-12182024 POST	Solid	01/18/25 06:30	12/20/24 18:00
180-184461-13	LEAF-MW-05A-12182024 POST	Solid	01/18/25 06:30	12/20/24 18:00
180-184461-14	LEAF-05AREA-12182024 POST	Solid	01/18/25 06:30	12/20/24 18:00

Method Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-2

Method	Method Description	Protocol	Laboratory
2540G	SM 2540G	SM22	EET PIT
EPA 350.1	Nitrogen, Ammonia	EPA	EET PIT
350.1	Distillation, Ammonia	EPA	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-2

Client Sample ID: LEAF-MW27A-12182024 POST
Lab Sample ID: 180-184461-8
Date Collected: 01/18/25 06:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			488899	01/23/25 08:37	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW27A-12182024 POST
Lab Sample ID: 180-184461-8
Date Collected: 01/18/25 06:30
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 64.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.20 g	10 mL	489214	01/29/25 10:08	BAB	EET PIT
Total/NA	Analysis	EPA 350.1		1			489243	01/29/25 15:26	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									

Client Sample ID: LEAF-MW25A-12182024 POST
Lab Sample ID: 180-184461-9
Date Collected: 01/18/25 06:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			488899	01/23/25 08:37	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW25A-12182024 POST
Lab Sample ID: 180-184461-9
Date Collected: 01/18/25 06:30
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 71.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.20 g	10 mL	489214	01/29/25 10:08	BAB	EET PIT
Total/NA	Analysis	EPA 350.1		1			489243	01/29/25 15:25	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									

Client Sample ID: LEAF-TM-12182024 POST
Lab Sample ID: 180-184461-10
Date Collected: 01/18/25 06:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			488899	01/23/25 08:37	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-TM-12182024 POST
Lab Sample ID: 180-184461-10
Date Collected: 01/18/25 06:30
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 63.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.19 g	10 mL	489214	01/29/25 10:08	BAB	EET PIT
Total/NA	Analysis	EPA 350.1		1			489243	01/29/25 15:20	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-2

Client Sample ID: LEAF-MW10A-12182024 POST
Lab Sample ID: 180-184461-11
Date Collected: 01/18/25 06:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			488899	01/23/25 08:37	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW10A-12182024 POST
Lab Sample ID: 180-184461-11
Date Collected: 01/18/25 06:30
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.18 g	10 mL	489214	01/29/25 10:08	BAB	EET PIT
Total/NA	Analysis	EPA 350.1		1			489243	01/29/25 15:19	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									

Client Sample ID: LEAF-MW21A-12182024 POST
Lab Sample ID: 180-184461-12
Date Collected: 01/18/25 06:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			488899	01/23/25 08:37	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW21A-12182024 POST
Lab Sample ID: 180-184461-12
Date Collected: 01/18/25 06:30
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 72.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.18 g	10 mL	489214	01/29/25 10:08	BAB	EET PIT
Total/NA	Analysis	EPA 350.1		1			489243	01/29/25 15:18	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									

Client Sample ID: LEAF-MW-05A-12182024 POST
Lab Sample ID: 180-184461-13
Date Collected: 01/18/25 06:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			488899	01/23/25 08:37	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW-05A-12182024 POST
Lab Sample ID: 180-184461-13
Date Collected: 01/18/25 06:30
Matrix: Solid
Date Received: 12/20/24 18:00
Percent Solids: 70.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.19 g	10 mL	489214	01/29/25 10:08	BAB	EET PIT
Total/NA	Analysis	EPA 350.1		1			489243	01/29/25 15:16	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-2

Client Sample ID: LEAF-05AREA-12182024 POST
Date Collected: 01/18/25 06:30
Date Received: 12/20/24 18:00

Lab Sample ID: 180-184461-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			488899	01/23/25 08:37	EBA	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-05AREA-12182024 POST
Date Collected: 01/18/25 06:30
Date Received: 12/20/24 18:00

Lab Sample ID: 180-184461-14
Matrix: Solid
Percent Solids: 65.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	350.1			0.19 g	10 mL	489214	01/29/25 10:08	BAB	EET PIT
Total/NA	Analysis	EPA 350.1		2			489243	01/29/25 15:13	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Prep

BAB = Brooke Batyi

Batch Type: Analysis

BAB = Brooke Batyi

EBA = Elizabeth Arbster

Client Sample ID: LEAF-MW27A-12182024 POST — **Lab Sample ID: 180-184461-8**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	35.1		0.1	0.1	%			01/23/25 08:37	1

Client Sample ID: LEAF-MW27A-12182024 POST — **Lab Sample ID: 180-184461-8**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00 — **Percent Solids: 64.9**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	210		15	8.4	mg/Kg	☼	01/29/25 10:08	01/29/25 15:26	1

Client Sample ID: LEAF-MW25A-12182024 POST — **Lab Sample ID: 180-184461-9**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	28.7		0.1	0.1	%			01/23/25 08:37	1

Client Sample ID: LEAF-MW25A-12182024 POST — **Lab Sample ID: 180-184461-9**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00 — **Percent Solids: 71.3**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	8.0	J	14	7.6	mg/Kg	☼	01/29/25 10:08	01/29/25 15:25	1

Client Sample ID: LEAF-TM-12182024 POST — **Lab Sample ID: 180-184461-10**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	36.4		0.1	0.1	%			01/23/25 08:37	1

Client Sample ID: LEAF-TM-12182024 POST — **Lab Sample ID: 180-184461-10**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00 — **Percent Solids: 63.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	17		17	9.0	mg/Kg	☼	01/29/25 10:08	01/29/25 15:20	1

Client Sample ID: LEAF-MW10A-12182024 POST — **Lab Sample ID: 180-184461-11**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	26.6		0.1	0.1	%			01/23/25 08:37	1

Client Sample ID: LEAF-MW10A-12182024 POST — **Lab Sample ID: 180-184461-11**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00 — **Percent Solids: 73.4**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	160		15	8.3	mg/Kg	☼	01/29/25 10:08	01/29/25 15:19	1

Client Sample ID: LEAF-MW21A-12182024 POST — **Lab Sample ID: 180-184461-12**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	27.5		0.1	0.1	%			01/23/25 08:37	1

Client Sample ID: LEAF-MW21A-12182024 POST — **Lab Sample ID: 180-184461-12**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00 — **Percent Solids: 72.5**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	29		15	8.4	mg/Kg	☼	01/29/25 10:08	01/29/25 15:18	1

Client Sample ID: LEAF-MW-05A-12182024 POST — **Lab Sample ID: 180-184461-13**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	29.1		0.1	0.1	%			01/23/25 08:37	1

Client Sample ID: LEAF-MW-05A-12182024 POST — **Lab Sample ID: 180-184461-13**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00 — **Percent Solids: 70.9**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	130		15	8.1	mg/Kg	☼	01/29/25 10:08	01/29/25 15:16	1

Client Sample ID: LEAF-05AREA-12182024 POST — **Lab Sample ID: 180-184461-14**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	34.3		0.1	0.1	%			01/23/25 08:37	1

Client Sample ID: LEAF-05AREA-12182024 POST — **Lab Sample ID: 180-184461-14**
Date Collected: 01/18/25 06:30 — **Matrix: Solid**
Date Received: 12/20/24 18:00 — **Percent Solids: 65.7**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	56	F1	32	17	mg/Kg	☼	01/29/25 10:08	01/29/25 15:13	2

Method: 2540G - SM 2540G

Lab Sample ID: 180-184461-8 DU
Matrix: Solid
Analysis Batch: 488899

Client Sample ID: LEAF-MW27A-12182024 POST
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	35.1		35.3		%		0.8	10

Method: EPA 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 180-489214/4-A
Matrix: Solid
Analysis Batch: 489243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489214

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		11	6.1	mg/Kg		01/29/25 10:08	01/29/25 15:10	1

Lab Sample ID: LCS 180-489214/5-A
Matrix: Solid
Analysis Batch: 489243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	95.2	95.7		mg/Kg		100	90 - 110

Lab Sample ID: 180-184461-14 MS
Matrix: Solid
Analysis Batch: 489243

Client Sample ID: LEAF-05AREA-12182024 POST
Prep Type: Total/NA
Prep Batch: 489214

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	56	F1	152	365	F1	mg/Kg	☼	203	90 - 110

Lab Sample ID: 180-184461-14 MSD
Matrix: Solid
Analysis Batch: 489243

Client Sample ID: LEAF-05AREA-12182024 POST
Prep Type: Total/NA
Prep Batch: 489214

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia, distilled	56	F1	152	336	F1	mg/Kg	☼	184	90 - 110	8	20

QC Association Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184461-2

General Chemistry

Analysis Batch: 488899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184461-8	LEAF-MW27A-12182024 POST	Total/NA	Solid	2540G	
180-184461-9	LEAF-MW25A-12182024 POST	Total/NA	Solid	2540G	
180-184461-10	LEAF-TM-12182024 POST	Total/NA	Solid	2540G	
180-184461-11	LEAF-MW10A-12182024 POST	Total/NA	Solid	2540G	
180-184461-12	LEAF-MW21A-12182024 POST	Total/NA	Solid	2540G	
180-184461-13	LEAF-MW-05A-12182024 POST	Total/NA	Solid	2540G	
180-184461-14	LEAF-05AREA-12182024 POST	Total/NA	Solid	2540G	
180-184461-8 DU	LEAF-MW27A-12182024 POST	Total/NA	Solid	2540G	

Prep Batch: 489214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184461-8	LEAF-MW27A-12182024 POST	Total/NA	Solid	350.1	
180-184461-9	LEAF-MW25A-12182024 POST	Total/NA	Solid	350.1	
180-184461-10	LEAF-TM-12182024 POST	Total/NA	Solid	350.1	
180-184461-11	LEAF-MW10A-12182024 POST	Total/NA	Solid	350.1	
180-184461-12	LEAF-MW21A-12182024 POST	Total/NA	Solid	350.1	
180-184461-13	LEAF-MW-05A-12182024 POST	Total/NA	Solid	350.1	
180-184461-14	LEAF-05AREA-12182024 POST	Total/NA	Solid	350.1	
MB 180-489214/4-A	Method Blank	Total/NA	Solid	350.1	
LCS 180-489214/5-A	Lab Control Sample	Total/NA	Solid	350.1	
180-184461-14 MS	LEAF-05AREA-12182024 POST	Total/NA	Solid	350.1	
180-184461-14 MSD	LEAF-05AREA-12182024 POST	Total/NA	Solid	350.1	

Analysis Batch: 489243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184461-8	LEAF-MW27A-12182024 POST	Total/NA	Solid	EPA 350.1	489214
180-184461-9	LEAF-MW25A-12182024 POST	Total/NA	Solid	EPA 350.1	489214
180-184461-10	LEAF-TM-12182024 POST	Total/NA	Solid	EPA 350.1	489214
180-184461-11	LEAF-MW10A-12182024 POST	Total/NA	Solid	EPA 350.1	489214
180-184461-12	LEAF-MW21A-12182024 POST	Total/NA	Solid	EPA 350.1	489214
180-184461-13	LEAF-MW-05A-12182024 POST	Total/NA	Solid	EPA 350.1	489214
180-184461-14	LEAF-05AREA-12182024 POST	Total/NA	Solid	EPA 350.1	489214
MB 180-489214/4-A	Method Blank	Total/NA	Solid	EPA 350.1	489214
LCS 180-489214/5-A	Lab Control Sample	Total/NA	Solid	EPA 350.1	489214
180-184461-14 MS	LEAF-05AREA-12182024 POST	Total/NA	Solid	EPA 350.1	489214
180-184461-14 MSD	LEAF-05AREA-12182024 POST	Total/NA	Solid	EPA 350.1	489214

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone. 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Corey Bryerton	Lab PM: [redacted] Carrie Gamber	Carrier Tracking No(s):	COC No: 480-199914-41224.10
Client Contact: [redacted] Corey Bryerton	Phone: (716) 720-3256	E-Mail: carrie.gamber@et.eurofinsus.com	State of Origin: NY	Page: ~~Page 10 of 10~~ 1of 1
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): Standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: [redacted] john.black@inventumeng.com corey.bryerton@inventumeng.com	WO#:			
Project Name: [redacted] Ammonia SCO LEAF Samples	Project #: [redacted] 48028162			
Site: 3875 River Road	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL; B - NaOH; N - None; D - HNO3; S - H2SO4

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1314 LEAF	Ammonia HR										Total Number of containers	Special Instructions/Note:
Preservation Code:																			
LEAF-MW27A-12182024	12/18/24	13:15	G	Solid			X	X	X										May contain heavy ammonia odors.
LEAF-MW25A-12182024	12/18/24	11:45	G	Solid			X	X	X										
LEAF-TM-12182024	12/18/24	13:55	G	solid			X	X	X										
LEAF-MW10A-12182024	12/18/24	14:05	G	solid			X	X	X										
LEAF-MW21A-12182024	12/18/24	14:55	G	solid			X	X	X										
LEAF-MW05A-12182024	12/18/24	14:30	G	solid			X	X	X										
LEAF-05AREA-12182024	12/18/24	14:35	G	solid			X	X	X										

180-184461 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify) NYS DEC CAT B

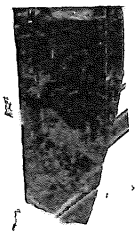
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Austin Care	12/18/24 3:30			12/20/24 1800	ET
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No :	Cooler Temperature(s) °C and Other Remarks

Ver: 05/06/2024



FROM: (571) 217-3627
DANIEL WALDROP

Suite C
441 Carlisle Dr Ste C
HERNDON VA 20170
US

SHIP DATE: 18DEC24
ACTWGT: 42.45 LB
CAD: 6571710/ROSA2570
DIMMED: 24 X 24 X 13 IN

BILL 3rd PARTY

TO Carrie Gamber
Eurofins Environment Testing NE LLC
301 Alpha Dr

PITTSBURGH PA 15238 (US

(000) 000-0000 REF:
INV:
PO: DEPT:

Uncorrected temp 2.6 °C
Thermometer ID 26

CF -0.8 Initials

PT-WI-SR-001 effective 7/26/13

FedEx Ground

TRK# 7708 8852 1865

15238

9622 0417 3 (000 447 6979) 9 00 7708 8852 1865

180-184461 Waybill

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 180-184461-2

Login Number: 184461
List Number: 1
Creator: Say, Thomas C

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Todd Waldrop
Inventum Engineering LLC
441 Carlisle Drive
Suite C
Herndon, Virginia 20170

Generated 2/5/2025 7:30:44 AM

JOB DESCRIPTION

RITC-Ammonia

JOB NUMBER

180-184462-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

my EOL

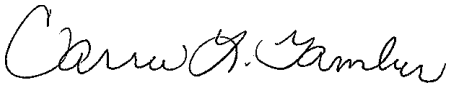
Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



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Authorized for release by
Carrie Gamber, Senior Project Manager
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(412)963-2428

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CASE NARRATIVE

Client: Inventum Engineering LLC

Project: RITC-Ammonia

Report Number: 180-184462-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 12/20/2024; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

GENERAL CHEMSITRY
Several samples were diluted to bring the concentration of Ammonia within the calibration range. Elevated reporting limits (RLs) are provided.

Ammonia, distilled failed the recovery criteria high for the MS of sample LEAF-MW25A-12182024 T01MS (180-184462-10) in batch 180-488594. Ammonia, distilled failed the recovery criteria high for the MSD of sample LEAF-MW25A-12182024 T01MSD (180-184462-10) in batch 180-488594. The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Ammonia, distilled failed the recovery criteria low for the MS of sample LEAF-TM-12182024 T06MS (180-184462-24) in batch 180-488491.

Ammonia, distilled failed the recovery criteria low for the MS of sample LEAF-MW27A-12182024 T04MS (180-184462-4) in batch 180-488474. Ammonia, distilled failed the recovery criteria low for the MSD of sample LEAF-MW27A-12182024 T04MSD (180-184462-4) in batch 180-488474.

Qualifiers

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Laboratory: Eurofins Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11182	04-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 350.1		Solid	Ammonia, distilled
SM 2510B		Solid	Specific Conductance
SM 2580B		Solid	Oxidation Reduction Potential

Sample Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-184462-1	LEAF-MW27A-12182024 T01	Solid	12/18/24 13:15	12/20/24 18:00
180-184462-2	LEAF-MW27A-12182024 T02	Solid	12/18/24 13:15	12/20/24 18:00
180-184462-3	LEAF-MW27A-12182024 T03	Solid	12/18/24 13:15	12/20/24 18:00
180-184462-4	LEAF-MW27A-12182024 T04	Solid	12/18/24 13:15	12/20/24 18:00
180-184462-5	LEAF-MW27A-12182024 T05	Solid	12/18/24 13:15	12/20/24 18:00
180-184462-6	LEAF-MW27A-12182024 T06	Solid	12/18/24 13:15	12/20/24 18:00
180-184462-7	LEAF-MW27A-12182024 T07	Solid	12/18/24 13:15	12/20/24 18:00
180-184462-8	LEAF-MW27A-12182024 T08	Solid	12/18/24 13:15	12/20/24 18:00
180-184462-9	LEAF-MW27A-12182024 T09	Solid	12/18/24 13:15	12/20/24 18:00
180-184462-10	LEAF-MW25A-12182024 T01	Solid	12/18/24 11:45	12/20/24 18:00
180-184462-11	LEAF-MW25A-12182024 T02	Solid	12/18/24 11:45	12/20/24 18:00
180-184462-12	LEAF-MW25A-12182024 T03	Solid	12/18/24 11:45	12/20/24 18:00
180-184462-13	LEAF-MW25A-12182024 T04	Solid	12/18/24 11:45	12/20/24 18:00
180-184462-14	LEAF-MW25A-12182024 T05	Solid	12/18/24 11:45	12/20/24 18:00
180-184462-15	LEAF-MW25A-12182024 T06	Solid	12/18/24 11:45	12/20/24 18:00
180-184462-16	LEAF-MW25A-12182024 T07	Solid	12/18/24 11:45	12/20/24 18:00
180-184462-17	LEAF-MW25A-12182024 T08	Solid	12/18/24 11:45	12/20/24 18:00
180-184462-18	LEAF-MW25A-12182024 T09	Solid	12/18/24 11:45	12/20/24 18:00
180-184462-19	LEAF-TM-12182024 T01	Solid	12/18/24 13:55	12/20/24 18:00
180-184462-20	LEAF-TM-12182024 T02	Solid	12/18/24 13:55	12/20/24 18:00
180-184462-21	LEAF-TM-12182024 T03	Solid	12/18/24 13:55	12/20/24 18:00
180-184462-22	LEAF-TM-12182024 T04	Solid	12/18/24 13:55	12/20/24 18:00
180-184462-23	LEAF-TM-12182024 T05	Solid	12/18/24 13:55	12/20/24 18:00
180-184462-24	LEAF-TM-12182024 T06	Solid	12/18/24 13:55	12/20/24 18:00
180-184462-25	LEAF-TM-12182024 T07	Solid	12/18/24 13:55	12/20/24 18:00
180-184462-26	LEAF-TM-12182024 T08	Solid	12/18/24 13:55	12/20/24 18:00
180-184462-27	LEAF-TM-12182024 T09	Solid	12/18/24 13:55	12/20/24 18:00

Method Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Method	Method Description	Protocol	Laboratory
EPA 350.1	Nitrogen, Ammonia	EPA	EET PIT
EPA 9040C	pH	SW846	EET PIT
SM 2510B	Conductivity, Specific Conductance	SM	EET PIT
SM 2580B	Reduction-Oxidation (REDOX) Potential	SM	EET PIT
1314	Up-Flow Percolation Column Leach Procedure	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Client Sample ID: LEAF-MW27A-12182024 T01

Lab Sample ID: 180-184462-1
Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			462.4 g	121.1 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		5			488594	01/17/25 11:40	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			462.4 g	121.1 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:46	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			462.4 g	121.1 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			462.4 g	121.1 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 12:09	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW27A-12182024 T02

Lab Sample ID: 180-184462-2
Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			462.4 g	135.0 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 350.1		5			488474	01/16/25 10:26	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			462.4 g	135.0 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:50	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			462.4 g	135.0 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			462.4 g	135.0 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 12:54	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW27A-12182024 T03

Lab Sample ID: 180-184462-3
Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			462.4 g	142.6 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			488474	01/16/25 10:53	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			462.4 g	142.6 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:14	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			462.4 g	142.6 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Client Sample ID: LEAF-MW27A-12182024 T03

Lab Sample ID: 180-184462-3

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			462.4 g	142.6 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 13:40	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW27A-12182024 T04

Lab Sample ID: 180-184462-4

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			462.4 g	194.0 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			488474	01/16/25 10:03	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			462.4 g	194.0 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:03	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			462.4 g	194.0 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			462.4 g	194.0 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 14:37	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW27A-12182024 T05

Lab Sample ID: 180-184462-5

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			462.4 g	226.0 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			488474	01/16/25 11:16	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			462.4 g	226.0 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:25	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			462.4 g	226.0 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			462.4 g	226.0 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 15:18	ELS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Client Sample ID: LEAF-MW27A-12182024 T06

Lab Sample ID: 180-184462-6

Date Collected: 12/18/24 13:15

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			462.4 g	1182.1 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			488474	01/16/25 11:35	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			462.4 g	1182.1 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:04	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			462.4 g	1182.1 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:13	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			462.4 g	1182.1 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 16:00	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW27A-12182024 T07

Lab Sample ID: 180-184462-7

Date Collected: 12/18/24 13:15

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			462.4 g	226.9 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		1			488594	01/17/25 12:26	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			462.4 g	226.9 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:19	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			462.4 g	226.9 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:13	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			462.4 g	226.9 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488233	01/14/25 14:46	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW27A-12182024 T08

Lab Sample ID: 180-184462-8

Date Collected: 12/18/24 13:15

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			462.4 g	2138.1 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			489008	01/24/25 09:59	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			462.4 g	2138.1 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 09:56	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			462.4 g	2138.1 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:44	RAO	EET PIT
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Client Sample ID: LEAF-MW27A-12182024 T08

Lab Sample ID: 180-184462-8

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			462.4 g	2138.1 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 14:19	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW27A-12182024 T09

Lab Sample ID: 180-184462-9

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			462.4 g	245.6 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		1			489008	01/24/25 10:24	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			462.4 g	245.6 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 09:49	BAB	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			462.4 g	245.6 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:43	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			462.4 g	245.6 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 15:52	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW25A-12182024 T01

Lab Sample ID: 180-184462-10

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			512.3 g	137.2 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		10			488594	01/17/25 11:51	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			512.3 g	137.2 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:45	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			512.3 g	137.2 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:45	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			512.3 g	137.2 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 12:19	ELS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Client Sample ID: LEAF-MW25A-12182024 T02

Lab Sample ID: 180-184462-11

Date Collected: 12/18/24 11:45

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			512.3 g	217.0 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 350.1		5			488474	01/16/25 10:28	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			512.3 g	217.0 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:59	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			512.3 g	217.0 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			512.3 g	217.0 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 13:05	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW25A-12182024 T03

Lab Sample ID: 180-184462-12

Date Collected: 12/18/24 11:45

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			512.3 g	331.5 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			488474	01/16/25 10:55	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			512.3 g	331.5 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:13	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			512.3 g	331.5 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			512.3 g	331.5 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 13:45	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW25A-12182024 T04

Lab Sample ID: 180-184462-13

Date Collected: 12/18/24 11:45

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			512.3 g	284.3 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			488474	01/16/25 10:09	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			512.3 g	284.3 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:06	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			512.3 g	284.3 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Client Sample ID: LEAF-MW25A-12182024 T04

Lab Sample ID: 180-184462-13

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			512.3 g	284.3 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 14:46	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW25A-12182024 T05

Lab Sample ID: 180-184462-14

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			512.3 g	261.7 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			488474	01/16/25 11:18	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			512.3 g	261.7 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:26	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			512.3 g	261.7 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			512.3 g	261.7 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 15:28	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW25A-12182024 T06

Lab Sample ID: 180-184462-15

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			512.3 g	1325.1 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			488474	01/16/25 11:37	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			512.3 g	1325.1 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:07	BAB	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			512.3 g	1325.1 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:13	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			512.3 g	1325.1 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 16:04	ELS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Client Sample ID: LEAF-MW25A-12182024 T07

Lab Sample ID: 180-184462-16

Date Collected: 12/18/24 11:45

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			512.3 g	248.7 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		1			488594	01/17/25 12:27	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			512.3 g	248.7 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:22	BAB	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			512.3 g	248.7 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:13	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			512.3 g	248.7 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488233	01/14/25 15:01	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW25A-12182024 T08

Lab Sample ID: 180-184462-17

Date Collected: 12/18/24 11:45

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			512.3 g	2297.4 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		1			489008	01/24/25 10:01	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			512.3 g	2297.4 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 10:01	BAB	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			512.3 g	2297.4 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:44	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			512.3 g	2297.4 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 14:40	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW25A-12182024 T09

Lab Sample ID: 180-184462-18

Date Collected: 12/18/24 11:45

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			512.3 g	259.5 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		1			489008	01/24/25 10:18	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			512.3 g	259.5 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 09:47	BAB	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			512.3 g	259.5 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:43	RAO	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Client Sample ID: LEAF-MW25A-12182024 T09

Lab Sample ID: 180-184462-18

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			512.3 g	259.5 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 16:13	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-TM-12182024 T01

Lab Sample ID: 180-184462-19

Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			526.5 g	115.7 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		20			488594	01/17/25 12:52	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			526.5 g	115.7 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:44	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			526.5 g	115.7 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:45	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			526.5 g	115.7 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 12:24	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-TM-12182024 T02

Lab Sample ID: 180-184462-20

Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			526.5 g	149.9 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 350.1		25			488474	01/16/25 10:30	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			526.5 g	149.9 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:00	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			526.5 g	149.9 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			526.5 g	149.9 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 13:10	ELS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Client Sample ID: LEAF-TM-12182024 T03

Lab Sample ID: 180-184462-21

Date Collected: 12/18/24 13:55

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			526.5 g	252.0 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		25			488474	01/16/25 11:02	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			526.5 g	252.0 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:15	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			526.5 g	252.0 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			526.5 g	252.0 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 13:50	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-TM-12182024 T04

Lab Sample ID: 180-184462-22

Date Collected: 12/18/24 13:55

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			526.5 g	287.6 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		10			488474	01/16/25 10:16	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			526.5 g	287.6 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:36	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			526.5 g	287.6 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 17:27	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			526.5 g	287.6 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 14:51	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-TM-12182024 T05

Lab Sample ID: 180-184462-23

Date Collected: 12/18/24 13:55

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			526.5 g	297.0 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		5			488474	01/16/25 11:25	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			526.5 g	297.0 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:24	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			526.5 g	297.0 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Client Sample ID: LEAF-TM-12182024 T05

Lab Sample ID: 180-184462-23

Date Collected: 12/18/24 13:55

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			526.5 g	297.0 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 15:32	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-TM-12182024 T06

Lab Sample ID: 180-184462-24

Date Collected: 12/18/24 13:55

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			526.5 g	1429.3 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			488491	01/16/25 14:29	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			526.5 g	1429.3 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:09	BAB	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			526.5 g	1429.3 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:13	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			526.5 g	1429.3 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 16:09	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-TM-12182024 T07

Lab Sample ID: 180-184462-25

Date Collected: 12/18/24 13:55

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			526.5 g	270.1 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			488594	01/17/25 12:29	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			526.5 g	270.1 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:25	BAB	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			526.5 g	270.1 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:13	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			526.5 g	270.1 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488233	01/14/25 15:08	ELS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Client Sample ID: LEAF-TM-12182024 T08

Lab Sample ID: 180-184462-26

Date Collected: 12/18/24 13:55

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			526.5 g	2473.0 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			489008	01/24/25 10:09	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			526.5 g	2473.0 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 10:03	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			526.5 g	2473.0 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:44	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			526.5 g	2473.0 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 14:50	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-TM-12182024 T09

Lab Sample ID: 180-184462-27

Date Collected: 12/18/24 13:55

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			526.5 g	278.2 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		1			489008	01/24/25 10:32	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			526.5 g	278.2 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 09:45	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			526.5 g	278.2 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:43	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			526.5 g	278.2 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 16:23	ELS	EET PIT
	Instrument ID:	NOEQUIP								

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Leach

TCS = Thomas Say

Batch Type: Analysis

BAB = Brooke Batyi

ELS = Edwin Shireman

RAO = Rachel Oster

SNR = Sabra Richart

Client Sample ID: LEAF-MW27A-12182024 T01

Lab Sample ID: 180-184462-1

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.71		0.50	0.44	mg/L			01/17/25 11:40	5
pH (SW846 EPA 9040C)	5.8	H3	0.1	0.1	SU			01/10/25 15:46	1
Specific Conductance (SM 2510B)	3100		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	150		10	10	millivolts			01/10/25 12:09	1

Client Sample ID: LEAF-MW27A-12182024 T02

Lab Sample ID: 180-184462-2

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	3.1		0.50	0.44	mg/L			01/16/25 10:26	5
pH (SW846 EPA 9040C)	6.3	H3	0.1	0.1	SU			01/10/25 15:50	1
Specific Conductance (SM 2510B)	2700		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	120		10	10	millivolts			01/10/25 12:54	1

Client Sample ID: LEAF-MW27A-12182024 T03

Lab Sample ID: 180-184462-3

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.52		0.20	0.18	mg/L			01/16/25 10:53	2
pH (SW846 EPA 9040C)	6.6	H3	0.1	0.1	SU			01/10/25 16:14	1
Specific Conductance (SM 2510B)	2500		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	110		10	10	millivolts			01/10/25 13:40	1

Client Sample ID: LEAF-MW27A-12182024 T04

Lab Sample ID: 180-184462-4

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	1.8	F1	0.20	0.18	mg/L			01/16/25 10:03	2
pH (SW846 EPA 9040C)	6.6	H3	0.1	0.1	SU			01/10/25 16:03	1
Specific Conductance (SM 2510B)	2400		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	160		10	10	millivolts			01/13/25 14:37	1

Client Sample ID: LEAF-MW27A-12182024 T05

Lab Sample ID: 180-184462-5

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	1.2		0.20	0.18	mg/L			01/16/25 11:16	2
pH (SW846 EPA 9040C)	5.8	H3	0.1	0.1	SU			01/10/25 16:25	1
Specific Conductance (SM 2510B)	2300		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	130		10	10	millivolts			01/13/25 15:18	1

Client Sample ID: LEAF-MW27A-12182024 T06

Lab Sample ID: 180-184462-6

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.63		0.20	0.18	mg/L			01/16/25 11:35	2
pH (SW846 EPA 9040C)	6.1	H3	0.1	0.1	SU			01/18/25 11:04	1
Specific Conductance (SM 2510B)	2300		1.0	1.0	umhos/cm			01/15/25 15:13	1
Oxidation Reduction Potential (SM 2580B)	100		10	10	millivolts			01/13/25 16:00	1

Client Sample ID: LEAF-MW27A-12182024 T07

Lab Sample ID: 180-184462-7

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.37		0.10	0.088	mg/L			01/17/25 12:26	1
pH (SW846 EPA 9040C)	6.3	H3	0.1	0.1	SU			01/18/25 11:19	1
Specific Conductance (SM 2510B)	2200		1.0	1.0	umhos/cm			01/15/25 15:13	1
Oxidation Reduction Potential (SM 2580B)	130		10	10	millivolts			01/14/25 14:46	1

Client Sample ID: LEAF-MW27A-12182024 T08

Lab Sample ID: 180-184462-8

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.18	J	0.20	0.18	mg/L			01/24/25 09:59	2
pH (SW846 EPA 9040C)	6.2	H3	0.1	0.1	SU			01/22/25 09:56	1
Specific Conductance (SM 2510B)	1800		1.0	1.0	umhos/cm			01/22/25 15:44	1
Oxidation Reduction Potential (SM 2580B)	110		10	10	millivolts			01/20/25 14:19	1

Client Sample ID: LEAF-MW27A-12182024 T09

Lab Sample ID: 180-184462-9

Date Collected: 12/18/24 13:15
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	ND		0.10	0.088	mg/L			01/24/25 10:24	1
pH (SW846 EPA 9040C)	6.6	H3	0.1	0.1	SU			01/22/25 09:49	1
Specific Conductance (SM 2510B)	1200		1.0	1.0	umhos/cm			01/22/25 15:43	1
Oxidation Reduction Potential (SM 2580B)	60		10	10	millivolts			01/20/25 15:52	1

Client Sample ID: LEAF-MW25A-12182024 T01

Lab Sample ID: 180-184462-10

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	5.7		1.0	0.88	mg/L			01/17/25 11:51	10
pH (SW846 EPA 9040C)	7.7	H3	0.1	0.1	SU			01/10/25 15:45	1
Specific Conductance (SM 2510B)	2400		1.0	1.0	umhos/cm			01/10/25 16:45	1
Oxidation Reduction Potential (SM 2580B)	100		10	10	millivolts			01/10/25 12:19	1

Client Sample ID: LEAF-MW25A-12182024 T02

Lab Sample ID: 180-184462-11

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	3.3		0.50	0.44	mg/L			01/16/25 10:28	5
pH (SW846 EPA 9040C)	8.0	H3	0.1	0.1	SU			01/10/25 15:59	1
Specific Conductance (SM 2510B)	1300		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	110		10	10	millivolts			01/10/25 13:05	1

Client Sample ID: LEAF-MW25A-12182024 T03

Lab Sample ID: 180-184462-12

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	1.9		0.20	0.18	mg/L			01/16/25 10:55	2
pH (SW846 EPA 9040C)	8.0	H3	0.1	0.1	SU			01/10/25 16:13	1
Specific Conductance (SM 2510B)	720		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	110		10	10	millivolts			01/10/25 13:45	1

Client Sample ID: LEAF-MW25A-12182024 T04

Lab Sample ID: 180-184462-13

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	1.1		0.20	0.18	mg/L			01/16/25 10:09	2
pH (SW846 EPA 9040C)	8.1	H3	0.1	0.1	SU			01/10/25 16:06	1
Specific Conductance (SM 2510B)	390		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	90		10	10	millivolts			01/13/25 14:46	1

Client Sample ID: LEAF-MW25A-12182024 T05

Lab Sample ID: 180-184462-14

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.85		0.20	0.18	mg/L			01/16/25 11:18	2
pH (SW846 EPA 9040C)	7.9	H3	0.1	0.1	SU			01/10/25 16:26	1
Specific Conductance (SM 2510B)	310		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	92		10	10	millivolts			01/13/25 15:28	1

Client Sample ID: LEAF-MW25A-12182024 T06

Lab Sample ID: 180-184462-15

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.56		0.20	0.18	mg/L			01/16/25 11:37	2
pH (SW846 EPA 9040C)	8.1	H3	0.1	0.1	SU			01/18/25 11:07	1
Specific Conductance (SM 2510B)	250		1.0	1.0	umhos/cm			01/15/25 15:13	1
Oxidation Reduction Potential (SM 2580B)	96		10	10	millivolts			01/13/25 16:04	1

Client Sample ID: LEAF-MW25A-12182024 T07

Lab Sample ID: 180-184462-16

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.36		0.10	0.088	mg/L			01/17/25 12:27	1
pH (SW846 EPA 9040C)	8.1	H3	0.1	0.1	SU			01/18/25 11:22	1
Specific Conductance (SM 2510B)	230		1.0	1.0	umhos/cm			01/15/25 15:13	1
Oxidation Reduction Potential (SM 2580B)	81		10	10	millivolts			01/14/25 15:01	1

Client Sample ID: LEAF-MW25A-12182024 T08

Lab Sample ID: 180-184462-17

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.26		0.10	0.088	mg/L			01/24/25 10:01	1
pH (SW846 EPA 9040C)	8.1	H3	0.1	0.1	SU			01/22/25 10:01	1
Specific Conductance (SM 2510B)	190		1.0	1.0	umhos/cm			01/22/25 15:44	1
Oxidation Reduction Potential (SM 2580B)	76		10	10	millivolts			01/20/25 14:40	1

Client Sample ID: LEAF-MW25A-12182024 T09

Lab Sample ID: 180-184462-18

Date Collected: 12/18/24 11:45
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.22		0.10	0.088	mg/L			01/24/25 10:18	1
pH (SW846 EPA 9040C)	8.2	H3	0.1	0.1	SU			01/22/25 09:47	1
Specific Conductance (SM 2510B)	170		1.0	1.0	umhos/cm			01/22/25 15:43	1
Oxidation Reduction Potential (SM 2580B)	120		10	10	millivolts			01/20/25 16:13	1

Client Sample ID: LEAF-TM-12182024 T01

Lab Sample ID: 180-184462-19

Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	10		2.0	1.8	mg/L			01/17/25 12:52	20
pH (SW846 EPA 9040C)	12.0	H3	0.1	0.1	SU			01/10/25 15:44	1
Specific Conductance (SM 2510B)	5400		1.0	1.0	umhos/cm			01/10/25 16:45	1
Oxidation Reduction Potential (SM 2580B)	- 60		10	10	millivolts			01/10/25 12:24	1

Client Sample ID: LEAF-TM-12182024 T02

Lab Sample ID: 180-184462-20

Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	7.0		2.5	2.2	mg/L			01/16/25 10:30	25
pH (SW846 EPA 9040C)	12.0	H3	0.1	0.1	SU			01/10/25 16:00	1
Specific Conductance (SM 2510B)	3300		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	20		10	10	millivolts			01/10/25 13:10	1

Client Sample ID: LEAF-TM-12182024 T03

Lab Sample ID: 180-184462-21

Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	3.7		2.5	2.2	mg/L			01/16/25 11:02	25
pH (SW846 EPA 9040C)	12.0	H3	0.1	0.1	SU			01/10/25 16:15	1
Specific Conductance (SM 2510B)	2900		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	- 32		10	10	millivolts			01/10/25 13:50	1

Client Sample ID: LEAF-TM-12182024 T04

Lab Sample ID: 180-184462-22

Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	2.6		1.0	0.88	mg/L			01/16/25 10:16	10
pH (SW846 EPA 9040C)	11.9	H3	0.1	0.1	SU			01/10/25 16:36	1
Specific Conductance (SM 2510B)	2400		1.0	1.0	umhos/cm			01/10/25 17:27	1
Oxidation Reduction Potential (SM 2580B)	- 70		10	10	millivolts			01/13/25 14:51	1

Client Sample ID: LEAF-TM-12182024 T05

Lab Sample ID: 180-184462-23

Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	1.8		0.50	0.44	mg/L			01/16/25 11:25	5
pH (SW846 EPA 9040C)	11.9	H3	0.1	0.1	SU			01/10/25 16:24	1
Specific Conductance (SM 2510B)	2100		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	+ 6		10	10	millivolts			01/13/25 15:32	1

Client Sample ID: LEAF-TM-12182024 T06

Lab Sample ID: 180-184462-24

Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	1.0	F1	0.20	0.18	mg/L			01/16/25 14:29	2
pH (SW846 EPA 9040C)	11.8	H3	0.1	0.1	SU			01/18/25 11:09	1
Specific Conductance (SM 2510B)	1600		1.0	1.0	umhos/cm			01/15/25 15:13	1
Oxidation Reduction Potential (SM 2580B)	- 20		10	10	millivolts			01/13/25 16:09	1

Client Sample ID: LEAF-TM-12182024 T07

Lab Sample ID: 180-184462-25

Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.81		0.20	0.18	mg/L			01/17/25 12:29	2
pH (SW846 EPA 9040C)	11.7	H3	0.1	0.1	SU			01/18/25 11:25	1
Specific Conductance (SM 2510B)	1400		1.0	1.0	umhos/cm			01/15/25 15:13	1
Oxidation Reduction Potential (SM 2580B)	+ 6		10	10	millivolts			01/14/25 15:08	1

Client Sample Results

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184462-1

Client Sample ID: LEAF-TM-12182024 T08

Lab Sample ID: 180-184462-26

Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.60		0.20	0.18	mg/L			01/24/25 10:09	2
pH (SW846 EPA 9040C)	11.2	H3	0.1	0.1	SU			01/22/25 10:03	1
Specific Conductance (SM 2510B)	620		1.0	1.0	umhos/cm			01/22/25 15:44	1
Oxidation Reduction Potential (SM 2580B)	12		10	10	millivolts			01/20/25 14:50	1

Client Sample ID: LEAF-TM-12182024 T09

Lab Sample ID: 180-184462-27

Date Collected: 12/18/24 13:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.52		0.10	0.088	mg/L			01/24/25 10:32	1
pH (SW846 EPA 9040C)	11.6	H3	0.1	0.1	SU			01/22/25 09:45	1
Specific Conductance (SM 2510B)	820		1.0	1.0	umhos/cm			01/22/25 15:43	1
Oxidation Reduction Potential (SM 2580B)	30		10	10	millivolts			01/20/25 16:23	1

Method: EPA 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 180-488491/17
Matrix: Solid
Analysis Batch: 488491

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/16/25 14:22	1

Lab Sample ID: MB 180-488491/19
Matrix: Solid
Analysis Batch: 488491

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/16/25 14:26	1

Lab Sample ID: LCS 180-488491/18
Matrix: Solid
Analysis Batch: 488491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	0.500	0.476		mg/L		95	90 - 110

Lab Sample ID: MB 180-488594/49
Matrix: Solid
Analysis Batch: 488594

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/17/25 10:34	1

Lab Sample ID: MB 180-488594/84
Matrix: Solid
Analysis Batch: 488594

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/17/25 11:41	1

Lab Sample ID: LCS 180-488594/53
Matrix: Solid
Analysis Batch: 488594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	0.500	0.519		mg/L		104	90 - 110

Lab Sample ID: LCS 180-488594/85
Matrix: Solid
Analysis Batch: 488594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	0.500	0.518		mg/L		104	90 - 110

Lab Sample ID: MB 180-489008/17
Matrix: Solid
Analysis Batch: 489008

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/24/25 09:46	1

Method: EPA 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 180-489008/18
Matrix: Solid
Analysis Batch: 489008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	0.500	0.472		mg/L		94	90 - 110

Lab Sample ID: 180-184462-4 MS
Matrix: Solid
Analysis Batch: 488474

Client Sample ID: LEAF-MW27A-12182024 T04
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	1.8	F1	0.500	2.14	F1	mg/L		78	90 - 110

Lab Sample ID: 180-184462-4 MSD
Matrix: Solid
Analysis Batch: 488474

Client Sample ID: LEAF-MW27A-12182024 T04
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia, distilled	1.8	F1	0.500	2.15	F1	mg/L		79	90 - 110	0	20

Lab Sample ID: 180-184462-24 MS
Matrix: Solid
Analysis Batch: 488491

Client Sample ID: LEAF-TM-12182024 T06
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	1.0	F1	0.500	1.45	F1	mg/L		82	90 - 110

Lab Sample ID: 180-184462-24 MSD
Matrix: Solid
Analysis Batch: 488491

Client Sample ID: LEAF-TM-12182024 T06
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia, distilled	1.0	F1	0.500	1.53		mg/L		99	90 - 110	6	20

Lab Sample ID: LB 180-488380/1-A
Matrix: Solid
Analysis Batch: 488594

Client Sample ID: Method Blank
Prep Type: Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/17/25 12:06	1

Lab Sample ID: 180-184462-10 MS
Matrix: Solid
Analysis Batch: 488594

Client Sample ID: LEAF-MW25A-12182024 T01
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	5.7		0.500	6.38	4	mg/L		138	90 - 110

Lab Sample ID: 180-184462-10 MSD
Matrix: Solid
Analysis Batch: 488594

Client Sample ID: LEAF-MW25A-12182024 T01
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia, distilled	5.7		0.500	6.72	4	mg/L		206	90 - 110	5	20

Method: EPA 350.1 - Nitrogen, Ammonia

Lab Sample ID: 180-184462-18 MS
Matrix: Solid
Analysis Batch: 489008

Client Sample ID: LEAF-MW25A-12182024 T09
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	0.22		0.500	0.700		mg/L		97	90 - 110

Lab Sample ID: 180-184462-18 MSD
Matrix: Solid
Analysis Batch: 489008

Client Sample ID: LEAF-MW25A-12182024 T09
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia, distilled	0.22		0.500	0.706		mg/L		98	90 - 110	1	20

Method: EPA 9040C - pH

Lab Sample ID: LCS 180-488096/24
Matrix: Solid
Analysis Batch: 488096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		99	99 - 101

Lab Sample ID: LCS 180-488096/48
Matrix: Solid
Analysis Batch: 488096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 180-488096/71
Matrix: Solid
Analysis Batch: 488096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		99	99 - 101

Lab Sample ID: LCS 180-488621/1
Matrix: Solid
Analysis Batch: 488621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 180-488851/1
Matrix: Solid
Analysis Batch: 488851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

Method: EPA 9040C - pH (Continued)

Lab Sample ID: LCS 180-488851/24
Matrix: Solid
Analysis Batch: 488851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: LCS 180-488851/46
Matrix: Solid
Analysis Batch: 488851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 180-184462-13 DU
Matrix: Solid
Analysis Batch: 488096

Client Sample ID: LEAF-MW25A-12182024 T04
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.1	H3		8.1		SU				0.5	2

Lab Sample ID: 180-184462-6 DU
Matrix: Solid
Analysis Batch: 488621

Client Sample ID: LEAF-MW27A-12182024 T06
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.1	H3		6.1		SU				0	2

Lab Sample ID: 180-184462-16 DU
Matrix: Solid
Analysis Batch: 488621

Client Sample ID: LEAF-MW25A-12182024 T07
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.1	H3		8.1		SU				0	2

Lab Sample ID: LB 180-488654/1-A
Matrix: Solid
Analysis Batch: 488851

Client Sample ID: Method Blank
Prep Type: Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.0		0.1	0.1	SU			01/22/25 09:24	1

Lab Sample ID: 180-184462-8 DU
Matrix: Solid
Analysis Batch: 488851

Client Sample ID: LEAF-MW27A-12182024 T08
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.2	H3		6.2		SU				0	2

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 180-488095/2
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/10/25 16:41	1

Lab Sample ID: MB 180-488095/30
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/10/25 16:42	1

Lab Sample ID: MB 180-488095/58
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/10/25 16:45	1

Lab Sample ID: LCS 180-488095/1
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	86.6		umhos/cm		103	90 - 110

Lab Sample ID: LCS 180-488095/29
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	87.0		umhos/cm		104	90 - 110

Lab Sample ID: LCS 180-488095/57
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	86.8		umhos/cm		103	90 - 110

Lab Sample ID: MB 180-488384/28
Matrix: Solid
Analysis Batch: 488384

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/15/25 15:09	1

Lab Sample ID: MB 180-488384/54
Matrix: Solid
Analysis Batch: 488384

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/15/25 15:13	1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCS 180-488384/27
Matrix: Solid
Analysis Batch: 488384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	88.7		umhos/cm		106	90 - 110

Lab Sample ID: LCS 180-488384/53
Matrix: Solid
Analysis Batch: 488384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	87.4		umhos/cm		104	90 - 110

Lab Sample ID: MB 180-488859/2
Matrix: Solid
Analysis Batch: 488859

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/22/25 15:43	1

Lab Sample ID: MB 180-488859/30
Matrix: Solid
Analysis Batch: 488859

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/22/25 15:44	1

Lab Sample ID: LCS 180-488859/1
Matrix: Solid
Analysis Batch: 488859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	87.0		umhos/cm		104	90 - 110

Lab Sample ID: LCS 180-488859/29
Matrix: Solid
Analysis Batch: 488859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	85.7		umhos/cm		102	90 - 110

Lab Sample ID: 180-184462-17 DU
Matrix: Solid
Analysis Batch: 488859

Client Sample ID: LEAF-MW25A-12182024 T08
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	190		196		umhos/cm		0.8	20

Method: SM 2580B - Reduction-Oxidation (REDOX) Potential

Lab Sample ID: 180-184462-1 DU — **Client Sample ID: LEAF-MW27A-12182024 T01**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 488076

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Oxidation Reduction Potential	150			135		millivolts				7	20

Lab Sample ID: 180-184462-4 DU — **Client Sample ID: LEAF-MW27A-12182024 T04**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 488173

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Oxidation Reduction Potential	160			158		millivolts				1	20

Lab Sample ID: 180-184462-7 DU — **Client Sample ID: LEAF-MW27A-12182024 T07**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 488233

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Oxidation Reduction Potential	130			121		millivolts				7	20

Lab Sample ID: 180-184462-8 DU — **Client Sample ID: LEAF-MW27A-12182024 T08**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 488685

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Oxidation Reduction Potential	110			113		millivolts				3	20

General Chemistry

Leach Batch: 487775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-1	LEAF-MW27A-12182024 T01	Leach	Solid	1314	
180-184462-10	LEAF-MW25A-12182024 T01	Leach	Solid	1314	
180-184462-19	LEAF-TM-12182024 T01	Leach	Solid	1314	
180-184462-10 MS	LEAF-MW25A-12182024 T01	Leach	Solid	1314	
180-184462-10 MSD	LEAF-MW25A-12182024 T01	Leach	Solid	1314	
180-184462-1 DU	LEAF-MW27A-12182024 T01	Leach	Solid	1314	

Leach Batch: 487778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-2	LEAF-MW27A-12182024 T02	Leach	Solid	1314	
180-184462-11	LEAF-MW25A-12182024 T02	Leach	Solid	1314	
180-184462-20	LEAF-TM-12182024 T02	Leach	Solid	1314	

Leach Batch: 487779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-3	LEAF-MW27A-12182024 T03	Leach	Solid	1314	
180-184462-12	LEAF-MW25A-12182024 T03	Leach	Solid	1314	
180-184462-21	LEAF-TM-12182024 T03	Leach	Solid	1314	

Leach Batch: 487780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-4	LEAF-MW27A-12182024 T04	Leach	Solid	1314	
180-184462-13	LEAF-MW25A-12182024 T04	Leach	Solid	1314	
180-184462-22	LEAF-TM-12182024 T04	Leach	Solid	1314	
180-184462-4 MS	LEAF-MW27A-12182024 T04	Leach	Solid	1314	
180-184462-4 MSD	LEAF-MW27A-12182024 T04	Leach	Solid	1314	
180-184462-4 DU	LEAF-MW27A-12182024 T04	Leach	Solid	1314	
180-184462-13 DU	LEAF-MW25A-12182024 T04	Leach	Solid	1314	

Leach Batch: 487781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-5	LEAF-MW27A-12182024 T05	Leach	Solid	1314	
180-184462-14	LEAF-MW25A-12182024 T05	Leach	Solid	1314	
180-184462-23	LEAF-TM-12182024 T05	Leach	Solid	1314	

Leach Batch: 487782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-6	LEAF-MW27A-12182024 T06	Leach	Solid	1314	
180-184462-15	LEAF-MW25A-12182024 T06	Leach	Solid	1314	
180-184462-24	LEAF-TM-12182024 T06	Leach	Solid	1314	
180-184462-24 MS	LEAF-TM-12182024 T06	Leach	Solid	1314	
180-184462-24 MSD	LEAF-TM-12182024 T06	Leach	Solid	1314	
180-184462-6 DU	LEAF-MW27A-12182024 T06	Leach	Solid	1314	

Leach Batch: 487785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-7	LEAF-MW27A-12182024 T07	Leach	Solid	1314	
180-184462-16	LEAF-MW25A-12182024 T07	Leach	Solid	1314	
180-184462-25	LEAF-TM-12182024 T07	Leach	Solid	1314	
180-184462-7 DU	LEAF-MW27A-12182024 T07	Leach	Solid	1314	
180-184462-16 DU	LEAF-MW25A-12182024 T07	Leach	Solid	1314	

General Chemistry

Leach Batch: 487786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-8	LEAF-MW27A-12182024 T08	Leach	Solid	1314	
180-184462-17	LEAF-MW25A-12182024 T08	Leach	Solid	1314	
180-184462-26	LEAF-TM-12182024 T08	Leach	Solid	1314	
180-184462-8 DU	LEAF-MW27A-12182024 T08	Leach	Solid	1314	
180-184462-17 DU	LEAF-MW25A-12182024 T08	Leach	Solid	1314	

Leach Batch: 487787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-9	LEAF-MW27A-12182024 T09	Leach	Solid	1314	
180-184462-18	LEAF-MW25A-12182024 T09	Leach	Solid	1314	
180-184462-27	LEAF-TM-12182024 T09	Leach	Solid	1314	
180-184462-18 MS	LEAF-MW25A-12182024 T09	Leach	Solid	1314	
180-184462-18 MSD	LEAF-MW25A-12182024 T09	Leach	Solid	1314	

Analysis Batch: 488076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-1	LEAF-MW27A-12182024 T01	Leach	Solid	SM 2580B	487775
180-184462-2	LEAF-MW27A-12182024 T02	Leach	Solid	SM 2580B	487778
180-184462-3	LEAF-MW27A-12182024 T03	Leach	Solid	SM 2580B	487779
180-184462-10	LEAF-MW25A-12182024 T01	Leach	Solid	SM 2580B	487775
180-184462-11	LEAF-MW25A-12182024 T02	Leach	Solid	SM 2580B	487778
180-184462-12	LEAF-MW25A-12182024 T03	Leach	Solid	SM 2580B	487779
180-184462-19	LEAF-TM-12182024 T01	Leach	Solid	SM 2580B	487775
180-184462-20	LEAF-TM-12182024 T02	Leach	Solid	SM 2580B	487778
180-184462-21	LEAF-TM-12182024 T03	Leach	Solid	SM 2580B	487779
LCS 180-488076/1	Lab Control Sample	Total/NA	Solid	SM 2580B	
180-184462-1 DU	LEAF-MW27A-12182024 T01	Leach	Solid	SM 2580B	487775

Analysis Batch: 488095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-1	LEAF-MW27A-12182024 T01	Leach	Solid	SM 2510B	487775
180-184462-2	LEAF-MW27A-12182024 T02	Leach	Solid	SM 2510B	487778
180-184462-3	LEAF-MW27A-12182024 T03	Leach	Solid	SM 2510B	487779
180-184462-4	LEAF-MW27A-12182024 T04	Leach	Solid	SM 2510B	487780
180-184462-5	LEAF-MW27A-12182024 T05	Leach	Solid	SM 2510B	487781
180-184462-10	LEAF-MW25A-12182024 T01	Leach	Solid	SM 2510B	487775
180-184462-11	LEAF-MW25A-12182024 T02	Leach	Solid	SM 2510B	487778
180-184462-12	LEAF-MW25A-12182024 T03	Leach	Solid	SM 2510B	487779
180-184462-13	LEAF-MW25A-12182024 T04	Leach	Solid	SM 2510B	487780
180-184462-14	LEAF-MW25A-12182024 T05	Leach	Solid	SM 2510B	487781
180-184462-19	LEAF-TM-12182024 T01	Leach	Solid	SM 2510B	487775
180-184462-20	LEAF-TM-12182024 T02	Leach	Solid	SM 2510B	487778
180-184462-21	LEAF-TM-12182024 T03	Leach	Solid	SM 2510B	487779
180-184462-22	LEAF-TM-12182024 T04	Leach	Solid	SM 2510B	487780
180-184462-23	LEAF-TM-12182024 T05	Leach	Solid	SM 2510B	487781
MB 180-488095/2	Method Blank	Total/NA	Solid	SM 2510B	
MB 180-488095/30	Method Blank	Total/NA	Solid	SM 2510B	
MB 180-488095/58	Method Blank	Total/NA	Solid	SM 2510B	
LCS 180-488095/1	Lab Control Sample	Total/NA	Solid	SM 2510B	
LCS 180-488095/29	Lab Control Sample	Total/NA	Solid	SM 2510B	
LCS 180-488095/57	Lab Control Sample	Total/NA	Solid	SM 2510B	

General Chemistry

Analysis Batch: 488096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-1	LEAF-MW27A-12182024 T01	Leach	Solid	EPA 9040C	487775
180-184462-2	LEAF-MW27A-12182024 T02	Leach	Solid	EPA 9040C	487778
180-184462-3	LEAF-MW27A-12182024 T03	Leach	Solid	EPA 9040C	487779
180-184462-4	LEAF-MW27A-12182024 T04	Leach	Solid	EPA 9040C	487780
180-184462-5	LEAF-MW27A-12182024 T05	Leach	Solid	EPA 9040C	487781
180-184462-10	LEAF-MW25A-12182024 T01	Leach	Solid	EPA 9040C	487775
180-184462-11	LEAF-MW25A-12182024 T02	Leach	Solid	EPA 9040C	487778
180-184462-12	LEAF-MW25A-12182024 T03	Leach	Solid	EPA 9040C	487779
180-184462-13	LEAF-MW25A-12182024 T04	Leach	Solid	EPA 9040C	487780
180-184462-14	LEAF-MW25A-12182024 T05	Leach	Solid	EPA 9040C	487781
180-184462-19	LEAF-TM-12182024 T01	Leach	Solid	EPA 9040C	487775
180-184462-20	LEAF-TM-12182024 T02	Leach	Solid	EPA 9040C	487778
180-184462-21	LEAF-TM-12182024 T03	Leach	Solid	EPA 9040C	487779
180-184462-22	LEAF-TM-12182024 T04	Leach	Solid	EPA 9040C	487780
180-184462-23	LEAF-TM-12182024 T05	Leach	Solid	EPA 9040C	487781
LCS 180-488096/24	Lab Control Sample	Total/NA	Solid	EPA 9040C	
LCS 180-488096/48	Lab Control Sample	Total/NA	Solid	EPA 9040C	
LCS 180-488096/71	Lab Control Sample	Total/NA	Solid	EPA 9040C	
180-184462-13 DU	LEAF-MW25A-12182024 T04	Leach	Solid	EPA 9040C	487780

Analysis Batch: 488173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-4	LEAF-MW27A-12182024 T04	Leach	Solid	SM 2580B	487780
180-184462-5	LEAF-MW27A-12182024 T05	Leach	Solid	SM 2580B	487781
180-184462-6	LEAF-MW27A-12182024 T06	Leach	Solid	SM 2580B	487782
180-184462-13	LEAF-MW25A-12182024 T04	Leach	Solid	SM 2580B	487780
180-184462-14	LEAF-MW25A-12182024 T05	Leach	Solid	SM 2580B	487781
180-184462-15	LEAF-MW25A-12182024 T06	Leach	Solid	SM 2580B	487782
180-184462-22	LEAF-TM-12182024 T04	Leach	Solid	SM 2580B	487780
180-184462-23	LEAF-TM-12182024 T05	Leach	Solid	SM 2580B	487781
180-184462-24	LEAF-TM-12182024 T06	Leach	Solid	SM 2580B	487782
LCS 180-488173/1	Lab Control Sample	Total/NA	Solid	SM 2580B	
LCS 180-488173/26	Lab Control Sample	Total/NA	Solid	SM 2580B	
180-184462-4 DU	LEAF-MW27A-12182024 T04	Leach	Solid	SM 2580B	487780

Analysis Batch: 488233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-7	LEAF-MW27A-12182024 T07	Leach	Solid	SM 2580B	487785
180-184462-16	LEAF-MW25A-12182024 T07	Leach	Solid	SM 2580B	487785
180-184462-25	LEAF-TM-12182024 T07	Leach	Solid	SM 2580B	487785
LCS 180-488233/1	Lab Control Sample	Total/NA	Solid	SM 2580B	
180-184462-7 DU	LEAF-MW27A-12182024 T07	Leach	Solid	SM 2580B	487785

Leach Batch: 488380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 180-488380/1-A	Method Blank	Leach	Solid	1312	

Analysis Batch: 488384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-6	LEAF-MW27A-12182024 T06	Leach	Solid	SM 2510B	487782
180-184462-7	LEAF-MW27A-12182024 T07	Leach	Solid	SM 2510B	487785

General Chemistry (Continued)

Analysis Batch: 488384 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-15	LEAF-MW25A-12182024 T06	Leach	Solid	SM 2510B	487782
180-184462-16	LEAF-MW25A-12182024 T07	Leach	Solid	SM 2510B	487785
180-184462-24	LEAF-TM-12182024 T06	Leach	Solid	SM 2510B	487782
180-184462-25	LEAF-TM-12182024 T07	Leach	Solid	SM 2510B	487785
MB 180-488384/28	Method Blank	Total/NA	Solid	SM 2510B	
MB 180-488384/54	Method Blank	Total/NA	Solid	SM 2510B	
LCS 180-488384/27	Lab Control Sample	Total/NA	Solid	SM 2510B	
LCS 180-488384/53	Lab Control Sample	Total/NA	Solid	SM 2510B	

Analysis Batch: 488474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-2	LEAF-MW27A-12182024 T02	Leach	Solid	EPA 350.1	487778
180-184462-3	LEAF-MW27A-12182024 T03	Leach	Solid	EPA 350.1	487779
180-184462-4	LEAF-MW27A-12182024 T04	Leach	Solid	EPA 350.1	487780
180-184462-5	LEAF-MW27A-12182024 T05	Leach	Solid	EPA 350.1	487781
180-184462-6	LEAF-MW27A-12182024 T06	Leach	Solid	EPA 350.1	487782
180-184462-11	LEAF-MW25A-12182024 T02	Leach	Solid	EPA 350.1	487778
180-184462-12	LEAF-MW25A-12182024 T03	Leach	Solid	EPA 350.1	487779
180-184462-13	LEAF-MW25A-12182024 T04	Leach	Solid	EPA 350.1	487780
180-184462-14	LEAF-MW25A-12182024 T05	Leach	Solid	EPA 350.1	487781
180-184462-15	LEAF-MW25A-12182024 T06	Leach	Solid	EPA 350.1	487782
180-184462-20	LEAF-TM-12182024 T02	Leach	Solid	EPA 350.1	487778
180-184462-21	LEAF-TM-12182024 T03	Leach	Solid	EPA 350.1	487779
180-184462-22	LEAF-TM-12182024 T04	Leach	Solid	EPA 350.1	487780
180-184462-23	LEAF-TM-12182024 T05	Leach	Solid	EPA 350.1	487781
180-184462-4 MS	LEAF-MW27A-12182024 T04	Leach	Solid	EPA 350.1	487780
180-184462-4 MSD	LEAF-MW27A-12182024 T04	Leach	Solid	EPA 350.1	487780

Analysis Batch: 488491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-24	LEAF-TM-12182024 T06	Leach	Solid	EPA 350.1	487782
MB 180-488491/17	Method Blank	Total/NA	Solid	EPA 350.1	
MB 180-488491/19	Method Blank	Total/NA	Solid	EPA 350.1	
LCS 180-488491/18	Lab Control Sample	Total/NA	Solid	EPA 350.1	
180-184462-24 MS	LEAF-TM-12182024 T06	Leach	Solid	EPA 350.1	487782
180-184462-24 MSD	LEAF-TM-12182024 T06	Leach	Solid	EPA 350.1	487782

Analysis Batch: 488594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-1	LEAF-MW27A-12182024 T01	Leach	Solid	EPA 350.1	487775
180-184462-7	LEAF-MW27A-12182024 T07	Leach	Solid	EPA 350.1	487785
180-184462-10	LEAF-MW25A-12182024 T01	Leach	Solid	EPA 350.1	487775
180-184462-16	LEAF-MW25A-12182024 T07	Leach	Solid	EPA 350.1	487785
180-184462-19	LEAF-TM-12182024 T01	Leach	Solid	EPA 350.1	487775
180-184462-25	LEAF-TM-12182024 T07	Leach	Solid	EPA 350.1	487785
LB 180-488380/1-A	Method Blank	Leach	Solid	EPA 350.1	488380
MB 180-488594/49	Method Blank	Total/NA	Solid	EPA 350.1	
MB 180-488594/84	Method Blank	Total/NA	Solid	EPA 350.1	
LCS 180-488594/53	Lab Control Sample	Total/NA	Solid	EPA 350.1	
LCS 180-488594/85	Lab Control Sample	Total/NA	Solid	EPA 350.1	
180-184462-10 MS	LEAF-MW25A-12182024 T01	Leach	Solid	EPA 350.1	487775

General Chemistry (Continued)

Analysis Batch: 488594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-10 MSD	LEAF-MW25A-12182024 T01	Leach	Solid	EPA 350.1	487775

Analysis Batch: 488621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-6	LEAF-MW27A-12182024 T06	Leach	Solid	EPA 9040C	487782
180-184462-7	LEAF-MW27A-12182024 T07	Leach	Solid	EPA 9040C	487785
180-184462-15	LEAF-MW25A-12182024 T06	Leach	Solid	EPA 9040C	487782
180-184462-16	LEAF-MW25A-12182024 T07	Leach	Solid	EPA 9040C	487785
180-184462-24	LEAF-TM-12182024 T06	Leach	Solid	EPA 9040C	487782
180-184462-25	LEAF-TM-12182024 T07	Leach	Solid	EPA 9040C	487785
LCS 180-488621/1	Lab Control Sample	Total/NA	Solid	EPA 9040C	
180-184462-6 DU	LEAF-MW27A-12182024 T06	Leach	Solid	EPA 9040C	487782
180-184462-16 DU	LEAF-MW25A-12182024 T07	Leach	Solid	EPA 9040C	487785

Leach Batch: 488654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 180-488654/1-A	Method Blank	Leach	Solid	EPA 1312	

Analysis Batch: 488685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-8	LEAF-MW27A-12182024 T08	Leach	Solid	SM 2580B	487786
180-184462-9	LEAF-MW27A-12182024 T09	Leach	Solid	SM 2580B	487787
180-184462-17	LEAF-MW25A-12182024 T08	Leach	Solid	SM 2580B	487786
180-184462-18	LEAF-MW25A-12182024 T09	Leach	Solid	SM 2580B	487787
180-184462-26	LEAF-TM-12182024 T08	Leach	Solid	SM 2580B	487786
180-184462-27	LEAF-TM-12182024 T09	Leach	Solid	SM 2580B	487787
LCS 180-488685/1	Lab Control Sample	Total/NA	Solid	SM 2580B	
180-184462-8 DU	LEAF-MW27A-12182024 T08	Leach	Solid	SM 2580B	487786

Analysis Batch: 488851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-8	LEAF-MW27A-12182024 T08	Leach	Solid	EPA 9040C	487786
180-184462-9	LEAF-MW27A-12182024 T09	Leach	Solid	EPA 9040C	487787
180-184462-17	LEAF-MW25A-12182024 T08	Leach	Solid	EPA 9040C	487786
180-184462-18	LEAF-MW25A-12182024 T09	Leach	Solid	EPA 9040C	487787
180-184462-26	LEAF-TM-12182024 T08	Leach	Solid	EPA 9040C	487786
180-184462-27	LEAF-TM-12182024 T09	Leach	Solid	EPA 9040C	487787
LB 180-488654/1-A	Method Blank	Leach	Solid	EPA 9040C	488654
LCS 180-488851/1	Lab Control Sample	Total/NA	Solid	EPA 9040C	
LCS 180-488851/24	Lab Control Sample	Total/NA	Solid	EPA 9040C	
LCS 180-488851/46	Lab Control Sample	Total/NA	Solid	EPA 9040C	
180-184462-8 DU	LEAF-MW27A-12182024 T08	Leach	Solid	EPA 9040C	487786

Analysis Batch: 488859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-8	LEAF-MW27A-12182024 T08	Leach	Solid	SM 2510B	487786
180-184462-9	LEAF-MW27A-12182024 T09	Leach	Solid	SM 2510B	487787
180-184462-17	LEAF-MW25A-12182024 T08	Leach	Solid	SM 2510B	487786
180-184462-18	LEAF-MW25A-12182024 T09	Leach	Solid	SM 2510B	487787
180-184462-26	LEAF-TM-12182024 T08	Leach	Solid	SM 2510B	487786
180-184462-27	LEAF-TM-12182024 T09	Leach	Solid	SM 2510B	487787

General Chemistry (Continued)

Analysis Batch: 488859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-488859/2	Method Blank	Total/NA	Solid	SM 2510B	
MB 180-488859/30	Method Blank	Total/NA	Solid	SM 2510B	
LCS 180-488859/1	Lab Control Sample	Total/NA	Solid	SM 2510B	
LCS 180-488859/29	Lab Control Sample	Total/NA	Solid	SM 2510B	
180-184462-17 DU	LEAF-MW25A-12182024 T08	Leach	Solid	SM 2510B	487786

Analysis Batch: 489008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184462-8	LEAF-MW27A-12182024 T08	Leach	Solid	EPA 350.1	487786
180-184462-9	LEAF-MW27A-12182024 T09	Leach	Solid	EPA 350.1	487787
180-184462-17	LEAF-MW25A-12182024 T08	Leach	Solid	EPA 350.1	487786
180-184462-18	LEAF-MW25A-12182024 T09	Leach	Solid	EPA 350.1	487787
180-184462-26	LEAF-TM-12182024 T08	Leach	Solid	EPA 350.1	487786
180-184462-27	LEAF-TM-12182024 T09	Leach	Solid	EPA 350.1	487787
MB 180-489008/17	Method Blank	Total/NA	Solid	EPA 350.1	
LCS 180-489008/18	Lab Control Sample	Total/NA	Solid	EPA 350.1	
180-184462-18 MS	LEAF-MW25A-12182024 T09	Leach	Solid	EPA 350.1	487787
180-184462-18 MSD	LEAF-MW25A-12182024 T09	Leach	Solid	EPA 350.1	487787

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Corey Bryerton	Lab PM: [redacted] Carrie Gamber	Carrier Tracking No(s):	COC No: 480-199914-41224.10
Client Contact: [redacted] Corey Bryerton	Phone: (716) 720-3256	E-Mail: carrie.gamber@et.eurofins[redacted].com	State of Origin: NY	Page: ~~Page 40 of 40~~ 1 of 1
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): Standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: [redacted] john.black@inventumeng.com corey.bryerton@inventumeng.com	WO #:			
Project Name: [redacted] Ammonia SCO LEAF Samples	Project #: [redacted] 48028162			
Site: 3875 River Road	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
N - None
D - HNO3
S - H2SO4

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1314 LEAF	Ammonia	[redacted]	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
LEAF-MW27A-12182024	12/18/24	13:15	G	Solid			X	X	X		May contain heavy ammonia odors.
LEAF-MW25A-12182024	12/18/24	11:45	G	Solid			X	X	X		
LEAF-TM-12182024	12/18/24	13:55	G	solid			X	X	X		
LEAF-MW10A-12182024	12/18/24	14:05	G	solid			X	X	X		
LEAF-MW21A-12182024	12/18/24	14:55	G	solid			X	X	X		
LEAF-MW05A-12182024	12/18/24	14:30	G	solid			X	X	X		
LEAF-05AREA-12182024	12/18/24	14:35	G	solid			X	X	X		

180-184462 Chain of Custody

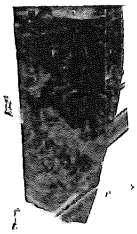
Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested. I, II, III, IV, Other (specify) NYS DEC CAT B	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Austin Care	12/18/24 3:30			12/20/24 1800	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time.	Company	Received by	Date/Time.	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 05/06/2024



FROM: (571) 217-3627
DANIEL WALDROP

Suite C
441 Carlisle Dr Ste C
HERNDON VA 20170
US

SHIP DATE: 18DEC24
ACTWGT: 42.45 LB
CAD: 6571710/ROSA2570
DIMMED: 24 X 24 X 13 IN

BILL 3rd PARTY

TO Carrie Gamber
Eurofins Environment Testing NE LLC
301 Alpha Dr

PITTSBURGH PA 15238 (US

(000) 000-0000 REF:
INV:
PO: DEPT:

Uncorrected temp 2.6 °C
Thermometer ID 26

CF -0.8 Initials

PT-WI-SR-001 effective 7/26/13

FedEx Ground

180-184462 Waybill

TRK# 7708 8852 1865

15238

9622 0417 3 (000 447 6979) 9 00 7708 8852 1865

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 180-184462-1

Login Number: 184462
List Number: 1
Creator: Say, Thomas C

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Todd Waldrop
Inventum Engineering LLC
441 Carlisle Drive
Suite C
Herndon, Virginia 20170

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JOB DESCRIPTION

RITC-Ammonia

JOB NUMBER

180-184465-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

myEOL

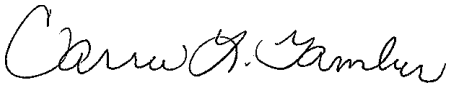
Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



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Authorized for release by
Carrie Gamber, Senior Project Manager
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(412)963-2428

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CASE NARRATIVE

Client: Inventum Engineering LLC

Project: RITC-Ammonia

Report Number: 180-184465-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 12/20/2024; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

NOTE: There was an issue with sample collection. The following sample was not collected for T07 due to the lack of DI water to flow through. Collections for T08 and T09 were able to be completed: LEAF-05AREA-12182024 T07 (180-184465-34).

GENERAL CHEMISTRY
Several samples were diluted to bring the concentration of target analytes within the calibration range for Ammonia. Elevated reporting limits (RLs) are provided.

The following sample was analyzed twice for Ammonia. Both runs were at a dilution to try to minimize a matrix interference; however, matrix interference prevented the instrument to accurately calculate an Ammonia concentration. Due to the limited sample volume available for T01, additional runs could not be performed: LEAF-05AREA-12182024 T01 (180-184465-28).

There is matrix interference in the following two samples causing a skew in the peaks and results for Ammonia. Samples were diluted, the pH adjusted and re-run with the same outcome. Only one result was reported: LEAF-MW05A-12182024 T02 (180-184465-20) and LEAF-05AREA-12182024 T02 (180-184465-29)

Ammonia, distilled failed the recovery criteria low for the MS of sample LEAF-MW10A-12182024 T02MS (180-184465-2) in batch 180-488474. Ammonia, distilled failed the recovery criteria low for the MSD of sample LEAF-MW10A-12182024 T02MSD (180-184465-2) in batch 180-488474. The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Ammonia, distilled failed the recovery criteria high for the MS of sample LEAF-05AREA-12182024 T03MS (180-184465-30) in batch 180-488474. Ammonia, distilled failed the recovery criteria low for the MSD of sample LEAF-05AREA-12182024 T03MSD (180-184465-30) in batch 180-488474. The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Definitions/Glossary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Laboratory: Eurofins Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11182	04-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 350.1		Solid	Ammonia, distilled
SM 2510B		Solid	Specific Conductance
SM 2580B		Solid	Oxidation Reduction Potential

Sample Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-184465-1	LEAF-MW10A-12182024 T01	Solid	12/18/24 14:05	12/20/24 18:00
180-184465-2	LEAF-MW10A-12182024 T02	Solid	12/18/24 14:05	12/20/24 18:00
180-184465-3	LEAF-MW10A-12182024 T03	Solid	12/18/24 14:05	12/20/24 18:00
180-184465-4	LEAF-MW10A-12182024 T04	Solid	12/18/24 14:05	12/20/24 18:00
180-184465-5	LEAF-MW10A-12182024 T05	Solid	12/18/24 14:05	12/20/24 18:00
180-184465-6	LEAF-MW10A-12182024 T06	Solid	12/18/24 14:05	12/20/24 18:00
180-184465-7	LEAF-MW10A-12182024 T07	Solid	12/18/24 14:05	12/20/24 18:00
180-184465-8	LEAF-MW10A-12182024 T08	Solid	12/18/24 14:05	12/20/24 18:00
180-184465-9	LEAF-MW10A-12182024 T09	Solid	12/18/24 14:05	12/20/24 18:00
180-184465-10	LEAF-MW21A-12182024 T01	Solid	12/18/24 14:55	12/20/24 18:00
180-184465-11	LEAF-MW21A-12182024 T02	Solid	12/18/24 14:55	12/20/24 18:00
180-184465-12	LEAF-MW21A-12182024 T03	Solid	12/18/24 14:55	12/20/24 18:00
180-184465-13	LEAF-MW21A-12182024 T04	Solid	12/18/24 14:55	12/20/24 18:00
180-184465-14	LEAF-MW21A-12182024 T05	Solid	12/18/24 14:55	12/20/24 18:00
180-184465-15	LEAF-MW21A-12182024 T06	Solid	12/18/24 14:55	12/20/24 18:00
180-184465-16	LEAF-MW21A-12182024 T07	Solid	12/18/24 14:55	12/20/24 18:00
180-184465-17	LEAF-MW21A-12182024 T08	Solid	12/18/24 14:55	12/20/24 18:00
180-184465-18	LEAF-MW21A-12182024 T09	Solid	12/18/24 14:55	12/20/24 18:00
180-184465-19	LEAF-MW05A-12182024 T01	Solid	12/18/24 14:30	12/20/24 18:00
180-184465-20	LEAF-MW05A-12182024 T02	Solid	12/18/24 14:30	12/20/24 18:00
180-184465-21	LEAF-MW05A-12182024 T03	Solid	12/18/24 14:30	12/20/24 18:00
180-184465-22	LEAF-MW05A-12182024 T04	Solid	12/18/24 14:30	12/20/24 18:00
180-184465-23	LEAF-MW05A-12182024 T05	Solid	12/18/24 14:30	12/20/24 18:00
180-184465-24	LEAF-MW05A-12182024 T06	Solid	12/18/24 14:30	12/20/24 18:00
180-184465-25	LEAF-MW05A-12182024 T07	Solid	12/18/24 14:30	12/20/24 18:00
180-184465-26	LEAF-MW05A-12182024 T08	Solid	12/18/24 14:30	12/20/24 18:00
180-184465-27	LEAF-MW05A-12182024 T09	Solid	12/18/24 14:30	12/20/24 18:00
180-184465-28	LEAF-05AREA-12182024 T01	Solid	12/18/24 14:35	12/20/24 18:00
180-184465-29	LEAF-05AREA-12182024 T02	Solid	12/18/24 14:35	12/20/24 18:00
180-184465-30	LEAF-05AREA-12182024 T03	Solid	12/18/24 14:35	12/20/24 18:00
180-184465-31	LEAF-05AREA-12182024 T04	Solid	12/18/24 14:35	12/20/24 18:00
180-184465-32	LEAF-05AREA-12182024 T05	Solid	12/18/24 14:35	12/20/24 18:00
180-184465-33	LEAF-05AREA-12182024 T06	Solid	12/18/24 14:35	12/20/24 18:00
180-184465-35	LEAF-05AREA-12182024 T08	Solid	12/18/24 14:35	12/20/24 18:00
180-184465-36	LEAF-05AREA-12182024 T09	Solid	12/18/24 14:35	12/20/24 18:00

Method Summary

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Method	Method Description	Protocol	Laboratory
EPA 350.1	Nitrogen, Ammonia	EPA	EET PIT
EPA 9040C	pH	SW846	EET PIT
SM 2510B	Conductivity, Specific Conductance	SM	EET PIT
SM 2580B	Reduction-Oxidation (REDOX) Potential	SM	EET PIT
1314	Up-Flow Percolation Column Leach Procedure	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-MW10A-12182024 T01

Lab Sample ID: 180-184465-1
Matrix: Solid
Date Collected: 12/18/24 14:05
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			618.9 g	135.6 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		500			488594	01/17/25 13:00	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			618.9 g	135.6 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:43	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			618.9 g	135.6 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:45	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			618.9 g	135.6 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 12:29	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW10A-12182024 T02

Lab Sample ID: 180-184465-2
Matrix: Solid
Date Collected: 12/18/24 14:05
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			618.9 g	143.1 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 350.1		200			488474	01/16/25 10:41	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			618.9 g	143.1 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:55	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			618.9 g	143.1 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			618.9 g	143.1 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 13:15	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW10A-12182024 T03

Lab Sample ID: 180-184465-3
Matrix: Solid
Date Collected: 12/18/24 14:05
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			618.9 g	183.9 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		100			488474	01/16/25 11:04	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			618.9 g	183.9 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:01	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			618.9 g	183.9 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-MW10A-12182024 T03

Lab Sample ID: 180-184465-3

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			618.9 g	183.9 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 14:01	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW10A-12182024 T04

Lab Sample ID: 180-184465-4

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			618.9 g	185.4 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		100			488474	01/16/25 10:18	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			618.9 g	185.4 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:35	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			618.9 g	185.4 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 17:27	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			618.9 g	185.4 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 14:55	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW10A-12182024 T05

Lab Sample ID: 180-184465-5

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			618.9 g	173.9 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		100			488474	01/16/25 11:27	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			618.9 g	173.9 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:23	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			618.9 g	173.9 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			618.9 g	173.9 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 15:37	ELS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-MW10A-12182024 T06

Lab Sample ID: 180-184465-6

Date Collected: 12/18/24 14:05

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			618.9 g	1064.1 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		100			488491	01/16/25 14:35	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			618.9 g	1064.1 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:11	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			618.9 g	1064.1 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:13	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			618.9 g	1064.1 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 16:18	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW10A-12182024 T07

Lab Sample ID: 180-184465-7

Date Collected: 12/18/24 14:05

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			618.9 g	203.7 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		100			488594	01/17/25 12:37	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			618.9 g	203.7 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:27	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			618.9 g	203.7 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:13	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			618.9 g	203.7 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488233	01/14/25 15:16	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW10A-12182024 T08

Lab Sample ID: 180-184465-8

Date Collected: 12/18/24 14:05

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			618.9 g	1991.1 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		100			489008	01/24/25 10:11	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			618.9 g	1991.1 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 10:07	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			618.9 g	1991.1 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:44	RAO	EET PIT
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-MW10A-12182024 T08

Lab Sample ID: 180-184465-8

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			618.9 g	1991.1 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 15:00	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW10A-12182024 T09

Lab Sample ID: 180-184465-9

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			618.9 g	211.8 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		50			489008	01/24/25 10:34	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			618.9 g	211.8 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 09:42	BAB	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			618.9 g	211.8 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:43	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			618.9 g	211.8 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 16:33	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW21A-12182024 T01

Lab Sample ID: 180-184465-10

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			633.4 g	142.8 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		50			488594	01/17/25 13:06	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			633.4 g	142.8 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:41	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			633.4 g	142.8 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			633.4 g	142.8 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 12:34	ELS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-MW21A-12182024 T02

Lab Sample ID: 180-184465-11
Matrix: Solid
Date Collected: 12/18/24 14:55
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			633.4 g	225.7 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 350.1		25			488474	01/16/25 10:47	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			633.4 g	225.7 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:57	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			633.4 g	225.7 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			633.4 g	225.7 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 13:20	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW21A-12182024 T03

Lab Sample ID: 180-184465-12
Matrix: Solid
Date Collected: 12/18/24 14:55
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			633.4 g	250.0 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		25			488474	01/16/25 11:06	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			633.4 g	250.0 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:08	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			633.4 g	250.0 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			633.4 g	250.0 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 14:16	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW21A-12182024 T04

Lab Sample ID: 180-184465-13
Matrix: Solid
Date Collected: 12/18/24 14:55
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			633.4 g	323.6 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		10			488474	01/16/25 10:20	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			633.4 g	323.6 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:31	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			633.4 g	323.6 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 17:27	RAO	EET PIT
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-MW21A-12182024 T04

Lab Sample ID: 180-184465-13

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			633.4 g	323.6 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 15:00	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW21A-12182024 T05

Lab Sample ID: 180-184465-14

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			633.4 g	417.4 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		5			488474	01/16/25 11:29	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			633.4 g	417.4 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:21	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			633.4 g	417.4 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			633.4 g	417.4 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 15:41	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW21A-12182024 T06

Lab Sample ID: 180-184465-15

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			633.4 g	2185.0 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		5			488491	01/16/25 14:37	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			633.4 g	2185.0 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:12	BAB	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			633.4 g	2185.0 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:13	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			633.4 g	2185.0 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 16:32	ELS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-MW21A-12182024 T07

Lab Sample ID: 180-184465-16

Date Collected: 12/18/24 14:55

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			633.4 g	420.9 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		5			488594	01/17/25 12:39	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			633.4 g	420.9 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:29	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			633.4 g	420.9 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:09	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			633.4 g	420.9 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488233	01/14/25 15:23	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW21A-12182024 T08

Lab Sample ID: 180-184465-17

Date Collected: 12/18/24 14:55

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			633.4 g	2921.3 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		5			489008	01/24/25 10:13	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			633.4 g	2921.3 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 10:10	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			633.4 g	2921.3 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:44	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			633.4 g	2921.3 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 15:11	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW21A-12182024 T09

Lab Sample ID: 180-184465-18

Date Collected: 12/18/24 14:55

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			633.4 g	311.6 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			489008	01/24/25 10:36	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			633.4 g	311.6 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 09:40	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			633.4 g	311.6 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:43	RAO	EET PIT
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-MW21A-12182024 T09

Lab Sample ID: 180-184465-18

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			633.4 g	311.6 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 16:44	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW05A-12182024 T01

Lab Sample ID: 180-184465-19

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			581.5 g	132.1 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		200			488594	01/17/25 13:02	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			581.5 g	132.1 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:48	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			581.5 g	132.1 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:45	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			581.5 g	132.1 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 12:39	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW05A-12182024 T02

Lab Sample ID: 180-184465-20

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			581.5 g	23.6 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			488474	01/16/25 10:49	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			581.5 g	23.6 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:58	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			581.5 g	23.6 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			581.5 g	23.6 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 13:25	ELS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-MW05A-12182024 T03

Lab Sample ID: 180-184465-21

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			581.5 g	93.5 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		50			488474	01/16/25 11:08	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			581.5 g	93.5 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:09	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			581.5 g	93.5 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			581.5 g	93.5 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 14:26	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW05A-12182024 T04

Lab Sample ID: 180-184465-22

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			581.5 g	239.4 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		100			488474	01/16/25 10:22	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			581.5 g	239.4 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:34	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			581.5 g	239.4 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 17:27	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			581.5 g	239.4 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 15:05	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW05A-12182024 T05

Lab Sample ID: 180-184465-23

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			581.5 g	287.7 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		100			488474	01/16/25 11:31	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			581.5 g	287.7 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:20	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			581.5 g	287.7 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-MW05A-12182024 T05

Lab Sample ID: 180-184465-23

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			581.5 g	287.7 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 15:46	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW05A-12182024 T06

Lab Sample ID: 180-184465-24

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			581.5 g	1264.2 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		50			488491	01/16/25 14:45	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			581.5 g	1264.2 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:14	BAB	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			581.5 g	1264.2 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:13	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			581.5 g	1264.2 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 16:41	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-MW05A-12182024 T07

Lab Sample ID: 180-184465-25

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			581.5 g	83.2 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		50			488594	01/17/25 12:41	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			581.5 g	83.2 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:30	BAB	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			581.5 g	83.2 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:09	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			581.5 g	83.2 mL	487785	01/12/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488233	01/14/25 15:30	ELS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-MW05A-12182024 T08

Lab Sample ID: 180-184465-26

Date Collected: 12/18/24 14:30

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			581.5 g	1860.0 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		50			489008	01/24/25 10:14	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			581.5 g	1860.0 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 10:12	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			581.5 g	1860.0 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:44	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			581.5 g	1860.0 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 15:21	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-MW05A-12182024 T09

Lab Sample ID: 180-184465-27

Date Collected: 12/18/24 14:30

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			581.5 g	239.5 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		25			489008	01/24/25 10:37	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			581.5 g	239.5 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 09:38	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			581.5 g	239.5 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:43	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			581.5 g	239.5 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 16:54	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-05AREA-12182024 T01

Lab Sample ID: 180-184465-28

Date Collected: 12/18/24 14:35

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			556.1 g	84.8 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:49	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			556.1 g	84.8 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			556.1 g	84.8 mL	487775	01/08/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 12:44	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-05AREA-12182024 T02

Lab Sample ID: 180-184465-29

Date Collected: 12/18/24 14:35

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			556.1 g	178.3 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 350.1		200			488474	01/16/25 10:51	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			556.1 g	178.3 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 15:56	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			556.1 g	178.3 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			556.1 g	178.3 mL	487778	01/08/25 11:18	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 13:30	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-05AREA-12182024 T03

Lab Sample ID: 180-184465-30

Date Collected: 12/18/24 14:35

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			556.1 g	235.6 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		100			488474	01/16/25 11:10	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			556.1 g	235.6 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:11	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			556.1 g	235.6 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			556.1 g	235.6 mL	487779	01/08/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488076	01/10/25 14:31	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-05AREA-12182024 T04

Lab Sample ID: 180-184465-31

Date Collected: 12/18/24 14:35

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			556.1 g	282.0 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		50			488474	01/16/25 10:24	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			556.1 g	282.0 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:28	SNR	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			556.1 g	282.0 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 17:27	RAO	EET PIT
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-05AREA-12182024 T04

Lab Sample ID: 180-184465-31

Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			556.1 g	282.0 mL	487780	01/09/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 15:09	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-05AREA-12182024 T05

Lab Sample ID: 180-184465-32

Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			556.1 g	449.2 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		25			488474	01/16/25 11:33	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			556.1 g	449.2 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488096	01/10/25 16:18	SNR	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			556.1 g	449.2 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488095	01/10/25 16:42	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			556.1 g	449.2 mL	487781	01/09/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 15:51	ELS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: LEAF-05AREA-12182024 T06

Lab Sample ID: 180-184465-33

Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			556.1 g	2205.0 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			488491	01/16/25 14:47	BAB	EET PIT
	Instrument ID: BLUE-ASTORIA									
Leach	Leach	1314			556.1 g	2205.0 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488621	01/18/25 11:16	BAB	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			556.1 g	2205.0 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488384	01/15/25 15:13	RAO	EET PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1314			556.1 g	2205.0 mL	487782	01/10/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488173	01/13/25 16:46	ELS	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC-Ammonia

Job ID: 180-184465-1

Client Sample ID: LEAF-05AREA-12182024 T08

Lab Sample ID: 180-184465-35

Date Collected: 12/18/24 14:35

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			556.1 g	2180.5 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		5			489008	01/24/25 10:16	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			556.1 g	2180.5 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 10:14	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			556.1 g	2180.5 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:45	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			556.1 g	2180.5 mL	487786	01/13/25 06:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 15:31	ELS	EET PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: LEAF-05AREA-12182024 T09

Lab Sample ID: 180-184465-36

Date Collected: 12/18/24 14:35

Matrix: Solid

Date Received: 12/20/24 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1314			556.1 g	420.3 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 350.1		2			489008	01/24/25 10:39	BAB	EET PIT
	Instrument ID:	BLUE-ASTORIA								
Leach	Leach	1314			556.1 g	420.3 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	EPA 9040C		1			488851	01/22/25 09:36	BAB	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			556.1 g	420.3 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2510B		1			488859	01/22/25 15:43	RAO	EET PIT
	Instrument ID:	NOEQUIP								
Leach	Leach	1314			556.1 g	420.3 mL	487787	01/17/25 18:30	TCS	EET PIT
Leach	Analysis	SM 2580B		1			488685	01/20/25 17:04	ELS	EET PIT
	Instrument ID:	NOEQUIP								

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Leach

TCS = Thomas Say

Batch Type: Analysis

BAB = Brooke Batyi

ELS = Edwin Shireman

RAO = Rachel Oster

SNR = Sabra Richart

Client Sample ID: LEAF-MW10A-12182024 T01

Lab Sample ID: 180-184465-1

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	370		50	44	mg/L			01/17/25 13:00	500
pH (SW846 EPA 9040C)	8.4	H3	0.1	0.1	SU			01/10/25 15:43	1
Specific Conductance (SM 2510B)	5300		1.0	1.0	umhos/cm			01/10/25 16:45	1
Oxidation Reduction Potential (SM 2580B)	70		10	10	millivolts			01/10/25 12:29	1

Client Sample ID: LEAF-MW10A-12182024 T02

Lab Sample ID: 180-184465-2

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	110		20	18	mg/L			01/16/25 10:41	200
pH (SW846 EPA 9040C)	8.7	H3	0.1	0.1	SU			01/10/25 15:55	1
Specific Conductance (SM 2510B)	1100		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	82		10	10	millivolts			01/10/25 13:15	1

Client Sample ID: LEAF-MW10A-12182024 T03

Lab Sample ID: 180-184465-3

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	82		10	8.8	mg/L			01/16/25 11:04	100
pH (SW846 EPA 9040C)	8.8	H3	0.1	0.1	SU			01/10/25 16:01	1
Specific Conductance (SM 2510B)	760		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	74		10	10	millivolts			01/10/25 14:01	1

Client Sample ID: LEAF-MW10A-12182024 T04

Lab Sample ID: 180-184465-4

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	75		10	8.8	mg/L			01/16/25 10:18	100
pH (SW846 EPA 9040C)	9.0	H3	0.1	0.1	SU			01/10/25 16:35	1
Specific Conductance (SM 2510B)	600		1.0	1.0	umhos/cm			01/10/25 17:27	1
Oxidation Reduction Potential (SM 2580B)	82		10	10	millivolts			01/13/25 14:55	1

Client Sample ID: LEAF-MW10A-12182024 T05

Lab Sample ID: 180-184465-5

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	70		10	8.8	mg/L			01/16/25 11:27	100
pH (SW846 EPA 9040C)	9.1	H3	0.1	0.1	SU			01/10/25 16:23	1
Specific Conductance (SM 2510B)	510		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	70		10	10	millivolts			01/13/25 15:37	1

Client Sample ID: LEAF-MW10A-12182024 T06

Lab Sample ID: 180-184465-6

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	42		10	8.8	mg/L			01/16/25 14:35	100
pH (SW846 EPA 9040C)	9.0	H3	0.1	0.1	SU			01/18/25 11:11	1
Specific Conductance (SM 2510B)	360		1.0	1.0	umhos/cm			01/15/25 15:13	1
Oxidation Reduction Potential (SM 2580B)	40		10	10	millivolts			01/13/25 16:18	1

Client Sample ID: LEAF-MW10A-12182024 T07

Lab Sample ID: 180-184465-7

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	35		10	8.8	mg/L			01/17/25 12:37	100
pH (SW846 EPA 9040C)	9.0	H3	0.1	0.1	SU			01/18/25 11:27	1
Specific Conductance (SM 2510B)	260		1.0	1.0	umhos/cm			01/15/25 15:13	1
Oxidation Reduction Potential (SM 2580B)	75		10	10	millivolts			01/14/25 15:16	1

Client Sample ID: LEAF-MW10A-12182024 T08

Lab Sample ID: 180-184465-8

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	22		10	8.8	mg/L			01/24/25 10:11	100
pH (SW846 EPA 9040C)	8.5	H3	0.1	0.1	SU			01/22/25 10:07	1
Specific Conductance (SM 2510B)	210		1.0	1.0	umhos/cm			01/22/25 15:44	1
Oxidation Reduction Potential (SM 2580B)	90		10	10	millivolts			01/20/25 15:00	1

Client Sample ID: LEAF-MW10A-12182024 T09

Lab Sample ID: 180-184465-9

Date Collected: 12/18/24 14:05
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	14		5.0	4.4	mg/L			01/24/25 10:34	50
pH (SW846 EPA 9040C)	8.5	H3	0.1	0.1	SU			01/22/25 09:42	1
Specific Conductance (SM 2510B)	170		1.0	1.0	umhos/cm			01/22/25 15:43	1
Oxidation Reduction Potential (SM 2580B)	22		10	10	millivolts			01/20/25 16:33	1

Client Sample ID: LEAF-MW21A-12182024 T01

Lab Sample ID: 180-184465-10

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	10		5.0	4.4	mg/L			01/17/25 13:06	50
pH (SW846 EPA 9040C)	8.1	H3	0.1	0.1	SU			01/10/25 15:41	1
Specific Conductance (SM 2510B)	1100		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	94		10	10	millivolts			01/10/25 12:34	1

Client Sample ID: LEAF-MW21A-12182024 T02

Lab Sample ID: 180-184465-11

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	6.0		2.5	2.2	mg/L			01/16/25 10:47	25
pH (SW846 EPA 9040C)	8.0	H3	0.1	0.1	SU			01/10/25 15:57	1
Specific Conductance (SM 2510B)	390		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	110		10	10	millivolts			01/10/25 13:20	1

Client Sample ID: LEAF-MW21A-12182024 T03

Lab Sample ID: 180-184465-12

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	5.4		2.5	2.2	mg/L			01/16/25 11:06	25
pH (SW846 EPA 9040C)	8.0	H3	0.1	0.1	SU			01/10/25 16:08	1
Specific Conductance (SM 2510B)	320		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	130		10	10	millivolts			01/10/25 14:16	1

Client Sample ID: LEAF-MW21A-12182024 T04

Lab Sample ID: 180-184465-13

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	5.2		1.0	0.88	mg/L			01/16/25 10:20	10
pH (SW846 EPA 9040C)	8.0	H3	0.1	0.1	SU			01/10/25 16:31	1
Specific Conductance (SM 2510B)	280		1.0	1.0	umhos/cm			01/10/25 17:27	1
Oxidation Reduction Potential (SM 2580B)	110		10	10	millivolts			01/13/25 15:00	1

Client Sample ID: LEAF-MW21A-12182024 T05

Lab Sample ID: 180-184465-14

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	4.1		0.50	0.44	mg/L			01/16/25 11:29	5
pH (SW846 EPA 9040C)	8.1	H3	0.1	0.1	SU			01/10/25 16:21	1
Specific Conductance (SM 2510B)	240		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	120		10	10	millivolts			01/13/25 15:41	1

Client Sample ID: LEAF-MW21A-12182024 T06

Lab Sample ID: 180-184465-15

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	3.0		0.50	0.44	mg/L			01/16/25 14:37	5
pH (SW846 EPA 9040C)	7.8	H3	0.1	0.1	SU			01/18/25 11:12	1
Specific Conductance (SM 2510B)	190		1.0	1.0	umhos/cm			01/15/25 15:13	1
Oxidation Reduction Potential (SM 2580B)	150		10	10	millivolts			01/13/25 16:32	1

Client Sample ID: LEAF-MW21A-12182024 T07

Lab Sample ID: 180-184465-16

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	1.8		0.50	0.44	mg/L			01/17/25 12:39	5
pH (SW846 EPA 9040C)	7.9	H3	0.1	0.1	SU			01/18/25 11:29	1
Specific Conductance (SM 2510B)	160		1.0	1.0	umhos/cm			01/15/25 15:09	1
Oxidation Reduction Potential (SM 2580B)	130		10	10	millivolts			01/14/25 15:23	1

Client Sample ID: LEAF-MW21A-12182024 T08

Lab Sample ID: 180-184465-17

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	1.2		0.50	0.44	mg/L			01/24/25 10:13	5
pH (SW846 EPA 9040C)	7.7	H3	0.1	0.1	SU			01/22/25 10:10	1
Specific Conductance (SM 2510B)	150		1.0	1.0	umhos/cm			01/22/25 15:44	1
Oxidation Reduction Potential (SM 2580B)	140		10	10	millivolts			01/20/25 15:11	1

Client Sample ID: LEAF-MW21A-12182024 T09

Lab Sample ID: 180-184465-18

Date Collected: 12/18/24 14:55
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	1.1		0.20	0.18	mg/L			01/24/25 10:36	2
pH (SW846 EPA 9040C)	7.9	H3	0.1	0.1	SU			01/22/25 09:40	1
Specific Conductance (SM 2510B)	130		1.0	1.0	umhos/cm			01/22/25 15:43	1
Oxidation Reduction Potential (SM 2580B)	160		10	10	millivolts			01/20/25 16:44	1

Client Sample ID: LEAF-MW05A-12182024 T01

Lab Sample ID: 180-184465-19

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	240		20	18	mg/L			01/17/25 13:02	200
pH (SW846 EPA 9040C)	8.2	H3	0.1	0.1	SU			01/10/25 15:48	1
Specific Conductance (SM 2510B)	8500		1.0	1.0	umhos/cm			01/10/25 16:45	1
Oxidation Reduction Potential (SM 2580B)	99		10	10	millivolts			01/10/25 12:39	1

Client Sample ID: LEAF-MW05A-12182024 T02

Lab Sample ID: 180-184465-20

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	ND		0.20	0.18	mg/L			01/16/25 10:49	2
pH (SW846 EPA 9040C)	8.1	H3	0.1	0.1	SU			01/10/25 15:58	1
Specific Conductance (SM 2510B)	2700		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	120		10	10	millivolts			01/10/25 13:25	1

Client Sample ID: LEAF-MW05A-12182024 T03

Lab Sample ID: 180-184465-21

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	33		5.0	4.4	mg/L			01/16/25 11:08	50
pH (SW846 EPA 9040C)	8.8	H3	0.1	0.1	SU			01/10/25 16:09	1
Specific Conductance (SM 2510B)	960		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	120		10	10	millivolts			01/10/25 14:26	1

Client Sample ID: LEAF-MW05A-12182024 T04

Lab Sample ID: 180-184465-22

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	32		10	8.8	mg/L			01/16/25 10:22	100
pH (SW846 EPA 9040C)	8.6	H3	0.1	0.1	SU			01/10/25 16:34	1
Specific Conductance (SM 2510B)	590		1.0	1.0	umhos/cm			01/10/25 17:27	1
Oxidation Reduction Potential (SM 2580B)	110		10	10	millivolts			01/13/25 15:05	1

Client Sample ID: LEAF-MW05A-12182024 T05

Lab Sample ID: 180-184465-23

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	31		10	8.8	mg/L			01/16/25 11:31	100
pH (SW846 EPA 9040C)	8.7	H3	0.1	0.1	SU			01/10/25 16:20	1
Specific Conductance (SM 2510B)	420		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	140		10	10	millivolts			01/13/25 15:46	1

Client Sample ID: LEAF-MW05A-12182024 T06

Lab Sample ID: 180-184465-24

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	18		5.0	4.4	mg/L			01/16/25 14:45	50
pH (SW846 EPA 9040C)	8.1	H3	0.1	0.1	SU			01/18/25 11:14	1
Specific Conductance (SM 2510B)	290		1.0	1.0	umhos/cm			01/15/25 15:13	1
Oxidation Reduction Potential (SM 2580B)	100		10	10	millivolts			01/13/25 16:41	1

Client Sample ID: LEAF-MW05A-12182024 T07

Lab Sample ID: 180-184465-25

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	13		5.0	4.4	mg/L			01/17/25 12:41	50
pH (SW846 EPA 9040C)	8.1	H3	0.1	0.1	SU			01/18/25 11:30	1
Specific Conductance (SM 2510B)	250		1.0	1.0	umhos/cm			01/15/25 15:09	1
Oxidation Reduction Potential (SM 2580B)	110		10	10	millivolts			01/14/25 15:30	1

Client Sample ID: LEAF-MW05A-12182024 T08

Lab Sample ID: 180-184465-26

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	7.7		5.0	4.4	mg/L			01/24/25 10:14	50
pH (SW846 EPA 9040C)	8.0	H3	0.1	0.1	SU			01/22/25 10:12	1
Specific Conductance (SM 2510B)	220		1.0	1.0	umhos/cm			01/22/25 15:44	1
Oxidation Reduction Potential (SM 2580B)	100		10	10	millivolts			01/20/25 15:21	1

Client Sample ID: LEAF-MW05A-12182024 T09

Lab Sample ID: 180-184465-27

Date Collected: 12/18/24 14:30
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	5.7		2.5	2.2	mg/L			01/24/25 10:37	25
pH (SW846 EPA 9040C)	8.1	H3	0.1	0.1	SU			01/22/25 09:38	1
Specific Conductance (SM 2510B)	200		1.0	1.0	umhos/cm			01/22/25 15:43	1
Oxidation Reduction Potential (SM 2580B)	100		10	10	millivolts			01/20/25 16:54	1

Client Sample ID: LEAF-05AREA-12182024 T01

Lab Sample ID: 180-184465-28

Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	9.5	H3	0.1	0.1	SU			01/10/25 15:49	1
Specific Conductance (SM 2510B)	21000		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	48		10	10	millivolts			01/10/25 12:44	1

Client Sample ID: LEAF-05AREA-12182024 T02

Lab Sample ID: 180-184465-29

Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	77		20	18	mg/L			01/16/25 10:51	200
pH (SW846 EPA 9040C)	9.8	H3	0.1	0.1	SU			01/10/25 15:56	1
Specific Conductance (SM 2510B)	4600		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	16		10	10	millivolts			01/10/25 13:30	1

Client Sample ID: LEAF-05AREA-12182024 T03

Lab Sample ID: 180-184465-30

Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	27		10	8.8	mg/L			01/16/25 11:10	100
pH (SW846 EPA 9040C)	9.9	H3	0.1	0.1	SU			01/10/25 16:11	1
Specific Conductance (SM 2510B)	1600		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	40		10	10	millivolts			01/10/25 14:31	1

Client Sample ID: LEAF-05AREA-12182024 T04

Lab Sample ID: 180-184465-31

Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	12		5.0	4.4	mg/L			01/16/25 10:24	50
pH (SW846 EPA 9040C)	9.6	H3	0.1	0.1	SU			01/10/25 16:28	1
Specific Conductance (SM 2510B)	950		1.0	1.0	umhos/cm			01/10/25 17:27	1
Oxidation Reduction Potential (SM 2580B)	28		10	10	millivolts			01/13/25 15:09	1

Client Sample ID: LEAF-05AREA-12182024 T05

Lab Sample ID: 180-184465-32

Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	6.3		2.5	2.2	mg/L			01/16/25 11:33	25
pH (SW846 EPA 9040C)	10.2	H3	0.1	0.1	SU			01/10/25 16:18	1
Specific Conductance (SM 2510B)	660		1.0	1.0	umhos/cm			01/10/25 16:42	1
Oxidation Reduction Potential (SM 2580B)	+ 2		10	10	millivolts			01/13/25 15:51	1

Client Sample ID: LEAF-05AREA-12182024 T06

Lab Sample ID: 180-184465-33

Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	1.3		0.20	0.18	mg/L			01/16/25 14:47	2
pH (SW846 EPA 9040C)	10.9	H3	0.1	0.1	SU			01/18/25 11:16	1
Specific Conductance (SM 2510B)	380		1.0	1.0	umhos/cm			01/15/25 15:13	1
Oxidation Reduction Potential (SM 2580B)	11		10	10	millivolts			01/13/25 16:46	1

Client Sample ID: LEAF-05AREA-12182024 T08

Lab Sample ID: 180-184465-35

Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	1.2		0.50	0.44	mg/L			01/24/25 10:16	5
pH (SW846 EPA 9040C)	9.8	H3	0.1	0.1	SU			01/22/25 10:14	1
Specific Conductance (SM 2510B)	300		1.0	1.0	umhos/cm			01/22/25 15:45	1
Oxidation Reduction Potential (SM 2580B)	140		10	10	millivolts			01/20/25 15:31	1

Client Sample ID: LEAF-05AREA-12182024 T09

Lab Sample ID: 180-184465-36

Date Collected: 12/18/24 14:35
Matrix: Solid
Date Received: 12/20/24 18:00

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled (EPA 350.1)	0.79		0.20	0.18	mg/L			01/24/25 10:39	2
pH (SW846 EPA 9040C)	9.8	H3	0.1	0.1	SU			01/22/25 09:36	1
Specific Conductance (SM 2510B)	220		1.0	1.0	umhos/cm			01/22/25 15:43	1
Oxidation Reduction Potential (SM 2580B)	40		10	10	millivolts			01/20/25 17:04	1

Method: EPA 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 180-488491/17
Matrix: Solid
Analysis Batch: 488491

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/16/25 14:22	1

Lab Sample ID: MB 180-488491/19
Matrix: Solid
Analysis Batch: 488491

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/16/25 14:26	1

Lab Sample ID: LCS 180-488491/18
Matrix: Solid
Analysis Batch: 488491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	0.500	0.476		mg/L		95	90 - 110

Lab Sample ID: MB 180-488594/84
Matrix: Solid
Analysis Batch: 488594

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/17/25 11:41	1

Lab Sample ID: LCS 180-488594/85
Matrix: Solid
Analysis Batch: 488594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	0.500	0.518		mg/L		104	90 - 110

Lab Sample ID: MB 180-489008/17
Matrix: Solid
Analysis Batch: 489008

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/24/25 09:46	1

Lab Sample ID: LCS 180-489008/18
Matrix: Solid
Analysis Batch: 489008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	0.500	0.472		mg/L		94	90 - 110

Lab Sample ID: 180-184465-2 MS
Matrix: Solid
Analysis Batch: 488474

Client Sample ID: LEAF-MW10A-12182024 T02
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	110		0.500	107	4	mg/L		-777	90 - 110

Method: EPA 350.1 - Nitrogen, Ammonia

Lab Sample ID: 180-184465-2 MSD
Matrix: Solid
Analysis Batch: 488474

Client Sample ID: LEAF-MW10A-12182024 T02
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia, distilled	110		0.500	107	4	mg/L		-709	90 - 110	0	20

Lab Sample ID: 180-184465-30 MS
Matrix: Solid
Analysis Batch: 488474

Client Sample ID: LEAF-05AREA-12182024 T03
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, distilled	27		0.500	28.8	4	mg/L		390	90 - 110

Lab Sample ID: 180-184465-30 MSD
Matrix: Solid
Analysis Batch: 488474

Client Sample ID: LEAF-05AREA-12182024 T03
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia, distilled	27		0.500	27.1	4	mg/L		55	90 - 110	6	20

Lab Sample ID: LB 180-488380/1-A
Matrix: Solid
Analysis Batch: 488594

Client Sample ID: Method Blank
Prep Type: Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/17/25 12:06	1

Method: EPA 9040C - pH

Lab Sample ID: LCS 180-488096/24
Matrix: Solid
Analysis Batch: 488096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		99	99 - 101

Lab Sample ID: LCS 180-488096/48
Matrix: Solid
Analysis Batch: 488096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 180-488096/71
Matrix: Solid
Analysis Batch: 488096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		99	99 - 101

Method: EPA 9040C - pH (Continued)

Lab Sample ID: LCS 180-488621/1
Matrix: Solid
Analysis Batch: 488621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 180-488851/1
Matrix: Solid
Analysis Batch: 488851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: LCS 180-488851/24
Matrix: Solid
Analysis Batch: 488851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 180-488851/46
Matrix: Solid
Analysis Batch: 488851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: 180-184465-13 DU
Matrix: Solid
Analysis Batch: 488096

Client Sample ID: LEAF-MW21A-12182024 T04
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.0	H3	8.0		SU		0	2

Lab Sample ID: 180-184465-32 DU
Matrix: Solid
Analysis Batch: 488096

Client Sample ID: LEAF-05AREA-12182024 T05
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	10.2	H3	10.3		SU		0.6	2

Lab Sample ID: LB 180-488654/1-A
Matrix: Solid
Analysis Batch: 488851

Client Sample ID: Method Blank
Prep Type: Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.0		0.1	0.1	SU			01/22/25 09:24	1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 180-488095/2
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/10/25 16:41	1

Lab Sample ID: MB 180-488095/30
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/10/25 16:42	1

Lab Sample ID: MB 180-488095/58
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/10/25 16:45	1

Lab Sample ID: LCS 180-488095/1
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	86.6		umhos/cm		103	90 - 110

Lab Sample ID: LCS 180-488095/29
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	87.0		umhos/cm		104	90 - 110

Lab Sample ID: LCS 180-488095/57
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	86.8		umhos/cm		103	90 - 110

Lab Sample ID: MB 180-488384/28
Matrix: Solid
Analysis Batch: 488384

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/15/25 15:09	1

Lab Sample ID: MB 180-488384/54
Matrix: Solid
Analysis Batch: 488384

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/15/25 15:13	1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCS 180-488384/27
Matrix: Solid
Analysis Batch: 488384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	88.7		umhos/cm		106	90 - 110

Lab Sample ID: LCS 180-488384/53
Matrix: Solid
Analysis Batch: 488384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	87.4		umhos/cm		104	90 - 110

Lab Sample ID: MB 180-488859/2
Matrix: Solid
Analysis Batch: 488859

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/22/25 15:43	1

Lab Sample ID: MB 180-488859/30
Matrix: Solid
Analysis Batch: 488859

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			01/22/25 15:44	1

Lab Sample ID: LCS 180-488859/1
Matrix: Solid
Analysis Batch: 488859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	87.0		umhos/cm		104	90 - 110

Lab Sample ID: LCS 180-488859/29
Matrix: Solid
Analysis Batch: 488859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	84.0	85.7		umhos/cm		102	90 - 110

Lab Sample ID: 180-184465-23 DU
Matrix: Solid
Analysis Batch: 488095

Client Sample ID: LEAF-MW05A-12182024 T05
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	420		424		umhos/cm		0.3	20

Lab Sample ID: 180-184465-15 DU
Matrix: Solid
Analysis Batch: 488384

Client Sample ID: LEAF-MW21A-12182024 T06
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	190		196		umhos/cm		0.6	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: 180-184465-16 DU
Matrix: Solid
Analysis Batch: 488384

Client Sample ID: LEAF-MW21A-12182024 T07
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	160			163		umhos/cm				0.06	20

Method: SM 2580B - Reduction-Oxidation (REDOX) Potential

Lab Sample ID: 180-184465-12 DU
Matrix: Solid
Analysis Batch: 488076

Client Sample ID: LEAF-MW21A-12182024 T03
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Oxidation Reduction Potential	130			130		millivolts				4	20

Lab Sample ID: 180-184465-15 DU
Matrix: Solid
Analysis Batch: 488173

Client Sample ID: LEAF-MW21A-12182024 T06
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Oxidation Reduction Potential	150			158		millivolts				5	20

General Chemistry

Leach Batch: 487775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-1	LEAF-MW10A-12182024 T01	Leach	Solid	1314	
180-184465-10	LEAF-MW21A-12182024 T01	Leach	Solid	1314	
180-184465-19	LEAF-MW05A-12182024 T01	Leach	Solid	1314	
180-184465-28	LEAF-05AREA-12182024 T01	Leach	Solid	1314	

Leach Batch: 487778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-2	LEAF-MW10A-12182024 T02	Leach	Solid	1314	
180-184465-11	LEAF-MW21A-12182024 T02	Leach	Solid	1314	
180-184465-20	LEAF-MW05A-12182024 T02	Leach	Solid	1314	
180-184465-29	LEAF-05AREA-12182024 T02	Leach	Solid	1314	
180-184465-2 MS	LEAF-MW10A-12182024 T02	Leach	Solid	1314	
180-184465-2 MSD	LEAF-MW10A-12182024 T02	Leach	Solid	1314	

Leach Batch: 487779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-3	LEAF-MW10A-12182024 T03	Leach	Solid	1314	
180-184465-12	LEAF-MW21A-12182024 T03	Leach	Solid	1314	
180-184465-21	LEAF-MW05A-12182024 T03	Leach	Solid	1314	
180-184465-30	LEAF-05AREA-12182024 T03	Leach	Solid	1314	
180-184465-30 MS	LEAF-05AREA-12182024 T03	Leach	Solid	1314	
180-184465-30 MSD	LEAF-05AREA-12182024 T03	Leach	Solid	1314	
180-184465-12 DU	LEAF-MW21A-12182024 T03	Leach	Solid	1314	

Leach Batch: 487780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-4	LEAF-MW10A-12182024 T04	Leach	Solid	1314	
180-184465-13	LEAF-MW21A-12182024 T04	Leach	Solid	1314	
180-184465-22	LEAF-MW05A-12182024 T04	Leach	Solid	1314	
180-184465-31	LEAF-05AREA-12182024 T04	Leach	Solid	1314	
180-184465-13 DU	LEAF-MW21A-12182024 T04	Leach	Solid	1314	

Leach Batch: 487781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-5	LEAF-MW10A-12182024 T05	Leach	Solid	1314	
180-184465-14	LEAF-MW21A-12182024 T05	Leach	Solid	1314	
180-184465-23	LEAF-MW05A-12182024 T05	Leach	Solid	1314	
180-184465-32	LEAF-05AREA-12182024 T05	Leach	Solid	1314	
180-184465-23 DU	LEAF-MW05A-12182024 T05	Leach	Solid	1314	
180-184465-32 DU	LEAF-05AREA-12182024 T05	Leach	Solid	1314	

Leach Batch: 487782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-6	LEAF-MW10A-12182024 T06	Leach	Solid	1314	
180-184465-15	LEAF-MW21A-12182024 T06	Leach	Solid	1314	
180-184465-24	LEAF-MW05A-12182024 T06	Leach	Solid	1314	
180-184465-33	LEAF-05AREA-12182024 T06	Leach	Solid	1314	
180-184465-15 DU	LEAF-MW21A-12182024 T06	Leach	Solid	1314	

General Chemistry

Leach Batch: 487785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-7	LEAF-MW10A-12182024 T07	Leach	Solid	1314	
180-184465-16	LEAF-MW21A-12182024 T07	Leach	Solid	1314	
180-184465-25	LEAF-MW05A-12182024 T07	Leach	Solid	1314	
180-184465-16 DU	LEAF-MW21A-12182024 T07	Leach	Solid	1314	

Leach Batch: 487786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-8	LEAF-MW10A-12182024 T08	Leach	Solid	1314	
180-184465-17	LEAF-MW21A-12182024 T08	Leach	Solid	1314	
180-184465-26	LEAF-MW05A-12182024 T08	Leach	Solid	1314	
180-184465-35	LEAF-05AREA-12182024 T08	Leach	Solid	1314	

Leach Batch: 487787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-9	LEAF-MW10A-12182024 T09	Leach	Solid	1314	
180-184465-18	LEAF-MW21A-12182024 T09	Leach	Solid	1314	
180-184465-27	LEAF-MW05A-12182024 T09	Leach	Solid	1314	
180-184465-36	LEAF-05AREA-12182024 T09	Leach	Solid	1314	

Analysis Batch: 488076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-1	LEAF-MW10A-12182024 T01	Leach	Solid	SM 2580B	487775
180-184465-2	LEAF-MW10A-12182024 T02	Leach	Solid	SM 2580B	487778
180-184465-3	LEAF-MW10A-12182024 T03	Leach	Solid	SM 2580B	487779
180-184465-10	LEAF-MW21A-12182024 T01	Leach	Solid	SM 2580B	487775
180-184465-11	LEAF-MW21A-12182024 T02	Leach	Solid	SM 2580B	487778
180-184465-12	LEAF-MW21A-12182024 T03	Leach	Solid	SM 2580B	487779
180-184465-19	LEAF-MW05A-12182024 T01	Leach	Solid	SM 2580B	487775
180-184465-20	LEAF-MW05A-12182024 T02	Leach	Solid	SM 2580B	487778
180-184465-21	LEAF-MW05A-12182024 T03	Leach	Solid	SM 2580B	487779
180-184465-28	LEAF-05AREA-12182024 T01	Leach	Solid	SM 2580B	487775
180-184465-29	LEAF-05AREA-12182024 T02	Leach	Solid	SM 2580B	487778
180-184465-30	LEAF-05AREA-12182024 T03	Leach	Solid	SM 2580B	487779
LCS 180-488076/1	Lab Control Sample	Total/NA	Solid	SM 2580B	
LCS 180-488076/26	Lab Control Sample	Total/NA	Solid	SM 2580B	
180-184465-12 DU	LEAF-MW21A-12182024 T03	Leach	Solid	SM 2580B	487779

Analysis Batch: 488095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-1	LEAF-MW10A-12182024 T01	Leach	Solid	SM 2510B	487775
180-184465-2	LEAF-MW10A-12182024 T02	Leach	Solid	SM 2510B	487778
180-184465-3	LEAF-MW10A-12182024 T03	Leach	Solid	SM 2510B	487779
180-184465-4	LEAF-MW10A-12182024 T04	Leach	Solid	SM 2510B	487780
180-184465-5	LEAF-MW10A-12182024 T05	Leach	Solid	SM 2510B	487781
180-184465-10	LEAF-MW21A-12182024 T01	Leach	Solid	SM 2510B	487775
180-184465-11	LEAF-MW21A-12182024 T02	Leach	Solid	SM 2510B	487778
180-184465-12	LEAF-MW21A-12182024 T03	Leach	Solid	SM 2510B	487779
180-184465-13	LEAF-MW21A-12182024 T04	Leach	Solid	SM 2510B	487780
180-184465-14	LEAF-MW21A-12182024 T05	Leach	Solid	SM 2510B	487781
180-184465-19	LEAF-MW05A-12182024 T01	Leach	Solid	SM 2510B	487775
180-184465-20	LEAF-MW05A-12182024 T02	Leach	Solid	SM 2510B	487778

General Chemistry (Continued)

Analysis Batch: 488095 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-21	LEAF-MW05A-12182024 T03	Leach	Solid	SM 2510B	487779
180-184465-22	LEAF-MW05A-12182024 T04	Leach	Solid	SM 2510B	487780
180-184465-23	LEAF-MW05A-12182024 T05	Leach	Solid	SM 2510B	487781
180-184465-28	LEAF-05AREA-12182024 T01	Leach	Solid	SM 2510B	487775
180-184465-29	LEAF-05AREA-12182024 T02	Leach	Solid	SM 2510B	487778
180-184465-30	LEAF-05AREA-12182024 T03	Leach	Solid	SM 2510B	487779
180-184465-31	LEAF-05AREA-12182024 T04	Leach	Solid	SM 2510B	487780
180-184465-32	LEAF-05AREA-12182024 T05	Leach	Solid	SM 2510B	487781
MB 180-488095/2	Method Blank	Total/NA	Solid	SM 2510B	
MB 180-488095/30	Method Blank	Total/NA	Solid	SM 2510B	
MB 180-488095/58	Method Blank	Total/NA	Solid	SM 2510B	
LCS 180-488095/1	Lab Control Sample	Total/NA	Solid	SM 2510B	
LCS 180-488095/29	Lab Control Sample	Total/NA	Solid	SM 2510B	
LCS 180-488095/57	Lab Control Sample	Total/NA	Solid	SM 2510B	
180-184465-23 DU	LEAF-MW05A-12182024 T05	Leach	Solid	SM 2510B	487781

Analysis Batch: 488096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-1	LEAF-MW10A-12182024 T01	Leach	Solid	EPA 9040C	487775
180-184465-2	LEAF-MW10A-12182024 T02	Leach	Solid	EPA 9040C	487778
180-184465-3	LEAF-MW10A-12182024 T03	Leach	Solid	EPA 9040C	487779
180-184465-4	LEAF-MW10A-12182024 T04	Leach	Solid	EPA 9040C	487780
180-184465-5	LEAF-MW10A-12182024 T05	Leach	Solid	EPA 9040C	487781
180-184465-10	LEAF-MW21A-12182024 T01	Leach	Solid	EPA 9040C	487775
180-184465-11	LEAF-MW21A-12182024 T02	Leach	Solid	EPA 9040C	487778
180-184465-12	LEAF-MW21A-12182024 T03	Leach	Solid	EPA 9040C	487779
180-184465-13	LEAF-MW21A-12182024 T04	Leach	Solid	EPA 9040C	487780
180-184465-14	LEAF-MW21A-12182024 T05	Leach	Solid	EPA 9040C	487781
180-184465-19	LEAF-MW05A-12182024 T01	Leach	Solid	EPA 9040C	487775
180-184465-20	LEAF-MW05A-12182024 T02	Leach	Solid	EPA 9040C	487778
180-184465-21	LEAF-MW05A-12182024 T03	Leach	Solid	EPA 9040C	487779
180-184465-22	LEAF-MW05A-12182024 T04	Leach	Solid	EPA 9040C	487780
180-184465-23	LEAF-MW05A-12182024 T05	Leach	Solid	EPA 9040C	487781
180-184465-28	LEAF-05AREA-12182024 T01	Leach	Solid	EPA 9040C	487775
180-184465-29	LEAF-05AREA-12182024 T02	Leach	Solid	EPA 9040C	487778
180-184465-30	LEAF-05AREA-12182024 T03	Leach	Solid	EPA 9040C	487779
180-184465-31	LEAF-05AREA-12182024 T04	Leach	Solid	EPA 9040C	487780
180-184465-32	LEAF-05AREA-12182024 T05	Leach	Solid	EPA 9040C	487781
LCS 180-488096/24	Lab Control Sample	Total/NA	Solid	EPA 9040C	
LCS 180-488096/48	Lab Control Sample	Total/NA	Solid	EPA 9040C	
LCS 180-488096/71	Lab Control Sample	Total/NA	Solid	EPA 9040C	
180-184465-13 DU	LEAF-MW21A-12182024 T04	Leach	Solid	EPA 9040C	487780
180-184465-32 DU	LEAF-05AREA-12182024 T05	Leach	Solid	EPA 9040C	487781

Analysis Batch: 488173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-4	LEAF-MW10A-12182024 T04	Leach	Solid	SM 2580B	487780
180-184465-5	LEAF-MW10A-12182024 T05	Leach	Solid	SM 2580B	487781
180-184465-6	LEAF-MW10A-12182024 T06	Leach	Solid	SM 2580B	487782
180-184465-13	LEAF-MW21A-12182024 T04	Leach	Solid	SM 2580B	487780
180-184465-14	LEAF-MW21A-12182024 T05	Leach	Solid	SM 2580B	487781

General Chemistry (Continued)

Analysis Batch: 488173 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-15	LEAF-MW21A-12182024 T06	Leach	Solid	SM 2580B	487782
180-184465-22	LEAF-MW05A-12182024 T04	Leach	Solid	SM 2580B	487780
180-184465-23	LEAF-MW05A-12182024 T05	Leach	Solid	SM 2580B	487781
180-184465-24	LEAF-MW05A-12182024 T06	Leach	Solid	SM 2580B	487782
180-184465-31	LEAF-05AREA-12182024 T04	Leach	Solid	SM 2580B	487780
180-184465-32	LEAF-05AREA-12182024 T05	Leach	Solid	SM 2580B	487781
180-184465-33	LEAF-05AREA-12182024 T06	Leach	Solid	SM 2580B	487782
LCS 180-488173/1	Lab Control Sample	Total/NA	Solid	SM 2580B	
LCS 180-488173/26	Lab Control Sample	Total/NA	Solid	SM 2580B	
180-184465-15 DU	LEAF-MW21A-12182024 T06	Leach	Solid	SM 2580B	487782

Analysis Batch: 488233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-7	LEAF-MW10A-12182024 T07	Leach	Solid	SM 2580B	487785
180-184465-16	LEAF-MW21A-12182024 T07	Leach	Solid	SM 2580B	487785
180-184465-25	LEAF-MW05A-12182024 T07	Leach	Solid	SM 2580B	487785
LCS 180-488233/1	Lab Control Sample	Total/NA	Solid	SM 2580B	

Leach Batch: 488380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 180-488380/1-A	Method Blank	Leach	Solid	1312	

Analysis Batch: 488384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-6	LEAF-MW10A-12182024 T06	Leach	Solid	SM 2510B	487782
180-184465-7	LEAF-MW10A-12182024 T07	Leach	Solid	SM 2510B	487785
180-184465-15	LEAF-MW21A-12182024 T06	Leach	Solid	SM 2510B	487782
180-184465-16	LEAF-MW21A-12182024 T07	Leach	Solid	SM 2510B	487785
180-184465-24	LEAF-MW05A-12182024 T06	Leach	Solid	SM 2510B	487782
180-184465-25	LEAF-MW05A-12182024 T07	Leach	Solid	SM 2510B	487785
180-184465-33	LEAF-05AREA-12182024 T06	Leach	Solid	SM 2510B	487782
MB 180-488384/28	Method Blank	Total/NA	Solid	SM 2510B	
MB 180-488384/54	Method Blank	Total/NA	Solid	SM 2510B	
LCS 180-488384/27	Lab Control Sample	Total/NA	Solid	SM 2510B	
LCS 180-488384/53	Lab Control Sample	Total/NA	Solid	SM 2510B	
180-184465-15 DU	LEAF-MW21A-12182024 T06	Leach	Solid	SM 2510B	487782
180-184465-16 DU	LEAF-MW21A-12182024 T07	Leach	Solid	SM 2510B	487785

Analysis Batch: 488474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-2	LEAF-MW10A-12182024 T02	Leach	Solid	EPA 350.1	487778
180-184465-3	LEAF-MW10A-12182024 T03	Leach	Solid	EPA 350.1	487779
180-184465-4	LEAF-MW10A-12182024 T04	Leach	Solid	EPA 350.1	487780
180-184465-5	LEAF-MW10A-12182024 T05	Leach	Solid	EPA 350.1	487781
180-184465-11	LEAF-MW21A-12182024 T02	Leach	Solid	EPA 350.1	487778
180-184465-12	LEAF-MW21A-12182024 T03	Leach	Solid	EPA 350.1	487779
180-184465-13	LEAF-MW21A-12182024 T04	Leach	Solid	EPA 350.1	487780
180-184465-14	LEAF-MW21A-12182024 T05	Leach	Solid	EPA 350.1	487781
180-184465-20	LEAF-MW05A-12182024 T02	Leach	Solid	EPA 350.1	487778
180-184465-21	LEAF-MW05A-12182024 T03	Leach	Solid	EPA 350.1	487779
180-184465-22	LEAF-MW05A-12182024 T04	Leach	Solid	EPA 350.1	487780

General Chemistry (Continued)

Analysis Batch: 488474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-23	LEAF-MW05A-12182024 T05	Leach	Solid	EPA 350.1	487781
180-184465-29	LEAF-05AREA-12182024 T02	Leach	Solid	EPA 350.1	487778
180-184465-30	LEAF-05AREA-12182024 T03	Leach	Solid	EPA 350.1	487779
180-184465-31	LEAF-05AREA-12182024 T04	Leach	Solid	EPA 350.1	487780
180-184465-32	LEAF-05AREA-12182024 T05	Leach	Solid	EPA 350.1	487781
180-184465-2 MS	LEAF-MW10A-12182024 T02	Leach	Solid	EPA 350.1	487778
180-184465-2 MSD	LEAF-MW10A-12182024 T02	Leach	Solid	EPA 350.1	487778
180-184465-30 MS	LEAF-05AREA-12182024 T03	Leach	Solid	EPA 350.1	487779
180-184465-30 MSD	LEAF-05AREA-12182024 T03	Leach	Solid	EPA 350.1	487779

Analysis Batch: 488491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-6	LEAF-MW10A-12182024 T06	Leach	Solid	EPA 350.1	487782
180-184465-15	LEAF-MW21A-12182024 T06	Leach	Solid	EPA 350.1	487782
180-184465-24	LEAF-MW05A-12182024 T06	Leach	Solid	EPA 350.1	487782
180-184465-33	LEAF-05AREA-12182024 T06	Leach	Solid	EPA 350.1	487782
MB 180-488491/17	Method Blank	Total/NA	Solid	EPA 350.1	
MB 180-488491/19	Method Blank	Total/NA	Solid	EPA 350.1	
LCS 180-488491/18	Lab Control Sample	Total/NA	Solid	EPA 350.1	

Analysis Batch: 488594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-1	LEAF-MW10A-12182024 T01	Leach	Solid	EPA 350.1	487775
180-184465-7	LEAF-MW10A-12182024 T07	Leach	Solid	EPA 350.1	487785
180-184465-10	LEAF-MW21A-12182024 T01	Leach	Solid	EPA 350.1	487775
180-184465-16	LEAF-MW21A-12182024 T07	Leach	Solid	EPA 350.1	487785
180-184465-19	LEAF-MW05A-12182024 T01	Leach	Solid	EPA 350.1	487775
180-184465-25	LEAF-MW05A-12182024 T07	Leach	Solid	EPA 350.1	487785
LB 180-488380/1-A	Method Blank	Leach	Solid	EPA 350.1	488380
MB 180-488594/84	Method Blank	Total/NA	Solid	EPA 350.1	
LCS 180-488594/85	Lab Control Sample	Total/NA	Solid	EPA 350.1	

Analysis Batch: 488621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-6	LEAF-MW10A-12182024 T06	Leach	Solid	EPA 9040C	487782
180-184465-7	LEAF-MW10A-12182024 T07	Leach	Solid	EPA 9040C	487785
180-184465-15	LEAF-MW21A-12182024 T06	Leach	Solid	EPA 9040C	487782
180-184465-16	LEAF-MW21A-12182024 T07	Leach	Solid	EPA 9040C	487785
180-184465-24	LEAF-MW05A-12182024 T06	Leach	Solid	EPA 9040C	487782
180-184465-25	LEAF-MW05A-12182024 T07	Leach	Solid	EPA 9040C	487785
180-184465-33	LEAF-05AREA-12182024 T06	Leach	Solid	EPA 9040C	487782
LCS 180-488621/1	Lab Control Sample	Total/NA	Solid	EPA 9040C	

Leach Batch: 488654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 180-488654/1-A	Method Blank	Leach	Solid	EPA 1312	

Analysis Batch: 488685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-8	LEAF-MW10A-12182024 T08	Leach	Solid	SM 2580B	487786
180-184465-9	LEAF-MW10A-12182024 T09	Leach	Solid	SM 2580B	487787

General Chemistry (Continued)

Analysis Batch: 488685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-17	LEAF-MW21A-12182024 T08	Leach	Solid	SM 2580B	487786
180-184465-18	LEAF-MW21A-12182024 T09	Leach	Solid	SM 2580B	487787
180-184465-26	LEAF-MW05A-12182024 T08	Leach	Solid	SM 2580B	487786
180-184465-27	LEAF-MW05A-12182024 T09	Leach	Solid	SM 2580B	487787
180-184465-35	LEAF-05AREA-12182024 T08	Leach	Solid	SM 2580B	487786
180-184465-36	LEAF-05AREA-12182024 T09	Leach	Solid	SM 2580B	487787
LCS 180-488685/1	Lab Control Sample	Total/NA	Solid	SM 2580B	

Analysis Batch: 488851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-8	LEAF-MW10A-12182024 T08	Leach	Solid	EPA 9040C	487786
180-184465-9	LEAF-MW10A-12182024 T09	Leach	Solid	EPA 9040C	487787
180-184465-17	LEAF-MW21A-12182024 T08	Leach	Solid	EPA 9040C	487786
180-184465-18	LEAF-MW21A-12182024 T09	Leach	Solid	EPA 9040C	487787
180-184465-26	LEAF-MW05A-12182024 T08	Leach	Solid	EPA 9040C	487786
180-184465-27	LEAF-MW05A-12182024 T09	Leach	Solid	EPA 9040C	487787
180-184465-35	LEAF-05AREA-12182024 T08	Leach	Solid	EPA 9040C	487786
180-184465-36	LEAF-05AREA-12182024 T09	Leach	Solid	EPA 9040C	487787
LB 180-488654/1-A	Method Blank	Leach	Solid	EPA 9040C	488654
LCS 180-488851/1	Lab Control Sample	Total/NA	Solid	EPA 9040C	
LCS 180-488851/24	Lab Control Sample	Total/NA	Solid	EPA 9040C	
LCS 180-488851/46	Lab Control Sample	Total/NA	Solid	EPA 9040C	

Analysis Batch: 488859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-8	LEAF-MW10A-12182024 T08	Leach	Solid	SM 2510B	487786
180-184465-9	LEAF-MW10A-12182024 T09	Leach	Solid	SM 2510B	487787
180-184465-17	LEAF-MW21A-12182024 T08	Leach	Solid	SM 2510B	487786
180-184465-18	LEAF-MW21A-12182024 T09	Leach	Solid	SM 2510B	487787
180-184465-26	LEAF-MW05A-12182024 T08	Leach	Solid	SM 2510B	487786
180-184465-27	LEAF-MW05A-12182024 T09	Leach	Solid	SM 2510B	487787
180-184465-35	LEAF-05AREA-12182024 T08	Leach	Solid	SM 2510B	487786
180-184465-36	LEAF-05AREA-12182024 T09	Leach	Solid	SM 2510B	487787
MB 180-488859/2	Method Blank	Total/NA	Solid	SM 2510B	
MB 180-488859/30	Method Blank	Total/NA	Solid	SM 2510B	
LCS 180-488859/1	Lab Control Sample	Total/NA	Solid	SM 2510B	
LCS 180-488859/29	Lab Control Sample	Total/NA	Solid	SM 2510B	

Analysis Batch: 489008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-184465-8	LEAF-MW10A-12182024 T08	Leach	Solid	EPA 350.1	487786
180-184465-9	LEAF-MW10A-12182024 T09	Leach	Solid	EPA 350.1	487787
180-184465-17	LEAF-MW21A-12182024 T08	Leach	Solid	EPA 350.1	487786
180-184465-18	LEAF-MW21A-12182024 T09	Leach	Solid	EPA 350.1	487787
180-184465-26	LEAF-MW05A-12182024 T08	Leach	Solid	EPA 350.1	487786
180-184465-27	LEAF-MW05A-12182024 T09	Leach	Solid	EPA 350.1	487787
180-184465-35	LEAF-05AREA-12182024 T08	Leach	Solid	EPA 350.1	487786
180-184465-36	LEAF-05AREA-12182024 T09	Leach	Solid	EPA 350.1	487787
MB 180-489008/17	Method Blank	Total/NA	Solid	EPA 350.1	
LCS 180-489008/18	Lab Control Sample	Total/NA	Solid	EPA 350.1	

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Corey Bryerton	Lab PM: [redacted] Carrie Gamber	Carrier Tracking No(s):	COC No: 480-199914-41224 10
Client Contact: [redacted] Corey Bryerton	Phone: (716) 720-3256	E-Mail: carrie.gamber@et.eurofins.com	State of Origin: NY	Page: ~~Page 10 of 10~~ 1 of 1
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): Standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: [redacted] john.black@inventumeng.com corey.bryerton@inventumeng.com	WO #:			
Project Name: [redacted] Ammonia SCO LEAF Samples	Project #: [redacted] 48028162			
Site: 3875 River Road	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
N - None
D - HNO3
S - H2SO4
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	[redacted] 1314 LEAF	[redacted] Ammonia	[redacted] Nitr	Total Number of containers	Special Instructions/Note:
			Preservation Code:				●	■	●		
LEAF-MW27A-12182024	12/18/24	13:15	G	Solid			X	X	X		May contain heavy ammonia odors.
LEAF-MW25A-12182024	12/18/24	11:45	G	Solid			X	X	X		
LEAF-TM-12182024	12/18/24	13:55	G	solid			X	X	X		
LEAF-MW10A-12182024	12/18/24	14:05	G	solid			X	X	X		
LEAF-MW21A-12182024	12/18/24	14:55	G	solid			X	X	X		
LEAF-MW05A-12182024	12/18/24	14:30	G	solid			X	X	X		
LEAF-05AREA-12182024	12/18/24	14:35	G	solid			X	X	X		

180-184465 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify): NYS DEC CAT B

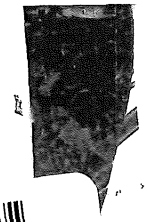
Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Austin Care	12/18/24 3:30			12/20/24 1800	ET/Hict
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 05/06/2024



180-184465 Waybill

FROM: (571) 217-3627
DANIEL WALDROP

Suite C
441 Carlisle Dr Ste C
HERNDON VA 20170
US

SHIP DATE: 18DEC24
ACTWGT: 42.45 LB
CAD: 6571710/ROSA2570
DIMMED: 24 X 24 X 19 IN

BILL 3rd PARTY

TO Carrie Gamber
Eurofins Environment Testing NE LLC
301 Alpha Dr

PITTSBURGH PA 15238 (US

(000) 000-0000 REF:
INV:
PO: DEPT:

Uncorrected temp 2.6 °C
Thermometer ID 26

CF -0.1 Initials

PT-WI-SR-001 effective 7/26/13

FedEx Ground

TRK# 7708 8852 1865

15238

9622 0417 3 (000 447 6979) 9 00 7708 8852 1865

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 180-184465-1

Login Number: 184465
List Number: 1
Creator: Say, Thomas C

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix F – Memorandum, PDIWP Development of Soil Cleanup Objective for Ammonia LEAF Sampling

INVENTUM ENGINEERING

November 20, 2024

To: Benjamin McPherson, Angela Martin

From: Corey Bryerton

CC: John Black, John Yensan, Todd Waldrop, James Edwards, Peter Zaffram, Dan Flanigan, Brian Rudnick

Re: PDIWP Development of Soil Cleanup Objective for Ammonia LEAF Sampling
Riverview Innovation & Technology Campus
3875 River Road
Tonawanda, New York
NYSDEC Site No. C915353

Inventum Engineering (Inventum) collected the characterization samples in accordance with the NYSDEC approved *Pre-Design Investigation Work Plan, Development of Soil Cleanup Objective for Ammonia (work plan)*. The only variation from the work plan was due to the lack of groundwater recovery in three monitoring wells, limiting the analysis of those samples to ammonia. Using the data, and in accordance with the work plan, Inventum is proposing the locations of seven LEAF samples based on data collected (Figure 1) at the Riverview Innovation & Technology Campus, Inc. (RITC) Brownfield Cleanup Program Site (BCP Site) in the Town of Tonawanda, New York, NYSDEC Site No. C915353.

The purpose of the LEAF sampling and analysis is to develop site-specific Ammonia Soil Cleanup Objectives (SCOs), to produce data to understand the potential for fill to act as a source of ammonia contamination to groundwater, and the effect of solidification on the leachability of ammonia from source materials in the production area.

Twenty (20) fill soil samples and 4 supplemental soil samples were collected between the dates of October 17th and October 21st, 2024, and analyzed for Cyanide, Mercury, Ammonia, and pH as outlined in the work plan. The samples were collected within the fill layer at depths between 15 to 60 inches below ground surface (bgs). Two surface samples located west of the phenol area and west of the weak ammonia area were collected at 6 inches bgs. The highest soil ammonia concentrations, based on this sampling event, were shown to be within Area of Investigation (AOI) 1 The North Rail Corridor and AOI 2 The Production Area with a maximum of 247 milligrams per kilogram (mg/Kg) in the sample collected near MW-BCP-05A in AOI 2. The eastern portions of AOI4 The Coke Yard, AOI 5 The Coal Yard, and AOI 7 South Drainage also contained detectable concentrations of ammonia with a maximum of 7.4 mg/Kg in the sample collected near MW-BCP-19A in AOI 5 (Figure 1 and Table 1).

Thirty-five (35) groundwater samples were collected between the dates of October 22nd and October 25th, 2024, from “A”, “B”, and “C” zone monitoring wells and analyzed for a combination of Ammonia, Mercury, Cyanide, VOCs, and SVOCs as outlined in the work plan. A groundwater sample was unable to be collected at MW-BCP-01A and some wells allowed for only ammonia analysis due to lack of groundwater recharge. The highest groundwater ammonia concentrations, based on this sampling event, were shown to be in

the samples from the "A" zone monitoring wells within AOI 2 The Production Area with a maximum concentration of 223,000 micrograms per liter (ug/L) in the sample from MW-BCP-10A (the monitoring well containing NAPL) and from the eastern portions of AOI4 Coke Yard and AOI5 Coal Yard with a maximum concentration of 37,000 ug/L in the sample from MW-BCP-19A (Figure 2 and Table 2).

The maximum, minimum, mean, standard deviation, mean plus one standard deviation, the mean minus one standard deviation, and the mean plus two standard deviations of the ammonia concentration results were calculated (Table 3) from the soil ammonia analytical results. This data set did not include any results that were non-detect for ammonia or the ammonia concentration results collected from the MW-BCP-05 solidified materials (Sample ID: "SD-MW05AREA-10212024"), as the non-detect values may skew the statistical analysis and the MW-BCP-05 solidified materials LEAF sample location was pre-selected.

In accordance with the work plan, the proposed LEAF sampling locations were selected at the minimum, the maximum, and the samples closest to; the mean, the mean minus one standard deviation, the mean plus one standard deviation, and the mean plus two standard deviations. Two additional LEAF sample locations were chosen due to the minimum and mean minus one standard deviation resulting in the same proposed sample location and the maximum and mean plus two standard deviations resulting in the same proposed sample location. The two additional samples were selected to get representative samples of the full range of ammonia concentrations in soil across the site. A LEAF sample will also be collected from the MW-BCP-05 solidified materials. The proposed LEAF sample locations are shown in Figure 1 and summarized below.

- SD-MW-BCP-25A-10182024 (Minimum detection),
- SD-MW-BCP-05A-10212024 (Maximum detection),
- SD-TM-10212024 (closest to the Mean),
- SD-MW-BCP-10A-10212024 (closest to the Mean plus one standard deviation),
- SD-MW-BCP-27A-10172024 (additional sample location),
- SD-MW-BCP-21A (additional sample location),
- SD-MW05AREA-10212024 (LEAF sample location to represent solidified material)

The proposed LEAF sampling locations also show elevated groundwater ammonia concentrations at corresponding monitoring well locations (Table 4). The two highest groundwater ammonia concentrations were detected at MW-BCP-10A (223,000 ug/L) and MW-BCP-05A (166,000 ug/L) and were both selected as areas to collect soil LEAF samples based on their corresponding soil ammonia concentrations, SD-MW-BCP-10A (228 mg/kg) and SD-MW-BCP-05A (247 mg/kg), respectively. All other proposed LEAF sampling locations that have corresponding monitoring wells showed elevated groundwater ammonia concentrations.

We would like to collect these samples the week of November 25th.

If you have any concerns or comments regarding our selections; please contact me at 571-217-6761 or john.black@inventumeng.com.

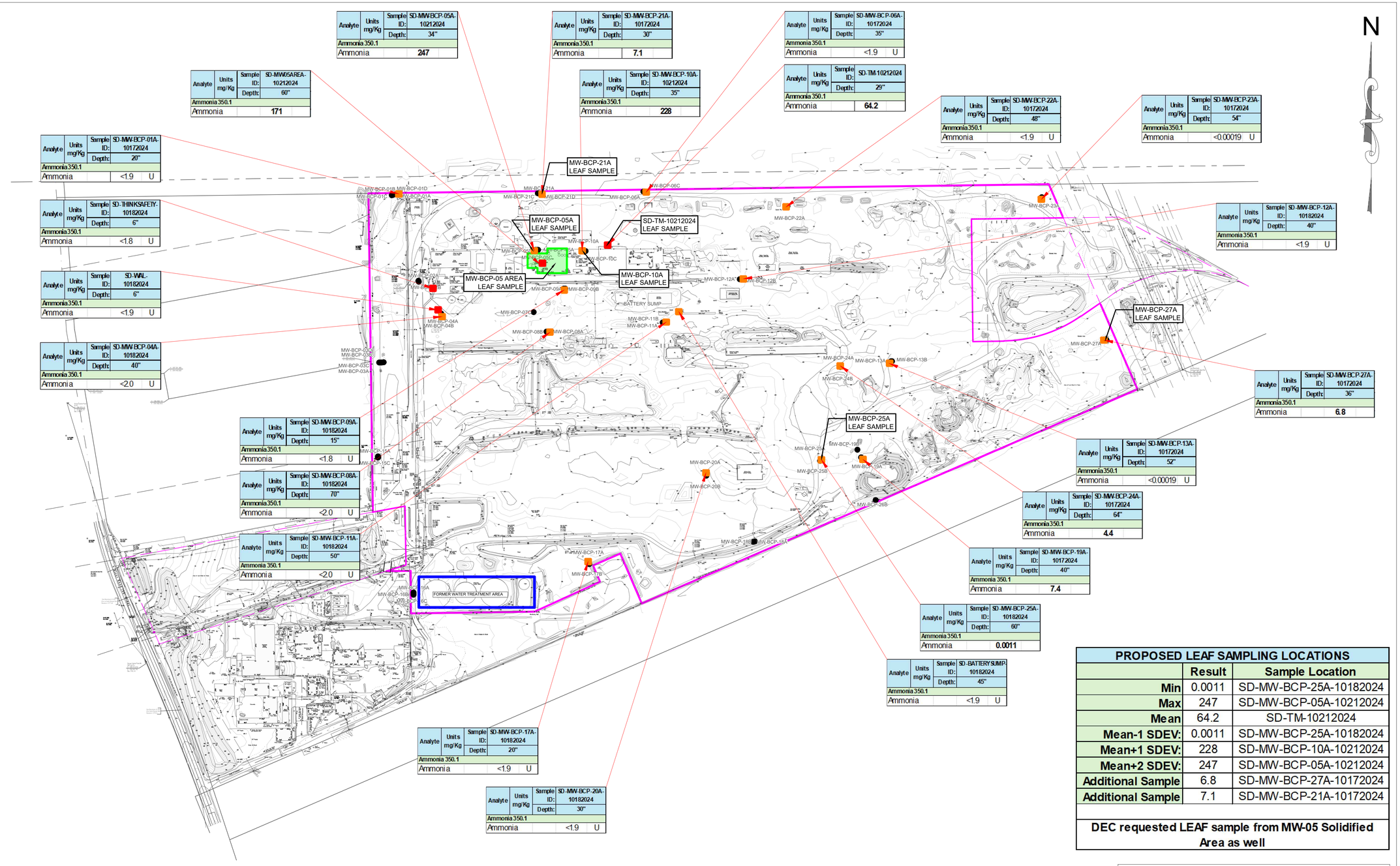
Sincerely,

John P. Black
President

ec:
John Yensan, OSC

Enclosures

Figure 1 – Proposed Locations of LEAF Sampling



PROPOSED LEAF SAMPLING LOCATIONS		
	Result	**Sample Location**
Min	0.0011	SD-MW-BCP-25A-10182024
Max	247	SD-MW-BCP-05A-10212024
Mean	64.2	SD-TM-10212024
Mean-1 SDEV:	0.0011	SD-MW-BCP-25A-10182024
Mean+1 SDEV:	228	SD-MW-BCP-10A-10212024
Mean+2 SDEV:	247	SD-MW-BCP-05A-10212024
Additional Sample	6.8	SD-MW-BCP-27A-10172024
Additional Sample	7.1	SD-MW-BCP-21A-10172024
DEC requested LEAF sample from MW-05 Solidified Area as well		

LEGEND:
- BCP SITE BOUNDARY
- SSF SITE BOUNDARY
- MONITORING WELL LOCATION
- MONITORING WELL LOCATION SOIL SAMPLES
- SUPPLEMENTAL SOIL SAMPLE

Notes:
1. Former Water Treatment Area has been excavated to native clay.
2. Soil samples were collected from test pits advanced within 5-feet of the associated monitory wells.

D

1" = 200'
200' 100' 0' 200'

Reference: Niagara Boundary, Map Showing Topographic Survey of Property Owned by Riverview Innovation & Technology Campus Inc., April 2022

DRAWING BY: CB
CHECKED:
APPROVED:

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AMMONIA SCO SOIL SAMPLING RESULTS AND PROPOSED LEAF SAMPLE LOCATIONS

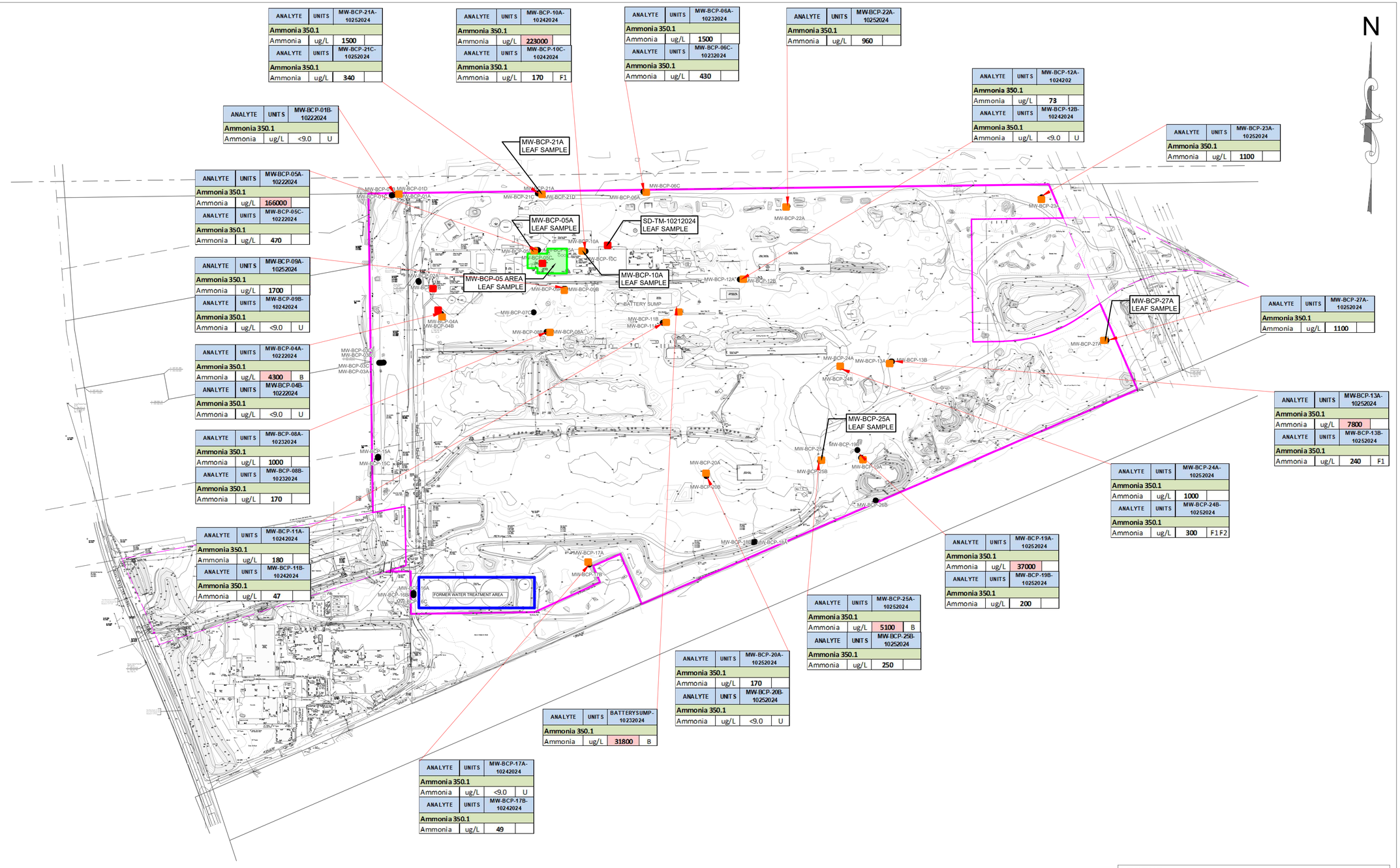
RIVERVIEW INNOVATION & TECHNOLOGY CAMPUS, INC.
3875 RIVER ROAD
TONAWANDA, NY 14150

INVENTUM ENGINEERING
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170
(703) 722-6049
www.InventumEng.com

FIGURE 1

AMMONIA SCO

Figure 2 – Groundwater Ammonia Concentrations



ANALYTE	UNITS	MW-BCP-21A-10252024	
Ammonia 350.1			
Ammonia	ug/L	1500	

ANALYTE	UNITS	MW-BCP-21C-10252024	
Ammonia 350.1			
Ammonia	ug/L	340	

ANALYTE	UNITS	MW-BCP-10A-10242024	
Ammonia 350.1			
Ammonia	ug/L	223000	

ANALYTE	UNITS	MW-BCP-10C-10242024	
Ammonia 350.1			
Ammonia	ug/L	170	F1

ANALYTE	UNITS	MW-BCP-06A-10232024	
Ammonia 350.1			
Ammonia	ug/L	1500	

ANALYTE	UNITS	MW-BCP-06C-10232024	
Ammonia 350.1			
Ammonia	ug/L	430	

ANALYTE	UNITS	MW-BCP-22A-10252024	
Ammonia 350.1			
Ammonia	ug/L	960	

ANALYTE	UNITS	MW-BCP-01B-10222024	
Ammonia 350.1			
Ammonia	ug/L	<9.0	U

ANALYTE	UNITS	MW-BCP-12A-1024202	
Ammonia 350.1			
Ammonia	ug/L	73	

ANALYTE	UNITS	MW-BCP-12B-10242024	
Ammonia 350.1			
Ammonia	ug/L	<9.0	U

ANALYTE	UNITS	MW-BCP-23A-10252024	
Ammonia 350.1			
Ammonia	ug/L	1100	

ANALYTE	UNITS	MW-BCP-05A-10222024	
Ammonia 350.1			
Ammonia	ug/L	166000	

ANALYTE	UNITS	MW-BCP-05C-10222024	
Ammonia 350.1			
Ammonia	ug/L	470	

ANALYTE	UNITS	MW-BCP-09A-10252024	
Ammonia 350.1			
Ammonia	ug/L	1700	

ANALYTE	UNITS	MW-BCP-09B-10242024	
Ammonia 350.1			
Ammonia	ug/L	<9.0	U

ANALYTE	UNITS	MW-BCP-27A-10252024	
Ammonia 350.1			
Ammonia	ug/L	1100	

ANALYTE	UNITS	MW-BCP-04A-10222024	
Ammonia 350.1			
Ammonia	ug/L	4300	B

ANALYTE	UNITS	MW-BCP-04B-10222024	
Ammonia 350.1			
Ammonia	ug/L	<9.0	U

ANALYTE	UNITS	MW-BCP-13A-10252024	
Ammonia 350.1			
Ammonia	ug/L	7800	

ANALYTE	UNITS	MW-BCP-13B-10252024	
Ammonia 350.1			
Ammonia	ug/L	240	F1

ANALYTE	UNITS	MW-BCP-08A-10232024	
Ammonia 350.1			
Ammonia	ug/L	1000	

ANALYTE	UNITS	MW-BCP-08B-10232024	
Ammonia 350.1			
Ammonia	ug/L	170	

ANALYTE	UNITS	MW-BCP-24A-10252024	
Ammonia 350.1			
Ammonia	ug/L	1000	

ANALYTE	UNITS	MW-BCP-24B-10252024	
Ammonia 350.1			
Ammonia	ug/L	300	F1 F2

ANALYTE	UNITS	MW-BCP-11A-10242024	
Ammonia 350.1			
Ammonia	ug/L	180	

ANALYTE	UNITS	MW-BCP-11B-10242024	
Ammonia 350.1			
Ammonia	ug/L	47	

ANALYTE	UNITS	MW-BCP-19A-10252024	
Ammonia 350.1			
Ammonia	ug/L	37000	

ANALYTE	UNITS	MW-BCP-19B-10252024	
Ammonia 350.1			
Ammonia	ug/L	200	

ANALYTE	UNITS	MW-BCP-25A-10252024	
Ammonia 350.1			
Ammonia	ug/L	5100	B

ANALYTE	UNITS	MW-BCP-25B-10252024	
Ammonia 350.1			
Ammonia	ug/L	250	

ANALYTE	UNITS	MW-BCP-20A-10252024	
Ammonia 350.1			
Ammonia	ug/L	170	

ANALYTE	UNITS	MW-BCP-20B-10252024	
Ammonia 350.1			
Ammonia	ug/L	<9.0	U

ANALYTE	UNITS	BATTERYSUMP-10232024	
Ammonia 350.1			
Ammonia	ug/L	31800	B

ANALYTE	UNITS	MW-BCP-17A-10242024	
Ammonia 350.1			
Ammonia	ug/L	<9.0	U

ANALYTE	UNITS	MW-BCP-17B-10242024	
Ammonia 350.1			
Ammonia	ug/L	49	

Notes:
1. Groundwater samples collected between the dates of October 22nd and October 25th 2024.
2. Ammonia concentration results compares to TOGS 1.1.1 Class GA Ambient Water Quality Standards (2000 ug/L).

LEGEND:
- BCP SITE BOUNDARY
- SSF SITE BOUNDARY
- MONITORING WELL LOCATION
- MONITORING WELL LOCATION SOIL SAMPLES
- SUPPLEMENTAL SOIL SAMPLE

D

1" = 200'
200' 100' 0' 200'

Reference: Niagara Boundary, Map Showing Topographic Survey of Property Owned by Riverview Innovation & Technology Campus Inc., April 2022

DRAWING BY: CB
CHECKED:
APPROVED:

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AMMONIA SCO MONITORING WELL SAMPLING RESULTS

RIVERVIEW INNOVATION & TECHNOLOGY CAMPUS, INC.
3875 RIVER ROAD
TONAWANDA, NY 14150

INVENTUM ENGINEERING
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170
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FIGURE 2

AMMONIA SCO

Table 1 – Ammonia SCO Soil Analytical Summary

Table 1
Ammonia SCO Soil Analytical Summary
3875 River Road
Tonawanda, NY

| ANALYTE | SAMPLE ID: | | SD-MW-BCP-01A-10172024 | | SD-MW-BCP-25A-10182024 | | SD-MW-BCP-20A-10182024 | | SD-MW-BCP-17A-10182024 | | SD-MW-BCP-04A-1012024 | | SD-WAL-10182024 Solid | | SD-THINKSAFETY-10182024 | | SD-MW-BCP-08A-10182024 | | SD-MW-BCP-09-10182024 | | SD-MW-BCP-11A-10182024 | | SD-BATTERYSUMP-10182024 | | SD-MW-BCP-21A-10172024 | | SD-MW-BCP-12A-10182024 | | SD-MW-BCP-06A-10172024 | | SD-MW-BCP-22A-10172024 | | SD-MW-BCP-23A-10172024 | | SD-MW-BCP-27A-10172024 | | SD-MW-BCP-13A-10172024 | | SD-MW-BCP-24A-10172024 | | SD-MW-BCP-19A-10172024 | | SD-TM-10212024 | | SD-MW-BCP-10A-10212024 | | SD-MW05AREA-10212024 | | SD-MW-BCP-05A-10212024 | |
|---|---|---

Table 2 – Ammonia SCO Groundwater Analytical Summary

Table 2
Ammonia SCO Water Analytical Summary
3875 River Road
Tonawanda, NY

ANALYTE	SAMPLE ID:	MW-BCP-01B-102520241	MW-BCP-08B-102520241	MW-BCP-04A-102520241	MW-BCP-04B-102520241	MW-BCP-05A-102520241	MW-BCP-05C-102520241	BATTERYSUMP-102520241	MW-BCP-06A-102520241	MW-BCP-06C-102520241	MW-BCP-06A-102520241	MW-BCP-07A-102520241	MW-BCP-13B-102520241	MW-BCP-24A-102520241	MW-BCP-25A-102520241	MW-BCP-23B-102520241	MW-BCP-25B-102520241	MW-BCP-21A-102520241	MW-BCP-18A-102520241	MW-BCP-09B-102520241	MW-BCP-20A-102520241	MW-BCP-20B-102520241	MW-BCP-17A-102520241	MW-BCP-21C-102520241	MW-BCP-27B-102520241	MW-BCP-27A-102520241	MW-BCP-18A-102520241	MW-BCP-16C-102520241	MW-BCP-11A-102520241	MW-BCP-11B-102520241	MW-BCP-13B-102520241	MW-BCP-12A-102520241	MW-BCP-12B-102520241	MW-BCP-13A-102520241
	LAB ID:	480-224705-1	480-224705-10	480-224705-2	480-224705-3	480-224705-4	480-224705-5	480-224705-6	480-224705-7	480-224705-8	480-224705-9	480-224693-1	480-224693-10	480-224693-11	480-224693-12	480-224693-13	480-224693-14	480-224693-15	480-224693-16	480-224693-17	480-224693-18	480-224693-19	480-224693-2	480-224693-20	480-224693-21	480-224693-22	480-224693-23	480-224693-24	480-224693-25	480-224693-3	480-224693-4	480-224693-5	480-224693-6	480-224693-7	480-224693-8	480-224693-9
	COLLECTION DATE:	10/25/2024	10/25/2024	10/25/2024

Table 3 – Ammonia Analytical Summary and Statistical Analysis

Table 3
Ammonia Analytical Summary and Statistical Analysis
3875 River Road
Tonawanda, NY

ANALYTE	SAMPLE ID:	SD-MW-BCP-01A-10172024	SD-MW-BCP-25A-10182024	SD-MW-BCP-20A-10182024	SD-MW-BCP-17A-10182024	SD-MW-BCP-04A-1012024	SD-WAL-10182024 Solid	SD-THINKSAFETY-10182024	SD-MW-BCP-08A-10182024	SD-MW-BCP-09-10182024	SD-MW-BCP-11A-10182024	SD-BATTERYSUMP-10182024	SD-MW-BCP-21A-10172024	SD-MW-BCP-12A-10182024	SD-MW-BCP-06A-10172024	SD-MW-BCP-22A-10172024	SD-MW-BCP-23A-10172024	SD-MW-BCP-27A-10172024	SD-MW-BCP-13A-10172024	SD-MW-BCP-24A-10172024	SD-MW-BCP-19A-10172024	SD-TM-10212024	SD-MW-BCP-10A-10212024	SD-MW05AREA-10212024	SD-MW-BCP-05A-10212024
	LAB ID:	480-224585-1	480-224585-10	480-224585-11	480-224585-12	480-224585-13	480-224585-14	480-224585-15	480-224585-16	480-224585-17	480-224585-18	480-224585-19	480-224585-2	480-224585-20	480-224585-3	480-224585-4	480-224585-5	480-224585-6	480-224585-7	480-224585-8	480-224585-9	480-224610-1	480-224610-2	480-224610-3	480-224610-4
	COLLECTION DATE:	10/17/2024	10/18/2024	10/18/2024	10/18/2024	10/18/2024	10/18/2024	10/18/2024	10/18/2024	10/18/2024	10/18/2024	10/18/2024	10/17/2024	10/18/2024	10/17/2024	10/17/2024	10/17/2024	10/17/2024	10/17/2024	10/17/2024	10/17/2024	10/21/2024	10/21/2024	10/21/2024	10/21/2024
	SAMPLE DEPTH:	20"	60"	30"	20"	40"	6"	6"	70"	15"	50"	45"	30"	40"	35"	48"	54"	36"	52"	64"	40"	29"	35"	60"	34"
	SAMPLE MATRIX:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Nitrogen, Ammonia 350.1	Units																								
Ammonia	mg/Kg	<1.9	0.0011	<1.9	<1.9	<2.0	<1.9	<1.8	<2.0	<1.8	<2.0	<1.9	7.1	<1.9	<1.9	<1.9	<0.00019	6.8	<0.00019	4.4	7.4	64.2	228	171	247

Maximum	Minimum	Mean	Median	Standard Deviation	Mean Minus One Standard Deviation	Mean Plus One Standard Deviation	Mean Plus Two Standard Deviation
247	0.0011	70.61	7.25	105.15	-34.54	175.76	280.91

* Comparison is not performed on parameters with non-numeric criteria.

Notes:
Data Set for statistical analysis only includes ammonia concentrations from the follwing samples: SD-MW-BCP-25A-10182024, SD-MW-BCP-21A-10172024, SD-MW-BCP-27A-10172024, SD-MW-BCP-24A-10172024, SD-MW-BCP-19A-10172024, SD-TM-10212024, SD-MW-BCP-10A-10212024, and SD-MW-BCP-05A-10212024.
NS = Not Sampled
"<" = Analyzed for but detected at or above the quantitation limit
Bold = Analyte was detected

Table 4 – Groundwater Ammonia Concentrations at Proposed LEAF Sample Locations

Table 4
Groundwater Ammonia
Concentrations at Proposed LEAF Sample Locations
3875 River Road
Tonawanda, NY

PROPOSED LEAF SAMPLING LOCATIONS	GROUNDWATER AMMONIA CONCENTRATIONS AT CORRESPONDING LOCATIONS (ug/L)					
	A WELLS		B WELLS		C WELLS	
SD-MW-BCP-25A-10182024	5100	B	250		-	
SD-MW-BCP-05A-10212024	166000		-		470	
SD-TM-10212024	-		-		-	
SD-MW-BCP-10A-10212024	223000		-		170	F1
SD-MW-BCP-27A-10172024	1100		-		-	
SD-MW-BCP-21A-10172024	1500		-		340	

Laboratory Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Austin Oare
Inventum Engineering LLC
441 Carlisle Drive
Suite C
Herndon, Virginia 20170

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JOB DESCRIPTION

Ammonia SCO

JOB NUMBER

480-224585-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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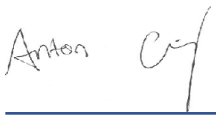
Authorization



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Definitions/Glossary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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 ID: 480-224585-1 Eurofins Buffalo

Job Narrative
480-224585-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/18/2024 4:14 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 time was 5.0°C.

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

General Chemistry
Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: SD-MW-BCP-01A-10172024 (480-224585-1), SD-MW-BCP-21A-10172024 (480-224585-2), SD-MW-BCP-06A-10172024 (480-224585-3), SD-MW-BCP-22A-10172024 (480-224585-4), SD-MW-BCP-23A-10172024 (480-224585-5), SD-MW-BCP-27A-10172024 (480-224585-6), SD-MW-BCP-13A-10172024 (480-224585-7), SD-MW-BCP-24A-10172024 (480-224585-8), SD-MW-BCP-19A-10172024 (480-224585-9), SD-MW-BCP-25A-10182024 (480-224585-10), SD-MW-BCP-20A-10182024 (480-224585-11), SD-MW-BCP-17A-10182024 (480-224585-12), SD-MW-BCP-04A-1012024 (480-224585-13), SD-WAL-10182024 (480-224585-14), SD-THINKSAFETY-10182024 (480-224585-15), SD-MW-BCP-08A-10182024 (480-224585-16), SD-MW-BCP-09-10182024 (480-224585-17), SD-MW-BCP-11A-10182024 (480-224585-18), SD-BATTERYSUMP-10182024 (480-224585-19) and SD-MW-BCP-12A-10182024 (480-224585-20).

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

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-01A-10172024 — Lab Sample ID: 480-224585-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.28	F1 F2	0.023	0.0054	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.65	J	0.95	0.46	mg/Kg	1	☼	9012B	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.3	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-21A-10172024 — Lab Sample ID: 480-224585-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.088		0.024	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	8.4	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.8	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	7.1		3.8	1.9	mg/Kg	1		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-06A-10172024 — Lab Sample ID: 480-224585-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0051	J	0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.7	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-22A-10172024 — Lab Sample ID: 480-224585-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.5	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-23A-10172024 — Lab Sample ID: 480-224585-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.11		0.028	0.0064	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.3	J	1.4	0.66	mg/Kg	1	☼	9012B	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-27A-10172024 — Lab Sample ID: 480-224585-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.9		0.031	0.0070	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	265		73.5	35.5	mg/Kg	50	☼	9012B	Total/NA
pH	6.2	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	6.8		3.5	1.7	mg/Kg	1		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-13A-10172024 — Lab Sample ID: 480-224585-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.074		0.025	0.0057	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.97	J	1.2	0.58	mg/Kg	1	☼	9012B	Total/NA
pH	6.2	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-24A-10172024 — Lab Sample ID: 480-224585-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.081		0.027	0.0061	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.7		1.2	0.59	mg/Kg	1	☼	9012B	Total/NA
pH	7.5	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	4.4		3.8	1.9	mg/Kg	1		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-19A-10172024 — Lab Sample ID: 480-224585-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.28		0.024	0.0054	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	4.0		1.1	0.53	mg/Kg	1	☼	9012B	Total/NA
pH	7.6	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	7.4		3.8	1.9	mg/Kg	1		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-25A-10182024 — Lab Sample ID: 480-224585-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.16		0.023	0.0054	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.7		1.1	0.56	mg/Kg	1	☼	9012B	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	0.0011		0.00037	0.00018	mg/Kg	1		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-20A-10182024 — Lab Sample ID: 480-224585-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.10		0.023	0.0052	mg/Kg	1	☼	7471B	Total/NA
pH	8.2	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-17A-10182024 — Lab Sample ID: 480-224585-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.021	J	0.024	0.0055	mg/Kg	1	☼	7471B	Total/NA
pH	6.0	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.8	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-04A-1012024 — Lab Sample ID: 480-224585-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.084		0.026	0.0060	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.91	J	1.3	0.61	mg/Kg	1	☼	9012B	Total/NA
pH	7.8	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.7	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-WAL-10182024 — Lab Sample ID: 480-224585-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.19		0.025	0.0058	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.1		1.1	0.55	mg/Kg	1	☼	9012B	Total/NA
pH	8.6	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.7	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-THINKSAFETY-10182024 — Lab Sample ID: 480-224585-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	31.5		2.4	0.54	mg/Kg	100	☼	7471B	Total/NA
Cyanide, Total	3.4		1.1	0.54	mg/Kg	1	☼	9012B	Total/NA
pH	8.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-08A-10182024 — Lab Sample ID: 480-224585-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.33		0.029	0.0066	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.9		1.3	0.65	mg/Kg	1	☼	9012B	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-09-10182024 — Lab Sample ID: 480-224585-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.29		0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.0		1.1	0.51	mg/Kg	1	☼	9012B	Total/NA
pH	6.5	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.6	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-11A-10182024 — Lab Sample ID: 480-224585-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.11		0.025	0.0057	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.93	J	1.2	0.58	mg/Kg	1	☼	9012B	Total/NA
pH	8.4	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.7	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-BATTERYSUMP-10182024 — Lab Sample ID: 480-224585-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.50		0.025	0.0058	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	4.8		1.1	0.51	mg/Kg	1	☼	9012B	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SD-MW-BCP-12A-10182024 — Lab Sample ID: 480-224585-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.45		0.024	0.0056	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.5		1.1	0.53	mg/Kg	1	☼	9012B	Total/NA
pH	8.5	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SD-MW-BCP-01A-10172024

Lab Sample ID: 480-224585-1
Date Collected: 10/17/24 09:10
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.7	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.3	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.9	1.9	mg/Kg			10/30/24 13:41	1

Client Sample ID: SD-MW-BCP-01A-10172024

Lab Sample ID: 480-224585-1
Date Collected: 10/17/24 09:10
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 88.3

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28	F1 F2	0.023	0.0054	mg/Kg	☼	10/22/24 10:00	10/22/24 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.65	J	0.95	0.46	mg/Kg	☼	10/21/24 16:15	10/22/24 11:14	1

Client Sample ID: SD-MW-BCP-21A-10172024

Lab Sample ID: 480-224585-2
Date Collected: 10/17/24 09:55
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.4	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.8	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	7.1		3.8	1.9	mg/Kg			10/30/24 13:41	1

Client Sample ID: SD-MW-BCP-21A-10172024

Lab Sample ID: 480-224585-2
Date Collected: 10/17/24 09:55
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 82.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088		0.024	0.0056	mg/Kg	☼	10/22/24 10:00	10/22/24 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.52	mg/Kg	☼	10/21/24 16:15	10/22/24 11:16	1

Client Sample ID: SD-MW-BCP-06A-10172024

Lab Sample ID: 480-224585-3
Date Collected: 10/17/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.7	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

Client Sample ID: SD-MW-BCP-06A-10172024

Lab Sample ID: 480-224585-3
Date Collected: 10/17/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.9	1.9	mg/Kg			10/30/24 13:42	1

Client Sample ID: SD-MW-BCP-06A-10172024

Lab Sample ID: 480-224585-3
Date Collected: 10/17/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 85.5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0051	J	0.022	0.0051	mg/Kg	☼	10/22/24 10:00	10/22/24 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.54	mg/Kg	☼	10/21/24 16:15	10/22/24 12:38	1

Client Sample ID: SD-MW-BCP-22A-10172024

Lab Sample ID: 480-224585-4
Date Collected: 10/17/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.7	1.9	mg/Kg			10/30/24 13:43	1

Client Sample ID: SD-MW-BCP-22A-10172024

Lab Sample ID: 480-224585-4
Date Collected: 10/17/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 67.0

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030	0.0068	mg/Kg	☼	10/22/24 10:00	10/22/24 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.3	0.61	mg/Kg	☼	10/21/24 16:15	10/22/24 11:17	1

Client Sample ID: SD-MW-BCP-23A-10172024

Lab Sample ID: 480-224585-5
Date Collected: 10/17/24 11:30
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.7	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	18.1	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.00038	0.00019	mg/Kg			10/30/24 13:49	1

Client Sample ID: SD-MW-BCP-23A-10172024

Lab Sample ID: 480-224585-5
Date Collected: 10/17/24 11:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 70.6

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.028	0.0064	mg/Kg	☼	10/22/24 10:00	10/22/24 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	1.3	J	1.4	0.66	mg/Kg	☼	10/21/24 16:15	10/22/24 11:17	1

Client Sample ID: SD-MW-BCP-27A-10172024

Lab Sample ID: 480-224585-6
Date Collected: 10/17/24 13:25
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.2	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	18.0	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	6.8		3.5	1.7	mg/Kg			10/30/24 13:51	1

Client Sample ID: SD-MW-BCP-27A-10172024

Lab Sample ID: 480-224585-6
Date Collected: 10/17/24 13:25
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 62.8

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.9		0.031	0.0070	mg/Kg	☼	10/22/24 10:00	10/22/24 11:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	265		73.5	35.5	mg/Kg	☼	10/21/24 16:15	10/22/24 11:18	50

Client Sample ID: SD-MW-BCP-13A-10172024

Lab Sample ID: 480-224585-7
Date Collected: 10/17/24 14:00
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.2	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.00038	0.00019	mg/Kg			10/30/24 13:51	1

Client Sample ID: SD-MW-BCP-13A-10172024

Lab Sample ID: 480-224585-7
Date Collected: 10/17/24 14:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 81.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074		0.025	0.0057	mg/Kg	☼	10/22/24 10:00	10/22/24 11:49	1

Client Sample ID: SD-MW-BCP-13A-10172024

Lab Sample ID: 480-224585-7
Date Collected: 10/17/24 14:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 81.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.97	J	1.2	0.58	mg/Kg	☼	10/21/24 16:15	10/22/24 11:20	1

Client Sample ID: SD-MW-BCP-24A-10172024

Lab Sample ID: 480-224585-8
Date Collected: 10/17/24 14:30
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	18.0	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	4.4		3.8	1.9	mg/Kg			10/31/24 00:52	1

Client Sample ID: SD-MW-BCP-24A-10172024

Lab Sample ID: 480-224585-8
Date Collected: 10/17/24 14:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 73.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.081		0.027	0.0061	mg/Kg	☼	10/22/24 10:00	10/22/24 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	2.7		1.2	0.59	mg/Kg	☼	10/21/24 16:15	10/22/24 11:21	1

Client Sample ID: SD-MW-BCP-19A-10172024

Lab Sample ID: 480-224585-9
Date Collected: 10/17/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.6	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	7.4		3.8	1.9	mg/Kg			10/30/24 13:53	1

Client Sample ID: SD-MW-BCP-19A-10172024

Lab Sample ID: 480-224585-9
Date Collected: 10/17/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 86.6

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.024	0.0054	mg/Kg	☼	10/22/24 10:00	10/22/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	4.0		1.1	0.53	mg/Kg	☼	10/21/24 16:15	10/21/24 20:17	1

Client Sample ID: SD-MW-BCP-25A-10182024
Lab Sample ID: 480-224585-10
Date Collected: 10/18/24 09:00
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.7	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	18.6	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.0011		0.00037	0.00018	mg/Kg			10/29/24 23:44	1

Client Sample ID: SD-MW-BCP-25A-10182024
Lab Sample ID: 480-224585-10
Date Collected: 10/18/24 09:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 85.5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.023	0.0054	mg/Kg	☼	10/22/24 10:00	10/22/24 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	1.7		1.1	0.56	mg/Kg	☼	10/21/24 16:15	10/21/24 20:17	1

Client Sample ID: SD-MW-BCP-20A-10182024
Lab Sample ID: 480-224585-11
Date Collected: 10/18/24 09:50
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.2	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.9	1.9	mg/Kg			10/29/24 23:45	1

Client Sample ID: SD-MW-BCP-20A-10182024
Lab Sample ID: 480-224585-11
Date Collected: 10/18/24 09:50
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 87.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.023	0.0052	mg/Kg	☼	10/22/24 10:00	10/22/24 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	F1	1.1	0.51	mg/Kg	☼	10/21/24 16:15	10/21/24 20:18	1

Client Sample ID: SD-MW-BCP-17A-10182024
Lab Sample ID: 480-224585-12
Date Collected: 10/18/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.0	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.8	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

Client Sample ID: SD-MW-BCP-17A-10182024
Lab Sample ID: 480-224585-12
Date Collected: 10/18/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.8	1.9	mg/Kg			10/29/24 23:46	1

Client Sample ID: SD-MW-BCP-17A-10182024
Lab Sample ID: 480-224585-12
Date Collected: 10/18/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 86.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	J	0.024	0.0055	mg/Kg	☼	10/22/24 10:00	10/22/24 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.55	mg/Kg	☼	10/23/24 13:58	10/23/24 19:45	1

Client Sample ID: SD-MW-BCP-04A-1012024
Lab Sample ID: 480-224585-13
Date Collected: 10/18/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.8	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.7	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		4.0	2.0	mg/Kg			10/29/24 23:46	1

Client Sample ID: SD-MW-BCP-04A-1012024
Lab Sample ID: 480-224585-13
Date Collected: 10/18/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 75.3

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.084		0.026	0.0060	mg/Kg	☼	10/22/24 10:00	10/22/24 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.91	J	1.3	0.61	mg/Kg	☼	10/23/24 13:58	10/23/24 19:45	1

Client Sample ID: SD-WAL-10182024
Lab Sample ID: 480-224585-14
Date Collected: 10/18/24 11:10
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.6	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.7	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.8	1.9	mg/Kg			10/29/24 23:48	1

Client Sample ID: SD-WAL-10182024

Lab Sample ID: 480-224585-14
Date Collected: 10/18/24 11:10
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 82.4

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.025	0.0058	mg/Kg	☼	10/22/24 10:00	10/22/24 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	2.1		1.1	0.55	mg/Kg	☼	10/23/24 13:58	10/23/24 19:45	1

Client Sample ID: SD-THINKSAFETY-10182024

Lab Sample ID: 480-224585-15
Date Collected: 10/18/24 11:25
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.7	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.6	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.6	1.8	mg/Kg			10/30/24 13:56	1

Client Sample ID: SD-THINKSAFETY-10182024

Lab Sample ID: 480-224585-15
Date Collected: 10/18/24 11:25
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 82.4

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	31.5		2.4	0.54	mg/Kg	☼	10/22/24 10:00	10/22/24 13:15	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	3.4		1.1	0.54	mg/Kg	☼	10/23/24 13:58	10/23/24 19:46	1

Client Sample ID: SD-MW-BCP-08A-10182024

Lab Sample ID: 480-224585-16
Date Collected: 10/18/24 11:50
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.6	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		4.0	2.0	mg/Kg			10/30/24 13:56	1

Client Sample ID: SD-MW-BCP-08A-10182024

Lab Sample ID: 480-224585-16
Date Collected: 10/18/24 11:50
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 72.3

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.33		0.029	0.0066	mg/Kg	☼	10/22/24 10:00	10/22/24 12:06	1

Client Sample ID: SD-MW-BCP-08A-10182024

Lab Sample ID: 480-224585-16
Date Collected: 10/18/24 11:50
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 72.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	1.9		1.3	0.65	mg/Kg	☼	10/23/24 13:58	10/23/24 19:46	1

Client Sample ID: SD-MW-BCP-09-10182024

Lab Sample ID: 480-224585-17
Date Collected: 10/18/24 13:15
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.5	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.6	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.6	1.8	mg/Kg			10/30/24 13:58	1

Client Sample ID: SD-MW-BCP-09-10182024

Lab Sample ID: 480-224585-17
Date Collected: 10/18/24 13:15
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 90.1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.023	0.0053	mg/Kg	☼	10/22/24 10:00	10/22/24 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	2.0		1.1	0.51	mg/Kg	☼	10/23/24 13:58	10/23/24 19:49	1

Client Sample ID: SD-MW-BCP-11A-10182024

Lab Sample ID: 480-224585-18
Date Collected: 10/18/24 13:40
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.4	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.7	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.9	2.0	mg/Kg			10/30/24 13:59	1

Client Sample ID: SD-MW-BCP-11A-10182024

Lab Sample ID: 480-224585-18
Date Collected: 10/18/24 13:40
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 79.5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.025	0.0057	mg/Kg	☼	10/22/24 10:00	10/22/24 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.93	J	1.2	0.58	mg/Kg	☼	10/23/24 13:58	10/23/24 19:49	1

Client Sample ID: SD-BATTERYSUMP-10182024
Lab Sample ID: 480-224585-19
Date Collected: 10/18/24 14:10
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.8	1.9	mg/Kg			10/30/24 13:59	1

Client Sample ID: SD-BATTERYSUMP-10182024
Lab Sample ID: 480-224585-19
Date Collected: 10/18/24 14:10
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 81.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50		0.025	0.0058	mg/Kg	☼	10/22/24 10:00	10/22/24 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	4.8		1.1	0.51	mg/Kg	☼	10/23/24 13:58	10/23/24 19:49	1

Client Sample ID: SD-MW-BCP-12A-10182024
Lab Sample ID: 480-224585-20
Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.5	HF	0.1	0.1	SU			10/22/24 12:45	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			10/22/24 12:45	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		3.9	1.9	mg/Kg			10/30/24 14:03	1

Client Sample ID: SD-MW-BCP-12A-10182024
Lab Sample ID: 480-224585-20
Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 85.5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.45		0.024	0.0056	mg/Kg	☼	10/22/24 10:00	10/22/24 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	2.5		1.1	0.53	mg/Kg	☼	10/23/24 13:58	10/23/24 19:50	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-729201/1-A
Matrix: Solid
Analysis Batch: 729316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0047	mg/Kg		10/22/24 10:00	10/22/24 11:32	1

Lab Sample ID: LCSSRM 480-729201/2-A ^10
Matrix: Solid
Analysis Batch: 729316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729201

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	11.9	10.63		mg/Kg		89.3	59.8 - 139.5

Lab Sample ID: 480-224585-1 MS
Matrix: Solid
Analysis Batch: 729316

Client Sample ID: SD-MW-BCP-01A-10172024
Prep Type: Total/NA
Prep Batch: 729201

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.28	F1 F2	0.365	0.492	F1	mg/Kg	☼	58	80 - 120

Lab Sample ID: 480-224585-1 MSD
Matrix: Solid
Analysis Batch: 729316

Client Sample ID: SD-MW-BCP-01A-10172024
Prep Type: Total/NA
Prep Batch: 729201

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.28	F1 F2	0.386	1.11	F1 F2	mg/Kg	☼	215	80 - 120	77	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-730524/24
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg			10/29/24 23:16	1

Lab Sample ID: MB 480-730524/66
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg			10/30/24 00:58	1

Lab Sample ID: MB 480-730524/81
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg			10/30/24 13:46	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-730524/25
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.944		mg/Kg		94	90 - 110

Lab Sample ID: LCS 480-730524/67
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.934		mg/Kg		93	90 - 110

Lab Sample ID: LCS 480-730524/82
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.944		mg/Kg		94	90 - 110

Lab Sample ID: MB 480-730651/5
Matrix: Solid
Analysis Batch: 730651

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg			10/31/24 00:22	1

Lab Sample ID: LCS 480-730651/6
Matrix: Solid
Analysis Batch: 730651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.947		mg/Kg		95	90 - 110

Lab Sample ID: MB 480-730363/1-A
Matrix: Solid
Analysis Batch: 730524

Client Sample ID: Method Blank
Prep Type: ASTM Leach

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg			10/30/24 13:39	1

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-729210/1-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.93	0.45	mg/Kg		10/21/24 14:55	10/21/24 19:37	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-729210/3-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.419		mg/Kg		105	29 - 122

Lab Sample ID: LCS 480-729210/4-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.249		mg/Kg		100	29 - 122

Lab Sample ID: MB 480-729215/1-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.0	0.48	mg/Kg		10/21/24 16:15	10/22/24 11:05	1

Lab Sample ID: LCSSRM 480-729215/2-A
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729215

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	128.2		mg/Kg		85.5	38.9 - 138.7

Lab Sample ID: 480-224585-11 MS
Matrix: Solid
Analysis Batch: 729299

Client Sample ID: SD-MW-BCP-20A-10182024
Prep Type: Total/NA
Prep Batch: 729215

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND	F1	1.30	1.03	J F1	mg/Kg	☼	79	85 - 115

Lab Sample ID: MB 480-729538/1-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.94	0.46	mg/Kg		10/23/24 13:58	10/23/24 19:33	1

Lab Sample ID: LCS 480-729538/3-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.408		mg/Kg		102	29 - 122

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-729538/4-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.261		mg/Kg		104	29 - 122

Lab Sample ID: LCSSRM 480-729538/2-A
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	115.3		mg/Kg		76.8	38.9 - 138.7

Lab Sample ID: 480-224585-20 MS
Matrix: Solid
Analysis Batch: 729607

Client Sample ID: SD-MW-BCP-12A-10182024
Prep Type: Total/NA
Prep Batch: 729538

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.5		1.30	3.71		mg/Kg	☼	91	85 - 115

Method: 9045D - pH

Lab Sample ID: LCS 480-729375/23
Matrix: Solid
Analysis Batch: 729375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: 480-224585-1 DU
Matrix: Solid
Analysis Batch: 729375

Client Sample ID: SD-MW-BCP-01A-10172024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.7	HF	7.8		SU		1	5
Temperature	17.3	HF	17.6		Degrees C		2	10

QC Association Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Metals

Prep Batch: 729201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	Total/NA	Solid	7471B	
480-224585-2	SD-MW-BCP-21A-10172024	Total/NA	Solid	7471B	
480-224585-3	SD-MW-BCP-06A-10172024	Total/NA	Solid	7471B	
480-224585-4	SD-MW-BCP-22A-10172024	Total/NA	Solid	7471B	
480-224585-5	SD-MW-BCP-23A-10172024	Total/NA	Solid	7471B	
480-224585-6	SD-MW-BCP-27A-10172024	Total/NA	Solid	7471B	
480-224585-7	SD-MW-BCP-13A-10172024	Total/NA	Solid	7471B	
480-224585-8	SD-MW-BCP-24A-10172024	Total/NA	Solid	7471B	
480-224585-9	SD-MW-BCP-19A-10172024	Total/NA	Solid	7471B	
480-224585-10	SD-MW-BCP-25A-10182024	Total/NA	Solid	7471B	
480-224585-11	SD-MW-BCP-20A-10182024	Total/NA	Solid	7471B	
480-224585-12	SD-MW-BCP-17A-10182024	Total/NA	Solid	7471B	
480-224585-13	SD-MW-BCP-04A-1012024	Total/NA	Solid	7471B	
480-224585-14	SD-WAL-10182024	Total/NA	Solid	7471B	
480-224585-15	SD-THINKSAFETY-10182024	Total/NA	Solid	7471B	
480-224585-16	SD-MW-BCP-08A-10182024	Total/NA	Solid	7471B	
480-224585-17	SD-MW-BCP-09-10182024	Total/NA	Solid	7471B	
480-224585-18	SD-MW-BCP-11A-10182024	Total/NA	Solid	7471B	
480-224585-19	SD-BATTERYSUMP-10182024	Total/NA	Solid	7471B	
480-224585-20	SD-MW-BCP-12A-10182024	Total/NA	Solid	7471B	
MB 480-729201/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-729201/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-224585-1 MS	SD-MW-BCP-01A-10172024	Total/NA	Solid	7471B	
480-224585-1 MSD	SD-MW-BCP-01A-10172024	Total/NA	Solid	7471B	

Analysis Batch: 729316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	Total/NA	Solid	7471B	729201
480-224585-2	SD-MW-BCP-21A-10172024	Total/NA	Solid	7471B	729201
480-224585-3	SD-MW-BCP-06A-10172024	Total/NA	Solid	7471B	729201
480-224585-4	SD-MW-BCP-22A-10172024	Total/NA	Solid	7471B	729201
480-224585-5	SD-MW-BCP-23A-10172024	Total/NA	Solid	7471B	729201
480-224585-6	SD-MW-BCP-27A-10172024	Total/NA	Solid	7471B	729201
480-224585-7	SD-MW-BCP-13A-10172024	Total/NA	Solid	7471B	729201
480-224585-8	SD-MW-BCP-24A-10172024	Total/NA	Solid	7471B	729201
480-224585-9	SD-MW-BCP-19A-10172024	Total/NA	Solid	7471B	729201
480-224585-10	SD-MW-BCP-25A-10182024	Total/NA	Solid	7471B	729201
480-224585-11	SD-MW-BCP-20A-10182024	Total/NA	Solid	7471B	729201
480-224585-12	SD-MW-BCP-17A-10182024	Total/NA	Solid	7471B	729201
480-224585-13	SD-MW-BCP-04A-1012024	Total/NA	Solid	7471B	729201
480-224585-14	SD-WAL-10182024	Total/NA	Solid	7471B	729201
480-224585-15	SD-THINKSAFETY-10182024	Total/NA	Solid	7471B	729201
480-224585-16	SD-MW-BCP-08A-10182024	Total/NA	Solid	7471B	729201
480-224585-17	SD-MW-BCP-09-10182024	Total/NA	Solid	7471B	729201
480-224585-18	SD-MW-BCP-11A-10182024	Total/NA	Solid	7471B	729201
480-224585-19	SD-BATTERYSUMP-10182024	Total/NA	Solid	7471B	729201
480-224585-20	SD-MW-BCP-12A-10182024	Total/NA	Solid	7471B	729201
MB 480-729201/1-A	Method Blank	Total/NA	Solid	7471B	729201
LCSSRM 480-729201/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	729201
480-224585-1 MS	SD-MW-BCP-01A-10172024	Total/NA	Solid	7471B	729201
480-224585-1 MSD	SD-MW-BCP-01A-10172024	Total/NA	Solid	7471B	729201

General Chemistry

Analysis Batch: 729203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	Total/NA	Solid	Moisture	
480-224585-2	SD-MW-BCP-21A-10172024	Total/NA	Solid	Moisture	
480-224585-3	SD-MW-BCP-06A-10172024	Total/NA	Solid	Moisture	
480-224585-4	SD-MW-BCP-22A-10172024	Total/NA	Solid	Moisture	
480-224585-5	SD-MW-BCP-23A-10172024	Total/NA	Solid	Moisture	
480-224585-6	SD-MW-BCP-27A-10172024	Total/NA	Solid	Moisture	
480-224585-7	SD-MW-BCP-13A-10172024	Total/NA	Solid	Moisture	
480-224585-8	SD-MW-BCP-24A-10172024	Total/NA	Solid	Moisture	
480-224585-9	SD-MW-BCP-19A-10172024	Total/NA	Solid	Moisture	
480-224585-10	SD-MW-BCP-25A-10182024	Total/NA	Solid	Moisture	
480-224585-11	SD-MW-BCP-20A-10182024	Total/NA	Solid	Moisture	
480-224585-12	SD-MW-BCP-17A-10182024	Total/NA	Solid	Moisture	
480-224585-13	SD-MW-BCP-04A-1012024	Total/NA	Solid	Moisture	
480-224585-14	SD-WAL-10182024	Total/NA	Solid	Moisture	
480-224585-15	SD-THINKSAFETY-10182024	Total/NA	Solid	Moisture	
480-224585-16	SD-MW-BCP-08A-10182024	Total/NA	Solid	Moisture	
480-224585-17	SD-MW-BCP-09-10182024	Total/NA	Solid	Moisture	
480-224585-18	SD-MW-BCP-11A-10182024	Total/NA	Solid	Moisture	
480-224585-19	SD-BATTERYSUMP-10182024	Total/NA	Solid	Moisture	
480-224585-20	SD-MW-BCP-12A-10182024	Total/NA	Solid	Moisture	

Prep Batch: 729210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-729210/1-A	Method Blank	Total/NA	Solid	Distill/CN	
LCS 480-729210/3-A	Lab Control Sample	Total/NA	Solid	Distill/CN	
LCS 480-729210/4-A	Lab Control Sample	Total/NA	Solid	Distill/CN	

Prep Batch: 729215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	Total/NA	Solid	9012B	
480-224585-2	SD-MW-BCP-21A-10172024	Total/NA	Solid	9012B	
480-224585-3	SD-MW-BCP-06A-10172024	Total/NA	Solid	9012B	
480-224585-4	SD-MW-BCP-22A-10172024	Total/NA	Solid	9012B	
480-224585-5	SD-MW-BCP-23A-10172024	Total/NA	Solid	9012B	
480-224585-6	SD-MW-BCP-27A-10172024	Total/NA	Solid	9012B	
480-224585-7	SD-MW-BCP-13A-10172024	Total/NA	Solid	9012B	
480-224585-8	SD-MW-BCP-24A-10172024	Total/NA	Solid	9012B	
480-224585-9	SD-MW-BCP-19A-10172024	Total/NA	Solid	9012B	
480-224585-10	SD-MW-BCP-25A-10182024	Total/NA	Solid	9012B	
480-224585-11	SD-MW-BCP-20A-10182024	Total/NA	Solid	9012B	
MB 480-729215/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-729215/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-224585-11 MS	SD-MW-BCP-20A-10182024	Total/NA	Solid	9012B	

Analysis Batch: 729299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	Total/NA	Solid	9012B	729215
480-224585-2	SD-MW-BCP-21A-10172024	Total/NA	Solid	9012B	729215
480-224585-3	SD-MW-BCP-06A-10172024	Total/NA	Solid	9012B	729215
480-224585-4	SD-MW-BCP-22A-10172024	Total/NA	Solid	9012B	729215
480-224585-5	SD-MW-BCP-23A-10172024	Total/NA	Solid	9012B	729215

General Chemistry (Continued)

Analysis Batch: 729299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-6	SD-MW-BCP-27A-10172024	Total/NA	Solid	9012B	729215
480-224585-7	SD-MW-BCP-13A-10172024	Total/NA	Solid	9012B	729215
480-224585-8	SD-MW-BCP-24A-10172024	Total/NA	Solid	9012B	729215
480-224585-9	SD-MW-BCP-19A-10172024	Total/NA	Solid	9012B	729215
480-224585-10	SD-MW-BCP-25A-10182024	Total/NA	Solid	9012B	729215
480-224585-11	SD-MW-BCP-20A-10182024	Total/NA	Solid	9012B	729215
MB 480-729210/1-A	Method Blank	Total/NA	Solid	9012B	729210
MB 480-729215/1-A	Method Blank	Total/NA	Solid	9012B	729215
LCS 480-729210/3-A	Lab Control Sample	Total/NA	Solid	9012B	729210
LCS 480-729210/4-A	Lab Control Sample	Total/NA	Solid	9012B	729210
LCSSRM 480-729215/2-A	Lab Control Sample	Total/NA	Solid	9012B	729215
480-224585-11 MS	SD-MW-BCP-20A-10182024	Total/NA	Solid	9012B	729215

Analysis Batch: 729375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	Total/NA	Solid	9045D	
480-224585-2	SD-MW-BCP-21A-10172024	Total/NA	Solid	9045D	
480-224585-3	SD-MW-BCP-06A-10172024	Total/NA	Solid	9045D	
480-224585-4	SD-MW-BCP-22A-10172024	Total/NA	Solid	9045D	
480-224585-5	SD-MW-BCP-23A-10172024	Total/NA	Solid	9045D	
480-224585-6	SD-MW-BCP-27A-10172024	Total/NA	Solid	9045D	
480-224585-7	SD-MW-BCP-13A-10172024	Total/NA	Solid	9045D	
480-224585-8	SD-MW-BCP-24A-10172024	Total/NA	Solid	9045D	
480-224585-9	SD-MW-BCP-19A-10172024	Total/NA	Solid	9045D	
480-224585-10	SD-MW-BCP-25A-10182024	Total/NA	Solid	9045D	
480-224585-11	SD-MW-BCP-20A-10182024	Total/NA	Solid	9045D	
480-224585-12	SD-MW-BCP-17A-10182024	Total/NA	Solid	9045D	
480-224585-13	SD-MW-BCP-04A-1012024	Total/NA	Solid	9045D	
480-224585-14	SD-WAL-10182024	Total/NA	Solid	9045D	
480-224585-15	SD-THINKSAFETY-10182024	Total/NA	Solid	9045D	
480-224585-16	SD-MW-BCP-08A-10182024	Total/NA	Solid	9045D	
480-224585-17	SD-MW-BCP-09-10182024	Total/NA	Solid	9045D	
480-224585-18	SD-MW-BCP-11A-10182024	Total/NA	Solid	9045D	
480-224585-19	SD-BATTERYSUMP-10182024	Total/NA	Solid	9045D	
480-224585-20	SD-MW-BCP-12A-10182024	Total/NA	Solid	9045D	
LCS 480-729375/23	Lab Control Sample	Total/NA	Solid	9045D	
480-224585-1 DU	SD-MW-BCP-01A-10172024	Total/NA	Solid	9045D	

Prep Batch: 729538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-12	SD-MW-BCP-17A-10182024	Total/NA	Solid	9012B	
480-224585-13	SD-MW-BCP-04A-1012024	Total/NA	Solid	9012B	
480-224585-14	SD-WAL-10182024	Total/NA	Solid	9012B	
480-224585-15	SD-THINKSAFETY-10182024	Total/NA	Solid	9012B	
480-224585-16	SD-MW-BCP-08A-10182024	Total/NA	Solid	9012B	
480-224585-17	SD-MW-BCP-09-10182024	Total/NA	Solid	9012B	
480-224585-18	SD-MW-BCP-11A-10182024	Total/NA	Solid	9012B	
480-224585-19	SD-BATTERYSUMP-10182024	Total/NA	Solid	9012B	
480-224585-20	SD-MW-BCP-12A-10182024	Total/NA	Solid	9012B	
MB 480-729538/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-729538/3-A	Lab Control Sample	Total/NA	Solid	9012B	

General Chemistry (Continued)

Prep Batch: 729538 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-729538/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-729538/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-224585-20 MS	SD-MW-BCP-12A-10182024	Total/NA	Solid	9012B	

Analysis Batch: 729607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-12	SD-MW-BCP-17A-10182024	Total/NA	Solid	9012B	729538
480-224585-13	SD-MW-BCP-04A-1012024	Total/NA	Solid	9012B	729538
480-224585-14	SD-WAL-10182024	Total/NA	Solid	9012B	729538
480-224585-15	SD-THINKSAFETY-10182024	Total/NA	Solid	9012B	729538
480-224585-16	SD-MW-BCP-08A-10182024	Total/NA	Solid	9012B	729538
480-224585-17	SD-MW-BCP-09-10182024	Total/NA	Solid	9012B	729538
480-224585-18	SD-MW-BCP-11A-10182024	Total/NA	Solid	9012B	729538
480-224585-19	SD-BATTERYSUMP-10182024	Total/NA	Solid	9012B	729538
480-224585-20	SD-MW-BCP-12A-10182024	Total/NA	Solid	9012B	729538
MB 480-729538/1-A	Method Blank	Total/NA	Solid	9012B	729538
LCS 480-729538/3-A	Lab Control Sample	Total/NA	Solid	9012B	729538
LCS 480-729538/4-A	Lab Control Sample	Total/NA	Solid	9012B	729538
LCSSRM 480-729538/2-A	Lab Control Sample	Total/NA	Solid	9012B	729538
480-224585-20 MS	SD-MW-BCP-12A-10182024	Total/NA	Solid	9012B	729538

Leach Batch: 730363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-2	SD-MW-BCP-21A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-3	SD-MW-BCP-06A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-4	SD-MW-BCP-22A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-5	SD-MW-BCP-23A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-6	SD-MW-BCP-27A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-7	SD-MW-BCP-13A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-8	SD-MW-BCP-24A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-9	SD-MW-BCP-19A-10172024	ASTM Leach	Solid	D3987-85	
480-224585-10	SD-MW-BCP-25A-10182024	ASTM Leach	Solid	D3987-85	
480-224585-11	SD-MW-BCP-20A-10182024	ASTM Leach	Solid	D3987-85	
480-224585-12	SD-MW-BCP-17A-10182024	ASTM Leach	Solid	D3987-85	
480-224585-13	SD-MW-BCP-04A-1012024	ASTM Leach	Solid	D3987-85	
480-224585-14	SD-WAL-10182024	ASTM Leach	Solid	D3987-85	
480-224585-15	SD-THINKSAFETY-10182024	ASTM Leach	Solid	D3987-85	
480-224585-16	SD-MW-BCP-08A-10182024	ASTM Leach	Solid	D3987-85	
480-224585-17	SD-MW-BCP-09-10182024	ASTM Leach	Solid	D3987-85	
480-224585-18	SD-MW-BCP-11A-10182024	ASTM Leach	Solid	D3987-85	
480-224585-19	SD-BATTERYSUMP-10182024	ASTM Leach	Solid	D3987-85	
480-224585-20	SD-MW-BCP-12A-10182024	ASTM Leach	Solid	D3987-85	
MB 480-730363/1-A	Method Blank	ASTM Leach	Solid	D3987-85	

Analysis Batch: 730524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-1	SD-MW-BCP-01A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-2	SD-MW-BCP-21A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-3	SD-MW-BCP-06A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-4	SD-MW-BCP-22A-10172024	ASTM Leach	Solid	350.1	730363

General Chemistry (Continued)

Analysis Batch: 730524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-5	SD-MW-BCP-23A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-6	SD-MW-BCP-27A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-7	SD-MW-BCP-13A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-9	SD-MW-BCP-19A-10172024	ASTM Leach	Solid	350.1	730363
480-224585-10	SD-MW-BCP-25A-10182024	ASTM Leach	Solid	350.1	730363
480-224585-11	SD-MW-BCP-20A-10182024	ASTM Leach	Solid	350.1	730363
480-224585-12	SD-MW-BCP-17A-10182024	ASTM Leach	Solid	350.1	730363
480-224585-13	SD-MW-BCP-04A-1012024	ASTM Leach	Solid	350.1	730363
480-224585-14	SD-WAL-10182024	ASTM Leach	Solid	350.1	730363
480-224585-15	SD-THINKSAFETY-10182024	ASTM Leach	Solid	350.1	730363
480-224585-16	SD-MW-BCP-08A-10182024	ASTM Leach	Solid	350.1	730363
480-224585-17	SD-MW-BCP-09-10182024	ASTM Leach	Solid	350.1	730363
480-224585-18	SD-MW-BCP-11A-10182024	ASTM Leach	Solid	350.1	730363
480-224585-19	SD-BATTERYSUMP-10182024	ASTM Leach	Solid	350.1	730363
480-224585-20	SD-MW-BCP-12A-10182024	ASTM Leach	Solid	350.1	730363
MB 480-730363/1-A	Method Blank	ASTM Leach	Solid	350.1	730363
MB 480-730524/24	Method Blank	Total/NA	Solid	350.1	
MB 480-730524/66	Method Blank	Total/NA	Solid	350.1	
MB 480-730524/81	Method Blank	Total/NA	Solid	350.1	
LCS 480-730524/25	Lab Control Sample	Total/NA	Solid	350.1	
LCS 480-730524/67	Lab Control Sample	Total/NA	Solid	350.1	
LCS 480-730524/82	Lab Control Sample	Total/NA	Solid	350.1	

Analysis Batch: 730651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224585-8	SD-MW-BCP-24A-10172024	ASTM Leach	Solid	350.1	730363
MB 480-730651/5	Method Blank	Total/NA	Solid	350.1	
LCS 480-730651/6	Lab Control Sample	Total/NA	Solid	350.1	

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-01A-10172024
Lab Sample ID: 480-224585-1
Date Collected: 10/17/24 09:10
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:41
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-01A-10172024
Lab Sample ID: 480-224585-1
Date Collected: 10/17/24 09:10
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:34
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 11:14

Client Sample ID: SD-MW-BCP-21A-10172024
Lab Sample ID: 480-224585-2
Date Collected: 10/17/24 09:55
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:41
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-21A-10172024
Lab Sample ID: 480-224585-2
Date Collected: 10/17/24 09:55
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:40
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 11:16

Client Sample ID: SD-MW-BCP-06A-10172024
Lab Sample ID: 480-224585-3
Date Collected: 10/17/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:42
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-06A-10172024
Lab Sample ID: 480-224585-3
Date Collected: 10/17/24 10:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:41
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 12:38

Client Sample ID: SD-MW-BCP-22A-10172024
Lab Sample ID: 480-224585-4
Date Collected: 10/17/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:43
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-22A-10172024
Lab Sample ID: 480-224585-4
Date Collected: 10/17/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 67.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:42
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 11:17

Client Sample ID: SD-MW-BCP-23A-10172024
Lab Sample ID: 480-224585-5
Date Collected: 10/17/24 11:30
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:49
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-23A-10172024
Lab Sample ID: 480-224585-5
Date Collected: 10/17/24 11:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 70.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:44
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 11:17

Client Sample ID: SD-MW-BCP-27A-10172024

Lab Sample ID: 480-224585-6
Matrix: Solid
Date Collected: 10/17/24 13:25
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:51
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-27A-10172024

Lab Sample ID: 480-224585-6
Matrix: Solid
Date Collected: 10/17/24 13:25
Date Received: 10/18/24 16:14
Percent Solids: 62.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:48
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		50	729299	AM	EET BUF	10/22/24 11:18

Client Sample ID: SD-MW-BCP-13A-10172024

Lab Sample ID: 480-224585-7
Matrix: Solid
Date Collected: 10/17/24 14:00
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:51
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-13A-10172024

Lab Sample ID: 480-224585-7
Matrix: Solid
Date Collected: 10/17/24 14:00
Date Received: 10/18/24 16:14
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:49
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 11:20

Client Sample ID: SD-MW-BCP-24A-10172024

Lab Sample ID: 480-224585-8
Matrix: Solid
Date Collected: 10/17/24 14:30
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:52
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-24A-10172024
Lab Sample ID: 480-224585-8
Date Collected: 10/17/24 14:30
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:50
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/22/24 11:21

Client Sample ID: SD-MW-BCP-19A-10172024
Lab Sample ID: 480-224585-9
Date Collected: 10/17/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:53
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-19A-10172024
Lab Sample ID: 480-224585-9
Date Collected: 10/17/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:51
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/21/24 20:17

Client Sample ID: SD-MW-BCP-25A-10182024
Lab Sample ID: 480-224585-10
Date Collected: 10/18/24 09:00
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/29/24 23:44
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-25A-10182024
Lab Sample ID: 480-224585-10
Date Collected: 10/18/24 09:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:53
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/21/24 20:17

Client Sample ID: SD-MW-BCP-20A-10182024

Lab Sample ID: 480-224585-11
Matrix: Solid
Date Collected: 10/18/24 09:50
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/29/24 23:45
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-20A-10182024

Lab Sample ID: 480-224585-11
Matrix: Solid
Date Collected: 10/18/24 09:50
Date Received: 10/18/24 16:14
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:54
Total/NA	Prep	9012B			729215	AM	EET BUF	10/21/24 16:15
Total/NA	Analysis	9012B		1	729299	AM	EET BUF	10/21/24 20:18

Client Sample ID: SD-MW-BCP-17A-10182024

Lab Sample ID: 480-224585-12
Matrix: Solid
Date Collected: 10/18/24 10:30
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/29/24 23:46
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-17A-10182024

Lab Sample ID: 480-224585-12
Matrix: Solid
Date Collected: 10/18/24 10:30
Date Received: 10/18/24 16:14
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:55
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:45

Client Sample ID: SD-MW-BCP-04A-1012024

Lab Sample ID: 480-224585-13
Matrix: Solid
Date Collected: 10/18/24 11:00
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/29/24 23:46
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-04A-1012024
Lab Sample ID: 480-224585-13
Date Collected: 10/18/24 11:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:57
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:45

Client Sample ID: SD-WAL-10182024
Lab Sample ID: 480-224585-14
Date Collected: 10/18/24 11:10
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/29/24 23:48
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-WAL-10182024
Lab Sample ID: 480-224585-14
Date Collected: 10/18/24 11:10
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 11:58
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:45

Client Sample ID: SD-THINKSAFETY-10182024
Lab Sample ID: 480-224585-15
Date Collected: 10/18/24 11:25
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:56
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-THINKSAFETY-10182024
Lab Sample ID: 480-224585-15
Date Collected: 10/18/24 11:25
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		100	729316	ESB	EET BUF	10/22/24 13:15
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:46

Client Sample ID: SD-MW-BCP-08A-10182024
Lab Sample ID: 480-224585-16
Date Collected: 10/18/24 11:50
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:56
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-08A-10182024
Lab Sample ID: 480-224585-16
Date Collected: 10/18/24 11:50
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 72.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:06
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:46

Client Sample ID: SD-MW-BCP-09-10182024
Lab Sample ID: 480-224585-17
Date Collected: 10/18/24 13:15
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:58
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-09-10182024
Lab Sample ID: 480-224585-17
Date Collected: 10/18/24 13:15
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:07
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:49

Client Sample ID: SD-MW-BCP-11A-10182024
Lab Sample ID: 480-224585-18
Date Collected: 10/18/24 13:40
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:59
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Client Sample ID: SD-MW-BCP-11A-10182024
Lab Sample ID: 480-224585-18
Date Collected: 10/18/24 13:40
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:09
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:49

Client Sample ID: SD-BATTERYSUMP-10182024
Lab Sample ID: 480-224585-19
Date Collected: 10/18/24 14:10
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 13:59
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-BATTERYSUMP-10182024
Lab Sample ID: 480-224585-19
Date Collected: 10/18/24 14:10
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:10
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:49

Client Sample ID: SD-MW-BCP-12A-10182024
Lab Sample ID: 480-224585-20
Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730363	AM	EET BUF	10/23/24 21:10 - 10/24/24 15:10 [1]
ASTM Leach	Analysis	350.1		1	730524	AM	EET BUF	10/30/24 14:03
Total/NA	Analysis	9045D		1	729375	CG	EET BUF	10/22/24 12:45
Total/NA	Analysis	Moisture		1	729203	JLS	EET BUF	10/21/24 16:21

Client Sample ID: SD-MW-BCP-12A-10182024
Lab Sample ID: 480-224585-20
Date Collected: 10/18/24 15:00
Matrix: Solid
Date Received: 10/18/24 16:14
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729201	ESB	EET BUF	10/22/24 10:00
Total/NA	Analysis	7471B		1	729316	ESB	EET BUF	10/22/24 12:11
Total/NA	Prep	9012B			729538	AM	EET BUF	10/23/24 13:58
Total/NA	Analysis	9012B		1	729607	AM	EET BUF	10/23/24 19:50

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Laboratory References:

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

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
350.1		Solid	Ammonia
9045D		Solid	Temperature
Moisture		Solid	Percent Solids

Method Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Method	Method Description	Protocol	Laboratory
7471B	Mercury (CVAA)	SW846	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET BUF
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
9045D	pH	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET BUF
D3987-85	ASTM Leaching Procedure	ASTM	EET BUF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224585-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224585-1	SD-MW-BCP-01A-10172024	Solid	10/17/24 09:10	10/18/24 16:14
480-224585-2	SD-MW-BCP-21A-10172024	Solid	10/17/24 09:55	10/18/24 16:14
480-224585-3	SD-MW-BCP-06A-10172024	Solid	10/17/24 10:30	10/18/24 16:14
480-224585-4	SD-MW-BCP-22A-10172024	Solid	10/17/24 11:00	10/18/24 16:14
480-224585-5	SD-MW-BCP-23A-10172024	Solid	10/17/24 11:30	10/18/24 16:14
480-224585-6	SD-MW-BCP-27A-10172024	Solid	10/17/24 13:25	10/18/24 16:14
480-224585-7	SD-MW-BCP-13A-10172024	Solid	10/17/24 14:00	10/18/24 16:14
480-224585-8	SD-MW-BCP-24A-10172024	Solid	10/17/24 14:30	10/18/24 16:14
480-224585-9	SD-MW-BCP-19A-10172024	Solid	10/17/24 15:00	10/18/24 16:14
480-224585-10	SD-MW-BCP-25A-10182024	Solid	10/18/24 09:00	10/18/24 16:14
480-224585-11	SD-MW-BCP-20A-10182024	Solid	10/18/24 09:50	10/18/24 16:14
480-224585-12	SD-MW-BCP-17A-10182024	Solid	10/18/24 10:30	10/18/24 16:14
480-224585-13	SD-MW-BCP-04A-1012024	Solid	10/18/24 11:00	10/18/24 16:14
480-224585-14	SD-WAL-10182024	Solid	10/18/24 11:10	10/18/24 16:14
480-224585-15	SD-THINKSAFETY-10182024	Solid	10/18/24 11:25	10/18/24 16:14
480-224585-16	SD-MW-BCP-08A-10182024	Solid	10/18/24 11:50	10/18/24 16:14
480-224585-17	SD-MW-BCP-09-10182024	Solid	10/18/24 13:15	10/18/24 16:14
480-224585-18	SD-MW-BCP-11A-10182024	Solid	10/18/24 13:40	10/18/24 16:14
480-224585-19	SD-BATTERYSUMP-10182024	Solid	10/18/24 14:10	10/18/24 16:14
480-224585-20	SD-MW-BCP-12A-10182024	Solid	10/18/24 15:00	10/18/24 16:14

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Austin Oare / Corey Bra[illegible]	Lab PM: [illegible], Brian J	Carrier Tracking No(s):	COC No: 480-199914-41224.7
Client Contact: Mr. Austin Oare	Phone: 716-720-3256	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: NY	Page: Page [illegible] 1 of 2
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): Standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: austin.oare@inventumeng.com	WO #:			
Project Name: Ammonia SCO	Project #: 48028091			
Site: 3875 River Road	SSOW#:			

john.black@inventumeng.com
peter.zaffram@inventumeng.com

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Ammonia	Total Mercury	Total Cyanide	pH 2				Total Number of containers	Special Instructions/Note:
Preservation Code:							A	B	N	D	S	N	N		
SD-MW-BCP-01A-10172024	10/17/24	0910	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-21A-10172024	10/17/24	0955	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-06A-10172024	10/17/24	10:30	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-22A-10172024	10/17/24	11:00	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-23A-10172024	10/17/24	11:30	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-27A-10172024	10/17/24	13:25	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-13A-10172024	10/17/24	14:00	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-24A-10172024	10/17/24	14:30	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-19A-10172024	10/17/24	15:00	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-25A-10182024	10/18/24	0900	G	Solid Water			X	X	X	X				2	
SD-MW-BCP-20A-10182024	10/18/24	0950	G	Solid Water			X	X	X	X				2	

480-224585 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC CATB / EQuIS 1

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Peter Zaffram	Date/Time: 10/18/2024	Company: Inventum	Received by: [signature]	Date/Time: 10/18/24 1614	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.0 IR#5 ICE

Ver: 05/06/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Austin Oare/Corey Boyerton	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-199914-41224.8
Client Contact: Mr. Austin Oare	Phone: 716-720-3256	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: NY	Page: Page 2 of 2
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): Standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: austin.oare@inventumeng.com	WO #:			
Project Name: Ammonia SCO	Project #: 48028091			
Site: 3875 River Road	SSOW#:			

john.black@inventumeng.com
peter.zaffram@inventumeng.com

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
N - None
D - HNO3
S - H2SO4

Other:

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Ammonia	Total Mercury	Total Cyanide	pH				Total Number of containers
			Preservation Code:				A	B	N	D	S	N	N	
SD-MW-BCP-17A-10182024	10/18/24	10:30	G	Solid			X	X	X	X				2
SD-MW-BCP-04A-10182024	10/18/24	11:00	G	Solid			X	X	X	X				2
SD-WAL-10182024	10/18/24	11:10	G	Solid			X	X	X	X				2
SD-THINKSAFETY-10182024	10/18/24	11:25	G	Solid			X	X	X	X				2
SD-MW-BCP-08A-10182024	10/18/24	11:50	G	Solid			X	X	X	X				2
SD-MW-BCP-09A-10182024	10/18/24	13:15	G	Solid			X	X	X	X				2
SD-MW-BCP-11A-10182024	10/18/24	13:40	G	Solid			X	X	X	X				2
SD-BATTERYSUMP-10182024	10/18/24	14:10	G	Solid			X	X	X	X				2
SD-MW-BCP-12A-10182024	10/18/24	15:00	G	Solid			X	X	X	X				2
				Solid										
				Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC CATB/EQUIS 1

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Peter Zaffram	10/18/2024	Inventum			
2	Relinquished by:	Date/Time:	Company	Received by: Matthew Crabb	10/18/24 1614	T&A
3	Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 480-224585-1

Login Number: 224585
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

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	5.0 IR#SC ice
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.	N/A	
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	Inventum Engineering
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Austin Oare
Inventum Engineering LLC
441 Carlisle Drive
Suite C
Herndon, Virginia 20170

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JOB DESCRIPTION

Ammonia SCO

JOB NUMBER

480-224610-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

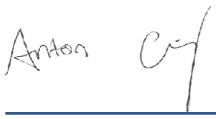
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
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Designee for
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Definitions/Glossary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Qualifiers

Metals

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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 ID: 480-224610-1 Eurofins Buffalo

Job Narrative
480-224610-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/21/2024 2:18 PM. Unless otherwise noted below, the samples arrived in good condition. The temperature of the cooler at receipt time was 21.4°C.

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

General Chemistry
Method 9012B: The sample duplicate (DUP) precision for preparation batch 480-730503 and analytical batch 480-730602 was outside control limits. Sample matrix interference is suspected.

Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: SD-TM-10212024 (480-224610-1), SD-MW-BCP-10A-10212024 (480-224610-2), SD-MW05AREA-10212024 (480-224610-3) and SD-MW-BCP-05A-10212024 (480-224610-4).

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

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Client Sample ID: SD-TM-10212024 — Lab Sample ID: 480-224610-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.3	^-	0.24	0.055	mg/Kg	10	☼	7471B	Total/NA
Cyanide, Total	2.2	F1	1.1	0.55	mg/Kg	1	☼	9012B	Total/NA
pH	8.8	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.2	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	64.2		19.0	9.5	mg/Kg	5		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-10A-10212024 — Lab Sample ID: 480-224610-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	3.6	^-	0.25	0.058	mg/Kg	10	☼	7471B	Total/NA
Cyanide, Total	10.5		6.2	3.0	mg/Kg	5	☼	9012B	Total/NA
pH	9.3	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	228		100	50.2	mg/Kg	25.71		350.1	ASTM Leach

Client Sample ID: SD-MW05AREA-10212024 — Lab Sample ID: 480-224610-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	5.4	^-	0.26	0.059	mg/Kg	10	☼	7471B	Total/NA
Cyanide, Total	115		26.6	12.8	mg/Kg	25	☼	9012B	Total/NA
pH	11.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.4	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	171		18.2	9.1	mg/Kg	5		350.1	ASTM Leach

Client Sample ID: SD-MW-BCP-05A-10212024 — Lab Sample ID: 480-224610-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	6.5	^-	0.26	0.059	mg/Kg	10	☼	7471B	Total/NA
Cyanide, Total	7.1		1.2	0.60	mg/Kg	1	☼	9012B	Total/NA
pH	9.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.3	HF	0.001	0.001	Degrees C	1		9045D	Total/NA
Ammonia	247		100	50.1	mg/Kg	25.71		350.1	ASTM Leach

This Detection Summary does not include radiochemical test results.

Client Sample ID: SD-TM-10212024

Lab Sample ID: 480-224610-1
Date Collected: 10/21/24 08:30
Matrix: Solid
Date Received: 10/21/24 14:18

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.8	HF	0.1	0.1	SU			10/25/24 13:00	1
Temperature (SW846 9045D)	18.2	HF	0.001	0.001	Degrees C			10/25/24 13:00	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	64.2		19.0	9.5	mg/Kg			11/01/24 23:13	5

Client Sample ID: SD-TM-10212024

Lab Sample ID: 480-224610-1
Date Collected: 10/21/24 08:30
Matrix: Solid
Date Received: 10/21/24 14:18
Percent Solids: 85.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3	^-	0.24	0.055	mg/Kg	☼	10/25/24 09:07	10/25/24 15:30	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	2.2	F1	1.1	0.55	mg/Kg	☼	10/30/24 13:25	10/30/24 20:06	1

Client Sample ID: SD-MW-BCP-10A-10212024

Lab Sample ID: 480-224610-2
Date Collected: 10/21/24 09:00
Matrix: Solid
Date Received: 10/21/24 14:18

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	9.3	HF	0.1	0.1	SU			10/25/24 13:00	1
Temperature (SW846 9045D)	18.1	HF	0.001	0.001	Degrees C			10/25/24 13:00	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	228		100	50.2	mg/Kg			11/02/24 11:11	25.71

Client Sample ID: SD-MW-BCP-10A-10212024

Lab Sample ID: 480-224610-2
Date Collected: 10/21/24 09:00
Matrix: Solid
Date Received: 10/21/24 14:18
Percent Solids: 78.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.6	^-	0.25	0.058	mg/Kg	☼	10/25/24 09:07	10/25/24 15:32	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	10.5		6.2	3.0	mg/Kg	☼	10/30/24 13:25	10/30/24 21:00	5

Client Sample ID: SD-MW05AREA-10212024

Lab Sample ID: 480-224610-3
Date Collected: 10/21/24 10:10
Matrix: Solid
Date Received: 10/21/24 14:18

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	11.7	HF	0.1	0.1	SU			10/25/24 13:00	1
Temperature (SW846 9045D)	18.4	HF	0.001	0.001	Degrees C			10/25/24 13:00	1

Client Sample ID: SD-MW05AREA-10212024

Lab Sample ID: 480-224610-3
Date Collected: 10/21/24 10:10
Matrix: Solid
Date Received: 10/21/24 14:18

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	171		18.2	9.1	mg/Kg			11/02/24 11:12	5

Client Sample ID: SD-MW05AREA-10212024

Lab Sample ID: 480-224610-3
Date Collected: 10/21/24 10:10
Matrix: Solid
Date Received: 10/21/24 14:18
Percent Solids: 78.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.4	^-	0.26	0.059	mg/Kg	☼	10/25/24 09:07	10/25/24 15:33	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	115		26.6	12.8	mg/Kg	☼	10/30/24 13:25	10/30/24 21:20	25

Client Sample ID: SD-MW-BCP-05A-10212024

Lab Sample ID: 480-224610-4
Date Collected: 10/21/24 10:45
Matrix: Solid
Date Received: 10/21/24 14:18

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	9.7	HF	0.1	0.1	SU			10/25/24 13:00	1
Temperature (SW846 9045D)	18.3	HF	0.001	0.001	Degrees C			10/25/24 13:00	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	247		100	50.1	mg/Kg			11/02/24 11:12	25.71

Client Sample ID: SD-MW-BCP-05A-10212024

Lab Sample ID: 480-224610-4
Date Collected: 10/21/24 10:45
Matrix: Solid
Date Received: 10/21/24 14:18
Percent Solids: 78.3

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.5	^-	0.26	0.059	mg/Kg	☼	10/25/24 09:07	10/25/24 15:34	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	7.1		1.2	0.60	mg/Kg	☼	10/30/24 13:25	10/30/24 20:11	1

QC Sample Results

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-729636/1-A
Matrix: Solid
Analysis Batch: 729877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0045	mg/Kg		10/25/24 09:07	10/25/24 12:16	1

Lab Sample ID: LCSSRM 480-729636/2-A ^10
Matrix: Solid
Analysis Batch: 729877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729636

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	11.9	11.18		mg/Kg		93.9	59.8 - 139.5

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-730935/44
Matrix: Solid
Analysis Batch: 730935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.962		mg/Kg		96	90 - 110

Lab Sample ID: LCS 480-730935/63
Matrix: Solid
Analysis Batch: 730935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.992		mg/Kg		99	90 - 110

Lab Sample ID: MB 480-730900/1-A
Matrix: Solid
Analysis Batch: 730935

Client Sample ID: Method Blank
Prep Type: ASTM Leach

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg			11/01/24 22:29	1

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-730503/1-A
Matrix: Solid
Analysis Batch: 730602

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.92	0.44	mg/Kg		10/30/24 13:25	10/30/24 20:02	1

Lab Sample ID: LCS 480-730503/3-A
Matrix: Solid
Analysis Batch: 730602

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.409		mg/Kg		102	29 - 122

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-730503/4-A
Matrix: Solid
Analysis Batch: 730602

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730503

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.253		mg/Kg		101	29 - 122		

Lab Sample ID: LCSSRM 480-730503/2-A
Matrix: Solid
Analysis Batch: 730602

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730503

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			150	88.89		mg/Kg		59.3	38.9 - 138.7		

Lab Sample ID: 480-224610-1 MS
Matrix: Solid
Analysis Batch: 730602

Client Sample ID: SD-TM-10212024
Prep Type: Total/NA
Prep Batch: 730503

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	2.2	F1	1.28	2.35	F1	mg/Kg	☼	12	85 - 115		

Lab Sample ID: 480-224610-1 DU
Matrix: Solid
Analysis Batch: 730602

Client Sample ID: SD-TM-10212024
Prep Type: Total/NA
Prep Batch: 730503

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	2.2	F1	1.71	F5	mg/Kg	☼	25	15

Method: 9045D - pH

Lab Sample ID: LCS 480-729999/1
Matrix: Solid
Analysis Batch: 729999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.1		SU		101	99 - 101		

QC Association Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Metals

Prep Batch: 729636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	Total/NA	Solid	7471B	
480-224610-2	SD-MW-BCP-10A-10212024	Total/NA	Solid	7471B	
480-224610-3	SD-MW05AREA-10212024	Total/NA	Solid	7471B	
480-224610-4	SD-MW-BCP-05A-10212024	Total/NA	Solid	7471B	
MB 480-729636/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-729636/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 729877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	Total/NA	Solid	7471B	729636
480-224610-2	SD-MW-BCP-10A-10212024	Total/NA	Solid	7471B	729636
480-224610-3	SD-MW05AREA-10212024	Total/NA	Solid	7471B	729636
480-224610-4	SD-MW-BCP-05A-10212024	Total/NA	Solid	7471B	729636
MB 480-729636/1-A	Method Blank	Total/NA	Solid	7471B	729636
LCSSRM 480-729636/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	729636

General Chemistry

Analysis Batch: 729295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	Total/NA	Solid	Moisture	
480-224610-2	SD-MW-BCP-10A-10212024	Total/NA	Solid	Moisture	
480-224610-3	SD-MW05AREA-10212024	Total/NA	Solid	Moisture	
480-224610-4	SD-MW-BCP-05A-10212024	Total/NA	Solid	Moisture	

Analysis Batch: 729999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	Total/NA	Solid	9045D	
480-224610-2	SD-MW-BCP-10A-10212024	Total/NA	Solid	9045D	
480-224610-3	SD-MW05AREA-10212024	Total/NA	Solid	9045D	
480-224610-4	SD-MW-BCP-05A-10212024	Total/NA	Solid	9045D	
LCS 480-729999/1	Lab Control Sample	Total/NA	Solid	9045D	

Prep Batch: 730503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	Total/NA	Solid	9012B	
480-224610-2	SD-MW-BCP-10A-10212024	Total/NA	Solid	9012B	
480-224610-3	SD-MW05AREA-10212024	Total/NA	Solid	9012B	
480-224610-4	SD-MW-BCP-05A-10212024	Total/NA	Solid	9012B	
MB 480-730503/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-730503/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-730503/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-730503/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-224610-1 MS	SD-TM-10212024	Total/NA	Solid	9012B	
480-224610-1 DU	SD-TM-10212024	Total/NA	Solid	9012B	

Analysis Batch: 730602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	Total/NA	Solid	9012B	730503
480-224610-2	SD-MW-BCP-10A-10212024	Total/NA	Solid	9012B	730503
480-224610-3	SD-MW05AREA-10212024	Total/NA	Solid	9012B	730503

General Chemistry (Continued)

Analysis Batch: 730602 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-4	SD-MW-BCP-05A-10212024	Total/NA	Solid	9012B	730503
MB 480-730503/1-A	Method Blank	Total/NA	Solid	9012B	730503
LCS 480-730503/3-A	Lab Control Sample	Total/NA	Solid	9012B	730503
LCS 480-730503/4-A	Lab Control Sample	Total/NA	Solid	9012B	730503
LCSSRM 480-730503/2-A	Lab Control Sample	Total/NA	Solid	9012B	730503
480-224610-1 MS	SD-TM-10212024	Total/NA	Solid	9012B	730503
480-224610-1 DU	SD-TM-10212024	Total/NA	Solid	9012B	730503

Leach Batch: 730900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	ASTM Leach	Solid	D3987-85	
480-224610-2	SD-MW-BCP-10A-10212024	ASTM Leach	Solid	D3987-85	
480-224610-3	SD-MW05AREA-10212024	ASTM Leach	Solid	D3987-85	
480-224610-4	SD-MW-BCP-05A-10212024	ASTM Leach	Solid	D3987-85	
MB 480-730900/1-A	Method Blank	ASTM Leach	Solid	D3987-85	

Analysis Batch: 730935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224610-1	SD-TM-10212024	ASTM Leach	Solid	350.1	730900
480-224610-2	SD-MW-BCP-10A-10212024	ASTM Leach	Solid	350.1	730900
480-224610-3	SD-MW05AREA-10212024	ASTM Leach	Solid	350.1	730900
480-224610-4	SD-MW-BCP-05A-10212024	ASTM Leach	Solid	350.1	730900
MB 480-730900/1-A	Method Blank	ASTM Leach	Solid	350.1	730900
LCS 480-730935/44	Lab Control Sample	Total/NA	Solid	350.1	
LCS 480-730935/63	Lab Control Sample	Total/NA	Solid	350.1	

Client Sample ID: SD-TM-10212024

Lab Sample ID: 480-224610-1

Date Collected: 10/21/24 08:30

Matrix: Solid

Date Received: 10/21/24 14:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730900	AM	EET BUF	10/31/24 17:09 - 11/01/24 11:09 [1]
ASTM Leach	Analysis	350.1		5	730935	AM	EET BUF	11/01/24 23:13
Total/NA	Analysis	9045D		1	729999	CG	EET BUF	10/25/24 13:00
Total/NA	Analysis	Moisture		1	729295	VXF	EET BUF	10/22/24 12:09

Client Sample ID: SD-TM-10212024

Lab Sample ID: 480-224610-1

Date Collected: 10/21/24 08:30

Matrix: Solid

Date Received: 10/21/24 14:18

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729636	ESB	EET BUF	10/25/24 09:07
Total/NA	Analysis	7471B		10	729877	ESB	EET BUF	10/25/24 15:30
Total/NA	Prep	9012B			730503	AM	EET BUF	10/30/24 13:25
Total/NA	Analysis	9012B		1	730602	AM	EET BUF	10/30/24 20:06

Client Sample ID: SD-MW-BCP-10A-10212024

Lab Sample ID: 480-224610-2

Date Collected: 10/21/24 09:00

Matrix: Solid

Date Received: 10/21/24 14:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730900	AM	EET BUF	10/31/24 17:09 - 11/01/24 11:09 [1]
ASTM Leach	Analysis	350.1		25.71	730935	AM	EET BUF	11/02/24 11:11
Total/NA	Analysis	9045D		1	729999	CG	EET BUF	10/25/24 13:00
Total/NA	Analysis	Moisture		1	729295	VXF	EET BUF	10/22/24 12:09

Client Sample ID: SD-MW-BCP-10A-10212024

Lab Sample ID: 480-224610-2

Date Collected: 10/21/24 09:00

Matrix: Solid

Date Received: 10/21/24 14:18

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729636	ESB	EET BUF	10/25/24 09:07
Total/NA	Analysis	7471B		10	729877	ESB	EET BUF	10/25/24 15:32
Total/NA	Prep	9012B			730503	AM	EET BUF	10/30/24 13:25
Total/NA	Analysis	9012B		5	730602	AM	EET BUF	10/30/24 21:00

Client Sample ID: SD-MW05AREA-10212024

Lab Sample ID: 480-224610-3

Date Collected: 10/21/24 10:10

Matrix: Solid

Date Received: 10/21/24 14:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730900	AM	EET BUF	10/31/24 17:09 - 11/01/24 11:09 [1]
ASTM Leach	Analysis	350.1		5	730935	AM	EET BUF	11/02/24 11:12
Total/NA	Analysis	9045D		1	729999	CG	EET BUF	10/25/24 13:00
Total/NA	Analysis	Moisture		1	729295	VXF	EET BUF	10/22/24 12:09

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Client Sample ID: SD-MW05AREA-10212024

Lab Sample ID: 480-224610-3
Date Collected: 10/21/24 10:10
Matrix: Solid
Date Received: 10/21/24 14:18
Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729636	ESB	EET BUF	10/25/24 09:07
Total/NA	Analysis	7471B		10	729877	ESB	EET BUF	10/25/24 15:33
Total/NA	Prep	9012B			730503	AM	EET BUF	10/30/24 13:25
Total/NA	Analysis	9012B		25	730602	AM	EET BUF	10/30/24 21:20

Client Sample ID: SD-MW-BCP-05A-10212024

Lab Sample ID: 480-224610-4
Date Collected: 10/21/24 10:45
Matrix: Solid
Date Received: 10/21/24 14:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
ASTM Leach	Leach	D3987-85			730900	AM	EET BUF	10/31/24 17:09 - 11/01/24 11:09 [1]
ASTM Leach	Analysis	350.1		25.71	730935	AM	EET BUF	11/02/24 11:12
Total/NA	Analysis	9045D		1	729999	CG	EET BUF	10/25/24 13:00
Total/NA	Analysis	Moisture		1	729295	VXF	EET BUF	10/22/24 12:09

Client Sample ID: SD-MW-BCP-05A-10212024

Lab Sample ID: 480-224610-4
Date Collected: 10/21/24 10:45
Matrix: Solid
Date Received: 10/21/24 14:18
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			729636	ESB	EET BUF	10/25/24 09:07
Total/NA	Analysis	7471B		10	729877	ESB	EET BUF	10/25/24 15:34
Total/NA	Prep	9012B			730503	AM	EET BUF	10/30/24 13:25
Total/NA	Analysis	9012B		1	730602	AM	EET BUF	10/30/24 20:11

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
350.1		Solid	Ammonia
9045D		Solid	Temperature
Moisture		Solid	Percent Solids

Method Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Method	Method Description	Protocol	Laboratory
7471B	Mercury (CVAA)	SW846	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET BUF
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
9045D	pH	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET BUF
D3987-85	ASTM Leaching Procedure	ASTM	EET BUF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224610-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224610-1	SD-TM-10212024	Solid	10/21/24 08:30	10/21/24 14:18
480-224610-2	SD-MW-BCP-10A-10212024	Solid	10/21/24 09:00	10/21/24 14:18
480-224610-3	SD-MW05AREA-10212024	Solid	10/21/24 10:10	10/21/24 14:18
480-224610-4	SD-MW-BCP-05A-10212024	Solid	10/21/24 10:45	10/21/24 14:18

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information
Client Contact: Mr. Austin Oare
Company: Inventum Engineering LLC
Address: 441 Carlisle Drive Suite C
City: Herndon
State, Zip: VA, 20170
Phone: 518-844-5745(Tel)
Email: austin.oare@inventumeng.com
Project Name: Ammonia SCO
Site: 3875 River Rd.
John.Black@Inventumeng.Com
Peter.Zaffram@Inventumeng-Com

Sampler: Austin Oare / Corey Bryerton
Phone: (518) 844-5745
PWSID:
Due Date Requested:
TAT Requested (days): Standard
Compliance Project: Δ Yes Δ No
PO #: Purchase Order not required
WO #:
Project #: 48028091
SSOW#:

Lab PM: Fischer, Brian J
E-Mail: Brian.Fischer@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin: NY

COC No: 480-199914-41224.9
Page: Page ~~Not~~ 1 of 1
Job #:

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
N - None
D - HNO3
S - H2SO4

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Ammonia	Total Mercury	Total Cyanide	pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	B	N	D		
SD-TM-10212024	10/21/24	8:30	G	Solid			X	X	X	X	2	
SD-MW-BCP-10A-10212024	10/21/24	9:00	G	Solid			X	X	X	X	2	
SD-MWOSAREA-10212024	10/21/24	10:10	G	Solid			X	X	X	X	2	
SD-MW-BCP-OSA-10212024	10/21/24	10:45	G	Solid			X	X	X	X	2	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

480-224610 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Austin Oare	10/21/2024	Inventum	Received by:	10-21-24 1418	
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.1 21.4 IR#5 Ice

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 480-224610-1

Login Number: 224610
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

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	21.4 IR#SC ice
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.	N/A	
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	Inventum Engineering
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Austin Oare
Inventum Engineering LLC
441 Carlisle Drive
Suite C
Herndon, Virginia 20170

Generated 11/1/2024 11:34:03 AM

JOB DESCRIPTION

Ammonia SCO

JOB NUMBER

480-224726-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

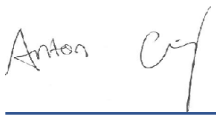
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Anton Gruning, Project Management Assistant I
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Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

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Definitions/Glossary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery 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.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job Narrative
480-224726-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/23/2024 1:38 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 time was 3.8°C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-729816 recovered outside acceptance criteria, low biased, for Chloroform. 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 laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-729816 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane and Bromoform. 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 sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: MW-BCP-05A-10222024 (480-224726-4), (480-224726-F-4 MS) and (480-224726-F-4 MSD).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-BCP-05A-10222024 (480-224726-4), (480-224726-F-4 MS) and (480-224726-F-4 MSD). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-BCP-05A-10222024 (480-224726-4). The reporting limits (RLs) have been adjusted proportionately.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: MW-BCP-04A-10222024 (480-224726-2) and MW-BCP-05A-10222024 (480-224726-4). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-729894 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. 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 8270D: The continuing calibration verification (CCV) associated with batch 480-729894 recovered above the upper control limit for bis (2-chloroisopropyl) ether, 2-Nitroaniline, 4-Nitrophenol, Bis(2-ethylhexyl) phthalate and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-BCP-04A-10222024 (480-224726-2), MW-BCP-05A-10222024 (480-224726-4) and MW-BCP-06A-10232024 (480-224726-7).

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Atrazine. The laboratory control sample (LCS) associated with preparation batch 480-729657 and analytical batch 480-730061 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

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

Job ID: 480-224726-1 (Continued) Eurofins Buffalo

Metals
Method 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples(s): MW-BCP-05A-10222024 (480-224726-4). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample(s) was prepared and analyzed at a 30x dilution, which maintained the purple color during digestion.

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

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

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Client Sample ID: MW-BCP-01B-10222024 — Lab Sample ID: 480-224726-1

No Detections.

Client Sample ID: MW-BCP-04A-10222024 — Lab Sample ID: 480-224726-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.2		1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	0.21	J	1.0	0.19	ug/L	1		8260C	Total/NA
2,4-Dimethylphenol	6.1	J	25	2.5	ug/L	5		8270D	Total/NA
2-Methylphenol	14	J	25	2.0	ug/L	5		8270D	Total/NA
4-Methylphenol	32	J	50	1.8	ug/L	5		8270D	Total/NA
Phenol	23	J	25	2.0	ug/L	5		8270D	Total/NA
Mercury	0.00013	J	0.00020	0.000042	mg/L	1		7470A	Total/NA
Ammonia	4.3	B	0.10	0.045	mg/L	5		350.1	Total/NA
Cyanide, Total	0.24		0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-04B-10222024 — Lab Sample ID: 480-224726-3

No Detections.

Client Sample ID: MW-BCP-05A-10222024 — Lab Sample ID: 480-224726-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1900		50	21	ug/L	50		8260C	Total/NA
Ethylbenzene	98		50	37	ug/L	50		8260C	Total/NA
Toluene	35	J	50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	160		100	33	ug/L	50		8260C	Total/NA
2,4-Dimethylphenol	23	J	130	13	ug/L	5		8270D	Total/NA
2-Methylphenol	34	J	130	10	ug/L	5		8270D	Total/NA
4-Methylphenol	27	J	250	9.0	ug/L	5		8270D	Total/NA
Acenaphthene	14	J	130	10	ug/L	5		8270D	Total/NA
Fluoranthene	15	J	130	10	ug/L	5		8270D	Total/NA
Naphthalene	290		130	19	ug/L	5		8270D	Total/NA
Phenanthrene	13	J	130	11	ug/L	5		8270D	Total/NA
Phenol	15	J	130	9.8	ug/L	5		8270D	Total/NA
Pyrene	15	J	130	8.5	ug/L	5		8270D	Total/NA
Mercury	0.0035	J	0.0060	0.0013	mg/L	1		7470A	Total/NA
Ammonia	166		1.8	0.81	mg/L	90		350.1	Total/NA
Cyanide, Total	6.7		0.20	0.082	mg/L	20		9012B	Total/NA

Client Sample ID: MW-BCP-05C-10222024 — Lab Sample ID: 480-224726-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.47		0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: BATTERYSUMP-10232024 — Lab Sample ID: 480-224726-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	31.8	B	0.40	0.18	mg/L	20		350.1	Total/NA

Client Sample ID: MW-BCP-06A-10232024 — Lab Sample ID: 480-224726-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	1.5		0.10	0.045	mg/L	5		350.1	Total/NA
Cyanide, Total	0.072		0.010	0.0041	mg/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Client Sample ID: MW-BCP-06C-10232024 — Lab Sample ID: 480-224726-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.43		0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: MW-BCP-08A-10232024 — Lab Sample ID: 480-224726-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	1.0		0.10	0.045	mg/L	5		350.1	Total/NA

Client Sample ID: MW-BCP-08B-10232024 — Lab Sample ID: 480-224726-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.17		0.020	0.0090	mg/L	1		350.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-BCP-01B-10222024

Lab Sample ID: 480-224726-1

Date Collected: 10/22/24 13:18

Matrix: Water

Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/30/24 21:53	1

Client Sample ID: MW-BCP-04A-10222024

Lab Sample ID: 480-224726-2

Date Collected: 10/22/24 13:32

Matrix: Water

Date Received: 10/23/24 13:38

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/25/24 18:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/25/24 18:08	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/25/24 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/25/24 18:08	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/25/24 18:08	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/25/24 18:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/25/24 18:08	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			10/25/24 18:08	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/25/24 18:08	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/25/24 18:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/25/24 18:08	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/25/24 18:08	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/25/24 18:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/25/24 18:08	1
2-Hexanone	ND		5.0	1.2	ug/L			10/25/24 18:08	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/25/24 18:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/25/24 18:08	1
Acetone	**3.0**	**J**	10	3.0	ug/L			10/25/24 18:08	1
Benzene	**1.2**		1.0	0.41	ug/L			10/25/24 18:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/25/24 18:08	1
Bromoform	ND	*+	1.0	0.26	ug/L			10/25/24 18:08	1
Bromomethane	ND		1.0	0.69	ug/L			10/25/24 18:08	1
Carbon disulfide	**0.21**	**J**	1.0	0.19	ug/L			10/25/24 18:08	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/25/24 18:08	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/25/24 18:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/25/24 18:08	1
Chloroethane	ND		1.0	0.32	ug/L			10/25/24 18:08	1
Chloroform	ND		1.0	0.34	ug/L			10/25/24 18:08	1
Chloromethane	ND		1.0	0.35	ug/L			10/25/24 18:08	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/25/24 18:08	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/25/24 18:08	1
Cyclohexane	ND		1.0	0.18	ug/L			10/25/24 18:08	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/25/24 18:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/25/24 18:08	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/25/24 18:08	1
Methyl acetate	ND		2.5	1.3	ug/L			10/25/24 18:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/25/24 18:08	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/25/24 18:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/25/24 18:08	1
Styrene	ND		1.0	0.73	ug/L			10/25/24 18:08	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/25/24 18:08	1
Toluene	ND		1.0	0.51	ug/L			10/25/24 18:08	1

Client Sample ID: MW-BCP-04A-10222024
Date Collected: 10/22/24 13:32
Date Received: 10/23/24 13:38

Lab Sample ID: 480-224726-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/25/24 18:08	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/25/24 18:08	1
Trichloroethene	ND		1.0	0.46	ug/L			10/25/24 18:08	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/25/24 18:08	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/25/24 18:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/25/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*10/25/24 18:08*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/25/24 18:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*10/25/24 18:08*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*10/25/24 18:08*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		25	3.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,4-Dimethylphenol	**6.1**	**J**	25	2.5	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,4-Dinitrophenol	ND		50	11	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		10/24/24 14:02	10/26/24 15:18	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
2-Chloronaphthalene	ND		25	2.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
2-Chlorophenol	ND		25	2.7	ug/L		10/24/24 14:02	10/26/24 15:18	5
2-Methylnaphthalene	ND		25	3.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
2-Methylphenol	**14**	**J**	25	2.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
2-Nitroaniline	ND		50	2.1	ug/L		10/24/24 14:02	10/26/24 15:18	5
2-Nitrophenol	ND		25	2.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
3-Nitroaniline	ND		50	2.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Chloroaniline	ND		25	3.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Methylphenol	**32**	**J**	50	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Nitroaniline	ND		50	1.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
4-Nitrophenol	ND		50	7.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
Acenaphthene	ND		25	2.1	ug/L		10/24/24 14:02	10/26/24 15:18	5
Acenaphthylene	ND		25	1.9	ug/L		10/24/24 14:02	10/26/24 15:18	5
Acetophenone	ND		25	2.7	ug/L		10/24/24 14:02	10/26/24 15:18	5
Anthracene	ND		25	1.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
Atrazine	ND		25	2.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
Benzaldehyde	ND		25	1.3	ug/L		10/24/24 14:02	10/26/24 15:18	5
Benzo(a)anthracene	ND		25	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
Benzo(a)pyrene	ND		25	2.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		10/24/24 14:02	10/26/24 15:18	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5

Client Sample ID: MW-BCP-04A-10222024
Date Collected: 10/22/24 13:32
Date Received: 10/23/24 13:38

Lab Sample ID: 480-224726-2
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(k)fluoranthene	ND		25	3.7	ug/L		10/24/24 14:02	10/26/24 15:18	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		10/24/24 14:02	10/26/24 15:18	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
Caprolactam	ND		25	11	ug/L		10/24/24 14:02	10/26/24 15:18	5
Carbazole	ND		25	1.5	ug/L		10/24/24 14:02	10/26/24 15:18	5
Chrysene	ND		25	1.7	ug/L		10/24/24 14:02	10/26/24 15:18	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		10/24/24 14:02	10/26/24 15:18	5
Dibenzofuran	ND		50	2.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
Diethyl phthalate	ND		25	1.1	ug/L		10/24/24 14:02	10/26/24 15:18	5
Dimethyl phthalate	ND		25	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
Fluoranthene	ND		25	2.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
Fluorene	ND		25	1.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
Hexachlorobenzene	ND		25	2.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
Hexachlorobutadiene	ND		25	3.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
Hexachloroethane	ND		25	3.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
Indeno(1,2,3-cd)pyrene	ND		25	2.4	ug/L		10/24/24 14:02	10/26/24 15:18	5
Isophorone	ND		25	2.2	ug/L		10/24/24 14:02	10/26/24 15:18	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		10/24/24 14:02	10/26/24 15:18	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		10/24/24 14:02	10/26/24 15:18	5
Naphthalene	ND		25	3.8	ug/L		10/24/24 14:02	10/26/24 15:18	5
Nitrobenzene	ND		25	1.5	ug/L		10/24/24 14:02	10/26/24 15:18	5
Pentachlorophenol	ND		50	11	ug/L		10/24/24 14:02	10/26/24 15:18	5
Phenanthrene	ND		25	2.2	ug/L		10/24/24 14:02	10/26/24 15:18	5
Phenol	**23**	**J**	25	2.0	ug/L		10/24/24 14:02	10/26/24 15:18	5
Pyrene	ND		25	1.7	ug/L		10/24/24 14:02	10/26/24 15:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*25 - 144*	*10/24/24 14:02*	*10/26/24 15:18*	*5*
2-Fluorobiphenyl	*80*		*53 - 126*	*10/24/24 14:02*	*10/26/24 15:18*	*5*
2-Fluorophenol	*69*		*24 - 120*	*10/24/24 14:02*	*10/26/24 15:18*	*5*
Nitrobenzene-d5	*88*		*29 - 129*	*10/24/24 14:02*	*10/26/24 15:18*	*5*
p-Terphenyl-d14	*61*		*33 - 132*	*10/24/24 14:02*	*10/26/24 15:18*	*5*
Phenol-d5	*53*		*10 - 120*	*10/24/24 14:02*	*10/26/24 15:18*	*5*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00013**	**J**	0.00020	0.000042	mg/L		10/25/24 15:08	10/26/24 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**4.3**	**B**	0.10	0.045	mg/L			10/30/24 23:33	5
Cyanide, Total (SW846 9012B)	**0.24**		0.010	0.0041	mg/L			10/28/24 10:00	1

Client Sample ID: MW-BCP-04B-10222024

Lab Sample ID: 480-224726-3

Date Collected: 10/22/24 13:40

Matrix: Water

Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/30/24 21:55	1

Client Sample ID: MW-BCP-05A-10222024

Lab Sample ID: 480-224726-4

Date Collected: 10/22/24 12:05

Matrix: Water

Date Received: 10/23/24 13:38

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			10/25/24 18:31	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			10/25/24 18:31	50
1,1,2-Trichloroethane	ND		50	12	ug/L			10/25/24 18:31	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			10/25/24 18:31	50
1,1-Dichloroethane	ND		50	19	ug/L			10/25/24 18:31	50
1,1-Dichloroethene	ND		50	15	ug/L			10/25/24 18:31	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			10/25/24 18:31	50
1,2-Dibromo-3-Chloropropane	ND	*+	50	20	ug/L			10/25/24 18:31	50
1,2-Dibromoethane	ND		50	37	ug/L			10/25/24 18:31	50
1,2-Dichlorobenzene	ND		50	40	ug/L			10/25/24 18:31	50
1,2-Dichloroethane	ND		50	11	ug/L			10/25/24 18:31	50
1,2-Dichloropropane	ND		50	36	ug/L			10/25/24 18:31	50
1,3-Dichlorobenzene	ND		50	39	ug/L			10/25/24 18:31	50
1,4-Dichlorobenzene	ND		50	42	ug/L			10/25/24 18:31	50
2-Hexanone	ND		250	62	ug/L			10/25/24 18:31	50
2-Butanone (MEK)	ND		500	66	ug/L			10/25/24 18:31	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			10/25/24 18:31	50
Acetone	ND		500	150	ug/L			10/25/24 18:31	50
Benzene	**1900**		50	21	ug/L			10/25/24 18:31	50
Bromodichloromethane	ND		50	20	ug/L			10/25/24 18:31	50
Bromoform	ND	*+ F1	50	13	ug/L			10/25/24 18:31	50
Bromomethane	ND		50	35	ug/L			10/25/24 18:31	50
Carbon disulfide	ND		50	9.5	ug/L			10/25/24 18:31	50
Carbon tetrachloride	ND		50	14	ug/L			10/25/24 18:31	50
Chlorobenzene	ND		50	38	ug/L			10/25/24 18:31	50
Dibromochloromethane	ND		50	16	ug/L			10/25/24 18:31	50
Chloroethane	ND		50	16	ug/L			10/25/24 18:31	50
Chloroform	ND		50	17	ug/L			10/25/24 18:31	50
Chloromethane	ND		50	18	ug/L			10/25/24 18:31	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			10/25/24 18:31	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			10/25/24 18:31	50
Cyclohexane	ND		50	9.0	ug/L			10/25/24 18:31	50
Dichlorodifluoromethane	ND		50	34	ug/L			10/25/24 18:31	50
Ethylbenzene	**98**		50	37	ug/L			10/25/24 18:31	50
Isopropylbenzene	ND		50	40	ug/L			10/25/24 18:31	50
Methyl acetate	ND		130	65	ug/L			10/25/24 18:31	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			10/25/24 18:31	50
Methylcyclohexane	ND		50	8.0	ug/L			10/25/24 18:31	50
Methylene Chloride	ND		50	22	ug/L			10/25/24 18:31	50
Styrene	ND		50	37	ug/L			10/25/24 18:31	50
Tetrachloroethene	ND		50	18	ug/L			10/25/24 18:31	50
Toluene	**35**	**J**	50	26	ug/L			10/25/24 18:31	50

Client Sample ID: MW-BCP-05A-10222024
Date Collected: 10/22/24 12:05
Date Received: 10/23/24 13:38

Lab Sample ID: 480-224726-4
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		50	45	ug/L			10/25/24 18:31	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			10/25/24 18:31	50
Trichloroethene	ND		50	23	ug/L			10/25/24 18:31	50
Trichlorofluoromethane	ND		50	44	ug/L			10/25/24 18:31	50
Vinyl chloride	ND		50	45	ug/L			10/25/24 18:31	50
Xylenes, Total	**160**		100	33	ug/L			10/25/24 18:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*10/25/24 18:31*	*50*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/25/24 18:31*	*50*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*10/25/24 18:31*	*50*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*10/25/24 18:31*	*50*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		130	16	ug/L		10/24/24 14:02	10/26/24 15:46	5
bis (2-chloroisopropyl) ether	ND		130	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,4,5-Trichlorophenol	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,4,6-Trichlorophenol	ND		130	15	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,4-Dichlorophenol	ND		130	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,4-Dimethylphenol	**23**	**J**	130	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,4-Dinitrophenol	ND		250	56	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,4-Dinitrotoluene	ND		130	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
2,6-Dinitrotoluene	ND		130	10	ug/L		10/24/24 14:02	10/26/24 15:46	5
2-Chloronaphthalene	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
2-Chlorophenol	ND		130	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
2-Methylnaphthalene	ND		130	15	ug/L		10/24/24 14:02	10/26/24 15:46	5
2-Methylphenol	**34**	**J**	130	10	ug/L		10/24/24 14:02	10/26/24 15:46	5
2-Nitroaniline	ND		250	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
2-Nitrophenol	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
3,3'-Dichlorobenzidine	ND		130	10	ug/L		10/24/24 14:02	10/26/24 15:46	5
3-Nitroaniline	ND		250	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
4,6-Dinitro-2-methylphenol	ND		250	55	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Bromophenyl phenyl ether	ND		130	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Chloro-3-methylphenol	ND		130	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Chloroaniline	ND		130	15	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Chlorophenyl phenyl ether	ND		130	8.8	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Methylphenol	**27**	**J**	250	9.0	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Nitroaniline	ND		250	6.3	ug/L		10/24/24 14:02	10/26/24 15:46	5
4-Nitrophenol	ND		250	38	ug/L		10/24/24 14:02	10/26/24 15:46	5
Acenaphthene	**14**	**J**	130	10	ug/L		10/24/24 14:02	10/26/24 15:46	5
Acenaphthylene	ND		130	9.5	ug/L		10/24/24 14:02	10/26/24 15:46	5
Acetophenone	ND		130	14	ug/L		10/24/24 14:02	10/26/24 15:46	5
Anthracene	ND		130	7.0	ug/L		10/24/24 14:02	10/26/24 15:46	5
Atrazine	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
Benzaldehyde	ND		130	6.7	ug/L		10/24/24 14:02	10/26/24 15:46	5
Benzo(a)anthracene	ND		130	9.0	ug/L		10/24/24 14:02	10/26/24 15:46	5
Benzo(a)pyrene	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
Benzo(b)fluoranthene	ND		130	8.5	ug/L		10/24/24 14:02	10/26/24 15:46	5
Benzo(g,h,i)perylene	ND		130	8.8	ug/L		10/24/24 14:02	10/26/24 15:46	5

Client Sample ID: MW-BCP-05A-10222024
Date Collected: 10/22/24 12:05
Date Received: 10/23/24 13:38

Lab Sample ID: 480-224726-4
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(k)fluoranthene	ND		130	18	ug/L		10/24/24 14:02	10/26/24 15:46	5
Bis(2-chloroethoxy)methane	ND		130	8.8	ug/L		10/24/24 14:02	10/26/24 15:46	5
Bis(2-chloroethyl)ether	ND		130	10	ug/L		10/24/24 14:02	10/26/24 15:46	5
Bis(2-ethylhexyl) phthalate	ND		130	55	ug/L		10/24/24 14:02	10/26/24 15:46	5
Butyl benzyl phthalate	ND		130	25	ug/L		10/24/24 14:02	10/26/24 15:46	5
Caprolactam	ND		130	55	ug/L		10/24/24 14:02	10/26/24 15:46	5
Carbazole	ND		130	7.5	ug/L		10/24/24 14:02	10/26/24 15:46	5
Chrysene	ND		130	8.3	ug/L		10/24/24 14:02	10/26/24 15:46	5
Di-n-butyl phthalate	ND		130	7.8	ug/L		10/24/24 14:02	10/26/24 15:46	5
Di-n-octyl phthalate	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
Dibenz(a,h)anthracene	ND		130	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
Dibenzofuran	ND		250	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
Diethyl phthalate	ND		130	5.5	ug/L		10/24/24 14:02	10/26/24 15:46	5
Dimethyl phthalate	ND		130	9.0	ug/L		10/24/24 14:02	10/26/24 15:46	5
Fluoranthene	**15**	**J**	130	10	ug/L		10/24/24 14:02	10/26/24 15:46	5
Fluorene	ND		130	9.0	ug/L		10/24/24 14:02	10/26/24 15:46	5
Hexachlorobenzene	ND		130	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
Hexachlorobutadiene	ND		130	17	ug/L		10/24/24 14:02	10/26/24 15:46	5
Hexachlorocyclopentadiene	ND		130	15	ug/L		10/24/24 14:02	10/26/24 15:46	5
Hexachloroethane	ND		130	15	ug/L		10/24/24 14:02	10/26/24 15:46	5
Indeno(1,2,3-cd)pyrene	ND		130	12	ug/L		10/24/24 14:02	10/26/24 15:46	5
Isophorone	ND		130	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
N-Nitrosodi-n-propylamine	ND		130	14	ug/L		10/24/24 14:02	10/26/24 15:46	5
N-Nitrosodiphenylamine	ND		130	13	ug/L		10/24/24 14:02	10/26/24 15:46	5
Naphthalene	**290**		130	19	ug/L		10/24/24 14:02	10/26/24 15:46	5
Nitrobenzene	ND		130	7.3	ug/L		10/24/24 14:02	10/26/24 15:46	5
Pentachlorophenol	ND		250	55	ug/L		10/24/24 14:02	10/26/24 15:46	5
Phenanthrene	**13**	**J**	130	11	ug/L		10/24/24 14:02	10/26/24 15:46	5
Phenol	**15**	**J**	130	9.8	ug/L		10/24/24 14:02	10/26/24 15:46	5
Pyrene	**15**	**J**	130	8.5	ug/L		10/24/24 14:02	10/26/24 15:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*25 - 144*	*10/24/24 14:02*	*10/26/24 15:46*	*5*
2-Fluorobiphenyl	*78*		*53 - 126*	*10/24/24 14:02*	*10/26/24 15:46*	*5*
2-Fluorophenol	*60*		*24 - 120*	*10/24/24 14:02*	*10/26/24 15:46*	*5*
Nitrobenzene-d5	*94*		*29 - 129*	*10/24/24 14:02*	*10/26/24 15:46*	*5*
p-Terphenyl-d14	*77*		*33 - 132*	*10/24/24 14:02*	*10/26/24 15:46*	*5*
Phenol-d5	*48*		*10 - 120*	*10/24/24 14:02*	*10/26/24 15:46*	*5*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0035**	**J**	0.0060	0.0013	mg/L		10/25/24 15:08	10/26/24 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**166**		1.8	0.81	mg/L			10/30/24 14:53	90
Cyanide, Total (SW846 9012B)	**6.7**		0.20	0.082	mg/L			10/29/24 13:09	20

Client Sample ID: MW-BCP-05C-10222024

Lab Sample ID: 480-224726-5

Date Collected: 10/22/24 14:25
Matrix: Water
Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.47		0.020	0.0090	mg/L			10/30/24 22:01	1

Client Sample ID: BATTERYSUMP-10232024

Lab Sample ID: 480-224726-6

Date Collected: 10/23/24 09:40
Matrix: Water
Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	31.8	B	0.40	0.18	mg/L			10/30/24 12:27	20

Client Sample ID: MW-BCP-06A-10232024

Lab Sample ID: 480-224726-7

Date Collected: 10/23/24 10:15
Matrix: Water
Date Received: 10/23/24 13:38

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/25/24 18:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/25/24 18:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/25/24 18:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/25/24 18:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/25/24 18:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/25/24 18:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/25/24 18:54	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			10/25/24 18:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/25/24 18:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/25/24 18:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/25/24 18:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/25/24 18:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/25/24 18:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/25/24 18:54	1
2-Hexanone	ND		5.0	1.2	ug/L			10/25/24 18:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/25/24 18:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/25/24 18:54	1
Acetone	ND		10	3.0	ug/L			10/25/24 18:54	1
Benzene	ND		1.0	0.41	ug/L			10/25/24 18:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/25/24 18:54	1
Bromoform	ND	*+	1.0	0.26	ug/L			10/25/24 18:54	1
Bromomethane	ND		1.0	0.69	ug/L			10/25/24 18:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/25/24 18:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/25/24 18:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/25/24 18:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/25/24 18:54	1
Chloroethane	ND		1.0	0.32	ug/L			10/25/24 18:54	1
Chloroform	ND		1.0	0.34	ug/L			10/25/24 18:54	1
Chloromethane	ND		1.0	0.35	ug/L			10/25/24 18:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/25/24 18:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/25/24 18:54	1
Cyclohexane	ND		1.0	0.18	ug/L			10/25/24 18:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/25/24 18:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/25/24 18:54	1

Client Sample ID: MW-BCP-06A-10232024
Date Collected: 10/23/24 10:15
Date Received: 10/23/24 13:38

Lab Sample ID: 480-224726-7
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.79	ug/L			10/25/24 18:54	1
Methyl acetate	ND		2.5	1.3	ug/L			10/25/24 18:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/25/24 18:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/25/24 18:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/25/24 18:54	1
Styrene	ND		1.0	0.73	ug/L			10/25/24 18:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/25/24 18:54	1
Toluene	ND		1.0	0.51	ug/L			10/25/24 18:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/25/24 18:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/25/24 18:54	1
Trichloroethene	ND		1.0	0.46	ug/L			10/25/24 18:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/25/24 18:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/25/24 18:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/25/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*10/25/24 18:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/25/24 18:54*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*10/25/24 18:54*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*10/25/24 18:54*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		10/24/24 14:02	10/26/24 16:13	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/24/24 14:02	10/26/24 16:13	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 16:13	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/24/24 14:02	10/26/24 16:13	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/24/24 14:02	10/26/24 16:13	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		10/24/24 14:02	10/26/24 16:13	1
2-Methylphenol	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 16:13	1
2-Nitroaniline	ND		10	0.42	ug/L		10/24/24 14:02	10/26/24 16:13	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/24/24 14:02	10/26/24 16:13	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 16:13	1
3-Nitroaniline	ND		10	0.48	ug/L		10/24/24 14:02	10/26/24 16:13	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Methylphenol	ND		10	0.36	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Nitroaniline	ND		10	0.25	ug/L		10/24/24 14:02	10/26/24 16:13	1
4-Nitrophenol	ND		10	1.5	ug/L		10/24/24 14:02	10/26/24 16:13	1
Acenaphthene	ND		5.0	0.41	ug/L		10/24/24 14:02	10/26/24 16:13	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/24/24 14:02	10/26/24 16:13	1

Client Sample ID: MW-BCP-06A-10232024
Date Collected: 10/23/24 10:15
Date Received: 10/23/24 13:38

Lab Sample ID: 480-224726-7
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		5.0	0.54	ug/L		10/24/24 14:02	10/26/24 16:13	1
Anthracene	ND		5.0	0.28	ug/L		10/24/24 14:02	10/26/24 16:13	1
Atrazine	ND		5.0	0.46	ug/L		10/24/24 14:02	10/26/24 16:13	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/24/24 14:02	10/26/24 16:13	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		10/24/24 14:02	10/26/24 16:13	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		10/24/24 14:02	10/26/24 16:13	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		10/24/24 14:02	10/26/24 16:13	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		10/24/24 14:02	10/26/24 16:13	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/24/24 14:02	10/26/24 16:13	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/24/24 14:02	10/26/24 16:13	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 16:13	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/24/24 14:02	10/26/24 16:13	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/24/24 14:02	10/26/24 16:13	1
Caprolactam	ND		5.0	2.2	ug/L		10/24/24 14:02	10/26/24 16:13	1
Carbazole	ND		5.0	0.30	ug/L		10/24/24 14:02	10/26/24 16:13	1
Chrysene	ND		5.0	0.33	ug/L		10/24/24 14:02	10/26/24 16:13	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/24/24 14:02	10/26/24 16:13	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/24/24 14:02	10/26/24 16:13	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/24/24 14:02	10/26/24 16:13	1
Dibenzofuran	ND		10	0.51	ug/L		10/24/24 14:02	10/26/24 16:13	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/24/24 14:02	10/26/24 16:13	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/24/24 14:02	10/26/24 16:13	1
Fluoranthene	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 16:13	1
Fluorene	ND		5.0	0.36	ug/L		10/24/24 14:02	10/26/24 16:13	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/24/24 14:02	10/26/24 16:13	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/24/24 14:02	10/26/24 16:13	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/24/24 14:02	10/26/24 16:13	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/24/24 14:02	10/26/24 16:13	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		10/24/24 14:02	10/26/24 16:13	1
Isophorone	ND		5.0	0.43	ug/L		10/24/24 14:02	10/26/24 16:13	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/24/24 14:02	10/26/24 16:13	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/24/24 14:02	10/26/24 16:13	1
Naphthalene	ND		5.0	0.76	ug/L		10/24/24 14:02	10/26/24 16:13	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/24/24 14:02	10/26/24 16:13	1
Pentachlorophenol	ND		10	2.2	ug/L		10/24/24 14:02	10/26/24 16:13	1
Phenanthrene	ND		5.0	0.44	ug/L		10/24/24 14:02	10/26/24 16:13	1
Phenol	ND		5.0	0.39	ug/L		10/24/24 14:02	10/26/24 16:13	1
Pyrene	ND		5.0	0.34	ug/L		10/24/24 14:02	10/26/24 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*25 - 144*	*10/24/24 14:02*	*10/26/24 16:13*	*1*
2-Fluorobiphenyl	*86*		*53 - 126*	*10/24/24 14:02*	*10/26/24 16:13*	*1*
2-Fluorophenol	*69*		*24 - 120*	*10/24/24 14:02*	*10/26/24 16:13*	*1*
Nitrobenzene-d5	*92*		*29 - 129*	*10/24/24 14:02*	*10/26/24 16:13*	*1*
p-Terphenyl-d14	*62*		*33 - 132*	*10/24/24 14:02*	*10/26/24 16:13*	*1*
Phenol-d5	*53*		*10 - 120*	*10/24/24 14:02*	*10/26/24 16:13*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		10/25/24 15:08	10/26/24 11:48	1

Client Sample ID: MW-BCP-06A-10232024

Lab Sample ID: 480-224726-7

Date Collected: 10/23/24 10:15
Matrix: Water
Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	1.5		0.10	0.045	mg/L			10/29/24 22:35	5
Cyanide, Total (SW846 9012B)	0.072		0.010	0.0041	mg/L			10/28/24 10:07	1

Client Sample ID: MW-BCP-06C-10232024

Lab Sample ID: 480-224726-8

Date Collected: 10/23/24 10:20
Matrix: Water
Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.43		0.020	0.0090	mg/L			10/30/24 22:02	1

Client Sample ID: MW-BCP-08A-10232024

Lab Sample ID: 480-224726-9

Date Collected: 10/23/24 10:50
Matrix: Water
Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	1.0		0.10	0.045	mg/L			10/29/24 22:35	5

Client Sample ID: MW-BCP-08B-10232024

Lab Sample ID: 480-224726-10

Date Collected: 10/23/24 11:05
Matrix: Water
Date Received: 10/23/24 13:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.17		0.020	0.0090	mg/L			10/30/24 22:03	1

Surrogate Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-224726-2	MW-BCP-04A-10222024	98	99	99	101
480-224726-4	MW-BCP-05A-10222024	95	102	101	94
480-224726-4 MS	MW-BCP-05A-10222024	96	100	98	98
480-224726-4 MSD	MW-BCP-05A-10222024	96	98	96	97
480-224726-7	MW-BCP-06A-10232024	94	99	101	95
LCS 480-729816/5	Lab Control Sample	99	98	97	100
MB 480-729816/7	Method Blank	103	99	98	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(33-132)	(10-120)
480-224726-2	MW-BCP-04A-10222024	73	80	69	88	61	53
480-224726-4	MW-BCP-05A-10222024	90	78	60	94	77	48
480-224726-7	MW-BCP-06A-10232024	83	86	69	92	62	53
LCS 480-729657/2-A	Lab Control Sample	92	79	63	76	85	51
MB 480-729657/1-A	Method Blank	63	70	58	82	82	45

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

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

Lab Sample ID: MB 480-729816/7
Matrix: Water
Analysis Batch: 729816

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	ND		1.0	0.82	ug/L			10/25/24 15:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/25/24 15:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/25/24 15:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/25/24 15:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/25/24 15:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/25/24 15:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/25/24 15:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/25/24 15:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/25/24 15:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/25/24 15:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/25/24 15:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/25/24 15:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/25/24 15:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/25/24 15:30	1
2-Hexanone	ND		5.0	1.2	ug/L			10/25/24 15:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/25/24 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/25/24 15:30	1
Acetone	ND		10	3.0	ug/L			10/25/24 15:30	1
Benzene	ND		1.0	0.41	ug/L			10/25/24 15:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/25/24 15:30	1
Bromoform	ND		1.0	0.26	ug/L			10/25/24 15:30	1
Bromomethane	ND		1.0	0.69	ug/L			10/25/24 15:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/25/24 15:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/25/24 15:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/25/24 15:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/25/24 15:30	1
Chloroethane	ND		1.0	0.32	ug/L			10/25/24 15:30	1
Chloroform	ND		1.0	0.34	ug/L			10/25/24 15:30	1
Chloromethane	ND		1.0	0.35	ug/L			10/25/24 15:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/25/24 15:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/25/24 15:30	1
Cyclohexane	ND		1.0	0.18	ug/L			10/25/24 15:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/25/24 15:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/25/24 15:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/25/24 15:30	1
Methyl acetate	ND		2.5	1.3	ug/L			10/25/24 15:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/25/24 15:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/25/24 15:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/25/24 15:30	1
Styrene	ND		1.0	0.73	ug/L			10/25/24 15:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/25/24 15:30	1
Toluene	ND		1.0	0.51	ug/L			10/25/24 15:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/25/24 15:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/25/24 15:30	1
Trichloroethene	ND		1.0	0.46	ug/L			10/25/24 15:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/25/24 15:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/25/24 15:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/25/24 15:30	1

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

Lab Sample ID: MB 480-729816/7
Matrix: Water
Analysis Batch: 729816

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/25/24 15:30	1
Toluene-d8 (Surr)	99		80 - 120		10/25/24 15:30	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/25/24 15:30	1
Dibromofluoromethane (Surr)	102		75 - 123		10/25/24 15:30	1

Lab Sample ID: LCS 480-729816/5
Matrix: Water
Analysis Batch: 729816

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	25.8		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	25.0	27.8		ug/L		111	76 - 120
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.1		ug/L		97	61 - 148
1,1-Dichloroethane	25.0	25.4		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	24.6		ug/L		99	66 - 127
1,2,4-Trichlorobenzene	25.0	26.8		ug/L		107	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	34.1	*+	ug/L		136	56 - 134
1,2-Dibromoethane	25.0	28.4		ug/L		114	77 - 120
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	80 - 124
1,2-Dichloroethane	25.0	26.2		ug/L		105	75 - 120
1,2-Dichloropropane	25.0	26.1		ug/L		104	76 - 120
1,3-Dichlorobenzene	25.0	26.9		ug/L		107	77 - 120
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	80 - 120
2-Hexanone	125	143		ug/L		115	65 - 127
2-Butanone (MEK)	125	144		ug/L		115	57 - 140
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		109	71 - 125
Acetone	125	130		ug/L		104	56 - 142
Benzene	25.0	25.5		ug/L		102	71 - 124
Bromodichloromethane	25.0	28.3		ug/L		113	80 - 122
Bromoform	25.0	33.5	*+	ug/L		134	61 - 132
Bromomethane	25.0	24.0		ug/L		96	55 - 144
Carbon disulfide	25.0	24.3		ug/L		97	59 - 134
Carbon tetrachloride	25.0	27.8		ug/L		111	72 - 134
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120
Dibromochloromethane	25.0	30.1		ug/L		120	75 - 125
Chloroethane	25.0	27.7		ug/L		111	69 - 136
Chloroform	25.0	24.0		ug/L		96	73 - 127
Chloromethane	25.0	24.7		ug/L		99	68 - 124
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	74 - 124
cis-1,3-Dichloropropene	25.0	29.2		ug/L		117	74 - 124
Cyclohexane	25.0	24.1		ug/L		96	59 - 135
Dichlorodifluoromethane	25.0	22.0		ug/L		88	59 - 135
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
Isopropylbenzene	25.0	26.8		ug/L		107	77 - 122
Methyl acetate	50.0	55.6		ug/L		111	74 - 133
Methyl tert-butyl ether	25.0	26.2		ug/L		105	77 - 120
Methylcyclohexane	25.0	24.8		ug/L		99	68 - 134

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

Lab Sample ID: LCS 480-729816/5
Matrix: Water
Analysis Batch: 729816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	25.0	27.0		ug/L		108	75 - 124
Styrene	25.0	26.4		ug/L		105	80 - 120
Tetrachloroethene	25.0	25.3		ug/L		101	74 - 122
Toluene	25.0	25.2		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	28.1		ug/L		112	80 - 120
Trichloroethene	25.0	26.7		ug/L		107	74 - 123
Trichlorofluoromethane	25.0	25.6		ug/L		102	62 - 150
Vinyl chloride	25.0	27.1		ug/L		109	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Lab Sample ID: 480-224726-4 MS
Matrix: Water
Analysis Batch: 729816

Client Sample ID: MW-BCP-05A-10222024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		1250	1340		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	ND		1250	1340		ug/L		108	76 - 120
1,1,2-Trichloroethane	ND		1250	1270		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1250	1290		ug/L		103	61 - 148
1,1-Dichloroethane	ND		1250	1260		ug/L		101	77 - 120
1,1-Dichloroethene	ND		1250	1260		ug/L		101	66 - 127
1,2,4-Trichlorobenzene	ND		1250	1270		ug/L		101	79 - 122
1,2-Dibromo-3-Chloropropane	ND	*+	1250	1580		ug/L		127	56 - 134
1,2-Dibromoethane	ND		1250	1420		ug/L		113	77 - 120
1,2-Dichlorobenzene	ND		1250	1310		ug/L		105	80 - 124
1,2-Dichloroethane	ND		1250	1220		ug/L		97	75 - 120
1,2-Dichloropropane	ND		1250	1280		ug/L		102	76 - 120
1,3-Dichlorobenzene	ND		1250	1300		ug/L		104	77 - 120
1,4-Dichlorobenzene	ND		1250	1270		ug/L		101	78 - 124
2-Hexanone	ND		6250	6650		ug/L		106	65 - 127
2-Butanone (MEK)	ND		6250	5860		ug/L		94	57 - 140
4-Methyl-2-pentanone (MIBK)	ND		6250	6350		ug/L		102	71 - 125
Acetone	ND		6250	4700		ug/L		75	56 - 142
Benzene	1900		1250	3120		ug/L		101	71 - 124
Bromodichloromethane	ND		1250	1430		ug/L		114	80 - 122
Bromoform	ND	*+ F1	1250	1660	F1	ug/L		133	61 - 132
Bromomethane	ND		1250	1330		ug/L		106	55 - 144
Carbon disulfide	ND		1250	1240		ug/L		99	59 - 134
Carbon tetrachloride	ND		1250	1450		ug/L		116	72 - 134
Chlorobenzene	ND		1250	1290		ug/L		103	80 - 120
Dibromochloromethane	ND		1250	1530		ug/L		122	75 - 125
Chloroethane	ND		1250	1220		ug/L		98	69 - 136

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

Lab Sample ID: 480-224726-4 MS
Matrix: Water
Analysis Batch: 729816

Client Sample ID: MW-BCP-05A-10222024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	ND		1250	1180		ug/L		95	73 - 127
Chloromethane	ND		1250	1290		ug/L		104	68 - 124
cis-1,2-Dichloroethene	ND		1250	1280		ug/L		102	74 - 124
cis-1,3-Dichloropropene	ND		1250	1390		ug/L		111	74 - 124
Cyclohexane	ND		1250	1250		ug/L		100	59 - 135
Dichlorodifluoromethane	ND		1250	1180		ug/L		95	59 - 135
Ethylbenzene	98		1250	1360		ug/L		101	77 - 123
Isopropylbenzene	ND		1250	1330		ug/L		106	77 - 122
Methyl acetate	ND		2500	2210		ug/L		88	74 - 133
Methyl tert-butyl ether	ND		1250	1190		ug/L		96	77 - 120
Methylcyclohexane	ND		1250	1230		ug/L		99	68 - 134
Methylene Chloride	ND		1250	1330		ug/L		106	75 - 124
Styrene	ND		1250	1310		ug/L		105	80 - 120
Tetrachloroethene	ND		1250	1240		ug/L		100	74 - 122
Toluene	35	J	1250	1290		ug/L		101	80 - 122
trans-1,2-Dichloroethene	ND		1250	1270		ug/L		102	73 - 127
trans-1,3-Dichloropropene	ND		1250	1370		ug/L		109	80 - 120
Trichloroethene	ND		1250	1290		ug/L		104	74 - 123
Trichlorofluoromethane	ND		1250	1340		ug/L		107	62 - 150
Vinyl chloride	ND		1250	1470		ug/L		118	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Lab Sample ID: 480-224726-4 MSD
Matrix: Water
Analysis Batch: 729816

Client Sample ID: MW-BCP-05A-10222024
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	ND		1250	1300		ug/L		104	73 - 126	3	15
1,1,2,2-Tetrachloroethane	ND		1250	1360		ug/L		109	76 - 120	1	15
1,1,2-Trichloroethane	ND		1250	1250		ug/L		100	76 - 122	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1250	1220		ug/L		98	61 - 148	5	20
1,1-Dichloroethane	ND		1250	1230		ug/L		98	77 - 120	3	20
1,1-Dichloroethene	ND		1250	1230		ug/L		98	66 - 127	2	16
1,2,4-Trichlorobenzene	ND		1250	1240		ug/L		99	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	ND	*+	1250	1520		ug/L		122	56 - 134	4	15
1,2-Dibromoethane	ND		1250	1440		ug/L		115	77 - 120	1	15
1,2-Dichlorobenzene	ND		1250	1290		ug/L		103	80 - 124	1	20
1,2-Dichloroethane	ND		1250	1150		ug/L		92	75 - 120	6	20
1,2-Dichloropropane	ND		1250	1250		ug/L		100	76 - 120	2	20
1,3-Dichlorobenzene	ND		1250	1310		ug/L		105	77 - 120	1	20
1,4-Dichlorobenzene	ND		1250	1250		ug/L		100	78 - 124	1	20
2-Hexanone	ND		6250	6580		ug/L		105	65 - 127	1	15
2-Butanone (MEK)	ND		6250	5650		ug/L		90	57 - 140	4	20

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

Lab Sample ID: 480-224726-4 MSD
Matrix: Water
Analysis Batch: 729816

Client Sample ID: MW-BCP-05A-10222024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	ND		6250	6320		ug/L		101	71 - 125	0	35
Acetone	ND		6250	4720		ug/L		75	56 - 142	0	15
Benzene	1900		1250	2950		ug/L		88	71 - 124	6	13
Bromodichloromethane	ND		1250	1360		ug/L		109	80 - 122	5	15
Bromoform	ND	*+ F1	1250	1650		ug/L		132	61 - 132	1	15
Bromomethane	ND		1250	1270		ug/L		101	55 - 144	5	15
Carbon disulfide	ND		1250	1200		ug/L		96	59 - 134	3	15
Carbon tetrachloride	ND		1250	1410		ug/L		113	72 - 134	2	15
Chlorobenzene	ND		1250	1250		ug/L		100	80 - 120	4	25
Dibromochloromethane	ND		1250	1540		ug/L		123	75 - 125	1	15
Chloroethane	ND		1250	1200		ug/L		96	69 - 136	2	15
Chloroform	ND		1250	1150		ug/L		92	73 - 127	3	20
Chloromethane	ND		1250	1260		ug/L		101	68 - 124	2	15
cis-1,2-Dichloroethene	ND		1250	1230		ug/L		98	74 - 124	4	15
cis-1,3-Dichloropropene	ND		1250	1390		ug/L		111	74 - 124	0	15
Cyclohexane	ND		1250	1200		ug/L		96	59 - 135	4	20
Dichlorodifluoromethane	ND		1250	1150		ug/L		92	59 - 135	3	20
Ethylbenzene	98		1250	1320		ug/L		98	77 - 123	3	15
Isopropylbenzene	ND		1250	1330		ug/L		107	77 - 122	0	20
Methyl acetate	ND		2500	2200		ug/L		88	74 - 133	0	20
Methyl tert-butyl ether	ND		1250	1190		ug/L		95	77 - 120	0	37
Methylcyclohexane	ND		1250	1220		ug/L		97	68 - 134	1	20
Methylene Chloride	ND		1250	1320		ug/L		106	75 - 124	0	15
Styrene	ND		1250	1270		ug/L		102	80 - 120	3	20
Tetrachloroethene	ND		1250	1240		ug/L		99	74 - 122	1	20
Toluene	35	J	1250	1260		ug/L		98	80 - 122	2	15
trans-1,2-Dichloroethene	ND		1250	1220		ug/L		97	73 - 127	4	20
trans-1,3-Dichloropropene	ND		1250	1340		ug/L		107	80 - 120	2	15
Trichloroethene	ND		1250	1260		ug/L		100	74 - 123	3	16
Trichlorofluoromethane	ND		1250	1290		ug/L		103	62 - 150	4	20
Vinyl chloride	ND		1250	1460		ug/L		116	65 - 133	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-729657/1-A
Matrix: Water
Analysis Batch: 729894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		10/24/24 14:02	10/26/24 11:40	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/24/24 14:02	10/26/24 11:40	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/24/24 14:02	10/26/24 11:40	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/24/24 14:02	10/26/24 11:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-729657/1-A
Matrix: Water
Analysis Batch: 729894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/24/24 14:02	10/26/24 11:40	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/24/24 14:02	10/26/24 11:40	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/24/24 14:02	10/26/24 11:40	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/24/24 14:02	10/26/24 11:40	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 11:40	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/24/24 14:02	10/26/24 11:40	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/24/24 14:02	10/26/24 11:40	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		10/24/24 14:02	10/26/24 11:40	1
2-Methylphenol	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 11:40	1
2-Nitroaniline	ND		10	0.42	ug/L		10/24/24 14:02	10/26/24 11:40	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/24/24 14:02	10/26/24 11:40	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 11:40	1
3-Nitroaniline	ND		10	0.48	ug/L		10/24/24 14:02	10/26/24 11:40	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Methylphenol	ND		10	0.36	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Nitroaniline	ND		10	0.25	ug/L		10/24/24 14:02	10/26/24 11:40	1
4-Nitrophenol	ND		10	1.5	ug/L		10/24/24 14:02	10/26/24 11:40	1
Acenaphthene	ND		5.0	0.41	ug/L		10/24/24 14:02	10/26/24 11:40	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/24/24 14:02	10/26/24 11:40	1
Acetophenone	ND		5.0	0.54	ug/L		10/24/24 14:02	10/26/24 11:40	1
Anthracene	ND		5.0	0.28	ug/L		10/24/24 14:02	10/26/24 11:40	1
Atrazine	ND		5.0	0.46	ug/L		10/24/24 14:02	10/26/24 11:40	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/24/24 14:02	10/26/24 11:40	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		10/24/24 14:02	10/26/24 11:40	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		10/24/24 14:02	10/26/24 11:40	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		10/24/24 14:02	10/26/24 11:40	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		10/24/24 14:02	10/26/24 11:40	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/24/24 14:02	10/26/24 11:40	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/24/24 14:02	10/26/24 11:40	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 11:40	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/24/24 14:02	10/26/24 11:40	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/24/24 14:02	10/26/24 11:40	1
Caprolactam	ND		5.0	2.2	ug/L		10/24/24 14:02	10/26/24 11:40	1
Carbazole	ND		5.0	0.30	ug/L		10/24/24 14:02	10/26/24 11:40	1
Chrysene	ND		5.0	0.33	ug/L		10/24/24 14:02	10/26/24 11:40	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/24/24 14:02	10/26/24 11:40	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/24/24 14:02	10/26/24 11:40	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/24/24 14:02	10/26/24 11:40	1
Dibenzofuran	ND		10	0.51	ug/L		10/24/24 14:02	10/26/24 11:40	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/24/24 14:02	10/26/24 11:40	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/24/24 14:02	10/26/24 11:40	1
Fluoranthene	ND		5.0	0.40	ug/L		10/24/24 14:02	10/26/24 11:40	1
Fluorene	ND		5.0	0.36	ug/L		10/24/24 14:02	10/26/24 11:40	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/24/24 14:02	10/26/24 11:40	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/24/24 14:02	10/26/24 11:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-729657/1-A
Matrix: Water
Analysis Batch: 729894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/24/24 14:02	10/26/24 11:40	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/24/24 14:02	10/26/24 11:40	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		10/24/24 14:02	10/26/24 11:40	1
Isophorone	ND		5.0	0.43	ug/L		10/24/24 14:02	10/26/24 11:40	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/24/24 14:02	10/26/24 11:40	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/24/24 14:02	10/26/24 11:40	1
Naphthalene	ND		5.0	0.76	ug/L		10/24/24 14:02	10/26/24 11:40	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/24/24 14:02	10/26/24 11:40	1
Pentachlorophenol	ND		10	2.2	ug/L		10/24/24 14:02	10/26/24 11:40	1
Phenanthrene	ND		5.0	0.44	ug/L		10/24/24 14:02	10/26/24 11:40	1
Phenol	ND		5.0	0.39	ug/L		10/24/24 14:02	10/26/24 11:40	1
Pyrene	ND		5.0	0.34	ug/L		10/24/24 14:02	10/26/24 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*63*		*25 - 144*	*10/24/24 14:02*	*10/26/24 11:40*	*1*
2-Fluorobiphenyl	*70*		*53 - 126*	*10/24/24 14:02*	*10/26/24 11:40*	*1*
2-Fluorophenol	*58*		*24 - 120*	*10/24/24 14:02*	*10/26/24 11:40*	*1*
Nitrobenzene-d5	*82*		*29 - 129*	*10/24/24 14:02*	*10/26/24 11:40*	*1*
p-Terphenyl-d14	*82*		*33 - 132*	*10/24/24 14:02*	*10/26/24 11:40*	*1*
Phenol-d5	*45*		*10 - 120*	*10/24/24 14:02*	*10/26/24 11:40*	*1*

Lab Sample ID: LCS 480-729657/2-A
Matrix: Water
Analysis Batch: 730061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	32.0	25.3		ug/L		79	59 - 120
bis (2-chloroisopropyl) ether	32.0	25.8		ug/L		81	21 - 136
2,4,5-Trichlorophenol	32.0	29.6		ug/L		92	65 - 126
2,4,6-Trichlorophenol	32.0	24.6		ug/L		77	64 - 120
2,4-Dichlorophenol	32.0	25.5		ug/L		80	63 - 120
2,4-Dimethylphenol	32.0	26.0		ug/L		81	47 - 120
2,4-Dinitrophenol	64.0	70.0		ug/L		109	31 - 137
2,4-Dinitrotoluene	32.0	30.2		ug/L		94	69 - 120
2,6-Dinitrotoluene	32.0	29.0		ug/L		91	68 - 120
2-Chloronaphthalene	32.0	25.1		ug/L		78	58 - 120
2-Chlorophenol	32.0	25.1		ug/L		78	48 - 120
2-Methylnaphthalene	32.0	24.3		ug/L		76	59 - 120
2-Methylphenol	32.0	24.8		ug/L		78	39 - 120
2-Nitroaniline	32.0	27.5		ug/L		86	54 - 127
2-Nitrophenol	32.0	27.0		ug/L		84	52 - 125
3,3'-Dichlorobenzidine	32.0	20.1		ug/L		63	49 - 135
3-Nitroaniline	32.0	17.7		ug/L		55	51 - 120
4,6-Dinitro-2-methylphenol	64.0	71.1		ug/L		111	46 - 136
4-Bromophenyl phenyl ether	32.0	27.5		ug/L		86	65 - 120
4-Chloro-3-methylphenol	32.0	27.7		ug/L		87	61 - 123
4-Chloroaniline	32.0	11.6		ug/L		36	30 - 120
4-Chlorophenyl phenyl ether	32.0	26.9		ug/L		84	62 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-729657/2-A
Matrix: Water
Analysis Batch: 730061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methylphenol	32.0	24.5		ug/L		77	29 - 131
4-Nitroaniline	32.0	26.0		ug/L		81	65 - 120
4-Nitrophenol	64.0	49.3		ug/L		77	45 - 120
Acenaphthene	32.0	26.6		ug/L		83	60 - 120
Acenaphthylene	32.0	27.7		ug/L		87	63 - 120
Acetophenone	32.0	27.2		ug/L		85	45 - 120
Anthracene	32.0	29.0		ug/L		91	67 - 120
Atrazine	64.0	68.3	E	ug/L		107	71 - 130
Benzaldehyde	64.0	57.4		ug/L		90	10 - 140
Benzo(a)anthracene	32.0	29.5		ug/L		92	70 - 121
Benzo(a)pyrene	32.0	29.2		ug/L		91	60 - 123
Benzo(b)fluoranthene	32.0	29.0		ug/L		91	66 - 126
Benzo(g,h,i)perylene	32.0	29.8		ug/L		93	66 - 150
Benzo(k)fluoranthene	32.0	29.0		ug/L		91	65 - 124
Bis(2-chloroethoxy)methane	32.0	26.5		ug/L		83	50 - 128
Bis(2-chloroethyl)ether	32.0	32.1		ug/L		100	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	30.1		ug/L		94	63 - 139
Butyl benzyl phthalate	32.0	30.2		ug/L		95	70 - 129
Caprolactam	64.0	22.8		ug/L		36	22 - 120
Carbazole	32.0	29.7		ug/L		93	66 - 123
Chrysene	32.0	29.8		ug/L		93	69 - 120
Di-n-butyl phthalate	32.0	30.3		ug/L		95	69 - 131
Di-n-octyl phthalate	32.0	29.8		ug/L		93	63 - 140
Dibenz(a,h)anthracene	32.0	29.0		ug/L		91	65 - 135
Dibenzofuran	32.0	26.7		ug/L		83	66 - 120
Diethyl phthalate	32.0	30.0		ug/L		94	59 - 127
Dimethyl phthalate	32.0	28.8		ug/L		90	68 - 120
Fluoranthene	32.0	30.4		ug/L		95	69 - 126
Fluorene	32.0	28.1		ug/L		88	66 - 120
Hexachlorobenzene	32.0	27.1		ug/L		85	61 - 120
Hexachlorobutadiene	32.0	18.7		ug/L		58	35 - 120
Hexachlorocyclopentadiene	32.0	15.8		ug/L		49	31 - 120
Hexachloroethane	32.0	20.5		ug/L		64	33 - 120
Indeno(1,2,3-cd)pyrene	32.0	29.0		ug/L		91	69 - 146
Isophorone	32.0	26.9		ug/L		84	55 - 120
N-Nitrosodi-n-propylamine	32.0	26.4		ug/L		82	32 - 140
N-Nitrosodiphenylamine	32.0	28.1		ug/L		88	61 - 120
Naphthalene	32.0	24.5		ug/L		76	57 - 120
Nitrobenzene	32.0	25.9		ug/L		81	53 - 123
Pentachlorophenol	64.0	65.5		ug/L		102	10 - 136
Phenanthrene	32.0	28.4		ug/L		89	68 - 120
Phenol	32.0	17.3		ug/L		54	17 - 120
Pyrene	32.0	30.8		ug/L		96	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*92*		*25 - 144*
2-Fluorobiphenyl	*79*		*53 - 126*
2-Fluorophenol	*63*		*24 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-729657/2-A
Matrix: Water
Analysis Batch: 730061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729657

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*76*		*29 - 129*
p-Terphenyl-d14	*85*		*33 - 132*
Phenol-d5	*51*		*10 - 120*

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-729836/1-A
Matrix: Water
Analysis Batch: 729938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		10/25/24 15:08	10/26/24 11:11	1

Lab Sample ID: LCS 480-729836/2-A
Matrix: Water
Analysis Batch: 729938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00674		mg/L		101	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-730523/128
Matrix: Water
Analysis Batch: 730523

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0180	J	0.020	0.0090	mg/L			10/30/24 12:16	1

Lab Sample ID: MB 480-730523/162
Matrix: Water
Analysis Batch: 730523

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/30/24 13:16	1

Lab Sample ID: MB 480-730523/92
Matrix: Water
Analysis Batch: 730523

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/29/24 21:56	1

Lab Sample ID: LCS 480-730523/129
Matrix: Water
Analysis Batch: 730523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.932		mg/L		93	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-730523/163
Matrix: Water
Analysis Batch: 730523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.936		mg/L		94	90 - 110

Lab Sample ID: LCS 480-730523/93
Matrix: Water
Analysis Batch: 730523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.936		mg/L		94	90 - 110

Lab Sample ID: 480-224726-6 MS
Matrix: Water
Analysis Batch: 730523

Client Sample ID: BATTERYSUMP-10232024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	31.8	B	1.60	31.92	4	mg/L		10	90 - 110

Lab Sample ID: MB 480-730650/100
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0150	J	0.020	0.0090	mg/L			10/30/24 23:30	1

Lab Sample ID: MB 480-730650/24
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/30/24 21:57	1

Lab Sample ID: MB 480-730650/5
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/30/24 21:40	1

Lab Sample ID: LCS 480-730650/101
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.968		mg/L		97	90 - 110

Lab Sample ID: LCS 480-730650/25
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.945		mg/L		95	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-730650/6
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.972		mg/L		97	90 - 110

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-730180/21
Matrix: Water
Analysis Batch: 730180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			10/28/24 09:11	1

Lab Sample ID: MB 480-730180/73
Matrix: Water
Analysis Batch: 730180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			10/28/24 12:04	1

Lab Sample ID: HLCS 480-730180/22
Matrix: Water
Analysis Batch: 730180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.389		mg/L		97	90 - 110

Lab Sample ID: LCS 480-730180/23
Matrix: Water
Analysis Batch: 730180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.252		mg/L		101	90 - 110

Lab Sample ID: LCS 480-730180/74
Matrix: Water
Analysis Batch: 730180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.259		mg/L		104	90 - 110

Lab Sample ID: MB 480-730337/103
Matrix: Water
Analysis Batch: 730337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			10/29/24 12:53	1

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: HLCS 480-730337/22
Matrix: Water
Analysis Batch: 730337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.408		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-730337/104
Matrix: Water
Analysis Batch: 730337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.246		mg/L		98	90 - 110		

QC Association Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

GC/MS VOA

Analysis Batch: 729816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	8260C	
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	8260C	
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	8260C	
MB 480-729816/7	Method Blank	Total/NA	Water	8260C	
LCS 480-729816/5	Lab Control Sample	Total/NA	Water	8260C	
480-224726-4 MS	MW-BCP-05A-10222024	Total/NA	Water	8260C	
480-224726-4 MSD	MW-BCP-05A-10222024	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 729657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	3510C	
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	3510C	
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	3510C	
MB 480-729657/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-729657/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 729894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	8270D	729657
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	8270D	729657
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	8270D	729657
MB 480-729657/1-A	Method Blank	Total/NA	Water	8270D	729657

Analysis Batch: 730061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-729657/2-A	Lab Control Sample	Total/NA	Water	8270D	729657

Metals

Prep Batch: 729836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	7470A	
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	7470A	
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	7470A	
MB 480-729836/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-729836/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 729938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	7470A	729836
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	7470A	729836
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	7470A	729836
MB 480-729836/1-A	Method Blank	Total/NA	Water	7470A	729836
LCS 480-729836/2-A	Lab Control Sample	Total/NA	Water	7470A	729836

General Chemistry

Analysis Batch: 730180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	9012B	

General Chemistry (Continued)

Analysis Batch: 730180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	9012B	
MB 480-730180/21	Method Blank	Total/NA	Water	9012B	
MB 480-730180/73	Method Blank	Total/NA	Water	9012B	
HLCS 480-730180/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730180/23	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730180/74	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 730337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	9012B	
MB 480-730337/103	Method Blank	Total/NA	Water	9012B	
HLCS 480-730337/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730337/104	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 730523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-4	MW-BCP-05A-10222024	Total/NA	Water	350.1	
480-224726-6	BATTERYSUMP-10232024	Total/NA	Water	350.1	
480-224726-7	MW-BCP-06A-10232024	Total/NA	Water	350.1	
480-224726-9	MW-BCP-08A-10232024	Total/NA	Water	350.1	
MB 480-730523/128	Method Blank	Total/NA	Water	350.1	
MB 480-730523/162	Method Blank	Total/NA	Water	350.1	
MB 480-730523/92	Method Blank	Total/NA	Water	350.1	
LCS 480-730523/129	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730523/163	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730523/93	Lab Control Sample	Total/NA	Water	350.1	
480-224726-6 MS	BATTERYSUMP-10232024	Total/NA	Water	350.1	

Analysis Batch: 730650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224726-1	MW-BCP-01B-10222024	Total/NA	Water	350.1	
480-224726-2	MW-BCP-04A-10222024	Total/NA	Water	350.1	
480-224726-3	MW-BCP-04B-10222024	Total/NA	Water	350.1	
480-224726-5	MW-BCP-05C-10222024	Total/NA	Water	350.1	
480-224726-8	MW-BCP-06C-10232024	Total/NA	Water	350.1	
480-224726-10	MW-BCP-08B-10232024	Total/NA	Water	350.1	
MB 480-730650/100	Method Blank	Total/NA	Water	350.1	
MB 480-730650/24	Method Blank	Total/NA	Water	350.1	
MB 480-730650/5	Method Blank	Total/NA	Water	350.1	
LCS 480-730650/101	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730650/25	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730650/6	Lab Control Sample	Total/NA	Water	350.1	

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Client Sample ID: MW-BCP-01B-10222024
Lab Sample ID: 480-224726-1
Date Collected: 10/22/24 13:18
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 21:53

Client Sample ID: MW-BCP-04A-10222024
Lab Sample ID: 480-224726-2
Date Collected: 10/22/24 13:32
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	729816	AXK	EET BUF	10/25/24 18:08
Total/NA	Prep	3510C			729657	LSC	EET BUF	10/24/24 14:02
Total/NA	Analysis	8270D		5	729894	JMM	EET BUF	10/26/24 15:18
Total/NA	Prep	7470A			729836	ESB	EET BUF	10/25/24 15:08
Total/NA	Analysis	7470A		1	729938	ESB	EET BUF	10/26/24 11:14
Total/NA	Analysis	350.1		5	730650	AM	EET BUF	10/30/24 23:33
Total/NA	Analysis	9012B		1	730180	CLT	EET BUF	10/28/24 10:00

Client Sample ID: MW-BCP-04B-10222024
Lab Sample ID: 480-224726-3
Date Collected: 10/22/24 13:40
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 21:55

Client Sample ID: MW-BCP-05A-10222024
Lab Sample ID: 480-224726-4
Date Collected: 10/22/24 12:05
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		50	729816	AXK	EET BUF	10/25/24 18:31
Total/NA	Prep	3510C			729657	LSC	EET BUF	10/24/24 14:02
Total/NA	Analysis	8270D		5	729894	JMM	EET BUF	10/26/24 15:46
Total/NA	Prep	7470A			729836	ESB	EET BUF	10/25/24 15:08
Total/NA	Analysis	7470A		1	729938	ESB	EET BUF	10/26/24 11:15
Total/NA	Analysis	350.1		90	730523	AM	EET BUF	10/30/24 14:53
Total/NA	Analysis	9012B		20	730337	CLT	EET BUF	10/29/24 13:09

Client Sample ID: MW-BCP-05C-10222024
Lab Sample ID: 480-224726-5
Date Collected: 10/22/24 14:25
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 22:01

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Client Sample ID: BATTERYSUMP-10232024
Lab Sample ID: 480-224726-6
Date Collected: 10/23/24 09:40
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		20	730523	AM	EET BUF	10/30/24 12:27

Client Sample ID: MW-BCP-06A-10232024
Lab Sample ID: 480-224726-7
Date Collected: 10/23/24 10:15
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	729816	AXK	EET BUF	10/25/24 18:54
Total/NA	Prep	3510C			729657	LSC	EET BUF	10/24/24 14:02
Total/NA	Analysis	8270D		1	729894	JMM	EET BUF	10/26/24 16:13
Total/NA	Prep	7470A			729836	ESB	EET BUF	10/25/24 15:08
Total/NA	Analysis	7470A		1	729938	ESB	EET BUF	10/26/24 11:48
Total/NA	Analysis	350.1		5	730523	AM	EET BUF	10/29/24 22:35
Total/NA	Analysis	9012B		1	730180	CLT	EET BUF	10/28/24 10:07

Client Sample ID: MW-BCP-06C-10232024
Lab Sample ID: 480-224726-8
Date Collected: 10/23/24 10:20
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 22:02

Client Sample ID: MW-BCP-08A-10232024
Lab Sample ID: 480-224726-9
Date Collected: 10/23/24 10:50
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		5	730523	AM	EET BUF	10/29/24 22:35

Client Sample ID: MW-BCP-08B-10232024
Lab Sample ID: 480-224726-10
Date Collected: 10/23/24 11:05
Matrix: Water
Date Received: 10/23/24 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 22:03

Laboratory References:

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

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

Method Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

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: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224726-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224726-1	MW-BCP-01B-10222024	Water	10/22/24 13:18	10/23/24 13:38
480-224726-2	MW-BCP-04A-10222024	Water	10/22/24 13:32	10/23/24 13:38
480-224726-3	MW-BCP-04B-10222024	Water	10/22/24 13:40	10/23/24 13:38
480-224726-4	MW-BCP-05A-10222024	Water	10/22/24 12:05	10/23/24 13:38
480-224726-5	MW-BCP-05C-10222024	Water	10/22/24 14:25	10/23/24 13:38
480-224726-6	BATTERYSUMP-10232024	Water	10/23/24 09:40	10/23/24 13:38
480-224726-7	MW-BCP-06A-10232024	Water	10/23/24 10:15	10/23/24 13:38
480-224726-8	MW-BCP-06C-10232024	Water	10/23/24 10:20	10/23/24 13:38
480-224726-9	MW-BCP-08A-10232024	Water	10/23/24 10:50	10/23/24 13:38
480-224726-10	MW-BCP-08B-10232024	Water	10/23/24 11:05	10/23/24 13:38

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Austin Oare / Corey Bryerton	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-199914-41224.1
Client Contact: Mr. Austin Oare	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: NY	Page: Page ~~1 of 10~~
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): Standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: austin.oare@inventumeng.com	WO #:			
Project Name: Ammonia SCO	Project #: 48028091			
Site: 3875 River Rd.	SSOW#:			

John.Black@Inventumeng.com
Peter.Zaffram@Inventumeng.com

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~8260C - (MOD) TCL 1st OLM04.2~~ Ammonia	~~9012B_NP - Local Method~~ VOCs	~~8270D - (MOD) TCL SVOA OLM04.2~~ SVOCs	~~7470A - Local Method~~ Total Cyanide	~~350.1 - (MOD) Local Method~~ Total Mercury	~~360.1 - (MOD) Local Method~~	~~7471B, 9045D, Moisture~~	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	B	N	D	S	N	N		
MW-BCP-01B-10222024	10/22/24	1:18	G	Water			X							1	
MW-BCP-04A-10222024	10/22/24	1:32	G	Water			X	X	X	X	X			8	
MW-BCP-04B-10222024	10/22/24	1:40	G	Water			X							1	
MW-BCP-05A-10222024	10/22/24	12:05	G	Water			X	X	X	X	X			8	
MW-BCP-05C-10222024	10/22/24	2:25	G	Water			X							1	
BATTERYSUMP-10232024	10/23/24	9:40	G	Water			X							1	
MW-BCP-06A-10232024	10/23/24	10:15	G	Water			X	X	X	X	X			8	
MW-BCP-06C-10232024	10/23/24	10:20	G	Water			X							1	
MW-BCP-08A-10232024	10/23/24	10:30	G	Water			X							1	
MW-BCP-08B-10232024	10/23/24	11:05	G	Water			X							1	
				Water											

Preservation Codes:
A - HCL
B - NaOH
N - None
D - HNO3
S - H2SO4
Other:

480-224726 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if sample
☐ Return To Client ☐ Disposal By Lab

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Austin Oare	10/23/2024		[illegible]	10-23-24 1338	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time: [illegible]	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.8 ~~7.0~~ IR#5C ICE

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 480-224726-1

Login Number: 224726
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

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	3.8 ICE IR# SC
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.	False	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Austin Oare
Inventum Engineering LLC
441 Carlisle Drive
Suite C
Herndon VA 20170

Generated 11/04/2024

JOB DESCRIPTION

Ammonia SCO

JOB NUMBER

480-224869-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

Eurofins Buffalo

Job Notes

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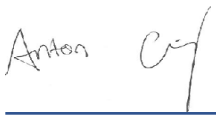
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
11/04/2024

Authorized for release by
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Job Narrative
480-224869-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/25/2024 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.7°C and 4.4°C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10) and MW-BCP-19A-10252024 (480-224869-19). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-BCP-10A-10242024 (480-224869-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-730696 recovered outside acceptance criteria, low biased, for Carbon Disulfide. 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. The following associated sample is impacted: MW-BCP-10A-10242024 (480-224869-3).

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-BCP-13B-10252024 (480-224869-10).

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

GC/MS Semi VOA
Method 8270D: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-BCP-10A-10242024 (480-224869-3). The reporting limits (RLs) have been adjusted proportionately.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9) and MW-BCP-13B-10252024 (480-224869-10). Elevated reporting limits (RL) are provided.

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-730138 and analytical batch 480-730212 recovered outside control limits for the following analytes: 4-Nitrophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following associated samples are impacted: MW-BCP-09A-10252024 (480-224869-1), MW-BCP-10A-10242024 (480-224869-3), MW-BCP-11A-10242024 (480-224869-5), MW-BCP-12A-10242024 (480-224869-7), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-BCP-24A-10252024 (480-224869-11), MW-BCP-25A-10252024 (480-224869-12), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-21A-10252024 (480-224869-18).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-730212 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. 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. The following associated samples are impacted: MW-BCP-09A-10252024 (480-224869-1), MW-BCP-10A-10242024 (480-224869-3), MW-BCP-11A-10242024 (480-224869-5), MW-BCP-12A-10242024 (480-224869-7), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-

BCP-24A-10252024 (480-224869-11), MW-BCP-25A-10252024 (480-224869-12), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-21A-10252024 (480-224869-18).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-730212 recovered above the upper control limit for bis (2-chloroisopropyl) ether, 2-Nitroaniline and 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-BCP-09A-10252024 (480-224869-1), MW-BCP-10A-10242024 (480-224869-3), MW-BCP-11A-10242024 (480-224869-5), MW-BCP-12A-10242024 (480-224869-7), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-BCP-24A-10252024 (480-224869-11), MW-BCP-25A-10252024 (480-224869-12), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-21A-10252024 (480-224869-18).

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Atrazine. The laboratory control sample (LCS) associated with preparation batch 480-730138 and analytical batch 480-730212 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

Method 8270D: Surrogate recovery for the following sample was outside control limits: MW-BCP-10A-10242024 (480-224869-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-19A-10252024 (480-224869-19). Elevated reporting limits (RLs) are provided.

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-730138 and analytical batch 480-730403 recovered outside control limits for the following analytes: 4-Nitrophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following associated samples are impacted: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-19A-10252024 (480-224869-19).

Method 8270D: The following samples were diluted due to the abundance of target analytes: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10) and MW-BCP-19A-10252024 (480-224869-19). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-730403 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. 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. The following associated samples are impacted: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-19A-10252024 (480-224869-19).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-730403 recovered above the upper control limit for bis (2-chloroisopropyl) ether, 4-Nitrophenol, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9), MW-BCP-13B-10252024 (480-224869-10), MW-BCP-19B-10252024 (480-224869-13) and MW-BCP-19A-10252024 (480-224869-19).

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

Metals

Method 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples(s): MW-BCP-10A-10242024 (480-224869-3), MW-BCP-13A-10252024 (480-224869-9) and MW-BCP-24B-10252024 (480-224869-17). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample(s) was prepared and analyzed at a 3x dilution, which maintained the purple color during digestion.

Method 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples(s): MW-BCP-11A-10242024 (480-224869-5), MW-BCP-13B-10252024

(480-224869-10), MW-BCP-24A-10252024 (480-224869-11), MW-BCP-19B-10252024 (480-224869-13), MW-BCP-25B-10252024 (480-224869-15) and MW-BCP-19A-10252024 (480-224869-19). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample(s) was prepared and analyzed at a 2x dilution, which maintained the purple color during digestion.

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

General Chemistry
Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-730651 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Sample Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224869-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224869-1	MW-BCP-09A-10252024	Water	10/25/24 16:30	10/25/24 16:30
480-224869-2	MW-BCP-09B-10242024	Water	10/24/24 02:25	10/25/24 16:30
480-224869-3	MW-BCP-10A-10242024	Water	10/24/24 10:40	10/25/24 16:30
480-224869-4	MW-BCP-10C-10242024	Water	10/24/24 10:55	10/25/24 16:30
480-224869-5	MW-BCP-11A-10242024	Water	10/24/24 11:35	10/25/24 16:30
480-224869-6	MW-BCP-11B-10242024	Water	10/24/24 01:00	10/25/24 16:30
480-224869-7	MW-BCP-12A-10242024	Water	10/24/24 03:15	10/25/24 16:30
480-224869-8	MW-BCP-12B-10242024	Water	10/24/24 03:10	10/25/24 16:30
480-224869-9	MW-BCP-13A-10252024	Water	10/25/24 08:50	10/25/24 16:30
480-224869-10	MW-BCP-13B-10252024	Water	10/25/24 09:10	10/25/24 16:30
480-224869-11	MW-BCP-24A-10252024	Water	10/25/24 09:35	10/25/24 16:30
480-224869-12	MW-BCP-25A-10252024	Water	10/25/24 02:05	10/25/24 16:30
480-224869-13	MW-BCP-19B-10252024	Water	10/25/24 09:55	10/25/24 16:30
480-224869-14	MW-BCP-22A-10252024	Water	10/25/24 11:30	10/25/24 16:30
480-224869-15	MW-BCP-25B-10252024	Water	10/25/24 02:15	10/25/24 16:30
480-224869-16	MW-BCP-23A-10252024	Water	10/25/24 11:45	10/25/24 16:30
480-224869-17	MW-BCP-24B-10252024	Water	10/25/24 01:20	10/25/24 16:30
480-224869-18	MW-BCP-21A-10252024	Water	10/25/24 11:00	10/25/24 16:30
480-224869-19	MW-BCP-19A-10252024	Water	10/25/24 09:40	10/25/24 16:30
480-224869-20	MW-BCP-20A-10252024	Water	10/25/24 10:20	10/25/24 16:30
480-224869-21	MW-BCP-20B-10252024	Water	10/25/24 10:35	10/25/24 16:30
480-224869-22	MW-BCP-17A-10242024	Water	10/24/24 03:00	10/25/24 16:30
480-224869-23	MW-BCP-21C-10252024	Water	10/25/24 11:20	10/25/24 16:30
480-224869-24	MW-BCP-17B-10242024	Water	10/24/24 08:40	10/25/24 16:30
480-224869-25	MW-BCP-27A-10252024	Water	10/24/24 02:30	10/25/24 16:30

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224869-1

Client Sample ID: MW-BCP-09A-10252024 — Lab Sample ID: 480-224869-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.2	J	10	3.0	ug/L	1		8260C	Total/NA
Methylene Chloride	0.46	J	1.0	0.44	ug/L	1		8260C	Total/NA
Ammonia	1.7		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	1.6	B	0.050	0.021	mg/L	5		9012B	Total/NA

Client Sample ID: MW-BCP-09B-10242024 — Lab Sample ID: 480-224869-2

No Detections.

Client Sample ID: MW-BCP-10A-10242024 — Lab Sample ID: 480-224869-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	26	J	50	6.6	ug/L	5		8260C	Total/NA
Acetone	150		50	15	ug/L	5		8260C	Total/NA
Benzene	1500	E	5.0	2.1	ug/L	5		8260C	Total/NA
Cyclohexane	0.93	J	5.0	0.90	ug/L	5		8260C	Total/NA
Ethylbenzene	70		5.0	3.7	ug/L	5		8260C	Total/NA
Methylene Chloride	6.0		5.0	2.2	ug/L	5		8260C	Total/NA
Styrene	330		5.0	3.7	ug/L	5		8260C	Total/NA
Toluene	1800	E	5.0	2.6	ug/L	5		8260C	Total/NA
Xylenes, Total	1500	E	10	3.3	ug/L	5		8260C	Total/NA
1,2-Dibromo-3-Chloropropane - DL	160		50	20	ug/L	50		8260C	Total/NA
Acetone - DL	190	J	500	150	ug/L	50		8260C	Total/NA
Benzene - DL	1500		50	21	ug/L	50		8260C	Total/NA
Ethylbenzene - DL	78		50	37	ug/L	50		8260C	Total/NA
Methylene Chloride - DL	69		50	22	ug/L	50		8260C	Total/NA
Styrene - DL	310		50	37	ug/L	50		8260C	Total/NA
Toluene - DL	1900		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total - DL	1500		100	33	ug/L	50		8260C	Total/NA
Biphenyl	86	J	250	33	ug/L	10		8270D	Total/NA
2,4-Dimethylphenol	5300	E	250	25	ug/L	10		8270D	Total/NA
2-Methylnaphthalene	1000		250	30	ug/L	10		8270D	Total/NA
2-Methylphenol	6500	E	250	20	ug/L	10		8270D	Total/NA
4-Methylphenol	7500	E	500	18	ug/L	10		8270D	Total/NA
Acenaphthene	40	J	250	21	ug/L	10		8270D	Total/NA
Acenaphthylene	720		250	19	ug/L	10		8270D	Total/NA
Anthracene	100	J	250	14	ug/L	10		8270D	Total/NA
Benzo(a)anthracene	73	J	250	18	ug/L	10		8270D	Total/NA
Benzo(a)pyrene	49	J	250	24	ug/L	10		8270D	Total/NA
Benzo(b)fluoranthene	62	J	250	17	ug/L	10		8270D	Total/NA
Benzo(g,h,i)perylene	25	J	250	18	ug/L	10		8270D	Total/NA
Carbazole	530		250	15	ug/L	10		8270D	Total/NA
Chrysene	68	J	250	17	ug/L	10		8270D	Total/NA
Dibenzofuran	210	J	500	26	ug/L	10		8270D	Total/NA
Fluoranthene	190	J	250	20	ug/L	10		8270D	Total/NA
Fluorene	280		250	18	ug/L	10		8270D	Total/NA
Indeno(1,2,3-cd)pyrene	24	J	250	24	ug/L	10		8270D	Total/NA
Naphthalene	13000	E	250	38	ug/L	10		8270D	Total/NA
Phenanthrene	420		250	22	ug/L	10		8270D	Total/NA
Phenol	3100		250	20	ug/L	10		8270D	Total/NA
Pyrene	130	J	250	17	ug/L	10		8270D	Total/NA
2,4-Dimethylphenol - DL	5300		2500	250	ug/L	100		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-BCP-10A-10242024 (Continued) — Lab Sample ID: 480-224869-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene - DL	1100	J	2500	300	ug/L	100		8270D	Total/NA
2-Methylphenol - DL	5900		2500	200	ug/L	100		8270D	Total/NA
4-Methylphenol - DL	7200		5000	180	ug/L	100		8270D	Total/NA
Acenaphthylene - DL	660	J	2500	190	ug/L	100		8270D	Total/NA
Carbazole - DL	500	J	2500	150	ug/L	100		8270D	Total/NA
Fluorene - DL	280	J	2500	180	ug/L	100		8270D	Total/NA
Naphthalene - DL	17000		2500	380	ug/L	100		8270D	Total/NA
Phenanthrene - DL	420	J	2500	220	ug/L	100		8270D	Total/NA
Phenol - DL	2900		2500	200	ug/L	100		8270D	Total/NA
Mercury	0.00016	J	0.00060	0.00013	mg/L	1		7470A	Total/NA
Ammonia	223		10.0	4.5	mg/L	500		350.1	Total/NA
Cyanide, Total	1.8	B	0.050	0.021	mg/L	5		9012B	Total/NA

Client Sample ID: MW-BCP-10C-10242024 — Lab Sample ID: 480-224869-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.17	F1	0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: MW-BCP-11A-10242024 — Lab Sample ID: 480-224869-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(b)fluoranthene	0.48	J	5.0	0.34	ug/L	1		8270D	Total/NA
Ammonia	0.18		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.12		0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-11B-10242024 — Lab Sample ID: 480-224869-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.047		0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: MW-BCP-12A-10242024 — Lab Sample ID: 480-224869-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.49	J	1.0	0.44	ug/L	1		8260C	Total/NA
Acenaphthene	0.46	J	5.0	0.41	ug/L	1		8270D	Total/NA
Anthracene	0.40	J	5.0	0.28	ug/L	1		8270D	Total/NA
Benzo(a)anthracene	0.68	J	5.0	0.36	ug/L	1		8270D	Total/NA
Benzo(a)pyrene	0.78	J	5.0	0.47	ug/L	1		8270D	Total/NA
Benzo(b)fluoranthene	0.86	J	5.0	0.34	ug/L	1		8270D	Total/NA
Benzo(g,h,i)perylene	0.51	J	5.0	0.35	ug/L	1		8270D	Total/NA
Chrysene	0.75	J	5.0	0.33	ug/L	1		8270D	Total/NA
Fluoranthene	1.7	J	5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	0.64	J	5.0	0.36	ug/L	1		8270D	Total/NA
Phenanthrene	1.2	J	5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	1.3	J	5.0	0.34	ug/L	1		8270D	Total/NA
Mercury	0.00043		0.00020	0.000042	mg/L	1		7470A	Total/NA
Ammonia	0.073		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	1.2	B	0.050	0.021	mg/L	5		9012B	Total/NA

Client Sample ID: MW-BCP-12B-10242024 — Lab Sample ID: 480-224869-8

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224869-1

Client Sample ID: MW-BCP-13A-10252024 — Lab Sample ID: 480-224869-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2600		100	41	ug/L	100		8260C	Total/NA
Methylene Chloride	87	J	100	44	ug/L	100		8260C	Total/NA
Toluene	940		100	51	ug/L	100		8260C	Total/NA
Xylenes, Total	520		200	66	ug/L	100		8260C	Total/NA
2,4-Dimethylphenol	8800		2500	250	ug/L	500		8270D	Total/NA
2-Methylnaphthalene	570	J	2500	300	ug/L	500		8270D	Total/NA
2-Methylphenol	12000		2500	200	ug/L	500		8270D	Total/NA
4-Methylphenol	28000		5000	180	ug/L	500		8270D	Total/NA
Acenaphthylene	280	J	2500	190	ug/L	500		8270D	Total/NA
Carbazole	170	J	2500	150	ug/L	500		8270D	Total/NA
Naphthalene	11000		2500	380	ug/L	500		8270D	Total/NA
Phenol	4800		2500	200	ug/L	500		8270D	Total/NA
Ammonia	7.8		0.10	0.045	mg/L	5		350.1	Total/NA
Cyanide, Total	0.62	B	0.020	0.0082	mg/L	2		9012B	Total/NA

Client Sample ID: MW-BCP-13B-10252024 — Lab Sample ID: 480-224869-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.6	J	20	6.0	ug/L	2		8260C	Total/NA
Benzene	53		2.0	0.82	ug/L	2		8260C	Total/NA
Ethylbenzene	11		2.0	1.5	ug/L	2		8260C	Total/NA
Methylene Chloride	2.6		2.0	0.88	ug/L	2		8260C	Total/NA
Styrene	3.6		2.0	1.5	ug/L	2		8260C	Total/NA
Toluene	39		2.0	1.0	ug/L	2		8260C	Total/NA
Xylenes, Total	100		4.0	1.3	ug/L	2		8260C	Total/NA
Biphenyl	60		25	3.3	ug/L	5		8270D	Total/NA
2,4-Dimethylphenol	10	J	25	2.5	ug/L	5		8270D	Total/NA
2-Methylnaphthalene	66		25	3.0	ug/L	5		8270D	Total/NA
2-Methylphenol	11	J	25	2.0	ug/L	5		8270D	Total/NA
4-Methylphenol	21	J	50	1.8	ug/L	5		8270D	Total/NA
Acenaphthene	24	J	25	2.1	ug/L	5		8270D	Total/NA
Acenaphthylene	250		25	1.9	ug/L	5		8270D	Total/NA
Anthracene	29		25	1.4	ug/L	5		8270D	Total/NA
Benzo(a)anthracene	7.9	J	25	1.8	ug/L	5		8270D	Total/NA
Benzo(a)pyrene	5.4	J	25	2.4	ug/L	5		8270D	Total/NA
Benzo(b)fluoranthene	6.1	J	25	1.7	ug/L	5		8270D	Total/NA
Benzo(g,h,i)perylene	2.6	J	25	1.8	ug/L	5		8270D	Total/NA
Carbazole	100		25	1.5	ug/L	5		8270D	Total/NA
Chrysene	6.7	J	25	1.7	ug/L	5		8270D	Total/NA
Dibenzofuran	130		50	2.6	ug/L	5		8270D	Total/NA
Fluoranthene	41		25	2.0	ug/L	5		8270D	Total/NA
Fluorene	130		25	1.8	ug/L	5		8270D	Total/NA
Indeno(1,2,3-cd)pyrene	2.6	J	25	2.4	ug/L	5		8270D	Total/NA
Naphthalene	3000	E	25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene	180		25	2.2	ug/L	5		8270D	Total/NA
Pyrene	27		25	1.7	ug/L	5		8270D	Total/NA
Acenaphthylene - DL	210	J	2500	190	ug/L	500		8270D	Total/NA
Naphthalene - DL	13000		2500	380	ug/L	500		8270D	Total/NA
Mercury	0.00099		0.00040	0.000084	mg/L	1		7470A	Total/NA
Ammonia	0.24	F1	0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.28		0.010	0.0041	mg/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224869-1

Client Sample ID: MW-BCP-24A-10252024 — Lab Sample ID: 480-224869-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.16	J	1.0	0.16	ug/L	1		8260C	Total/NA
2-Methylphenol	0.86	J	5.0	0.40	ug/L	1		8270D	Total/NA
4-Methylphenol	1.5	J	10	0.36	ug/L	1		8270D	Total/NA
Naphthalene	3.8	J	5.0	0.76	ug/L	1		8270D	Total/NA
Phenol	0.49	J	5.0	0.39	ug/L	1		8270D	Total/NA
Mercury	0.00061		0.00040	0.000084	mg/L	1		7470A	Total/NA
Ammonia	1.0		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.12		0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-25A-10252024 — Lab Sample ID: 480-224869-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.46	J	1.0	0.44	ug/L	1		8260C	Total/NA
2-Methylphenol	0.42	J	5.2	0.42	ug/L	1		8270D	Total/NA
4-Methylphenol	0.61	J	10	0.38	ug/L	1		8270D	Total/NA
Benzo(b)fluoranthene	0.35	J	5.2	0.35	ug/L	1		8270D	Total/NA
Naphthalene	1.9	J	5.2	0.79	ug/L	1		8270D	Total/NA
Mercury	0.000050	J	0.00020	0.000042	mg/L	1		7470A	Total/NA
Ammonia	5.1	B	0.10	0.045	mg/L	5		350.1	Total/NA
Cyanide, Total	1.4	B	0.050	0.021	mg/L	5		9012B	Total/NA

Client Sample ID: MW-BCP-19B-10252024 — Lab Sample ID: 480-224869-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.0		1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	0.21	J	1.0	0.19	ug/L	1		8260C	Total/NA
Ethylbenzene	1.4		1.0	0.74	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.24	J	1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	2.4		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	6.0		2.0	0.66	ug/L	1		8260C	Total/NA
Biphenyl	14		5.0	0.65	ug/L	1		8270D	Total/NA
2,4-Dimethylphenol	0.53	J	5.0	0.50	ug/L	1		8270D	Total/NA
2-Methylnaphthalene	1.1	J	5.0	0.60	ug/L	1		8270D	Total/NA
2-Methylphenol	0.49	J	5.0	0.40	ug/L	1		8270D	Total/NA
4-Methylphenol	0.92	J	10	0.36	ug/L	1		8270D	Total/NA
Acenaphthene	8.8		5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	51		5.0	0.38	ug/L	1		8270D	Total/NA
Anthracene	15		5.0	0.28	ug/L	1		8270D	Total/NA
Benzo(a)anthracene	2.3	J	5.0	0.36	ug/L	1		8270D	Total/NA
Benzo(a)pyrene	1.5	J	5.0	0.47	ug/L	1		8270D	Total/NA
Benzo(b)fluoranthene	1.8	J	5.0	0.34	ug/L	1		8270D	Total/NA
Benzo(g,h,i)perylene	0.75	J	5.0	0.35	ug/L	1		8270D	Total/NA
Carbazole	27		5.0	0.30	ug/L	1		8270D	Total/NA
Chrysene	2.2	J	5.0	0.33	ug/L	1		8270D	Total/NA
Dibenzofuran	48		10	0.51	ug/L	1		8270D	Total/NA
Fluoranthene	22		5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	68	E	5.0	0.36	ug/L	1		8270D	Total/NA
Indeno(1,2,3-cd)pyrene	0.66	J	5.0	0.47	ug/L	1		8270D	Total/NA
Naphthalene	6.4		5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	78	E	5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	14		5.0	0.34	ug/L	1		8270D	Total/NA
Biphenyl - DL	13	J	25	3.3	ug/L	5		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-BCP-19B-10252024 (Continued) — Lab Sample ID: 480-224869-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene - DL	8.8	J	25	2.1	ug/L	5		8270D	Total/NA
Acenaphthylene - DL	49		25	1.9	ug/L	5		8270D	Total/NA
Anthracene - DL	14	J	25	1.4	ug/L	5		8270D	Total/NA
Benzo(a)anthracene - DL	2.5	J	25	1.8	ug/L	5		8270D	Total/NA
Benzo(b)fluoranthene - DL	2.2	J	25	1.7	ug/L	5		8270D	Total/NA
Carbazole - DL	26		25	1.5	ug/L	5		8270D	Total/NA
Chrysene - DL	2.5	J	25	1.7	ug/L	5		8270D	Total/NA
Dibenzofuran - DL	45	J	50	2.6	ug/L	5		8270D	Total/NA
Fluoranthene - DL	23	J	25	2.0	ug/L	5		8270D	Total/NA
Fluorene - DL	63		25	1.8	ug/L	5		8270D	Total/NA
Naphthalene - DL	6.6	J	25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene - DL	79		25	2.2	ug/L	5		8270D	Total/NA
Pyrene - DL	15	J	25	1.7	ug/L	5		8270D	Total/NA
Mercury	0.00018	J	0.00040	0.000084	mg/L	1		7470A	Total/NA
Ammonia	0.20		0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: MW-BCP-22A-10252024 — Lab Sample ID: 480-224869-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.000053	J	0.00020	0.000042	mg/L	1		7470A	Total/NA
Ammonia	0.96		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.042	F1 B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-25B-10252024 — Lab Sample ID: 480-224869-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.25		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.019	F1 B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-23A-10252024 — Lab Sample ID: 480-224869-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.000062	J	0.00020	0.000042	mg/L	1		7470A	Total/NA
Ammonia	1.1		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.26	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-24B-10252024 — Lab Sample ID: 480-224869-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00016	J	0.00060	0.00013	mg/L	1		7470A	Total/NA
Ammonia	0.30	F1 F2	0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.058	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-21A-10252024 — Lab Sample ID: 480-224869-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.2	J	10	3.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	0.69	J	1.0	0.16	ug/L	1		8260C	Total/NA
2-Methylphenol	0.47	J	5.2	0.42	ug/L	1		8270D	Total/NA
4-Methylphenol	0.70	J	10	0.38	ug/L	1		8270D	Total/NA
Carbazole	0.66	J	5.2	0.31	ug/L	1		8270D	Total/NA
Fluoranthene	0.43	J	5.2	0.42	ug/L	1		8270D	Total/NA
Naphthalene	1.8	J	5.2	0.79	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-BCP-21A-10252024 (Continued) — Lab Sample ID: 480-224869-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.40	J	5.2	0.35	ug/L	1		8270D	Total/NA
Ammonia	1.5		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.020	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-19A-10252024 — Lab Sample ID: 480-224869-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	180		8.0	3.3	ug/L	8		8260C	Total/NA
Ethylbenzene	9.6		8.0	5.9	ug/L	8		8260C	Total/NA
Methylene Chloride	12		8.0	3.5	ug/L	8		8260C	Total/NA
Toluene	56		8.0	4.1	ug/L	8		8260C	Total/NA
Xylenes, Total	220		16	5.3	ug/L	8		8260C	Total/NA
2,4-Dimethylphenol	530	J	1500	150	ug/L	300		8270D	Total/NA
2-Methylnaphthalene	370	J	1500	180	ug/L	300		8270D	Total/NA
2-Methylphenol	410	J	1500	120	ug/L	300		8270D	Total/NA
Carbazole	110	J	1500	90	ug/L	300		8270D	Total/NA
Naphthalene	5800		1500	230	ug/L	300		8270D	Total/NA
Ammonia	37.0		0.51	0.23	mg/L	25.71		350.1	Total/NA

Client Sample ID: MW-BCP-20A-10252024 — Lab Sample ID: 480-224869-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.17		0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: MW-BCP-20B-10252024 — Lab Sample ID: 480-224869-21

No Detections.

Client Sample ID: MW-BCP-17A-10242024 — Lab Sample ID: 480-224869-22

No Detections.

Client Sample ID: MW-BCP-21C-10252024 — Lab Sample ID: 480-224869-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.34		0.020	0.0090	mg/L	1		350.1	Total/NA

Client Sample ID: MW-BCP-17B-10242024 — Lab Sample ID: 480-224869-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.049		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.0075	J F1 B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-BCP-27A-10252024 — Lab Sample ID: 480-224869-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0015		0.00020	0.000042	mg/L	1		7470A	Total/NA
Ammonia	1.1		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	16.8	B	0.50	0.21	mg/L	50		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Inventum Engineering LLC
Job ID: 480-224869-1
Project/Site: Ammonia SCO

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Client Sample ID: MW-BCP-09A-10252024

Date Collected: 10/25/24 16:30
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 05:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 05:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 05:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 05:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 05:16	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 05:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 05:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 05:16	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 05:16	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 05:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 05:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 05:16	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 05:16	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 05:16	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 05:16	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 05:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 05:16	1
Acetone	**7.2**	**J**	10	3.0	ug/L			10/31/24 05:16	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 05:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 05:16	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 05:16	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 05:16	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 05:16	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 05:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 05:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 05:16	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 05:16	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 05:16	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 05:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 05:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 05:16	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 05:16	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 05:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 05:16	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 05:16	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 05:16	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/24 05:16	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 05:16	1
Methylene Chloride	**0.46**	**J**	1.0	0.44	ug/L			10/31/24 05:16	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 05:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 05:16	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 05:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 05:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 05:16	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 05:16	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 05:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 05:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 05:16	1

Client Sample ID: MW-BCP-09A-10252024

Date Collected: 10/25/24 16:30
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/31/24 05:16*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/31/24 05:16*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*10/31/24 05:16*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*10/31/24 05:16*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.2	0.68	ug/L		10/28/24 14:16	10/29/24 19:01	1
bis (2-chloroisopropyl) ether	ND		5.2	0.54	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,4,5-Trichlorophenol	ND		5.2	0.50	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,4,6-Trichlorophenol	ND		5.2	0.64	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,4-Dichlorophenol	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,4-Dinitrophenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,4-Dinitrotoluene	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 19:01	1
2,6-Dinitrotoluene	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 19:01	1
2-Chloronaphthalene	ND		5.2	0.48	ug/L		10/28/24 14:16	10/29/24 19:01	1
2-Chlorophenol	ND		5.2	0.55	ug/L		10/28/24 14:16	10/29/24 19:01	1
2-Methylnaphthalene	ND		5.2	0.63	ug/L		10/28/24 14:16	10/29/24 19:01	1
2-Methylphenol	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 19:01	1
2-Nitroaniline	ND		10	0.44	ug/L		10/28/24 14:16	10/29/24 19:01	1
2-Nitrophenol	ND		5.2	0.50	ug/L		10/28/24 14:16	10/29/24 19:01	1
3,3'-Dichlorobenzidine	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 19:01	1
3-Nitroaniline	ND		10	0.50	ug/L		10/28/24 14:16	10/29/24 19:01	1
4,6-Dinitro-2-methylphenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Bromophenyl phenyl ether	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Chloro-3-methylphenol	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Chloroaniline	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Chlorophenyl phenyl ether	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Methylphenol	ND		10	0.38	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Nitroaniline	ND		10	0.26	ug/L		10/28/24 14:16	10/29/24 19:01	1
4-Nitrophenol	ND	*+	10	1.6	ug/L		10/28/24 14:16	10/29/24 19:01	1
Acenaphthene	ND		5.2	0.43	ug/L		10/28/24 14:16	10/29/24 19:01	1
Acenaphthylene	ND		5.2	0.40	ug/L		10/28/24 14:16	10/29/24 19:01	1
Acetophenone	ND		5.2	0.56	ug/L		10/28/24 14:16	10/29/24 19:01	1
Anthracene	ND		5.2	0.29	ug/L		10/28/24 14:16	10/29/24 19:01	1
Atrazine	ND		5.2	0.48	ug/L		10/28/24 14:16	10/29/24 19:01	1
Benzaldehyde	ND		5.2	0.28	ug/L		10/28/24 14:16	10/29/24 19:01	1
Benzo(a)anthracene	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 19:01	1
Benzo(a)pyrene	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 19:01	1
Benzo(b)fluoranthene	ND		5.2	0.35	ug/L		10/28/24 14:16	10/29/24 19:01	1
Benzo(g,h,i)perylene	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 19:01	1
Benzo(k)fluoranthene	ND		5.2	0.76	ug/L		10/28/24 14:16	10/29/24 19:01	1
Bis(2-chloroethoxy)methane	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 19:01	1
Bis(2-chloroethyl)ether	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 19:01	1
Bis(2-ethylhexyl) phthalate	ND		5.2	2.3	ug/L		10/28/24 14:16	10/29/24 19:01	1
Butyl benzyl phthalate	ND		5.2	1.0	ug/L		10/28/24 14:16	10/29/24 19:01	1
Caprolactam	ND		5.2	2.3	ug/L		10/28/24 14:16	10/29/24 19:01	1
Carbazole	ND		5.2	0.31	ug/L		10/28/24 14:16	10/29/24 19:01	1
Chrysene	ND		5.2	0.34	ug/L		10/28/24 14:16	10/29/24 19:01	1

Client Sample ID: MW-BCP-09A-10252024

Lab Sample ID: 480-224869-1

Date Collected: 10/25/24 16:30

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		5.2	0.32	ug/L		10/28/24 14:16	10/29/24 19:01	1
Di-n-octyl phthalate	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 19:01	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		10/28/24 14:16	10/29/24 19:01	1
Dibenzofuran	ND		10	0.53	ug/L		10/28/24 14:16	10/29/24 19:01	1
Diethyl phthalate	ND		5.2	0.23	ug/L		10/28/24 14:16	10/29/24 19:01	1
Dimethyl phthalate	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 19:01	1
Fluoranthene	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 19:01	1
Fluorene	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 19:01	1
Hexachlorobenzene	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 19:01	1
Hexachlorobutadiene	ND		5.2	0.71	ug/L		10/28/24 14:16	10/29/24 19:01	1
Hexachlorocyclopentadiene	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 19:01	1
Hexachloroethane	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 19:01	1
Indeno(1,2,3-cd)pyrene	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 19:01	1
Isophorone	ND		5.2	0.45	ug/L		10/28/24 14:16	10/29/24 19:01	1
N-Nitrosodi-n-propylamine	ND		5.2	0.56	ug/L		10/28/24 14:16	10/29/24 19:01	1
N-Nitrosodiphenylamine	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 19:01	1
Naphthalene	ND		5.2	0.79	ug/L		10/28/24 14:16	10/29/24 19:01	1
Nitrobenzene	ND		5.2	0.30	ug/L		10/28/24 14:16	10/29/24 19:01	1
Pentachlorophenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 19:01	1
Phenanthrene	ND		5.2	0.46	ug/L		10/28/24 14:16	10/29/24 19:01	1
Phenol	ND		5.2	0.41	ug/L		10/28/24 14:16	10/29/24 19:01	1
Pyrene	ND		5.2	0.35	ug/L		10/28/24 14:16	10/29/24 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*66*		*25 - 144*	*10/28/24 14:16*	*10/29/24 19:01*	*1*
2-Fluorobiphenyl	*68*		*53 - 126*	*10/28/24 14:16*	*10/29/24 19:01*	*1*
2-Fluorophenol	*56*		*24 - 120*	*10/28/24 14:16*	*10/29/24 19:01*	*1*
Nitrobenzene-d5	*77*		*29 - 129*	*10/28/24 14:16*	*10/29/24 19:01*	*1*
p-Terphenyl-d14	*40*		*33 - 132*	*10/28/24 14:16*	*10/29/24 19:01*	*1*
Phenol-d5	*41*		*10 - 120*	*10/28/24 14:16*	*10/29/24 19:01*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**1.7**		0.020	0.0090	mg/L			10/31/24 09:59	1
Cyanide, Total (SW846 9012B)	**1.6**	**B**	0.050	0.021	mg/L			10/30/24 08:34	5

Client Sample ID: MW-BCP-09B-10242024

Lab Sample ID: 480-224869-2

Date Collected: 10/24/24 02:25

Matrix: Water

Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/31/24 10:00	1

Client Sample ID: MW-BCP-10A-10242024

Date Collected: 10/24/24 10:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			10/31/24 05:39	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			10/31/24 05:39	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			10/31/24 05:39	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			10/31/24 05:39	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			10/31/24 05:39	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			10/31/24 05:39	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			10/31/24 05:39	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			10/31/24 05:39	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			10/31/24 05:39	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			10/31/24 05:39	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			10/31/24 05:39	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			10/31/24 05:39	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			10/31/24 05:39	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			10/31/24 05:39	5
2-Hexanone	ND		25	6.2	ug/L			10/31/24 05:39	5
2-Butanone (MEK)	**26**	**J**	50	6.6	ug/L			10/31/24 05:39	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			10/31/24 05:39	5
Acetone	**150**		50	15	ug/L			10/31/24 05:39	5
Benzene	**1500**	**E**	5.0	2.1	ug/L			10/31/24 05:39	5
Bromodichloromethane	ND		5.0	2.0	ug/L			10/31/24 05:39	5
Bromoform	ND		5.0	1.3	ug/L			10/31/24 05:39	5
Bromomethane	ND		5.0	3.5	ug/L			10/31/24 05:39	5
Carbon disulfide	ND		5.0	0.95	ug/L			10/31/24 05:39	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			10/31/24 05:39	5
Chlorobenzene	ND		5.0	3.8	ug/L			10/31/24 05:39	5
Dibromochloromethane	ND		5.0	1.6	ug/L			10/31/24 05:39	5
Chloroethane	ND		5.0	1.6	ug/L			10/31/24 05:39	5
Chloroform	ND		5.0	1.7	ug/L			10/31/24 05:39	5
Chloromethane	ND		5.0	1.8	ug/L			10/31/24 05:39	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			10/31/24 05:39	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			10/31/24 05:39	5
Cyclohexane	**0.93**	**J**	5.0	0.90	ug/L			10/31/24 05:39	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			10/31/24 05:39	5
Ethylbenzene	**70**		5.0	3.7	ug/L			10/31/24 05:39	5
Isopropylbenzene	ND		5.0	4.0	ug/L			10/31/24 05:39	5
Methyl acetate	ND		13	6.5	ug/L			10/31/24 05:39	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			10/31/24 05:39	5
Methylcyclohexane	ND		5.0	0.80	ug/L			10/31/24 05:39	5
Methylene Chloride	**6.0**		5.0	2.2	ug/L			10/31/24 05:39	5
Styrene	**330**		5.0	3.7	ug/L			10/31/24 05:39	5
Tetrachloroethene	ND		5.0	1.8	ug/L			10/31/24 05:39	5
Toluene	**1800**	**E**	5.0	2.6	ug/L			10/31/24 05:39	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			10/31/24 05:39	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			10/31/24 05:39	5
Trichloroethene	ND		5.0	2.3	ug/L			10/31/24 05:39	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			10/31/24 05:39	5
Vinyl chloride	ND		5.0	4.5	ug/L			10/31/24 05:39	5
Xylenes, Total	**1500**	**E**	10	3.3	ug/L			10/31/24 05:39	5

Client Sample ID: MW-BCP-10A-10242024

Date Collected: 10/24/24 10:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*10/31/24 05:39*	*5*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/31/24 05:39*	*5*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*		*10/31/24 05:39*	*5*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*10/31/24 05:39*	*5*

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			11/01/24 00:29	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			11/01/24 00:29	50
1,1,2-Trichloroethane	ND		50	12	ug/L			11/01/24 00:29	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			11/01/24 00:29	50
1,1-Dichloroethane	ND		50	19	ug/L			11/01/24 00:29	50
1,1-Dichloroethene	ND		50	15	ug/L			11/01/24 00:29	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			11/01/24 00:29	50
1,2-Dibromo-3-Chloropropane	**160**		50	20	ug/L			11/01/24 00:29	50
1,2-Dibromoethane	ND		50	37	ug/L			11/01/24 00:29	50
1,2-Dichlorobenzene	ND		50	40	ug/L			11/01/24 00:29	50
1,2-Dichloroethane	ND		50	11	ug/L			11/01/24 00:29	50
1,2-Dichloropropane	ND		50	36	ug/L			11/01/24 00:29	50
1,3-Dichlorobenzene	ND		50	39	ug/L			11/01/24 00:29	50
1,4-Dichlorobenzene	ND		50	42	ug/L			11/01/24 00:29	50
2-Hexanone	ND		250	62	ug/L			11/01/24 00:29	50
2-Butanone (MEK)	ND		500	66	ug/L			11/01/24 00:29	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			11/01/24 00:29	50
Acetone	**190**	**J**	500	150	ug/L			11/01/24 00:29	50
Benzene	**1500**		50	21	ug/L			11/01/24 00:29	50
Bromodichloromethane	ND		50	20	ug/L			11/01/24 00:29	50
Bromoform	ND		50	13	ug/L			11/01/24 00:29	50
Bromomethane	ND		50	35	ug/L			11/01/24 00:29	50
Carbon disulfide	ND		50	9.5	ug/L			11/01/24 00:29	50
Carbon tetrachloride	ND		50	14	ug/L			11/01/24 00:29	50
Chlorobenzene	ND		50	38	ug/L			11/01/24 00:29	50
Dibromochloromethane	ND		50	16	ug/L			11/01/24 00:29	50
Chloroethane	ND		50	16	ug/L			11/01/24 00:29	50
Chloroform	ND		50	17	ug/L			11/01/24 00:29	50
Chloromethane	ND		50	18	ug/L			11/01/24 00:29	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			11/01/24 00:29	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			11/01/24 00:29	50
Cyclohexane	ND		50	9.0	ug/L			11/01/24 00:29	50
Dichlorodifluoromethane	ND		50	34	ug/L			11/01/24 00:29	50
Ethylbenzene	**78**		50	37	ug/L			11/01/24 00:29	50
Isopropylbenzene	ND		50	40	ug/L			11/01/24 00:29	50
Methyl acetate	ND		130	65	ug/L			11/01/24 00:29	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			11/01/24 00:29	50
Methylcyclohexane	ND		50	8.0	ug/L			11/01/24 00:29	50
Methylene Chloride	**69**		50	22	ug/L			11/01/24 00:29	50
Styrene	**310**		50	37	ug/L			11/01/24 00:29	50
Tetrachloroethene	ND		50	18	ug/L			11/01/24 00:29	50
Toluene	**1900**		50	26	ug/L			11/01/24 00:29	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			11/01/24 00:29	50

Client Sample ID: MW-BCP-10A-10242024

Date Collected: 10/24/24 10:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		50	19	ug/L			11/01/24 00:29	50
Trichloroethene	ND		50	23	ug/L			11/01/24 00:29	50
Trichlorofluoromethane	ND		50	44	ug/L			11/01/24 00:29	50
Vinyl chloride	ND		50	45	ug/L			11/01/24 00:29	50
Xylenes, Total	**1500**		100	33	ug/L			11/01/24 00:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*11/01/24 00:29*	*50*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/01/24 00:29*	*50*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*11/01/24 00:29*	*50*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*11/01/24 00:29*	*50*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**86**	**J**	250	33	ug/L		10/28/24 14:16	10/29/24 19:29	10
bis (2-chloroisopropyl) ether	ND		250	26	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,4,5-Trichlorophenol	ND		250	24	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,4,6-Trichlorophenol	ND		250	31	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,4-Dichlorophenol	ND		250	26	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,4-Dimethylphenol	**5300**	**E**	250	25	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,4-Dinitrophenol	ND		500	110	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,4-Dinitrotoluene	ND		250	22	ug/L		10/28/24 14:16	10/29/24 19:29	10
2,6-Dinitrotoluene	ND		250	20	ug/L		10/28/24 14:16	10/29/24 19:29	10
2-Chloronaphthalene	ND		250	23	ug/L		10/28/24 14:16	10/29/24 19:29	10
2-Chlorophenol	ND		250	27	ug/L		10/28/24 14:16	10/29/24 19:29	10
2-Methylnaphthalene	**1000**		250	30	ug/L		10/28/24 14:16	10/29/24 19:29	10
2-Methylphenol	**6500**	**E**	250	20	ug/L		10/28/24 14:16	10/29/24 19:29	10
2-Nitroaniline	ND		500	21	ug/L		10/28/24 14:16	10/29/24 19:29	10
2-Nitrophenol	ND		250	24	ug/L		10/28/24 14:16	10/29/24 19:29	10
3,3'-Dichlorobenzidine	ND		250	20	ug/L		10/28/24 14:16	10/29/24 19:29	10
3-Nitroaniline	ND		500	24	ug/L		10/28/24 14:16	10/29/24 19:29	10
4,6-Dinitro-2-methylphenol	ND		500	110	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Bromophenyl phenyl ether	ND		250	23	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Chloro-3-methylphenol	ND		250	23	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Chloroaniline	ND		250	30	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Chlorophenyl phenyl ether	ND		250	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Methylphenol	**7500**	**E**	500	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Nitroaniline	ND		500	13	ug/L		10/28/24 14:16	10/29/24 19:29	10
4-Nitrophenol	ND	*+	500	76	ug/L		10/28/24 14:16	10/29/24 19:29	10
Acenaphthene	**40**	**J**	250	21	ug/L		10/28/24 14:16	10/29/24 19:29	10
Acenaphthylene	**720**		250	19	ug/L		10/28/24 14:16	10/29/24 19:29	10
Acetophenone	ND		250	27	ug/L		10/28/24 14:16	10/29/24 19:29	10
Anthracene	**100**	**J**	250	14	ug/L		10/28/24 14:16	10/29/24 19:29	10
Atrazine	ND		250	23	ug/L		10/28/24 14:16	10/29/24 19:29	10
Benzaldehyde	ND		250	13	ug/L		10/28/24 14:16	10/29/24 19:29	10
Benzo(a)anthracene	**73**	**J**	250	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
Benzo(a)pyrene	**49**	**J**	250	24	ug/L		10/28/24 14:16	10/29/24 19:29	10
Benzo(b)fluoranthene	**62**	**J**	250	17	ug/L		10/28/24 14:16	10/29/24 19:29	10
Benzo(g,h,i)perylene	**25**	**J**	250	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
Benzo(k)fluoranthene	ND		250	37	ug/L		10/28/24 14:16	10/29/24 19:29	10

Client Sample ID: MW-BCP-10A-10242024

Date Collected: 10/24/24 10:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-3

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		250	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
Bis(2-chloroethyl)ether	ND		250	20	ug/L		10/28/24 14:16	10/29/24 19:29	10
Bis(2-ethylhexyl) phthalate	ND		250	110	ug/L		10/28/24 14:16	10/29/24 19:29	10
Butyl benzyl phthalate	ND		250	50	ug/L		10/28/24 14:16	10/29/24 19:29	10
Caprolactam	ND		250	110	ug/L		10/28/24 14:16	10/29/24 19:29	10
Carbazole	**530**		250	15	ug/L		10/28/24 14:16	10/29/24 19:29	10
Chrysene	**68**	**J**	250	17	ug/L		10/28/24 14:16	10/29/24 19:29	10
Di-n-butyl phthalate	ND		250	16	ug/L		10/28/24 14:16	10/29/24 19:29	10
Di-n-octyl phthalate	ND		250	24	ug/L		10/28/24 14:16	10/29/24 19:29	10
Dibenz(a,h)anthracene	ND		250	21	ug/L		10/28/24 14:16	10/29/24 19:29	10
Dibenzofuran	**210**	**J**	500	26	ug/L		10/28/24 14:16	10/29/24 19:29	10
Diethyl phthalate	ND		250	11	ug/L		10/28/24 14:16	10/29/24 19:29	10
Dimethyl phthalate	ND		250	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
Fluoranthene	**190**	**J**	250	20	ug/L		10/28/24 14:16	10/29/24 19:29	10
Fluorene	**280**		250	18	ug/L		10/28/24 14:16	10/29/24 19:29	10
Hexachlorobenzene	ND		250	26	ug/L		10/28/24 14:16	10/29/24 19:29	10
Hexachlorobutadiene	ND		250	34	ug/L		10/28/24 14:16	10/29/24 19:29	10
Hexachlorocyclopentadiene	ND		250	30	ug/L		10/28/24 14:16	10/29/24 19:29	10
Hexachloroethane	ND		250	30	ug/L		10/28/24 14:16	10/29/24 19:29	10
Indeno(1,2,3-cd)pyrene	**24**	**J**	250	24	ug/L		10/28/24 14:16	10/29/24 19:29	10
Isophorone	ND		250	22	ug/L		10/28/24 14:16	10/29/24 19:29	10
N-Nitrosodi-n-propylamine	ND		250	27	ug/L		10/28/24 14:16	10/29/24 19:29	10
N-Nitrosodiphenylamine	ND		250	26	ug/L		10/28/24 14:16	10/29/24 19:29	10
Naphthalene	**13000**	**E**	250	38	ug/L		10/28/24 14:16	10/29/24 19:29	10
Nitrobenzene	ND		250	15	ug/L		10/28/24 14:16	10/29/24 19:29	10
Pentachlorophenol	ND		500	110	ug/L		10/28/24 14:16	10/29/24 19:29	10
Phenanthrene	**420**		250	22	ug/L		10/28/24 14:16	10/29/24 19:29	10
Phenol	**3100**		250	20	ug/L		10/28/24 14:16	10/29/24 19:29	10
Pyrene	**130**	**J**	250	17	ug/L		10/28/24 14:16	10/29/24 19:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*25 - 144*	*10/28/24 14:16*	*10/29/24 19:29*	*10*
2-Fluorobiphenyl	*71*		*53 - 126*	*10/28/24 14:16*	*10/29/24 19:29*	*10*
2-Fluorophenol	*0*	*S1-*	*24 - 120*	*10/28/24 14:16*	*10/29/24 19:29*	*10*
Nitrobenzene-d5	*73*		*29 - 129*	*10/28/24 14:16*	*10/29/24 19:29*	*10*
p-Terphenyl-d14	*66*		*33 - 132*	*10/28/24 14:16*	*10/29/24 19:29*	*10*
Phenol-d5	*44*		*10 - 120*	*10/28/24 14:16*	*10/29/24 19:29*	*10*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2500	330	ug/L		10/28/24 14:16	10/30/24 11:12	100
bis (2-chloroisopropyl) ether	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,4,5-Trichlorophenol	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,4,6-Trichlorophenol	ND		2500	310	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,4-Dichlorophenol	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,4-Dimethylphenol	**5300**		2500	250	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,4-Dinitrophenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,4-Dinitrotoluene	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 11:12	100
2,6-Dinitrotoluene	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:12	100
2-Chloronaphthalene	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:12	100

Client Sample ID: MW-BCP-10A-10242024

Date Collected: 10/24/24 10:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-3

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 11:12	100
2-Methylnaphthalene	**1100**	**J**	2500	300	ug/L		10/28/24 14:16	10/30/24 11:12	100
2-Methylphenol	**5900**		2500	200	ug/L		10/28/24 14:16	10/30/24 11:12	100
2-Nitroaniline	ND		5000	210	ug/L		10/28/24 14:16	10/30/24 11:12	100
2-Nitrophenol	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:12	100
3,3'-Dichlorobenzidine	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:12	100
3-Nitroaniline	ND		5000	240	ug/L		10/28/24 14:16	10/30/24 11:12	100
4,6-Dinitro-2-methylphenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Bromophenyl phenyl ether	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Chloro-3-methylphenol	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Chloroaniline	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Chlorophenyl phenyl ether	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Methylphenol	**7200**		5000	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Nitroaniline	ND		5000	130	ug/L		10/28/24 14:16	10/30/24 11:12	100
4-Nitrophenol	ND	*+	5000	760	ug/L		10/28/24 14:16	10/30/24 11:12	100
Acenaphthene	ND		2500	210	ug/L		10/28/24 14:16	10/30/24 11:12	100
Acenaphthylene	**660**	**J**	2500	190	ug/L		10/28/24 14:16	10/30/24 11:12	100
Acetophenone	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 11:12	100
Anthracene	ND		2500	140	ug/L		10/28/24 14:16	10/30/24 11:12	100
Atrazine	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:12	100
Benzaldehyde	ND		2500	130	ug/L		10/28/24 14:16	10/30/24 11:12	100
Benzo(a)anthracene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
Benzo(a)pyrene	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:12	100
Benzo(b)fluoranthene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 11:12	100
Benzo(g,h,i)perylene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
Benzo(k)fluoranthene	ND		2500	370	ug/L		10/28/24 14:16	10/30/24 11:12	100
Bis(2-chloroethoxy)methane	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
Bis(2-chloroethyl)ether	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:12	100
Bis(2-ethylhexyl) phthalate	ND		2500	1100	ug/L		10/28/24 14:16	10/30/24 11:12	100
Butyl benzyl phthalate	ND		2500	500	ug/L		10/28/24 14:16	10/30/24 11:12	100
Caprolactam	ND		2500	1100	ug/L		10/28/24 14:16	10/30/24 11:12	100
Carbazole	**500**	**J**	2500	150	ug/L		10/28/24 14:16	10/30/24 11:12	100
Chrysene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 11:12	100
Di-n-butyl phthalate	ND		2500	160	ug/L		10/28/24 14:16	10/30/24 11:12	100
Di-n-octyl phthalate	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:12	100
Dibenz(a,h)anthracene	ND		2500	210	ug/L		10/28/24 14:16	10/30/24 11:12	100
Dibenzofuran	ND		5000	260	ug/L		10/28/24 14:16	10/30/24 11:12	100
Diethyl phthalate	ND		2500	110	ug/L		10/28/24 14:16	10/30/24 11:12	100
Dimethyl phthalate	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
Fluoranthene	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:12	100
Fluorene	**280**	**J**	2500	180	ug/L		10/28/24 14:16	10/30/24 11:12	100
Hexachlorobenzene	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:12	100
Hexachlorobutadiene	ND		2500	340	ug/L		10/28/24 14:16	10/30/24 11:12	100
Hexachlorocyclopentadiene	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 11:12	100
Hexachloroethane	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 11:12	100
Indeno(1,2,3-cd)pyrene	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:12	100
Isophorone	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 11:12	100
N-Nitrosodi-n-propylamine	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 11:12	100
N-Nitrosodiphenylamine	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:12	100

Client Sample ID: MW-BCP-10A-10242024

Lab Sample ID: 480-224869-3

Date Collected: 10/24/24 10:40
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**17000**		2500	380	ug/L		10/28/24 14:16	10/30/24 11:12	100
Nitrobenzene	ND		2500	150	ug/L		10/28/24 14:16	10/30/24 11:12	100
Pentachlorophenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 11:12	100
Phenanthrene	**420**	**J**	2500	220	ug/L		10/28/24 14:16	10/30/24 11:12	100
Phenol	**2900**		2500	200	ug/L		10/28/24 14:16	10/30/24 11:12	100
Pyrene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 11:12	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*S1-*	*25 - 144*	*10/28/24 14:16*	*10/30/24 11:12*	*100*
2-Fluorobiphenyl	*75*		*53 - 126*	*10/28/24 14:16*	*10/30/24 11:12*	*100*
2-Fluorophenol	*0*	*S1-*	*24 - 120*	*10/28/24 14:16*	*10/30/24 11:12*	*100*
Nitrobenzene-d5	*129*		*29 - 129*	*10/28/24 14:16*	*10/30/24 11:12*	*100*
p-Terphenyl-d14	*66*		*33 - 132*	*10/28/24 14:16*	*10/30/24 11:12*	*100*
Phenol-d5	*0*	*S1-*	*10 - 120*	*10/28/24 14:16*	*10/30/24 11:12*	*100*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00016**	**J**	0.00060	0.00013	mg/L		10/30/24 12:00	10/30/24 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**223**		10.0	4.5	mg/L			10/31/24 10:01	500
Cyanide, Total (SW846 9012B)	**1.8**	**B**	0.050	0.021	mg/L			10/30/24 08:38	5

Client Sample ID: MW-BCP-10C-10242024

Lab Sample ID: 480-224869-4

Date Collected: 10/24/24 10:55
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.17**	**F1**	0.020	0.0090	mg/L			10/31/24 10:05	1

Client Sample ID: MW-BCP-11A-10242024

Lab Sample ID: 480-224869-5

Date Collected: 10/24/24 11:35
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 06:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 06:01	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 06:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 06:01	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 06:01	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 06:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 06:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 06:01	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 06:01	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 06:01	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 06:01	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 06:01	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 06:01	1

Client Sample ID: MW-BCP-11A-10242024

Date Collected: 10/24/24 11:35
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-5

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 06:01	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 06:01	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 06:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 06:01	1
Acetone	ND		10	3.0	ug/L			10/31/24 06:01	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 06:01	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 06:01	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 06:01	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 06:01	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 06:01	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 06:01	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 06:01	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 06:01	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 06:01	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 06:01	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 06:01	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 06:01	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 06:01	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 06:01	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 06:01	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 06:01	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 06:01	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 06:01	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/24 06:01	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 06:01	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/31/24 06:01	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 06:01	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 06:01	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 06:01	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 06:01	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 06:01	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 06:01	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 06:01	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 06:01	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*10/31/24 06:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/31/24 06:01*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*10/31/24 06:01*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*10/31/24 06:01*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		10/28/24 14:16	10/29/24 19:56	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/28/24 14:16	10/29/24 19:56	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 19:56	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/28/24 14:16	10/29/24 19:56	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 19:56	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/28/24 14:16	10/29/24 19:56	1

Client Sample ID: MW-BCP-11A-10242024

Date Collected: 10/24/24 11:35
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-5

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 19:56	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 19:56	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 19:56	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 19:56	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/28/24 14:16	10/29/24 19:56	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		10/28/24 14:16	10/29/24 19:56	1
2-Methylphenol	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 19:56	1
2-Nitroaniline	ND		10	0.42	ug/L		10/28/24 14:16	10/29/24 19:56	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 19:56	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 19:56	1
3-Nitroaniline	ND		10	0.48	ug/L		10/28/24 14:16	10/29/24 19:56	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Methylphenol	ND		10	0.36	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Nitroaniline	ND		10	0.25	ug/L		10/28/24 14:16	10/29/24 19:56	1
4-Nitrophenol	ND	*+	10	1.5	ug/L		10/28/24 14:16	10/29/24 19:56	1
Acenaphthene	ND		5.0	0.41	ug/L		10/28/24 14:16	10/29/24 19:56	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/28/24 14:16	10/29/24 19:56	1
Acetophenone	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 19:56	1
Anthracene	ND		5.0	0.28	ug/L		10/28/24 14:16	10/29/24 19:56	1
Atrazine	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 19:56	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/28/24 14:16	10/29/24 19:56	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 19:56	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 19:56	1
Benzo(b)fluoranthene	**0.48**	**J**	5.0	0.34	ug/L		10/28/24 14:16	10/29/24 19:56	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 19:56	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/28/24 14:16	10/29/24 19:56	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 19:56	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 19:56	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 19:56	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/28/24 14:16	10/29/24 19:56	1
Caprolactam	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 19:56	1
Carbazole	ND		5.0	0.30	ug/L		10/28/24 14:16	10/29/24 19:56	1
Chrysene	ND		5.0	0.33	ug/L		10/28/24 14:16	10/29/24 19:56	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/28/24 14:16	10/29/24 19:56	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 19:56	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/28/24 14:16	10/29/24 19:56	1
Dibenzofuran	ND		10	0.51	ug/L		10/28/24 14:16	10/29/24 19:56	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/28/24 14:16	10/29/24 19:56	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 19:56	1
Fluoranthene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 19:56	1
Fluorene	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 19:56	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 19:56	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/28/24 14:16	10/29/24 19:56	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 19:56	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 19:56	1

Client Sample ID: MW-BCP-11A-10242024

Lab Sample ID: 480-224869-5

Date Collected: 10/24/24 11:35

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 19:56	1
Isophorone	ND		5.0	0.43	ug/L		10/28/24 14:16	10/29/24 19:56	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 19:56	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 19:56	1
Naphthalene	ND		5.0	0.76	ug/L		10/28/24 14:16	10/29/24 19:56	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/28/24 14:16	10/29/24 19:56	1
Pentachlorophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 19:56	1
Phenanthrene	ND		5.0	0.44	ug/L		10/28/24 14:16	10/29/24 19:56	1
Phenol	ND		5.0	0.39	ug/L		10/28/24 14:16	10/29/24 19:56	1
Pyrene	ND		5.0	0.34	ug/L		10/28/24 14:16	10/29/24 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*25 - 144*	*10/28/24 14:16*	*10/29/24 19:56*	*1*
2-Fluorobiphenyl	*82*		*53 - 126*	*10/28/24 14:16*	*10/29/24 19:56*	*1*
2-Fluorophenol	*63*		*24 - 120*	*10/28/24 14:16*	*10/29/24 19:56*	*1*
Nitrobenzene-d5	*91*		*29 - 129*	*10/28/24 14:16*	*10/29/24 19:56*	*1*
p-Terphenyl-d14	*79*		*33 - 132*	*10/28/24 14:16*	*10/29/24 19:56*	*1*
Phenol-d5	*46*		*10 - 120*	*10/28/24 14:16*	*10/29/24 19:56*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00040	0.000084	mg/L		10/30/24 12:00	10/30/24 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.18**		0.020	0.0090	mg/L			10/31/24 10:07	1
Cyanide, Total (SW846 9012B)	**0.12**		0.010	0.0041	mg/L			10/29/24 13:52	1

Client Sample ID: MW-BCP-11B-10242024

Lab Sample ID: 480-224869-6

Date Collected: 10/24/24 01:00

Matrix: Water

Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.047**		0.020	0.0090	mg/L			10/31/24 10:09	1

Client Sample ID: MW-BCP-12A-10242024

Lab Sample ID: 480-224869-7

Date Collected: 10/24/24 03:15

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 06:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 06:23	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 06:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 06:23	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 06:23	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 06:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 06:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 06:23	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 06:23	1

Client Sample ID: MW-BCP-12A-10242024

Date Collected: 10/24/24 03:15
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-7

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 06:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 06:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 06:23	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 06:23	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 06:23	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 06:23	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 06:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 06:23	1
Acetone	ND		10	3.0	ug/L			10/31/24 06:23	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 06:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 06:23	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 06:23	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 06:23	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 06:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 06:23	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 06:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 06:23	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 06:23	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 06:23	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 06:23	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 06:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 06:23	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 06:23	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 06:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 06:23	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 06:23	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 06:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/24 06:23	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 06:23	1
Methylene Chloride	**0.49**	**J**	1.0	0.44	ug/L			10/31/24 06:23	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 06:23	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 06:23	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 06:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 06:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 06:23	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 06:23	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 06:23	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 06:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*10/31/24 06:23*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/31/24 06:23*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*10/31/24 06:23*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*10/31/24 06:23*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		10/28/24 14:16	10/29/24 20:23	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/28/24 14:16	10/29/24 20:23	1

Client Sample ID: MW-BCP-12A-10242024

Date Collected: 10/24/24 03:15
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-7

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 20:23	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/28/24 14:16	10/29/24 20:23	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 20:23	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/28/24 14:16	10/29/24 20:23	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 20:23	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 20:23	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 20:23	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 20:23	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/28/24 14:16	10/29/24 20:23	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		10/28/24 14:16	10/29/24 20:23	1
2-Methylphenol	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 20:23	1
2-Nitroaniline	ND		10	0.42	ug/L		10/28/24 14:16	10/29/24 20:23	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 20:23	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 20:23	1
3-Nitroaniline	ND		10	0.48	ug/L		10/28/24 14:16	10/29/24 20:23	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Methylphenol	ND		10	0.36	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Nitroaniline	ND		10	0.25	ug/L		10/28/24 14:16	10/29/24 20:23	1
4-Nitrophenol	ND	*+	10	1.5	ug/L		10/28/24 14:16	10/29/24 20:23	1
Acenaphthene	**0.46**	**J**	5.0	0.41	ug/L		10/28/24 14:16	10/29/24 20:23	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/28/24 14:16	10/29/24 20:23	1
Acetophenone	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 20:23	1
Anthracene	**0.40**	**J**	5.0	0.28	ug/L		10/28/24 14:16	10/29/24 20:23	1
Atrazine	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 20:23	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/28/24 14:16	10/29/24 20:23	1
Benzo(a)anthracene	**0.68**	**J**	5.0	0.36	ug/L		10/28/24 14:16	10/29/24 20:23	1
Benzo(a)pyrene	**0.78**	**J**	5.0	0.47	ug/L		10/28/24 14:16	10/29/24 20:23	1
Benzo(b)fluoranthene	**0.86**	**J**	5.0	0.34	ug/L		10/28/24 14:16	10/29/24 20:23	1
Benzo(g,h,i)perylene	**0.51**	**J**	5.0	0.35	ug/L		10/28/24 14:16	10/29/24 20:23	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/28/24 14:16	10/29/24 20:23	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 20:23	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 20:23	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 20:23	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/28/24 14:16	10/29/24 20:23	1
Caprolactam	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 20:23	1
Carbazole	ND		5.0	0.30	ug/L		10/28/24 14:16	10/29/24 20:23	1
Chrysene	**0.75**	**J**	5.0	0.33	ug/L		10/28/24 14:16	10/29/24 20:23	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/28/24 14:16	10/29/24 20:23	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 20:23	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/28/24 14:16	10/29/24 20:23	1
Dibenzofuran	ND		10	0.51	ug/L		10/28/24 14:16	10/29/24 20:23	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/28/24 14:16	10/29/24 20:23	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 20:23	1
Fluoranthene	**1.7**	**J**	5.0	0.40	ug/L		10/28/24 14:16	10/29/24 20:23	1
Fluorene	**0.64**	**J**	5.0	0.36	ug/L		10/28/24 14:16	10/29/24 20:23	1

Client Sample ID: MW-BCP-12A-10242024

Lab Sample ID: 480-224869-7

Date Collected: 10/24/24 03:15
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 20:23	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/28/24 14:16	10/29/24 20:23	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 20:23	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 20:23	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 20:23	1
Isophorone	ND		5.0	0.43	ug/L		10/28/24 14:16	10/29/24 20:23	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 20:23	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 20:23	1
Naphthalene	ND		5.0	0.76	ug/L		10/28/24 14:16	10/29/24 20:23	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/28/24 14:16	10/29/24 20:23	1
Pentachlorophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 20:23	1
Phenanthrene	**1.2**	**J**	5.0	0.44	ug/L		10/28/24 14:16	10/29/24 20:23	1
Phenol	ND		5.0	0.39	ug/L		10/28/24 14:16	10/29/24 20:23	1
Pyrene	**1.3**	**J**	5.0	0.34	ug/L		10/28/24 14:16	10/29/24 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*25 - 144*	*10/28/24 14:16*	*10/29/24 20:23*	*1*
2-Fluorobiphenyl	*78*		*53 - 126*	*10/28/24 14:16*	*10/29/24 20:23*	*1*
2-Fluorophenol	*61*		*24 - 120*	*10/28/24 14:16*	*10/29/24 20:23*	*1*
Nitrobenzene-d5	*84*		*29 - 129*	*10/28/24 14:16*	*10/29/24 20:23*	*1*
p-Terphenyl-d14	*69*		*33 - 132*	*10/28/24 14:16*	*10/29/24 20:23*	*1*
Phenol-d5	*43*		*10 - 120*	*10/28/24 14:16*	*10/29/24 20:23*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00043**		0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.073**		0.020	0.0090	mg/L			10/31/24 10:09	1
Cyanide, Total (SW846 9012B)	**1.2**	**B**	0.050	0.021	mg/L			10/30/24 09:04	5

Client Sample ID: MW-BCP-12B-10242024

Lab Sample ID: 480-224869-8

Date Collected: 10/24/24 03:10
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/31/24 10:09	1

Client Sample ID: MW-BCP-13A-10252024

Lab Sample ID: 480-224869-9

Date Collected: 10/25/24 08:50
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			10/31/24 06:46	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			10/31/24 06:46	100
1,1,2-Trichloroethane	ND		100	23	ug/L			10/31/24 06:46	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			10/31/24 06:46	100
1,1-Dichloroethane	ND		100	38	ug/L			10/31/24 06:46	100

Client Sample ID: MW-BCP-13A-10252024

Lab Sample ID: 480-224869-9

Date Collected: 10/25/24 08:50

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		100	29	ug/L			10/31/24 06:46	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			10/31/24 06:46	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			10/31/24 06:46	100
1,2-Dibromoethane	ND		100	73	ug/L			10/31/24 06:46	100
1,2-Dichlorobenzene	ND		100	79	ug/L			10/31/24 06:46	100
1,2-Dichloroethane	ND		100	21	ug/L			10/31/24 06:46	100
1,2-Dichloropropane	ND		100	72	ug/L			10/31/24 06:46	100
1,3-Dichlorobenzene	ND		100	78	ug/L			10/31/24 06:46	100
1,4-Dichlorobenzene	ND		100	84	ug/L			10/31/24 06:46	100
2-Hexanone	ND		500	120	ug/L			10/31/24 06:46	100
2-Butanone (MEK)	ND		1000	130	ug/L			10/31/24 06:46	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			10/31/24 06:46	100
Acetone	ND		1000	300	ug/L			10/31/24 06:46	100
Benzene	**2600**		100	41	ug/L			10/31/24 06:46	100
Bromodichloromethane	ND		100	39	ug/L			10/31/24 06:46	100
Bromoform	ND		100	26	ug/L			10/31/24 06:46	100
Bromomethane	ND		100	69	ug/L			10/31/24 06:46	100
Carbon disulfide	ND		100	19	ug/L			10/31/24 06:46	100
Carbon tetrachloride	ND		100	27	ug/L			10/31/24 06:46	100
Chlorobenzene	ND		100	75	ug/L			10/31/24 06:46	100
Dibromochloromethane	ND		100	32	ug/L			10/31/24 06:46	100
Chloroethane	ND		100	32	ug/L			10/31/24 06:46	100
Chloroform	ND		100	34	ug/L			10/31/24 06:46	100
Chloromethane	ND		100	35	ug/L			10/31/24 06:46	100
cis-1,2-Dichloroethene	ND		100	81	ug/L			10/31/24 06:46	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			10/31/24 06:46	100
Cyclohexane	ND		100	18	ug/L			10/31/24 06:46	100
Dichlorodifluoromethane	ND		100	68	ug/L			10/31/24 06:46	100
Ethylbenzene	ND		100	74	ug/L			10/31/24 06:46	100
Isopropylbenzene	ND		100	79	ug/L			10/31/24 06:46	100
Methyl acetate	ND		250	130	ug/L			10/31/24 06:46	100
Methyl tert-butyl ether	ND		100	16	ug/L			10/31/24 06:46	100
Methylcyclohexane	ND		100	16	ug/L			10/31/24 06:46	100
Methylene Chloride	**87**	**J**	100	44	ug/L			10/31/24 06:46	100
Styrene	ND		100	73	ug/L			10/31/24 06:46	100
Tetrachloroethene	ND		100	36	ug/L			10/31/24 06:46	100
Toluene	**940**		100	51	ug/L			10/31/24 06:46	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			10/31/24 06:46	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			10/31/24 06:46	100
Trichloroethene	ND		100	46	ug/L			10/31/24 06:46	100
Trichlorofluoromethane	ND		100	88	ug/L			10/31/24 06:46	100
Vinyl chloride	ND		100	90	ug/L			10/31/24 06:46	100
Xylenes, Total	**520**		200	66	ug/L			10/31/24 06:46	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*10/31/24 06:46*	*100*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/31/24 06:46*	*100*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*10/31/24 06:46*	*100*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*10/31/24 06:46*	*100*

Client Sample ID: MW-BCP-13A-10252024

Date Collected: 10/25/24 08:50
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-9

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2500	330	ug/L		10/28/24 14:16	10/30/24 11:40	500
bis (2-chloroisopropyl) ether	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,4,5-Trichlorophenol	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,4,6-Trichlorophenol	ND		2500	310	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,4-Dichlorophenol	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,4-Dimethylphenol	**8800**		2500	250	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,4-Dinitrophenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,4-Dinitrotoluene	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 11:40	500
2,6-Dinitrotoluene	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:40	500
2-Chloronaphthalene	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:40	500
2-Chlorophenol	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 11:40	500
2-Methylnaphthalene	**570**	**J**	2500	300	ug/L		10/28/24 14:16	10/30/24 11:40	500
2-Methylphenol	**12000**		2500	200	ug/L		10/28/24 14:16	10/30/24 11:40	500
2-Nitroaniline	ND		5000	210	ug/L		10/28/24 14:16	10/30/24 11:40	500
2-Nitrophenol	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:40	500
3,3'-Dichlorobenzidine	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:40	500
3-Nitroaniline	ND		5000	240	ug/L		10/28/24 14:16	10/30/24 11:40	500
4,6-Dinitro-2-methylphenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Bromophenyl phenyl ether	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Chloro-3-methylphenol	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Chloroaniline	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Chlorophenyl phenyl ether	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Methylphenol	**28000**		5000	180	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Nitroaniline	ND		5000	130	ug/L		10/28/24 14:16	10/30/24 11:40	500
4-Nitrophenol	ND	*+	5000	760	ug/L		10/28/24 14:16	10/30/24 11:40	500
Acenaphthene	ND		2500	210	ug/L		10/28/24 14:16	10/30/24 11:40	500
Acenaphthylene	**280**	**J**	2500	190	ug/L		10/28/24 14:16	10/30/24 11:40	500
Acetophenone	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 11:40	500
Anthracene	ND		2500	140	ug/L		10/28/24 14:16	10/30/24 11:40	500
Atrazine	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 11:40	500
Benzaldehyde	ND		2500	130	ug/L		10/28/24 14:16	10/30/24 11:40	500
Benzo(a)anthracene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:40	500
Benzo(a)pyrene	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:40	500
Benzo(b)fluoranthene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 11:40	500
Benzo(g,h,i)perylene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:40	500
Benzo(k)fluoranthene	ND		2500	370	ug/L		10/28/24 14:16	10/30/24 11:40	500
Bis(2-chloroethoxy)methane	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:40	500
Bis(2-chloroethyl)ether	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:40	500
Bis(2-ethylhexyl) phthalate	ND		2500	1100	ug/L		10/28/24 14:16	10/30/24 11:40	500
Butyl benzyl phthalate	ND		2500	500	ug/L		10/28/24 14:16	10/30/24 11:40	500
Caprolactam	ND		2500	1100	ug/L		10/28/24 14:16	10/30/24 11:40	500
Carbazole	**170**	**J**	2500	150	ug/L		10/28/24 14:16	10/30/24 11:40	500
Chrysene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 11:40	500
Di-n-butyl phthalate	ND		2500	160	ug/L		10/28/24 14:16	10/30/24 11:40	500
Di-n-octyl phthalate	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:40	500
Dibenz(a,h)anthracene	ND		2500	210	ug/L		10/28/24 14:16	10/30/24 11:40	500
Dibenzofuran	ND		5000	260	ug/L		10/28/24 14:16	10/30/24 11:40	500
Diethyl phthalate	ND		2500	110	ug/L		10/28/24 14:16	10/30/24 11:40	500
Dimethyl phthalate	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:40	500

Client Sample ID: MW-BCP-13A-10252024

Lab Sample ID: 480-224869-9

Date Collected: 10/25/24 08:50
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 11:40	500
Fluorene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 11:40	500
Hexachlorobenzene	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:40	500
Hexachlorobutadiene	ND		2500	340	ug/L		10/28/24 14:16	10/30/24 11:40	500
Hexachlorocyclopentadiene	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 11:40	500
Hexachloroethane	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 11:40	500
Indeno(1,2,3-cd)pyrene	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 11:40	500
Isophorone	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 11:40	500
N-Nitrosodi-n-propylamine	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 11:40	500
N-Nitrosodiphenylamine	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 11:40	500
Naphthalene	**11000**		2500	380	ug/L		10/28/24 14:16	10/30/24 11:40	500
Nitrobenzene	ND		2500	150	ug/L		10/28/24 14:16	10/30/24 11:40	500
Pentachlorophenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 11:40	500
Phenanthrene	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 11:40	500
Phenol	**4800**		2500	200	ug/L		10/28/24 14:16	10/30/24 11:40	500
Pyrene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 11:40	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*S1-*	*25 - 144*	*10/28/24 14:16*	*10/30/24 11:40*	*500*
2-Fluorobiphenyl	*74*		*53 - 126*	*10/28/24 14:16*	*10/30/24 11:40*	*500*
2-Fluorophenol	*0*	*S1-*	*24 - 120*	*10/28/24 14:16*	*10/30/24 11:40*	*500*
Nitrobenzene-d5	*0*	*S1-*	*29 - 129*	*10/28/24 14:16*	*10/30/24 11:40*	*500*
p-Terphenyl-d14	*0*	*S1-*	*33 - 132*	*10/28/24 14:16*	*10/30/24 11:40*	*500*
Phenol-d5	*0*	*S1-*	*10 - 120*	*10/28/24 14:16*	*10/30/24 11:40*	*500*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00060	0.00013	mg/L		10/30/24 12:00	10/30/24 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**7.8**		0.10	0.045	mg/L			10/31/24 10:11	5
Cyanide, Total (SW846 9012B)	**0.62**	**B**	0.020	0.0082	mg/L			10/30/24 09:08	2

Client Sample ID: MW-BCP-13B-10252024

Lab Sample ID: 480-224869-10

Date Collected: 10/25/24 09:10
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			10/31/24 07:08	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			10/31/24 07:08	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			10/31/24 07:08	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			10/31/24 07:08	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			10/31/24 07:08	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			10/31/24 07:08	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			10/31/24 07:08	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			10/31/24 07:08	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			10/31/24 07:08	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			10/31/24 07:08	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			10/31/24 07:08	2

Client Sample ID: MW-BCP-13B-10252024

Date Collected: 10/25/24 09:10
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-10

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		2.0	1.4	ug/L			10/31/24 07:08	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			10/31/24 07:08	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			10/31/24 07:08	2
2-Hexanone	ND		10	2.5	ug/L			10/31/24 07:08	2
2-Butanone (MEK)	ND		20	2.6	ug/L			10/31/24 07:08	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			10/31/24 07:08	2
Acetone	**6.6**	**J**	20	6.0	ug/L			10/31/24 07:08	2
Benzene	**53**		2.0	0.82	ug/L			10/31/24 07:08	2
Bromodichloromethane	ND		2.0	0.78	ug/L			10/31/24 07:08	2
Bromoform	ND		2.0	0.52	ug/L			10/31/24 07:08	2
Bromomethane	ND		2.0	1.4	ug/L			10/31/24 07:08	2
Carbon disulfide	ND		2.0	0.38	ug/L			10/31/24 07:08	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			10/31/24 07:08	2
Chlorobenzene	ND		2.0	1.5	ug/L			10/31/24 07:08	2
Dibromochloromethane	ND		2.0	0.64	ug/L			10/31/24 07:08	2
Chloroethane	ND		2.0	0.64	ug/L			10/31/24 07:08	2
Chloroform	ND		2.0	0.68	ug/L			10/31/24 07:08	2
Chloromethane	ND		2.0	0.70	ug/L			10/31/24 07:08	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			10/31/24 07:08	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			10/31/24 07:08	2
Cyclohexane	ND		2.0	0.36	ug/L			10/31/24 07:08	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			10/31/24 07:08	2
Ethylbenzene	**11**		2.0	1.5	ug/L			10/31/24 07:08	2
Isopropylbenzene	ND		2.0	1.6	ug/L			10/31/24 07:08	2
Methyl acetate	ND		5.0	2.6	ug/L			10/31/24 07:08	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			10/31/24 07:08	2
Methylcyclohexane	ND		2.0	0.32	ug/L			10/31/24 07:08	2
Methylene Chloride	**2.6**		2.0	0.88	ug/L			10/31/24 07:08	2
Styrene	**3.6**		2.0	1.5	ug/L			10/31/24 07:08	2
Tetrachloroethene	ND		2.0	0.72	ug/L			10/31/24 07:08	2
Toluene	**39**		2.0	1.0	ug/L			10/31/24 07:08	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			10/31/24 07:08	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			10/31/24 07:08	2
Trichloroethene	ND		2.0	0.92	ug/L			10/31/24 07:08	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			10/31/24 07:08	2
Vinyl chloride	ND		2.0	1.8	ug/L			10/31/24 07:08	2
Xylenes, Total	**100**		4.0	1.3	ug/L			10/31/24 07:08	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*10/31/24 07:08*	*2*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/31/24 07:08*	*2*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*10/31/24 07:08*	*2*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*10/31/24 07:08*	*2*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**60**		25	3.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		10/28/24 14:16	10/29/24 21:18	5

Client Sample ID: MW-BCP-13B-10252024

Date Collected: 10/25/24 09:10
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-10

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		25	2.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
2,4-Dimethylphenol	**10**	**J**	25	2.5	ug/L		10/28/24 14:16	10/29/24 21:18	5
2,4-Dinitrophenol	ND		50	11	ug/L		10/28/24 14:16	10/29/24 21:18	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		10/28/24 14:16	10/29/24 21:18	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
2-Chloronaphthalene	ND		25	2.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
2-Chlorophenol	ND		25	2.7	ug/L		10/28/24 14:16	10/29/24 21:18	5
2-Methylnaphthalene	**66**		25	3.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
2-Methylphenol	**11**	**J**	25	2.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
2-Nitroaniline	ND		50	2.1	ug/L		10/28/24 14:16	10/29/24 21:18	5
2-Nitrophenol	ND		25	2.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
3-Nitroaniline	ND		50	2.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Chloroaniline	ND		25	3.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Methylphenol	**21**	**J**	50	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Nitroaniline	ND		50	1.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
4-Nitrophenol	ND	*+	50	7.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
Acenaphthene	**24**	**J**	25	2.1	ug/L		10/28/24 14:16	10/29/24 21:18	5
Acenaphthylene	**250**		25	1.9	ug/L		10/28/24 14:16	10/29/24 21:18	5
Acetophenone	ND		25	2.7	ug/L		10/28/24 14:16	10/29/24 21:18	5
Anthracene	**29**		25	1.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
Atrazine	ND		25	2.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
Benzaldehyde	ND		25	1.3	ug/L		10/28/24 14:16	10/29/24 21:18	5
Benzo(a)anthracene	**7.9**	**J**	25	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
Benzo(a)pyrene	**5.4**	**J**	25	2.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
Benzo(b)fluoranthene	**6.1**	**J**	25	1.7	ug/L		10/28/24 14:16	10/29/24 21:18	5
Benzo(g,h,i)perylene	**2.6**	**J**	25	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		10/28/24 14:16	10/29/24 21:18	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		10/28/24 14:16	10/29/24 21:18	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
Caprolactam	ND		25	11	ug/L		10/28/24 14:16	10/29/24 21:18	5
Carbazole	**100**		25	1.5	ug/L		10/28/24 14:16	10/29/24 21:18	5
Chrysene	**6.7**	**J**	25	1.7	ug/L		10/28/24 14:16	10/29/24 21:18	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		10/28/24 14:16	10/29/24 21:18	5
Dibenzofuran	**130**		50	2.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
Diethyl phthalate	ND		25	1.1	ug/L		10/28/24 14:16	10/29/24 21:18	5
Dimethyl phthalate	ND		25	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
Fluoranthene	**41**		25	2.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
Fluorene	**130**		25	1.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
Hexachlorobenzene	ND		25	2.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
Hexachlorobutadiene	ND		25	3.4	ug/L		10/28/24 14:16	10/29/24 21:18	5

Client Sample ID: MW-BCP-13B-10252024

Date Collected: 10/25/24 09:10
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-10

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
Hexachloroethane	ND		25	3.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
Indeno(1,2,3-cd)pyrene	**2.6**	**J**	25	2.4	ug/L		10/28/24 14:16	10/29/24 21:18	5
Isophorone	ND		25	2.2	ug/L		10/28/24 14:16	10/29/24 21:18	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		10/28/24 14:16	10/29/24 21:18	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		10/28/24 14:16	10/29/24 21:18	5
Naphthalene	**3000**	**E**	25	3.8	ug/L		10/28/24 14:16	10/29/24 21:18	5
Nitrobenzene	ND		25	1.5	ug/L		10/28/24 14:16	10/29/24 21:18	5
Pentachlorophenol	ND		50	11	ug/L		10/28/24 14:16	10/29/24 21:18	5
Phenanthrene	**180**		25	2.2	ug/L		10/28/24 14:16	10/29/24 21:18	5
Phenol	ND		25	2.0	ug/L		10/28/24 14:16	10/29/24 21:18	5
Pyrene	**27**		25	1.7	ug/L		10/28/24 14:16	10/29/24 21:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*25 - 144*	*10/28/24 14:16*	*10/29/24 21:18*	*5*
2-Fluorobiphenyl	*78*		*53 - 126*	*10/28/24 14:16*	*10/29/24 21:18*	*5*
2-Fluorophenol	*58*		*24 - 120*	*10/28/24 14:16*	*10/29/24 21:18*	*5*
Nitrobenzene-d5	*61*		*29 - 129*	*10/28/24 14:16*	*10/29/24 21:18*	*5*
p-Terphenyl-d14	*51*		*33 - 132*	*10/28/24 14:16*	*10/29/24 21:18*	*5*
Phenol-d5	*48*		*10 - 120*	*10/28/24 14:16*	*10/29/24 21:18*	*5*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2500	330	ug/L		10/28/24 14:16	10/30/24 15:46	500
bis (2-chloroisopropyl) ether	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,4,5-Trichlorophenol	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,4,6-Trichlorophenol	ND		2500	310	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,4-Dichlorophenol	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,4-Dimethylphenol	ND		2500	250	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,4-Dinitrophenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,4-Dinitrotoluene	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 15:46	500
2,6-Dinitrotoluene	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 15:46	500
2-Chloronaphthalene	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 15:46	500
2-Chlorophenol	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 15:46	500
2-Methylnaphthalene	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 15:46	500
2-Methylphenol	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 15:46	500
2-Nitroaniline	ND		5000	210	ug/L		10/28/24 14:16	10/30/24 15:46	500
2-Nitrophenol	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 15:46	500
3,3'-Dichlorobenzidine	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 15:46	500
3-Nitroaniline	ND		5000	240	ug/L		10/28/24 14:16	10/30/24 15:46	500
4,6-Dinitro-2-methylphenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Bromophenyl phenyl ether	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Chloro-3-methylphenol	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Chloroaniline	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Chlorophenyl phenyl ether	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Methylphenol	ND		5000	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Nitroaniline	ND		5000	130	ug/L		10/28/24 14:16	10/30/24 15:46	500
4-Nitrophenol	ND	*+	5000	760	ug/L		10/28/24 14:16	10/30/24 15:46	500
Acenaphthene	ND		2500	210	ug/L		10/28/24 14:16	10/30/24 15:46	500
Acenaphthylene	**210**	**J**	2500	190	ug/L		10/28/24 14:16	10/30/24 15:46	500

Client Sample ID: MW-BCP-13B-10252024

Date Collected: 10/25/24 09:10
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-10

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 15:46	500
Anthracene	ND		2500	140	ug/L		10/28/24 14:16	10/30/24 15:46	500
Atrazine	ND		2500	230	ug/L		10/28/24 14:16	10/30/24 15:46	500
Benzaldehyde	ND		2500	130	ug/L		10/28/24 14:16	10/30/24 15:46	500
Benzo(a)anthracene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
Benzo(a)pyrene	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 15:46	500
Benzo(b)fluoranthene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 15:46	500
Benzo(g,h,i)perylene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
Benzo(k)fluoranthene	ND		2500	370	ug/L		10/28/24 14:16	10/30/24 15:46	500
Bis(2-chloroethoxy)methane	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
Bis(2-chloroethyl)ether	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 15:46	500
Bis(2-ethylhexyl) phthalate	ND		2500	1100	ug/L		10/28/24 14:16	10/30/24 15:46	500
Butyl benzyl phthalate	ND		2500	500	ug/L		10/28/24 14:16	10/30/24 15:46	500
Caprolactam	ND		2500	1100	ug/L		10/28/24 14:16	10/30/24 15:46	500
Carbazole	ND		2500	150	ug/L		10/28/24 14:16	10/30/24 15:46	500
Chrysene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 15:46	500
Di-n-butyl phthalate	ND		2500	160	ug/L		10/28/24 14:16	10/30/24 15:46	500
Di-n-octyl phthalate	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 15:46	500
Dibenz(a,h)anthracene	ND		2500	210	ug/L		10/28/24 14:16	10/30/24 15:46	500
Dibenzofuran	ND		5000	260	ug/L		10/28/24 14:16	10/30/24 15:46	500
Diethyl phthalate	ND		2500	110	ug/L		10/28/24 14:16	10/30/24 15:46	500
Dimethyl phthalate	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
Fluoranthene	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 15:46	500
Fluorene	ND		2500	180	ug/L		10/28/24 14:16	10/30/24 15:46	500
Hexachlorobenzene	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 15:46	500
Hexachlorobutadiene	ND		2500	340	ug/L		10/28/24 14:16	10/30/24 15:46	500
Hexachlorocyclopentadiene	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 15:46	500
Hexachloroethane	ND		2500	300	ug/L		10/28/24 14:16	10/30/24 15:46	500
Indeno(1,2,3-cd)pyrene	ND		2500	240	ug/L		10/28/24 14:16	10/30/24 15:46	500
Isophorone	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 15:46	500
N-Nitrosodi-n-propylamine	ND		2500	270	ug/L		10/28/24 14:16	10/30/24 15:46	500
N-Nitrosodiphenylamine	ND		2500	260	ug/L		10/28/24 14:16	10/30/24 15:46	500
Naphthalene	**13000**		2500	380	ug/L		10/28/24 14:16	10/30/24 15:46	500
Nitrobenzene	ND		2500	150	ug/L		10/28/24 14:16	10/30/24 15:46	500
Pentachlorophenol	ND		5000	1100	ug/L		10/28/24 14:16	10/30/24 15:46	500
Phenanthrene	ND		2500	220	ug/L		10/28/24 14:16	10/30/24 15:46	500
Phenol	ND		2500	200	ug/L		10/28/24 14:16	10/30/24 15:46	500
Pyrene	ND		2500	170	ug/L		10/28/24 14:16	10/30/24 15:46	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*S1-*	*25 - 144*	*10/28/24 14:16*	*10/30/24 15:46*	*500*
2-Fluorobiphenyl	*0*	*S1-*	*53 - 126*	*10/28/24 14:16*	*10/30/24 15:46*	*500*
2-Fluorophenol	*0*	*S1-*	*24 - 120*	*10/28/24 14:16*	*10/30/24 15:46*	*500*
Nitrobenzene-d5	*0*	*S1-*	*29 - 129*	*10/28/24 14:16*	*10/30/24 15:46*	*500*
p-Terphenyl-d14	*0*	*S1-*	*33 - 132*	*10/28/24 14:16*	*10/30/24 15:46*	*500*
Phenol-d5	*0*	*S1-*	*10 - 120*	*10/28/24 14:16*	*10/30/24 15:46*	*500*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00099**		0.00040	0.000084	mg/L		10/30/24 12:00	10/30/24 15:08	1

Client Sample ID: MW-BCP-13B-10252024

Lab Sample ID: 480-224869-10

Date Collected: 10/25/24 09:10
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.24**	**F1**	0.020	0.0090	mg/L			10/30/24 22:58	1
Cyanide, Total (SW846 9012B)	**0.28**		0.010	0.0041	mg/L			10/29/24 14:02	1

Client Sample ID: MW-BCP-24A-10252024

Lab Sample ID: 480-224869-11

Date Collected: 10/25/24 09:35
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 07:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 07:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 07:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 07:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 07:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 07:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 07:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 07:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 07:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 07:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 07:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 07:31	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 07:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 07:31	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 07:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 07:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 07:31	1
Acetone	ND		10	3.0	ug/L			10/31/24 07:31	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 07:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 07:31	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 07:31	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 07:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 07:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 07:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 07:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 07:31	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 07:31	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 07:31	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 07:31	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 07:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 07:31	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 07:31	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 07:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 07:31	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 07:31	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 07:31	1
Methyl tert-butyl ether	**0.16**	**J**	1.0	0.16	ug/L			10/31/24 07:31	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 07:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/31/24 07:31	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 07:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 07:31	1

Client Sample ID: MW-BCP-24A-10252024

Date Collected: 10/25/24 09:35
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-11

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.51	ug/L			10/31/24 07:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 07:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 07:31	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 07:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 07:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 07:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 07:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*10/31/24 07:31*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/31/24 07:31*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*10/31/24 07:31*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*10/31/24 07:31*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		10/28/24 14:16	10/29/24 21:45	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 21:45	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 21:45	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 21:45	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/28/24 14:16	10/29/24 21:45	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		10/28/24 14:16	10/29/24 21:45	1
2-Methylphenol	**0.86**	**J**	5.0	0.40	ug/L		10/28/24 14:16	10/29/24 21:45	1
2-Nitroaniline	ND		10	0.42	ug/L		10/28/24 14:16	10/29/24 21:45	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 21:45	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 21:45	1
3-Nitroaniline	ND		10	0.48	ug/L		10/28/24 14:16	10/29/24 21:45	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Methylphenol	**1.5**	**J**	10	0.36	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Nitroaniline	ND		10	0.25	ug/L		10/28/24 14:16	10/29/24 21:45	1
4-Nitrophenol	ND	*+	10	1.5	ug/L		10/28/24 14:16	10/29/24 21:45	1
Acenaphthene	ND		5.0	0.41	ug/L		10/28/24 14:16	10/29/24 21:45	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/28/24 14:16	10/29/24 21:45	1
Acetophenone	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 21:45	1
Anthracene	ND		5.0	0.28	ug/L		10/28/24 14:16	10/29/24 21:45	1
Atrazine	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 21:45	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/28/24 14:16	10/29/24 21:45	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 21:45	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 21:45	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		10/28/24 14:16	10/29/24 21:45	1

Client Sample ID: MW-BCP-24A-10252024

Date Collected: 10/25/24 09:35
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-11

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 21:45	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/28/24 14:16	10/29/24 21:45	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 21:45	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 21:45	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 21:45	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/28/24 14:16	10/29/24 21:45	1
Caprolactam	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 21:45	1
Carbazole	ND		5.0	0.30	ug/L		10/28/24 14:16	10/29/24 21:45	1
Chrysene	ND		5.0	0.33	ug/L		10/28/24 14:16	10/29/24 21:45	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/28/24 14:16	10/29/24 21:45	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 21:45	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/28/24 14:16	10/29/24 21:45	1
Dibenzofuran	ND		10	0.51	ug/L		10/28/24 14:16	10/29/24 21:45	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/28/24 14:16	10/29/24 21:45	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 21:45	1
Fluoranthene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 21:45	1
Fluorene	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 21:45	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 21:45	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/28/24 14:16	10/29/24 21:45	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 21:45	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 21:45	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 21:45	1
Isophorone	ND		5.0	0.43	ug/L		10/28/24 14:16	10/29/24 21:45	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 21:45	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 21:45	1
Naphthalene	**3.8**	**J**	5.0	0.76	ug/L		10/28/24 14:16	10/29/24 21:45	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/28/24 14:16	10/29/24 21:45	1
Pentachlorophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 21:45	1
Phenanthrene	ND		5.0	0.44	ug/L		10/28/24 14:16	10/29/24 21:45	1
Phenol	**0.49**	**J**	5.0	0.39	ug/L		10/28/24 14:16	10/29/24 21:45	1
Pyrene	ND		5.0	0.34	ug/L		10/28/24 14:16	10/29/24 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*25 - 144*	*10/28/24 14:16*	*10/29/24 21:45*	*1*
2-Fluorobiphenyl	*94*		*53 - 126*	*10/28/24 14:16*	*10/29/24 21:45*	*1*
2-Fluorophenol	*73*		*24 - 120*	*10/28/24 14:16*	*10/29/24 21:45*	*1*
Nitrobenzene-d5	*104*		*29 - 129*	*10/28/24 14:16*	*10/29/24 21:45*	*1*
p-Terphenyl-d14	*83*		*33 - 132*	*10/28/24 14:16*	*10/29/24 21:45*	*1*
Phenol-d5	*55*		*10 - 120*	*10/28/24 14:16*	*10/29/24 21:45*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00061**		0.00040	0.000084	mg/L		10/30/24 12:00	10/30/24 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**1.0**		0.020	0.0090	mg/L			10/30/24 22:59	1
Cyanide, Total (SW846 9012B)	**0.12**		0.010	0.0041	mg/L			10/29/24 14:05	1

Client Sample ID: MW-BCP-25A-10252024

Date Collected: 10/25/24 02:05
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-12

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 07:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 07:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 07:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 07:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 07:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 07:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 07:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 07:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 07:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 07:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 07:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 07:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 07:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 07:54	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 07:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 07:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 07:54	1
Acetone	ND		10	3.0	ug/L			10/31/24 07:54	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 07:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 07:54	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 07:54	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 07:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 07:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 07:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 07:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 07:54	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 07:54	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 07:54	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 07:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 07:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 07:54	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 07:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 07:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 07:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 07:54	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 07:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/24 07:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 07:54	1
Methylene Chloride	**0.46**	**J**	1.0	0.44	ug/L			10/31/24 07:54	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 07:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 07:54	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 07:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 07:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 07:54	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 07:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 07:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 07:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 07:54	1

Client Sample ID: MW-BCP-25A-10252024

Date Collected: 10/25/24 02:05
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-12

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*10/31/24 07:54*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/31/24 07:54*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*10/31/24 07:54*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*10/31/24 07:54*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.2	0.68	ug/L		10/28/24 14:16	10/29/24 22:13	1
bis (2-chloroisopropyl) ether	ND		5.2	0.54	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,4,5-Trichlorophenol	ND		5.2	0.50	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,4,6-Trichlorophenol	ND		5.2	0.64	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,4-Dichlorophenol	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,4-Dinitrophenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,4-Dinitrotoluene	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 22:13	1
2,6-Dinitrotoluene	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 22:13	1
2-Chloronaphthalene	ND		5.2	0.48	ug/L		10/28/24 14:16	10/29/24 22:13	1
2-Chlorophenol	ND		5.2	0.55	ug/L		10/28/24 14:16	10/29/24 22:13	1
2-Methylnaphthalene	ND		5.2	0.63	ug/L		10/28/24 14:16	10/29/24 22:13	1
2-Methylphenol	**0.42**	**J**	5.2	0.42	ug/L		10/28/24 14:16	10/29/24 22:13	1
2-Nitroaniline	ND		10	0.44	ug/L		10/28/24 14:16	10/29/24 22:13	1
2-Nitrophenol	ND		5.2	0.50	ug/L		10/28/24 14:16	10/29/24 22:13	1
3,3'-Dichlorobenzidine	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 22:13	1
3-Nitroaniline	ND		10	0.50	ug/L		10/28/24 14:16	10/29/24 22:13	1
4,6-Dinitro-2-methylphenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Bromophenyl phenyl ether	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Chloro-3-methylphenol	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Chloroaniline	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Chlorophenyl phenyl ether	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Methylphenol	**0.61**	**J**	10	0.38	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Nitroaniline	ND		10	0.26	ug/L		10/28/24 14:16	10/29/24 22:13	1
4-Nitrophenol	ND	*+	10	1.6	ug/L		10/28/24 14:16	10/29/24 22:13	1
Acenaphthene	ND		5.2	0.43	ug/L		10/28/24 14:16	10/29/24 22:13	1
Acenaphthylene	ND		5.2	0.40	ug/L		10/28/24 14:16	10/29/24 22:13	1
Acetophenone	ND		5.2	0.56	ug/L		10/28/24 14:16	10/29/24 22:13	1
Anthracene	ND		5.2	0.29	ug/L		10/28/24 14:16	10/29/24 22:13	1
Atrazine	ND		5.2	0.48	ug/L		10/28/24 14:16	10/29/24 22:13	1
Benzaldehyde	ND		5.2	0.28	ug/L		10/28/24 14:16	10/29/24 22:13	1
Benzo(a)anthracene	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 22:13	1
Benzo(a)pyrene	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 22:13	1
Benzo(b)fluoranthene	**0.35**	**J**	5.2	0.35	ug/L		10/28/24 14:16	10/29/24 22:13	1
Benzo(g,h,i)perylene	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 22:13	1
Benzo(k)fluoranthene	ND		5.2	0.76	ug/L		10/28/24 14:16	10/29/24 22:13	1
Bis(2-chloroethoxy)methane	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 22:13	1
Bis(2-chloroethyl)ether	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 22:13	1
Bis(2-ethylhexyl) phthalate	ND		5.2	2.3	ug/L		10/28/24 14:16	10/29/24 22:13	1
Butyl benzyl phthalate	ND		5.2	1.0	ug/L		10/28/24 14:16	10/29/24 22:13	1
Caprolactam	ND		5.2	2.3	ug/L		10/28/24 14:16	10/29/24 22:13	1
Carbazole	ND		5.2	0.31	ug/L		10/28/24 14:16	10/29/24 22:13	1
Chrysene	ND		5.2	0.34	ug/L		10/28/24 14:16	10/29/24 22:13	1

Client Sample ID: MW-BCP-25A-10252024

Lab Sample ID: 480-224869-12

Date Collected: 10/25/24 02:05

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		5.2	0.32	ug/L		10/28/24 14:16	10/29/24 22:13	1
Di-n-octyl phthalate	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 22:13	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		10/28/24 14:16	10/29/24 22:13	1
Dibenzofuran	ND		10	0.53	ug/L		10/28/24 14:16	10/29/24 22:13	1
Diethyl phthalate	ND		5.2	0.23	ug/L		10/28/24 14:16	10/29/24 22:13	1
Dimethyl phthalate	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 22:13	1
Fluoranthene	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 22:13	1
Fluorene	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 22:13	1
Hexachlorobenzene	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 22:13	1
Hexachlorobutadiene	ND		5.2	0.71	ug/L		10/28/24 14:16	10/29/24 22:13	1
Hexachlorocyclopentadiene	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 22:13	1
Hexachloroethane	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 22:13	1
Indeno(1,2,3-cd)pyrene	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 22:13	1
Isophorone	ND		5.2	0.45	ug/L		10/28/24 14:16	10/29/24 22:13	1
N-Nitrosodi-n-propylamine	ND		5.2	0.56	ug/L		10/28/24 14:16	10/29/24 22:13	1
N-Nitrosodiphenylamine	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 22:13	1
Naphthalene	**1.9**	**J**	5.2	0.79	ug/L		10/28/24 14:16	10/29/24 22:13	1
Nitrobenzene	ND		5.2	0.30	ug/L		10/28/24 14:16	10/29/24 22:13	1
Pentachlorophenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 22:13	1
Phenanthrene	ND		5.2	0.46	ug/L		10/28/24 14:16	10/29/24 22:13	1
Phenol	ND		5.2	0.41	ug/L		10/28/24 14:16	10/29/24 22:13	1
Pyrene	ND		5.2	0.35	ug/L		10/28/24 14:16	10/29/24 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*25 - 144*	*10/28/24 14:16*	*10/29/24 22:13*	*1*
2-Fluorobiphenyl	*86*		*53 - 126*	*10/28/24 14:16*	*10/29/24 22:13*	*1*
2-Fluorophenol	*70*		*24 - 120*	*10/28/24 14:16*	*10/29/24 22:13*	*1*
Nitrobenzene-d5	*95*		*29 - 129*	*10/28/24 14:16*	*10/29/24 22:13*	*1*
p-Terphenyl-d14	*69*		*33 - 132*	*10/28/24 14:16*	*10/29/24 22:13*	*1*
Phenol-d5	*53*		*10 - 120*	*10/28/24 14:16*	*10/29/24 22:13*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000050**	**J**	0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**5.1**	**B**	0.10	0.045	mg/L			10/30/24 23:36	5
Cyanide, Total (SW846 9012B)	**1.4**	**B**	0.050	0.021	mg/L			10/30/24 09:11	5

Client Sample ID: MW-BCP-19B-10252024

Lab Sample ID: 480-224869-13

Date Collected: 10/25/24 09:55

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 08:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 08:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 08:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 08:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 08:16	1

Client Sample ID: MW-BCP-19B-10252024

Date Collected: 10/25/24 09:55
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-13

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 08:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 08:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 08:16	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 08:16	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 08:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 08:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 08:16	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 08:16	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 08:16	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 08:16	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 08:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 08:16	1
Acetone	ND		10	3.0	ug/L			10/31/24 08:16	1
Benzene	**3.0**		1.0	0.41	ug/L			10/31/24 08:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 08:16	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 08:16	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 08:16	1
Carbon disulfide	**0.21**	**J**	1.0	0.19	ug/L			10/31/24 08:16	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 08:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 08:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 08:16	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 08:16	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 08:16	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 08:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 08:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 08:16	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 08:16	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 08:16	1
Ethylbenzene	**1.4**		1.0	0.74	ug/L			10/31/24 08:16	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 08:16	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 08:16	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/24 08:16	1
Methylcyclohexane	**0.24**	**J**	1.0	0.16	ug/L			10/31/24 08:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/31/24 08:16	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 08:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 08:16	1
Toluene	**2.4**		1.0	0.51	ug/L			10/31/24 08:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 08:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 08:16	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 08:16	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 08:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 08:16	1
Xylenes, Total	**6.0**		2.0	0.66	ug/L			10/31/24 08:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*10/31/24 08:16*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/31/24 08:16*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*10/31/24 08:16*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*10/31/24 08:16*	*1*

Client Sample ID: MW-BCP-19B-10252024

Date Collected: 10/25/24 09:55
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-13

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**14**		5.0	0.65	ug/L		10/28/24 14:16	10/29/24 22:40	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,4-Dimethylphenol	**0.53**	**J**	5.0	0.50	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 22:40	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 22:40	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 22:40	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/28/24 14:16	10/29/24 22:40	1
2-Methylnaphthalene	**1.1**	**J**	5.0	0.60	ug/L		10/28/24 14:16	10/29/24 22:40	1
2-Methylphenol	**0.49**	**J**	5.0	0.40	ug/L		10/28/24 14:16	10/29/24 22:40	1
2-Nitroaniline	ND		10	0.42	ug/L		10/28/24 14:16	10/29/24 22:40	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 22:40	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 22:40	1
3-Nitroaniline	ND		10	0.48	ug/L		10/28/24 14:16	10/29/24 22:40	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Methylphenol	**0.92**	**J**	10	0.36	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Nitroaniline	ND		10	0.25	ug/L		10/28/24 14:16	10/29/24 22:40	1
4-Nitrophenol	ND	*+	10	1.5	ug/L		10/28/24 14:16	10/29/24 22:40	1
Acenaphthene	**8.8**		5.0	0.41	ug/L		10/28/24 14:16	10/29/24 22:40	1
Acenaphthylene	**51**		5.0	0.38	ug/L		10/28/24 14:16	10/29/24 22:40	1
Acetophenone	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 22:40	1
Anthracene	**15**		5.0	0.28	ug/L		10/28/24 14:16	10/29/24 22:40	1
Atrazine	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 22:40	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/28/24 14:16	10/29/24 22:40	1
Benzo(a)anthracene	**2.3**	**J**	5.0	0.36	ug/L		10/28/24 14:16	10/29/24 22:40	1
Benzo(a)pyrene	**1.5**	**J**	5.0	0.47	ug/L		10/28/24 14:16	10/29/24 22:40	1
Benzo(b)fluoranthene	**1.8**	**J**	5.0	0.34	ug/L		10/28/24 14:16	10/29/24 22:40	1
Benzo(g,h,i)perylene	**0.75**	**J**	5.0	0.35	ug/L		10/28/24 14:16	10/29/24 22:40	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/28/24 14:16	10/29/24 22:40	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 22:40	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 22:40	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 22:40	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/28/24 14:16	10/29/24 22:40	1
Caprolactam	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 22:40	1
Carbazole	**27**		5.0	0.30	ug/L		10/28/24 14:16	10/29/24 22:40	1
Chrysene	**2.2**	**J**	5.0	0.33	ug/L		10/28/24 14:16	10/29/24 22:40	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/28/24 14:16	10/29/24 22:40	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 22:40	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/28/24 14:16	10/29/24 22:40	1
Dibenzofuran	**48**		10	0.51	ug/L		10/28/24 14:16	10/29/24 22:40	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/28/24 14:16	10/29/24 22:40	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 22:40	1

Client Sample ID: MW-BCP-19B-10252024

Date Collected: 10/25/24 09:55
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-13

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**22**		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 22:40	1
Fluorene	**68**	**E**	5.0	0.36	ug/L		10/28/24 14:16	10/29/24 22:40	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 22:40	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/28/24 14:16	10/29/24 22:40	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 22:40	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 22:40	1
Indeno(1,2,3-cd)pyrene	**0.66**	**J**	5.0	0.47	ug/L		10/28/24 14:16	10/29/24 22:40	1
Isophorone	ND		5.0	0.43	ug/L		10/28/24 14:16	10/29/24 22:40	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 22:40	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 22:40	1
Naphthalene	**6.4**		5.0	0.76	ug/L		10/28/24 14:16	10/29/24 22:40	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/28/24 14:16	10/29/24 22:40	1
Pentachlorophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 22:40	1
Phenanthrene	**78**	**E**	5.0	0.44	ug/L		10/28/24 14:16	10/29/24 22:40	1
Phenol	ND		5.0	0.39	ug/L		10/28/24 14:16	10/29/24 22:40	1
Pyrene	**14**		5.0	0.34	ug/L		10/28/24 14:16	10/29/24 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*25 - 144*	*10/28/24 14:16*	*10/29/24 22:40*	*1*
2-Fluorobiphenyl	*91*		*53 - 126*	*10/28/24 14:16*	*10/29/24 22:40*	*1*
2-Fluorophenol	*69*		*24 - 120*	*10/28/24 14:16*	*10/29/24 22:40*	*1*
Nitrobenzene-d5	*100*		*29 - 129*	*10/28/24 14:16*	*10/29/24 22:40*	*1*
p-Terphenyl-d14	*70*		*33 - 132*	*10/28/24 14:16*	*10/29/24 22:40*	*1*
Phenol-d5	*51*		*10 - 120*	*10/28/24 14:16*	*10/29/24 22:40*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**13**	**J**	25	3.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,4-Dinitrophenol	ND		50	11	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		10/28/24 14:16	10/30/24 12:07	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
2-Chloronaphthalene	ND		25	2.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
2-Chlorophenol	ND		25	2.7	ug/L		10/28/24 14:16	10/30/24 12:07	5
2-Methylnaphthalene	ND		25	3.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
2-Methylphenol	ND		25	2.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
2-Nitroaniline	ND		50	2.1	ug/L		10/28/24 14:16	10/30/24 12:07	5
2-Nitrophenol	ND		25	2.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
3-Nitroaniline	ND		50	2.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		10/28/24 14:16	10/30/24 12:07	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
4-Chloroaniline	ND		25	3.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
4-Methylphenol	ND		50	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5

Client Sample ID: MW-BCP-19B-10252024

Date Collected: 10/25/24 09:55
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-13

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		50	1.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
4-Nitrophenol	ND	*+	50	7.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
Acenaphthene	**8.8**	**J**	25	2.1	ug/L		10/28/24 14:16	10/30/24 12:07	5
Acenaphthylene	**49**		25	1.9	ug/L		10/28/24 14:16	10/30/24 12:07	5
Acetophenone	ND		25	2.7	ug/L		10/28/24 14:16	10/30/24 12:07	5
Anthracene	**14**	**J**	25	1.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
Atrazine	ND		25	2.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
Benzaldehyde	ND		25	1.3	ug/L		10/28/24 14:16	10/30/24 12:07	5
Benzo(a)anthracene	**2.5**	**J**	25	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
Benzo(a)pyrene	ND		25	2.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
Benzo(b)fluoranthene	**2.2**	**J**	25	1.7	ug/L		10/28/24 14:16	10/30/24 12:07	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		10/28/24 14:16	10/30/24 12:07	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		10/28/24 14:16	10/30/24 12:07	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
Caprolactam	ND		25	11	ug/L		10/28/24 14:16	10/30/24 12:07	5
Carbazole	**26**		25	1.5	ug/L		10/28/24 14:16	10/30/24 12:07	5
Chrysene	**2.5**	**J**	25	1.7	ug/L		10/28/24 14:16	10/30/24 12:07	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		10/28/24 14:16	10/30/24 12:07	5
Dibenzofuran	**45**	**J**	50	2.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
Diethyl phthalate	ND		25	1.1	ug/L		10/28/24 14:16	10/30/24 12:07	5
Dimethyl phthalate	ND		25	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
Fluoranthene	**23**	**J**	25	2.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
Fluorene	**63**		25	1.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
Hexachlorobenzene	ND		25	2.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
Hexachlorobutadiene	ND		25	3.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
Hexachloroethane	ND		25	3.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
Indeno(1,2,3-cd)pyrene	ND		25	2.4	ug/L		10/28/24 14:16	10/30/24 12:07	5
Isophorone	ND		25	2.2	ug/L		10/28/24 14:16	10/30/24 12:07	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		10/28/24 14:16	10/30/24 12:07	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		10/28/24 14:16	10/30/24 12:07	5
Naphthalene	**6.6**	**J**	25	3.8	ug/L		10/28/24 14:16	10/30/24 12:07	5
Nitrobenzene	ND		25	1.5	ug/L		10/28/24 14:16	10/30/24 12:07	5
Pentachlorophenol	ND		50	11	ug/L		10/28/24 14:16	10/30/24 12:07	5
Phenanthrene	**79**		25	2.2	ug/L		10/28/24 14:16	10/30/24 12:07	5
Phenol	ND		25	2.0	ug/L		10/28/24 14:16	10/30/24 12:07	5
Pyrene	**15**	**J**	25	1.7	ug/L		10/28/24 14:16	10/30/24 12:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*25 - 144*	*10/28/24 14:16*	*10/30/24 12:07*	*5*
2-Fluorobiphenyl	*86*		*53 - 126*	*10/28/24 14:16*	*10/30/24 12:07*	*5*
2-Fluorophenol	*67*		*24 - 120*	*10/28/24 14:16*	*10/30/24 12:07*	*5*
Nitrobenzene-d5	*94*		*29 - 129*	*10/28/24 14:16*	*10/30/24 12:07*	*5*
p-Terphenyl-d14	*69*		*33 - 132*	*10/28/24 14:16*	*10/30/24 12:07*	*5*
Phenol-d5	*49*		*10 - 120*	*10/28/24 14:16*	*10/30/24 12:07*	*5*

Client Sample ID: MW-BCP-19B-10252024

Lab Sample ID: 480-224869-13

Date Collected: 10/25/24 09:55
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J	0.00040	0.000084	mg/L		10/30/24 12:00	10/30/24 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.20		0.020	0.0090	mg/L			10/30/24 23:01	1

Client Sample ID: MW-BCP-22A-10252024

Lab Sample ID: 480-224869-14

Date Collected: 10/25/24 11:30
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000053	J	0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.96		0.020	0.0090	mg/L			10/30/24 23:02	1
Cyanide, Total (SW846 9012B)	0.042	F1 B	0.010	0.0041	mg/L			10/30/24 08:28	1

Client Sample ID: MW-BCP-25B-10252024

Lab Sample ID: 480-224869-15

Date Collected: 10/25/24 02:15
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00040	0.000084	mg/L		10/30/24 12:00	10/30/24 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.25		0.020	0.0090	mg/L			10/30/24 23:03	1
Cyanide, Total (SW846 9012B)	0.019	F1 B	0.010	0.0041	mg/L			10/30/24 08:56	1

Client Sample ID: MW-BCP-23A-10252024

Lab Sample ID: 480-224869-16

Date Collected: 10/25/24 11:45
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000062	J	0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	1.1		0.020	0.0090	mg/L			10/30/24 23:07	1
Cyanide, Total (SW846 9012B)	0.26	B	0.010	0.0041	mg/L			10/30/24 09:14	1

Client Sample ID: MW-BCP-24B-10252024

Lab Sample ID: 480-224869-17

Date Collected: 10/25/24 01:20
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00060	0.00013	mg/L		10/30/24 12:00	10/30/24 15:25	1

Client Sample ID: MW-BCP-24B-10252024

Lab Sample ID: 480-224869-17

Date Collected: 10/25/24 01:20
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.30	F1 F2	0.020	0.0090	mg/L			10/31/24 00:23	1
Cyanide, Total (SW846 9012B)	0.058	B	0.010	0.0041	mg/L			10/30/24 09:18	1

Client Sample ID: MW-BCP-21A-10252024

Lab Sample ID: 480-224869-18

Date Collected: 10/25/24 11:00
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 08:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 08:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 08:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 08:39	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 08:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 08:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 08:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 08:39	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 08:39	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 08:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 08:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 08:39	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 08:39	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 08:39	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 08:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 08:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 08:39	1
Acetone	3.2	J	10	3.0	ug/L			10/31/24 08:39	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 08:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 08:39	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 08:39	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 08:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 08:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 08:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 08:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 08:39	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 08:39	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 08:39	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 08:39	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 08:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 08:39	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 08:39	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 08:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 08:39	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 08:39	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 08:39	1
Methyl tert-butyl ether	0.69	J	1.0	0.16	ug/L			10/31/24 08:39	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 08:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/31/24 08:39	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 08:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 08:39	1

Client Sample ID: MW-BCP-21A-10252024

Date Collected: 10/25/24 11:00
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-18

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.51	ug/L			10/31/24 08:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 08:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 08:39	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 08:39	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 08:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 08:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 08:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*10/31/24 08:39*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/31/24 08:39*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*10/31/24 08:39*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*10/31/24 08:39*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.2	0.68	ug/L		10/28/24 14:16	10/29/24 23:07	1
bis (2-chloroisopropyl) ether	ND		5.2	0.54	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,4,5-Trichlorophenol	ND		5.2	0.50	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,4,6-Trichlorophenol	ND		5.2	0.64	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,4-Dichlorophenol	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,4-Dinitrophenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,4-Dinitrotoluene	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 23:07	1
2,6-Dinitrotoluene	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 23:07	1
2-Chloronaphthalene	ND		5.2	0.48	ug/L		10/28/24 14:16	10/29/24 23:07	1
2-Chlorophenol	ND		5.2	0.55	ug/L		10/28/24 14:16	10/29/24 23:07	1
2-Methylnaphthalene	ND		5.2	0.63	ug/L		10/28/24 14:16	10/29/24 23:07	1
2-Methylphenol	**0.47**	**J**	5.2	0.42	ug/L		10/28/24 14:16	10/29/24 23:07	1
2-Nitroaniline	ND		10	0.44	ug/L		10/28/24 14:16	10/29/24 23:07	1
2-Nitrophenol	ND		5.2	0.50	ug/L		10/28/24 14:16	10/29/24 23:07	1
3,3'-Dichlorobenzidine	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 23:07	1
3-Nitroaniline	ND		10	0.50	ug/L		10/28/24 14:16	10/29/24 23:07	1
4,6-Dinitro-2-methylphenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Bromophenyl phenyl ether	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Chloro-3-methylphenol	ND		5.2	0.47	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Chloroaniline	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Chlorophenyl phenyl ether	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Methylphenol	**0.70**	**J**	10	0.38	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Nitroaniline	ND		10	0.26	ug/L		10/28/24 14:16	10/29/24 23:07	1
4-Nitrophenol	ND	*+	10	1.6	ug/L		10/28/24 14:16	10/29/24 23:07	1
Acenaphthene	ND		5.2	0.43	ug/L		10/28/24 14:16	10/29/24 23:07	1
Acenaphthylene	ND		5.2	0.40	ug/L		10/28/24 14:16	10/29/24 23:07	1
Acetophenone	ND		5.2	0.56	ug/L		10/28/24 14:16	10/29/24 23:07	1
Anthracene	ND		5.2	0.29	ug/L		10/28/24 14:16	10/29/24 23:07	1
Atrazine	ND		5.2	0.48	ug/L		10/28/24 14:16	10/29/24 23:07	1
Benzaldehyde	ND		5.2	0.28	ug/L		10/28/24 14:16	10/29/24 23:07	1
Benzo(a)anthracene	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 23:07	1
Benzo(a)pyrene	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 23:07	1
Benzo(b)fluoranthene	ND		5.2	0.35	ug/L		10/28/24 14:16	10/29/24 23:07	1

Client Sample ID: MW-BCP-21A-10252024

Date Collected: 10/25/24 11:00
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-18

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(g,h,i)perylene	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 23:07	1
Benzo(k)fluoranthene	ND		5.2	0.76	ug/L		10/28/24 14:16	10/29/24 23:07	1
Bis(2-chloroethoxy)methane	ND		5.2	0.36	ug/L		10/28/24 14:16	10/29/24 23:07	1
Bis(2-chloroethyl)ether	ND		5.2	0.42	ug/L		10/28/24 14:16	10/29/24 23:07	1
Bis(2-ethylhexyl) phthalate	ND		5.2	2.3	ug/L		10/28/24 14:16	10/29/24 23:07	1
Butyl benzyl phthalate	ND		5.2	1.0	ug/L		10/28/24 14:16	10/29/24 23:07	1
Caprolactam	ND		5.2	2.3	ug/L		10/28/24 14:16	10/29/24 23:07	1
Carbazole	**0.66**	**J**	5.2	0.31	ug/L		10/28/24 14:16	10/29/24 23:07	1
Chrysene	ND		5.2	0.34	ug/L		10/28/24 14:16	10/29/24 23:07	1
Di-n-butyl phthalate	ND		5.2	0.32	ug/L		10/28/24 14:16	10/29/24 23:07	1
Di-n-octyl phthalate	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 23:07	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		10/28/24 14:16	10/29/24 23:07	1
Dibenzofuran	ND		10	0.53	ug/L		10/28/24 14:16	10/29/24 23:07	1
Diethyl phthalate	ND		5.2	0.23	ug/L		10/28/24 14:16	10/29/24 23:07	1
Dimethyl phthalate	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 23:07	1
Fluoranthene	**0.43**	**J**	5.2	0.42	ug/L		10/28/24 14:16	10/29/24 23:07	1
Fluorene	ND		5.2	0.38	ug/L		10/28/24 14:16	10/29/24 23:07	1
Hexachlorobenzene	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 23:07	1
Hexachlorobutadiene	ND		5.2	0.71	ug/L		10/28/24 14:16	10/29/24 23:07	1
Hexachlorocyclopentadiene	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 23:07	1
Hexachloroethane	ND		5.2	0.61	ug/L		10/28/24 14:16	10/29/24 23:07	1
Indeno(1,2,3-cd)pyrene	ND		5.2	0.49	ug/L		10/28/24 14:16	10/29/24 23:07	1
Isophorone	ND		5.2	0.45	ug/L		10/28/24 14:16	10/29/24 23:07	1
N-Nitrosodi-n-propylamine	ND		5.2	0.56	ug/L		10/28/24 14:16	10/29/24 23:07	1
N-Nitrosodiphenylamine	ND		5.2	0.53	ug/L		10/28/24 14:16	10/29/24 23:07	1
Naphthalene	**1.8**	**J**	5.2	0.79	ug/L		10/28/24 14:16	10/29/24 23:07	1
Nitrobenzene	ND		5.2	0.30	ug/L		10/28/24 14:16	10/29/24 23:07	1
Pentachlorophenol	ND		10	2.3	ug/L		10/28/24 14:16	10/29/24 23:07	1
Phenanthrene	ND		5.2	0.46	ug/L		10/28/24 14:16	10/29/24 23:07	1
Phenol	ND		5.2	0.41	ug/L		10/28/24 14:16	10/29/24 23:07	1
Pyrene	**0.40**	**J**	5.2	0.35	ug/L		10/28/24 14:16	10/29/24 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*25 - 144*	*10/28/24 14:16*	*10/29/24 23:07*	*1*
2-Fluorobiphenyl	*89*		*53 - 126*	*10/28/24 14:16*	*10/29/24 23:07*	*1*
2-Fluorophenol	*70*		*24 - 120*	*10/28/24 14:16*	*10/29/24 23:07*	*1*
Nitrobenzene-d5	*100*		*29 - 129*	*10/28/24 14:16*	*10/29/24 23:07*	*1*
p-Terphenyl-d14	*48*		*33 - 132*	*10/28/24 14:16*	*10/29/24 23:07*	*1*
Phenol-d5	*52*		*10 - 120*	*10/28/24 14:16*	*10/29/24 23:07*	*1*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**1.5**		0.020	0.0090	mg/L			10/31/24 00:25	1
Cyanide, Total (SW846 9012B)	**0.020**	**B**	0.010	0.0041	mg/L			10/30/24 09:21	1

Client Sample ID: MW-BCP-19A-10252024

Date Collected: 10/25/24 09:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-19

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		8.0	6.6	ug/L			10/31/24 09:01	8
1,1,2,2-Tetrachloroethane	ND		8.0	1.7	ug/L			10/31/24 09:01	8
1,1,2-Trichloroethane	ND		8.0	1.8	ug/L			10/31/24 09:01	8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5	ug/L			10/31/24 09:01	8
1,1-Dichloroethane	ND		8.0	3.0	ug/L			10/31/24 09:01	8
1,1-Dichloroethene	ND		8.0	2.3	ug/L			10/31/24 09:01	8
1,2,4-Trichlorobenzene	ND		8.0	3.3	ug/L			10/31/24 09:01	8
1,2-Dibromo-3-Chloropropane	ND		8.0	3.1	ug/L			10/31/24 09:01	8
1,2-Dibromoethane	ND		8.0	5.8	ug/L			10/31/24 09:01	8
1,2-Dichlorobenzene	ND		8.0	6.3	ug/L			10/31/24 09:01	8
1,2-Dichloroethane	ND		8.0	1.7	ug/L			10/31/24 09:01	8
1,2-Dichloropropane	ND		8.0	5.8	ug/L			10/31/24 09:01	8
1,3-Dichlorobenzene	ND		8.0	6.2	ug/L			10/31/24 09:01	8
1,4-Dichlorobenzene	ND		8.0	6.7	ug/L			10/31/24 09:01	8
2-Hexanone	ND		40	9.9	ug/L			10/31/24 09:01	8
2-Butanone (MEK)	ND		80	11	ug/L			10/31/24 09:01	8
4-Methyl-2-pentanone (MIBK)	ND		40	17	ug/L			10/31/24 09:01	8
Acetone	ND		80	24	ug/L			10/31/24 09:01	8
Benzene	**180**		8.0	3.3	ug/L			10/31/24 09:01	8
Bromodichloromethane	ND		8.0	3.1	ug/L			10/31/24 09:01	8
Bromoform	ND		8.0	2.1	ug/L			10/31/24 09:01	8
Bromomethane	ND		8.0	5.5	ug/L			10/31/24 09:01	8
Carbon disulfide	ND		8.0	1.5	ug/L			10/31/24 09:01	8
Carbon tetrachloride	ND		8.0	2.2	ug/L			10/31/24 09:01	8
Chlorobenzene	ND		8.0	6.0	ug/L			10/31/24 09:01	8
Dibromochloromethane	ND		8.0	2.6	ug/L			10/31/24 09:01	8
Chloroethane	ND		8.0	2.6	ug/L			10/31/24 09:01	8
Chloroform	ND		8.0	2.7	ug/L			10/31/24 09:01	8
Chloromethane	ND		8.0	2.8	ug/L			10/31/24 09:01	8
cis-1,2-Dichloroethene	ND		8.0	6.5	ug/L			10/31/24 09:01	8
cis-1,3-Dichloropropene	ND		8.0	2.9	ug/L			10/31/24 09:01	8
Cyclohexane	ND		8.0	1.4	ug/L			10/31/24 09:01	8
Dichlorodifluoromethane	ND		8.0	5.4	ug/L			10/31/24 09:01	8
Ethylbenzene	**9.6**		8.0	5.9	ug/L			10/31/24 09:01	8
Isopropylbenzene	ND		8.0	6.3	ug/L			10/31/24 09:01	8
Methyl acetate	ND		20	10	ug/L			10/31/24 09:01	8
Methyl tert-butyl ether	ND		8.0	1.3	ug/L			10/31/24 09:01	8
Methylcyclohexane	ND		8.0	1.3	ug/L			10/31/24 09:01	8
Methylene Chloride	**12**		8.0	3.5	ug/L			10/31/24 09:01	8
Styrene	ND		8.0	5.8	ug/L			10/31/24 09:01	8
Tetrachloroethene	ND		8.0	2.9	ug/L			10/31/24 09:01	8
Toluene	**56**		8.0	4.1	ug/L			10/31/24 09:01	8
trans-1,2-Dichloroethene	ND		8.0	7.2	ug/L			10/31/24 09:01	8
trans-1,3-Dichloropropene	ND		8.0	3.0	ug/L			10/31/24 09:01	8
Trichloroethene	ND		8.0	3.7	ug/L			10/31/24 09:01	8
Trichlorofluoromethane	ND		8.0	7.0	ug/L			10/31/24 09:01	8
Vinyl chloride	ND		8.0	7.2	ug/L			10/31/24 09:01	8
Xylenes, Total	**220**		16	5.3	ug/L			10/31/24 09:01	8

Client Sample ID: MW-BCP-19A-10252024

Date Collected: 10/25/24 09:40
Date Received: 10/25/24 16:30

Lab Sample ID: 480-224869-19

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*10/31/24 09:01*	*8*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/31/24 09:01*	*8*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*10/31/24 09:01*	*8*
Dibromofluoromethane (Surr)	*89*		*75 - 123*		*10/31/24 09:01*	*8*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1500	200	ug/L		10/28/24 14:16	10/30/24 12:34	300
bis (2-chloroisopropyl) ether	ND		1500	160	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,4,5-Trichlorophenol	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,4,6-Trichlorophenol	ND		1500	180	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,4-Dichlorophenol	ND		1500	150	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,4-Dimethylphenol	**530**	**J**	1500	150	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,4-Dinitrophenol	ND		3000	670	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,4-Dinitrotoluene	ND		1500	130	ug/L		10/28/24 14:16	10/30/24 12:34	300
2,6-Dinitrotoluene	ND		1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
2-Chloronaphthalene	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
2-Chlorophenol	ND		1500	160	ug/L		10/28/24 14:16	10/30/24 12:34	300
2-Methylnaphthalene	**370**	**J**	1500	180	ug/L		10/28/24 14:16	10/30/24 12:34	300
2-Methylphenol	**410**	**J**	1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
2-Nitroaniline	ND		3000	130	ug/L		10/28/24 14:16	10/30/24 12:34	300
2-Nitrophenol	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
3,3'-Dichlorobenzidine	ND		1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
3-Nitroaniline	ND		3000	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
4,6-Dinitro-2-methylphenol	ND		3000	660	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Bromophenyl phenyl ether	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Chloro-3-methylphenol	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Chloroaniline	ND		1500	180	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Chlorophenyl phenyl ether	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Methylphenol	ND		3000	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Nitroaniline	ND		3000	75	ug/L		10/28/24 14:16	10/30/24 12:34	300
4-Nitrophenol	ND	*+	3000	460	ug/L		10/28/24 14:16	10/30/24 12:34	300
Acenaphthene	ND		1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
Acenaphthylene	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
Acetophenone	ND		1500	160	ug/L		10/28/24 14:16	10/30/24 12:34	300
Anthracene	ND		1500	84	ug/L		10/28/24 14:16	10/30/24 12:34	300
Atrazine	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
Benzaldehyde	ND		1500	80	ug/L		10/28/24 14:16	10/30/24 12:34	300
Benzo(a)anthracene	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
Benzo(a)pyrene	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
Benzo(b)fluoranthene	ND		1500	100	ug/L		10/28/24 14:16	10/30/24 12:34	300
Benzo(g,h,i)perylene	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
Benzo(k)fluoranthene	ND		1500	220	ug/L		10/28/24 14:16	10/30/24 12:34	300
Bis(2-chloroethoxy)methane	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
Bis(2-chloroethyl)ether	ND		1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
Bis(2-ethylhexyl) phthalate	ND		1500	660	ug/L		10/28/24 14:16	10/30/24 12:34	300
Butyl benzyl phthalate	ND		1500	300	ug/L		10/28/24 14:16	10/30/24 12:34	300
Caprolactam	ND		1500	660	ug/L		10/28/24 14:16	10/30/24 12:34	300
Carbazole	**110**	**J**	1500	90	ug/L		10/28/24 14:16	10/30/24 12:34	300
Chrysene	ND		1500	99	ug/L		10/28/24 14:16	10/30/24 12:34	300

Client Sample ID: MW-BCP-19A-10252024

Lab Sample ID: 480-224869-19

Date Collected: 10/25/24 09:40

Matrix: Water

Date Received: 10/25/24 16:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		1500	93	ug/L		10/28/24 14:16	10/30/24 12:34	300
Di-n-octyl phthalate	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
Dibenz(a,h)anthracene	ND		1500	130	ug/L		10/28/24 14:16	10/30/24 12:34	300
Dibenzofuran	ND		3000	150	ug/L		10/28/24 14:16	10/30/24 12:34	300
Diethyl phthalate	ND		1500	66	ug/L		10/28/24 14:16	10/30/24 12:34	300
Dimethyl phthalate	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
Fluoranthene	ND		1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
Fluorene	ND		1500	110	ug/L		10/28/24 14:16	10/30/24 12:34	300
Hexachlorobenzene	ND		1500	150	ug/L		10/28/24 14:16	10/30/24 12:34	300
Hexachlorobutadiene	ND		1500	200	ug/L		10/28/24 14:16	10/30/24 12:34	300
Hexachlorocyclopentadiene	ND		1500	180	ug/L		10/28/24 14:16	10/30/24 12:34	300
Hexachloroethane	ND		1500	180	ug/L		10/28/24 14:16	10/30/24 12:34	300
Indeno(1,2,3-cd)pyrene	ND		1500	140	ug/L		10/28/24 14:16	10/30/24 12:34	300
Isophorone	ND		1500	130	ug/L		10/28/24 14:16	10/30/24 12:34	300
N-Nitrosodi-n-propylamine	ND		1500	160	ug/L		10/28/24 14:16	10/30/24 12:34	300
N-Nitrosodiphenylamine	ND		1500	150	ug/L		10/28/24 14:16	10/30/24 12:34	300
Naphthalene	**5800**		1500	230	ug/L		10/28/24 14:16	10/30/24 12:34	300
Nitrobenzene	ND		1500	87	ug/L		10/28/24 14:16	10/30/24 12:34	300
Pentachlorophenol	ND		3000	660	ug/L		10/28/24 14:16	10/30/24 12:34	300
Phenanthrene	ND		1500	130	ug/L		10/28/24 14:16	10/30/24 12:34	300
Phenol	ND		1500	120	ug/L		10/28/24 14:16	10/30/24 12:34	300
Pyrene	ND		1500	100	ug/L		10/28/24 14:16	10/30/24 12:34	300

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*S1-*	*25 - 144*	*10/28/24 14:16*	*10/30/24 12:34*	*300*
2-Fluorobiphenyl	*88*		*53 - 126*	*10/28/24 14:16*	*10/30/24 12:34*	*300*
2-Fluorophenol	*0*	*S1-*	*24 - 120*	*10/28/24 14:16*	*10/30/24 12:34*	*300*
Nitrobenzene-d5	*0*	*S1-*	*29 - 129*	*10/28/24 14:16*	*10/30/24 12:34*	*300*
p-Terphenyl-d14	*58*		*33 - 132*	*10/28/24 14:16*	*10/30/24 12:34*	*300*
Phenol-d5	*0*	*S1-*	*10 - 120*	*10/28/24 14:16*	*10/30/24 12:34*	*300*

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00040	0.000084	mg/L		10/30/24 12:00	10/30/24 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**37.0**		0.51	0.23	mg/L			10/31/24 01:40	25.71

Client Sample ID: MW-BCP-20A-10252024

Lab Sample ID: 480-224869-20

Date Collected: 10/25/24 10:20

Matrix: Water

Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.17**		0.020	0.0090	mg/L			10/31/24 00:27	1

Client Sample ID: MW-BCP-20B-10252024
Lab Sample ID: 480-224869-21
Date Collected: 10/25/24 10:35
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/31/24 00:28	1

Client Sample ID: MW-BCP-17A-10242024
Lab Sample ID: 480-224869-22
Date Collected: 10/24/24 03:00
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/31/24 00:29	1

Client Sample ID: MW-BCP-21C-10252024
Lab Sample ID: 480-224869-23
Date Collected: 10/25/24 11:20
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.34**		0.020	0.0090	mg/L			10/31/24 00:32	1

Client Sample ID: MW-BCP-17B-10242024
Lab Sample ID: 480-224869-24
Date Collected: 10/24/24 08:40
Matrix: Water
Date Received: 10/25/24 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.049**		0.020	0.0090	mg/L			10/31/24 00:33	1
Cyanide, Total (SW846 9012B)	**0.0075**	**J F1 B**	0.010	0.0041	mg/L			10/30/24 09:51	1

Client Sample ID: MW-BCP-27A-10252024
Lab Sample ID: 480-224869-25
Date Collected: 10/24/24 02:30
Matrix: Water
Date Received: 10/25/24 16:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0015**		0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**1.1**		0.020	0.0090	mg/L			10/31/24 00:34	1
Cyanide, Total (SW846 9012B)	**16.8**	**B**	0.50	0.21	mg/L			10/30/24 12:35	50

Surrogate Summary

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224869-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-224869-1	MW-BCP-09A-10252024	96	100	110	98
480-224869-3	MW-BCP-10A-10242024	95	92	113	93
480-224869-3 - DL	MW-BCP-10A-10242024	95	99	105	98
480-224869-5	MW-BCP-11A-10242024	93	101	108	94
480-224869-7	MW-BCP-12A-10242024	94	99	108	94
480-224869-9	MW-BCP-13A-10252024	92	100	110	91
480-224869-9 MS	MW-BCP-13A-10252024	100	101	110	92
480-224869-9 MSD	MW-BCP-13A-10252024	97	100	107	95
480-224869-10	MW-BCP-13B-10252024	98	96	111	96
480-224869-11	MW-BCP-24A-10252024	102	101	109	98
480-224869-12	MW-BCP-25A-10252024	101	102	107	97
480-224869-13	MW-BCP-19B-10252024	100	98	109	96
480-224869-18	MW-BCP-21A-10252024	95	99	104	92
480-224869-19	MW-BCP-19A-10252024	92	100	111	89
LCS 480-730495/6	Lab Control Sample	95	98	106	93
LCS 480-730696/6	Lab Control Sample	93	101	112	93
MB 480-730495/8	Method Blank	96	102	109	90
MB 480-730696/8	Method Blank	101	100	112	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(33-132)	(10-120)
480-224869-1	MW-BCP-09A-10252024	66	68	56	77	40	41
480-224869-3	MW-BCP-10A-10242024	93	71	0 S1-	73	66	44
480-224869-3 - DL	MW-BCP-10A-10242024	0 S1-	75	0 S1-	129	66	0 S1-
480-224869-5	MW-BCP-11A-10242024	79	82	63	91	79	46
480-224869-7	MW-BCP-12A-10242024	86	78	61	84	69	43
480-224869-9	MW-BCP-13A-10252024	0 S1-	74	0 S1-	0 S1-	0 S1-	0 S1-
480-224869-10	MW-BCP-13B-10252024	84	78	58	61	51	48
480-224869-10 - DL	MW-BCP-13B-10252024	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
480-224869-11	MW-BCP-24A-10252024	86	94	73	104	83	55
480-224869-12	MW-BCP-25A-10252024	84	86	70	95	69	53
480-224869-13	MW-BCP-19B-10252024	97	91	69	100	70	51
480-224869-13 - DL	MW-BCP-19B-10252024	83	86	67	94	69	49
480-224869-18	MW-BCP-21A-10252024	93	89	70	100	48	52
480-224869-19	MW-BCP-19A-10252024	0 S1-	88	0 S1-	0 S1-	58	0 S1-
LCS 480-730138/2-A	Lab Control Sample	89	85	67	91	93	53
MB 480-730138/1-A	Method Blank	71	70	56	83	91	43

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl

Surrogate Summary

Client: Inventum Engineering LLC
Job ID: 480-224869-1
Project/Site: Ammonia SCO

2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

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

Lab Sample ID: MB 480-730495/8
Matrix: Water
Analysis Batch: 730495

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	ND		1.0	0.82	ug/L			10/31/24 03:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 03:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 03:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/24 03:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 03:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 03:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/24 03:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/24 03:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/24 03:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/24 03:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 03:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 03:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/24 03:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/24 03:02	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/24 03:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/24 03:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/24 03:02	1
Acetone	ND		10	3.0	ug/L			10/31/24 03:02	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 03:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 03:02	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 03:02	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 03:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/24 03:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 03:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 03:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 03:02	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 03:02	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 03:02	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 03:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 03:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 03:02	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/24 03:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/24 03:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 03:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/24 03:02	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/24 03:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/24 03:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/24 03:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/31/24 03:02	1
Styrene	ND		1.0	0.73	ug/L			10/31/24 03:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 03:02	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 03:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 03:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 03:02	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 03:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/24 03:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 03:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/24 03:02	1

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

Lab Sample ID: MB 480-730495/8
Matrix: Water
Analysis Batch: 730495

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/31/24 03:02*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/31/24 03:02*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*10/31/24 03:02*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 123*		*10/31/24 03:02*	*1*

Lab Sample ID: LCS 480-730495/6
Matrix: Water
Analysis Batch: 730495

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	25.3		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.6		ug/L		87	76 - 120
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.2		ug/L		89	61 - 148
1,1-Dichloroethane	25.0	23.4		ug/L		93	77 - 120
1,1-Dichloroethene	25.0	23.0		ug/L		92	66 - 127
1,2,4-Trichlorobenzene	25.0	22.5		ug/L		90	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.5		ug/L		94	56 - 134
1,2-Dibromoethane	25.0	24.1		ug/L		97	77 - 120
1,2-Dichlorobenzene	25.0	21.9		ug/L		87	80 - 124
1,2-Dichloroethane	25.0	25.0		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	23.2		ug/L		93	76 - 120
1,3-Dichlorobenzene	25.0	21.8		ug/L		87	77 - 120
1,4-Dichlorobenzene	25.0	21.3		ug/L		85	80 - 120
2-Hexanone	125	116		ug/L		93	65 - 127
2-Butanone (MEK)	125	115		ug/L		92	57 - 140
4-Methyl-2-pentanone (MIBK)	125	116		ug/L		93	71 - 125
Acetone	125	115		ug/L		92	56 - 142
Benzene	25.0	22.9		ug/L		92	71 - 124
Bromodichloromethane	25.0	26.2		ug/L		105	80 - 122
Bromoform	25.0	24.9		ug/L		100	61 - 132
Bromomethane	25.0	19.3		ug/L		77	55 - 144
Carbon disulfide	25.0	21.2		ug/L		85	59 - 134
Carbon tetrachloride	25.0	23.7		ug/L		95	72 - 134
Chlorobenzene	25.0	24.6		ug/L		99	80 - 120
Dibromochloromethane	25.0	24.7		ug/L		99	75 - 125
Chloroethane	25.0	18.5		ug/L		74	69 - 136
Chloroform	25.0	23.0		ug/L		92	73 - 127
Chloromethane	25.0	21.8		ug/L		87	68 - 124
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	23.4		ug/L		94	74 - 124
Cyclohexane	25.0	23.1		ug/L		93	59 - 135
Dichlorodifluoromethane	25.0	22.7		ug/L		91	59 - 135
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
Isopropylbenzene	25.0	22.0		ug/L		88	77 - 122
Methyl acetate	50.0	42.1		ug/L		84	74 - 133
Methyl tert-butyl ether	25.0	23.0		ug/L		92	77 - 120
Methylcyclohexane	25.0	24.4		ug/L		98	68 - 134

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

Lab Sample ID: LCS 480-730495/6
Matrix: Water
Analysis Batch: 730495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methylene Chloride			25.0	23.0		ug/L		92	75 - 124		
Styrene			25.0	22.6		ug/L		90	80 - 120		
Tetrachloroethene			25.0	23.0		ug/L		92	74 - 122		
Toluene			25.0	25.1		ug/L		100	80 - 122		
trans-1,2-Dichloroethene			25.0	23.9		ug/L		96	73 - 127		
trans-1,3-Dichloropropene			25.0	24.1		ug/L		96	80 - 120		
Trichloroethene			25.0	23.7		ug/L		95	74 - 123		
Trichlorofluoromethane			25.0	22.9		ug/L		92	62 - 150		
Vinyl chloride			25.0	20.1		ug/L		80	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*

Lab Sample ID: 480-224869-9 MS
Matrix: Water
Analysis Batch: 730495

Client Sample ID: MW-BCP-13A-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane	ND		2500	2550		ug/L		102	73 - 126		
1,1,2,2-Tetrachloroethane	ND		2500	2080		ug/L		83	76 - 120		
1,1,2-Trichloroethane	ND		2500	2500		ug/L		100	76 - 122		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	2230		ug/L		89	61 - 148		
1,1-Dichloroethane	ND		2500	2430		ug/L		97	77 - 120		
1,1-Dichloroethene	ND		2500	2300		ug/L		92	66 - 127		
1,2,4-Trichlorobenzene	ND		2500	2220		ug/L		89	79 - 122		
1,2-Dibromo-3-Chloropropane	ND		2500	2310		ug/L		92	56 - 134		
1,2-Dibromoethane	ND		2500	2250		ug/L		90	77 - 120		
1,2-Dichlorobenzene	ND		2500	2210		ug/L		88	80 - 124		
1,2-Dichloroethane	ND		2500	2500		ug/L		100	75 - 120		
1,2-Dichloropropane	ND		2500	2410		ug/L		96	76 - 120		
1,3-Dichlorobenzene	ND		2500	2200		ug/L		88	77 - 120		
1,4-Dichlorobenzene	ND		2500	2120		ug/L		85	78 - 124		
2-Hexanone	ND		12500	11600		ug/L		93	65 - 127		
2-Butanone (MEK)	ND		12500	11400		ug/L		91	57 - 140		
4-Methyl-2-pentanone (MIBK)	ND		12500	11900		ug/L		95	71 - 125		
Acetone	ND		12500	10700		ug/L		85	56 - 142		
Benzene	2600		2500	5000		ug/L		96	71 - 124		
Bromodichloromethane	ND		2500	2540		ug/L		102	80 - 122		
Bromoform	ND		2500	2390		ug/L		96	61 - 132		
Bromomethane	ND		2500	2130		ug/L		85	55 - 144		
Carbon disulfide	ND		2500	2190		ug/L		88	59 - 134		
Carbon tetrachloride	ND		2500	2530		ug/L		101	72 - 134		
Chlorobenzene	ND		2500	2580		ug/L		103	80 - 120		
Dibromochloromethane	ND		2500	2430		ug/L		97	75 - 125		
Chloroethane	ND		2500	2020		ug/L		81	69 - 136		

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

Lab Sample ID: 480-224869-9 MS
Matrix: Water
Analysis Batch: 730495

Client Sample ID: MW-BCP-13A-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	ND		2500	2330		ug/L		93	73 - 127
Chloromethane	ND		2500	2280		ug/L		91	68 - 124
cis-1,2-Dichloroethene	ND		2500	2330		ug/L		93	74 - 124
cis-1,3-Dichloropropene	ND		2500	2260		ug/L		90	74 - 124
Cyclohexane	ND		2500	2380		ug/L		95	59 - 135
Dichlorodifluoromethane	ND		2500	2510		ug/L		101	59 - 135
Ethylbenzene	ND		2500	2570		ug/L		103	77 - 123
Isopropylbenzene	ND		2500	2190		ug/L		87	77 - 122
Methyl acetate	ND		5000	4300		ug/L		86	74 - 133
Methyl tert-butyl ether	ND		2500	2330		ug/L		93	77 - 120
Methylcyclohexane	ND		2500	2400		ug/L		96	68 - 134
Methylene Chloride	87	J	2500	2500		ug/L		96	75 - 124
Styrene	ND		2500	2430		ug/L		97	80 - 120
Tetrachloroethene	ND		2500	2450		ug/L		98	74 - 122
Toluene	940		2500	3520		ug/L		103	80 - 122
trans-1,2-Dichloroethene	ND		2500	2410		ug/L		96	73 - 127
trans-1,3-Dichloropropene	ND		2500	2550		ug/L		102	80 - 120
Trichloroethene	ND		2500	2470		ug/L		99	74 - 123
Trichlorofluoromethane	ND		2500	2420		ug/L		97	62 - 150
Vinyl chloride	ND		2500	2030		ug/L		81	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*
Dibromofluoromethane (Surr)	*92*		*75 - 123*

Lab Sample ID: 480-224869-9 MSD
Matrix: Water
Analysis Batch: 730495

Client Sample ID: MW-BCP-13A-10252024
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	ND		2500	2530		ug/L		101	73 - 126	0	15
1,1,2,2-Tetrachloroethane	ND		2500	2190		ug/L		88	76 - 120	5	15
1,1,2-Trichloroethane	ND		2500	2350		ug/L		94	76 - 122	6	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	2300		ug/L		92	61 - 148	3	20
1,1-Dichloroethane	ND		2500	2430		ug/L		97	77 - 120	0	20
1,1-Dichloroethene	ND		2500	2360		ug/L		94	66 - 127	3	16
1,2,4-Trichlorobenzene	ND		2500	2250		ug/L		90	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		2500	2490		ug/L		100	56 - 134	8	15
1,2-Dibromoethane	ND		2500	2230		ug/L		89	77 - 120	1	15
1,2-Dichlorobenzene	ND		2500	2210		ug/L		88	80 - 124	0	20
1,2-Dichloroethane	ND		2500	2560		ug/L		102	75 - 120	2	20
1,2-Dichloropropane	ND		2500	2360		ug/L		94	76 - 120	2	20
1,3-Dichlorobenzene	ND		2500	2250		ug/L		90	77 - 120	2	20
1,4-Dichlorobenzene	ND		2500	2190		ug/L		88	78 - 124	3	20
2-Hexanone	ND		12500	11200		ug/L		90	65 - 127	3	15
2-Butanone (MEK)	ND		12500	11000		ug/L		88	57 - 140	3	20

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

Lab Sample ID: 480-224869-9 MSD
Matrix: Water
Analysis Batch: 730495

Client Sample ID: MW-BCP-13A-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	ND		12500	11300		ug/L		90	71 - 125	5	35
Acetone	ND		12500	11100		ug/L		89	56 - 142	4	15
Benzene	2600		2500	4910		ug/L		93	71 - 124	2	13
Bromodichloromethane	ND		2500	2570		ug/L		103	80 - 122	1	15
Bromoform	ND		2500	2470		ug/L		99	61 - 132	3	15
Bromomethane	ND		2500	2080		ug/L		83	55 - 144	2	15
Carbon disulfide	ND		2500	2170		ug/L		87	59 - 134	1	15
Carbon tetrachloride	ND		2500	2490		ug/L		100	72 - 134	2	15
Chlorobenzene	ND		2500	2510		ug/L		100	80 - 120	3	25
Dibromochloromethane	ND		2500	2420		ug/L		97	75 - 125	1	15
Chloroethane	ND		2500	2080		ug/L		83	69 - 136	3	15
Chloroform	ND		2500	2270		ug/L		91	73 - 127	3	20
Chloromethane	ND		2500	2270		ug/L		91	68 - 124	0	15
cis-1,2-Dichloroethene	ND		2500	2370		ug/L		95	74 - 124	2	15
cis-1,3-Dichloropropene	ND		2500	2260		ug/L		91	74 - 124	0	15
Cyclohexane	ND		2500	2420		ug/L		97	59 - 135	1	20
Dichlorodifluoromethane	ND		2500	2560		ug/L		102	59 - 135	2	20
Ethylbenzene	ND		2500	2570		ug/L		103	77 - 123	0	15
Isopropylbenzene	ND		2500	2240		ug/L		90	77 - 122	3	20
Methyl acetate	ND		5000	4180		ug/L		84	74 - 133	3	20
Methyl tert-butyl ether	ND		2500	2360		ug/L		95	77 - 120	2	37
Methylcyclohexane	ND		2500	2430		ug/L		97	68 - 134	1	20
Methylene Chloride	87	J	2500	2690		ug/L		104	75 - 124	7	15
Styrene	ND		2500	2380		ug/L		95	80 - 120	2	20
Tetrachloroethene	ND		2500	2270		ug/L		91	74 - 122	8	20
Toluene	940		2500	3330		ug/L		96	80 - 122	5	15
trans-1,2-Dichloroethene	ND		2500	2350		ug/L		94	73 - 127	3	20
trans-1,3-Dichloropropene	ND		2500	2450		ug/L		98	80 - 120	4	15
Trichloroethene	ND		2500	2470		ug/L		99	74 - 123	0	16
Trichlorofluoromethane	ND		2500	2420		ug/L		97	62 - 150	0	20
Vinyl chloride	ND		2500	2030		ug/L		81	65 - 133	0	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*

Lab Sample ID: MB 480-730696/8
Matrix: Water
Analysis Batch: 730696

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	ND		1.0	0.82	ug/L			11/01/24 00:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/01/24 00:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/01/24 00:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/01/24 00:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/01/24 00:06	1

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

Lab Sample ID: MB 480-730696/8
Matrix: Water
Analysis Batch: 730696

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/01/24 00:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/01/24 00:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/01/24 00:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/01/24 00:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/01/24 00:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/01/24 00:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/01/24 00:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/01/24 00:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/01/24 00:06	1
2-Hexanone	ND		5.0	1.2	ug/L			11/01/24 00:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/01/24 00:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/01/24 00:06	1
Acetone	ND		10	3.0	ug/L			11/01/24 00:06	1
Benzene	ND		1.0	0.41	ug/L			11/01/24 00:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/01/24 00:06	1
Bromoform	ND		1.0	0.26	ug/L			11/01/24 00:06	1
Bromomethane	ND		1.0	0.69	ug/L			11/01/24 00:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/01/24 00:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/01/24 00:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/01/24 00:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/01/24 00:06	1
Chloroethane	ND		1.0	0.32	ug/L			11/01/24 00:06	1
Chloroform	ND		1.0	0.34	ug/L			11/01/24 00:06	1
Chloromethane	ND		1.0	0.35	ug/L			11/01/24 00:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/01/24 00:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/01/24 00:06	1
Cyclohexane	ND		1.0	0.18	ug/L			11/01/24 00:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/01/24 00:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/01/24 00:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/01/24 00:06	1
Methyl acetate	ND		2.5	1.3	ug/L			11/01/24 00:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/01/24 00:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/01/24 00:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/01/24 00:06	1
Styrene	ND		1.0	0.73	ug/L			11/01/24 00:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/01/24 00:06	1
Toluene	ND		1.0	0.51	ug/L			11/01/24 00:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/01/24 00:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/01/24 00:06	1
Trichloroethene	ND		1.0	0.46	ug/L			11/01/24 00:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/01/24 00:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/01/24 00:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/01/24 00:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*11/01/24 00:06*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/01/24 00:06*	*1*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*		*11/01/24 00:06*	*1*

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

Lab Sample ID: MB 480-730696/8
Matrix: Water
Analysis Batch: 730696

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		75 - 123		11/01/24 00:06	1

Lab Sample ID: LCS 480-730696/6
Matrix: Water
Analysis Batch: 730696

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	24.1		ug/L		97	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.9		ug/L		88	76 - 120
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.5		ug/L		82	61 - 148
1,1-Dichloroethane	25.0	21.6		ug/L		86	77 - 120
1,1-Dichloroethene	25.0	20.7		ug/L		83	66 - 127
1,2,4-Trichlorobenzene	25.0	21.6		ug/L		86	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.4		ug/L		98	56 - 134
1,2-Dibromoethane	25.0	23.0		ug/L		92	77 - 120
1,2-Dichlorobenzene	25.0	21.8		ug/L		87	80 - 124
1,2-Dichloroethane	25.0	24.2		ug/L		97	75 - 120
1,2-Dichloropropane	25.0	22.8		ug/L		91	76 - 120
1,3-Dichlorobenzene	25.0	22.6		ug/L		90	77 - 120
1,4-Dichlorobenzene	25.0	21.4		ug/L		86	80 - 120
2-Hexanone	125	126		ug/L		101	65 - 127
2-Butanone (MEK)	125	122		ug/L		98	57 - 140
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	71 - 125
Acetone	125	119		ug/L		95	56 - 142
Benzene	25.0	21.5		ug/L		86	71 - 124
Bromodichloromethane	25.0	25.2		ug/L		101	80 - 122
Bromoform	25.0	24.8		ug/L		99	61 - 132
Bromomethane	25.0	17.7		ug/L		71	55 - 144
Carbon disulfide	25.0	19.3		ug/L		77	59 - 134
Carbon tetrachloride	25.0	22.8		ug/L		91	72 - 134
Chlorobenzene	25.0	24.4		ug/L		98	80 - 120
Dibromochloromethane	25.0	23.3		ug/L		93	75 - 125
Chloroethane	25.0	17.7		ug/L		71	69 - 136
Chloroform	25.0	21.5		ug/L		86	73 - 127
Chloromethane	25.0	19.8		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	22.4		ug/L		90	74 - 124
cis-1,3-Dichloropropene	25.0	22.7		ug/L		91	74 - 124
Cyclohexane	25.0	21.4		ug/L		86	59 - 135
Dichlorodifluoromethane	25.0	21.9		ug/L		87	59 - 135
Ethylbenzene	25.0	24.3		ug/L		97	77 - 123
Isopropylbenzene	25.0	21.8		ug/L		87	77 - 122
Methyl acetate	50.0	42.8		ug/L		86	74 - 133
Methyl tert-butyl ether	25.0	22.6		ug/L		90	77 - 120
Methylcyclohexane	25.0	22.8		ug/L		91	68 - 134
Methylene Chloride	25.0	22.9		ug/L		92	75 - 124
Styrene	25.0	22.7		ug/L		91	80 - 120
Tetrachloroethene	25.0	22.6		ug/L		90	74 - 122

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

Lab Sample ID: LCS 480-730696/6
Matrix: Water
Analysis Batch: 730696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	25.0	24.9		ug/L		100	80 - 122
trans-1,2-Dichloroethene	25.0	20.6		ug/L		82	73 - 127
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	80 - 120
Trichloroethene	25.0	22.6		ug/L		90	74 - 123
Trichlorofluoromethane	25.0	22.9		ug/L		92	62 - 150
Vinyl chloride	25.0	19.6		ug/L		78	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-730138/1-A
Matrix: Water
Analysis Batch: 730212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		10/28/24 14:16	10/29/24 13:06	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 13:06	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 13:06	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 13:06	1
2-Chlorophenol	ND		5.0	0.53	ug/L		10/28/24 14:16	10/29/24 13:06	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		10/28/24 14:16	10/29/24 13:06	1
2-Methylphenol	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 13:06	1
2-Nitroaniline	ND		10	0.42	ug/L		10/28/24 14:16	10/29/24 13:06	1
2-Nitrophenol	ND		5.0	0.48	ug/L		10/28/24 14:16	10/29/24 13:06	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 13:06	1
3-Nitroaniline	ND		10	0.48	ug/L		10/28/24 14:16	10/29/24 13:06	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Chloroaniline	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Methylphenol	ND		10	0.36	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Nitroaniline	ND		10	0.25	ug/L		10/28/24 14:16	10/29/24 13:06	1
4-Nitrophenol	ND		10	1.5	ug/L		10/28/24 14:16	10/29/24 13:06	1
Acenaphthene	ND		5.0	0.41	ug/L		10/28/24 14:16	10/29/24 13:06	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/28/24 14:16	10/29/24 13:06	1
Acetophenone	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 13:06	1
Anthracene	ND		5.0	0.28	ug/L		10/28/24 14:16	10/29/24 13:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-730138/1-A
Matrix: Water
Analysis Batch: 730212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	ND		5.0	0.46	ug/L		10/28/24 14:16	10/29/24 13:06	1
Benzaldehyde	ND		5.0	0.27	ug/L		10/28/24 14:16	10/29/24 13:06	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 13:06	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 13:06	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		10/28/24 14:16	10/29/24 13:06	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 13:06	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		10/28/24 14:16	10/29/24 13:06	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		10/28/24 14:16	10/29/24 13:06	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 13:06	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 13:06	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		10/28/24 14:16	10/29/24 13:06	1
Caprolactam	ND		5.0	2.2	ug/L		10/28/24 14:16	10/29/24 13:06	1
Carbazole	ND		5.0	0.30	ug/L		10/28/24 14:16	10/29/24 13:06	1
Chrysene	ND		5.0	0.33	ug/L		10/28/24 14:16	10/29/24 13:06	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		10/28/24 14:16	10/29/24 13:06	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 13:06	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/28/24 14:16	10/29/24 13:06	1
Dibenzofuran	ND		10	0.51	ug/L		10/28/24 14:16	10/29/24 13:06	1
Diethyl phthalate	ND		5.0	0.22	ug/L		10/28/24 14:16	10/29/24 13:06	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 13:06	1
Fluoranthene	ND		5.0	0.40	ug/L		10/28/24 14:16	10/29/24 13:06	1
Fluorene	ND		5.0	0.36	ug/L		10/28/24 14:16	10/29/24 13:06	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 13:06	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		10/28/24 14:16	10/29/24 13:06	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 13:06	1
Hexachloroethane	ND		5.0	0.59	ug/L		10/28/24 14:16	10/29/24 13:06	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		10/28/24 14:16	10/29/24 13:06	1
Isophorone	ND		5.0	0.43	ug/L		10/28/24 14:16	10/29/24 13:06	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		10/28/24 14:16	10/29/24 13:06	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		10/28/24 14:16	10/29/24 13:06	1
Naphthalene	ND		5.0	0.76	ug/L		10/28/24 14:16	10/29/24 13:06	1
Nitrobenzene	ND		5.0	0.29	ug/L		10/28/24 14:16	10/29/24 13:06	1
Pentachlorophenol	ND		10	2.2	ug/L		10/28/24 14:16	10/29/24 13:06	1
Phenanthrene	ND		5.0	0.44	ug/L		10/28/24 14:16	10/29/24 13:06	1
Phenol	ND		5.0	0.39	ug/L		10/28/24 14:16	10/29/24 13:06	1
Pyrene	ND		5.0	0.34	ug/L		10/28/24 14:16	10/29/24 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*25 - 144*	*10/28/24 14:16*	*10/29/24 13:06*	*1*
2-Fluorobiphenyl	*70*		*53 - 126*	*10/28/24 14:16*	*10/29/24 13:06*	*1*
2-Fluorophenol	*56*		*24 - 120*	*10/28/24 14:16*	*10/29/24 13:06*	*1*
Nitrobenzene-d5	*83*		*29 - 129*	*10/28/24 14:16*	*10/29/24 13:06*	*1*
p-Terphenyl-d14	*91*		*33 - 132*	*10/28/24 14:16*	*10/29/24 13:06*	*1*
Phenol-d5	*43*		*10 - 120*	*10/28/24 14:16*	*10/29/24 13:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-730138/2-A
Matrix: Water
Analysis Batch: 730212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	32.0	26.6		ug/L		83	59 - 120
bis (2-chloroisopropyl) ether	32.0	36.3		ug/L		114	21 - 136
2,4,5-Trichlorophenol	32.0	29.7		ug/L		93	65 - 126
2,4,6-Trichlorophenol	32.0	28.2		ug/L		88	64 - 120
2,4-Dichlorophenol	32.0	27.0		ug/L		84	63 - 120
2,4-Dimethylphenol	32.0	30.8		ug/L		96	47 - 120
2,4-Dinitrophenol	64.0	63.2		ug/L		99	31 - 137
2,4-Dinitrotoluene	32.0	31.9		ug/L		100	69 - 120
2,6-Dinitrotoluene	32.0	30.3		ug/L		95	68 - 120
2-Chloronaphthalene	32.0	26.5		ug/L		83	58 - 120
2-Chlorophenol	32.0	26.5		ug/L		83	48 - 120
2-Methylnaphthalene	32.0	25.4		ug/L		80	59 - 120
2-Methylphenol	32.0	27.5		ug/L		86	39 - 120
2-Nitroaniline	32.0	38.6		ug/L		121	54 - 127
2-Nitrophenol	32.0	28.0		ug/L		88	52 - 125
3,3'-Dichlorobenzidine	32.0	22.7		ug/L		71	49 - 135
3-Nitroaniline	32.0	23.7		ug/L		74	51 - 120
4,6-Dinitro-2-methylphenol	64.0	66.1		ug/L		103	46 - 136
4-Bromophenyl phenyl ether	32.0	27.3		ug/L		85	65 - 120
4-Chloro-3-methylphenol	32.0	31.7		ug/L		99	61 - 123
4-Chloroaniline	32.0	18.5		ug/L		58	30 - 120
4-Chlorophenyl phenyl ether	32.0	27.8		ug/L		87	62 - 120
4-Methylphenol	32.0	28.1		ug/L		88	29 - 131
4-Nitroaniline	32.0	29.5		ug/L		92	65 - 120
4-Nitrophenol	64.0	81.5	*+	ug/L		127	45 - 120
Acenaphthene	32.0	29.0		ug/L		91	60 - 120
Acenaphthylene	32.0	30.0		ug/L		94	63 - 120
Acetophenone	32.0	30.9		ug/L		97	45 - 120
Anthracene	32.0	32.4		ug/L		101	67 - 120
Atrazine	64.0	73.5	E	ug/L		115	71 - 130
Benzaldehyde	64.0	63.8		ug/L		100	10 - 140
Benzo(a)anthracene	32.0	31.8		ug/L		99	70 - 121
Benzo(a)pyrene	32.0	31.1		ug/L		97	60 - 123
Benzo(b)fluoranthene	32.0	30.9		ug/L		97	66 - 126
Benzo(g,h,i)perylene	32.0	32.1		ug/L		100	66 - 150
Benzo(k)fluoranthene	32.0	30.4		ug/L		95	65 - 124
Bis(2-chloroethoxy)methane	32.0	28.1		ug/L		88	50 - 128
Bis(2-chloroethyl)ether	32.0	29.8		ug/L		93	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	38.1		ug/L		119	63 - 139
Butyl benzyl phthalate	32.0	37.8		ug/L		118	70 - 129
Caprolactam	64.0	23.5		ug/L		37	22 - 120
Carbazole	32.0	30.7		ug/L		96	66 - 123
Chrysene	32.0	31.2		ug/L		98	69 - 120
Di-n-butyl phthalate	32.0	36.7		ug/L		115	69 - 131
Di-n-octyl phthalate	32.0	37.3		ug/L		116	63 - 140
Dibenz(a,h)anthracene	32.0	31.8		ug/L		99	65 - 135
Dibenzofuran	32.0	28.8		ug/L		90	66 - 120
Diethyl phthalate	32.0	36.1		ug/L		113	59 - 127

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-730138/2-A
Matrix: Water
Analysis Batch: 730212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethyl phthalate	32.0	32.4		ug/L		101	68 - 120
Fluoranthene	32.0	32.1		ug/L		100	69 - 126
Fluorene	32.0	29.1		ug/L		91	66 - 120
Hexachlorobenzene	32.0	28.1		ug/L		88	61 - 120
Hexachlorobutadiene	32.0	19.7		ug/L		62	35 - 120
Hexachlorocyclopentadiene	32.0	10.1		ug/L		31	31 - 120
Hexachloroethane	32.0	25.1		ug/L		78	33 - 120
Indeno(1,2,3-cd)pyrene	32.0	32.2		ug/L		101	69 - 146
Isophorone	32.0	31.7		ug/L		99	55 - 120
N-Nitrosodi-n-propylamine	32.0	32.0		ug/L		100	32 - 140
N-Nitrosodiphenylamine	32.0	30.4		ug/L		95	61 - 120
Naphthalene	32.0	25.2		ug/L		79	57 - 120
Nitrobenzene	32.0	31.0		ug/L		97	53 - 123
Pentachlorophenol	64.0	52.6		ug/L		82	10 - 136
Phenanthrene	32.0	31.8		ug/L		99	68 - 120
Phenol	32.0	18.1		ug/L		57	17 - 120
Pyrene	32.0	33.4		ug/L		104	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*89*		*25 - 144*
2-Fluorobiphenyl	*85*		*53 - 126*
2-Fluorophenol	*67*		*24 - 120*
Nitrobenzene-d5	*91*		*29 - 129*
p-Terphenyl-d14	*93*		*33 - 132*
Phenol-d5	*53*		*10 - 120*

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-730387/1-A
Matrix: Water
Analysis Batch: 730556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		10/30/24 12:00	10/30/24 14:56	1

Lab Sample ID: LCS 480-730387/2-A
Matrix: Water
Analysis Batch: 730556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00605		mg/L		90	80 - 120

Lab Sample ID: 480-224869-16 MS
Matrix: Water
Analysis Batch: 730556

Client Sample ID: MW-BCP-23A-10252024
Prep Type: Total/NA
Prep Batch: 730387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000062	J	0.00669	0.00614		mg/L		91	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-224869-16 MSD — **Client Sample ID: MW-BCP-23A-10252024**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730556 — **Prep Batch: 730387**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000062	J	0.00669	0.00628		mg/L		93	80 - 120	2	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-730650/100 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0150	J	0.020	0.0090	mg/L			10/30/24 23:30	1

Lab Sample ID: MB 480-730650/116 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/31/24 00:02	1

Lab Sample ID: MB 480-730650/131 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/31/24 10:04	1

Lab Sample ID: MB 480-730650/65 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/30/24 22:32	1

Lab Sample ID: MB 480-730650/87 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/30/24 23:06	1

Lab Sample ID: LCS 480-730650/101 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.968		mg/L		97	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-730650/117
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.948		mg/L		95	90 - 110

Lab Sample ID: LCS 480-730650/132
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.958		mg/L		96	90 - 110

Lab Sample ID: LCS 480-730650/66
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.957		mg/L		96	90 - 110

Lab Sample ID: LCS 480-730650/88
Matrix: Water
Analysis Batch: 730650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.958		mg/L		96	90 - 110

Lab Sample ID: 480-224869-4 MS
Matrix: Water
Analysis Batch: 730650

Client Sample ID: MW-BCP-10C-10242024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.17	F1	0.0800	0.243		mg/L		96	90 - 110

Lab Sample ID: 480-224869-4 MSD
Matrix: Water
Analysis Batch: 730650

Client Sample ID: MW-BCP-10C-10242024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	0.17	F1	0.0800	0.222	F1	mg/L		70	90 - 110	9	20

Lab Sample ID: 480-224869-10 MS
Matrix: Water
Analysis Batch: 730650

Client Sample ID: MW-BCP-13B-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.24	F1	0.0800	0.302	F1	mg/L		75	90 - 110

Lab Sample ID: 480-224869-16 MS
Matrix: Water
Analysis Batch: 730650

Client Sample ID: MW-BCP-23A-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.1		0.0800	1.21	4	mg/L		134	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-224869-16 MSD — **Client Sample ID: MW-BCP-23A-10252024**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730650

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	1.1		0.0800	1.12	4	mg/L		20	90 - 110	8	20

Lab Sample ID: MB 480-730651/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/31/24 00:22	1

Lab Sample ID: MB 480-730651/61 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/31/24 01:39	1

Lab Sample ID: LCS 480-730651/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.947		mg/L		95	90 - 110

Lab Sample ID: LCS 480-730651/62 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.961		mg/L		96	90 - 110

Lab Sample ID: 480-224869-17 MS — **Client Sample ID: MW-BCP-24B-10252024**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.30	F1 F2	0.0800	0.362	F1	mg/L		83	90 - 110

Lab Sample ID: 480-224869-17 MSD — **Client Sample ID: MW-BCP-24B-10252024**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	0.30	F1 F2	0.0800	0.265	F1 F2	mg/L		-39	90 - 110	31	20

Lab Sample ID: 480-224869-23 MS — **Client Sample ID: MW-BCP-21C-10252024**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 730651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.34		0.0800	0.398	4	mg/L		73	90 - 110

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-730337/103
Matrix: Water
Analysis Batch: 730337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			10/29/24 12:53	1

Lab Sample ID: HLCS 480-730337/22
Matrix: Water
Analysis Batch: 730337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.408		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-730337/104
Matrix: Water
Analysis Batch: 730337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.246		mg/L		98	90 - 110		

Lab Sample ID: MB 480-730502/21
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00470	J	0.010	0.0041	mg/L			10/30/24 08:16	1

Lab Sample ID: MB 480-730502/48
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00910	J	0.010	0.0041	mg/L			10/30/24 09:46	1

Lab Sample ID: MB 480-730502/76
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00960	J	0.010	0.0041	mg/L			10/30/24 11:19	1

Lab Sample ID: HLCS 480-730502/22
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.375		mg/L		94	90 - 110		

Lab Sample ID: LCS 480-730502/23
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.230		mg/L		92	90 - 110		

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: LCS 480-730502/49
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.260		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-730502/77
Matrix: Water
Analysis Batch: 730502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.250		mg/L		100	90 - 110		

Lab Sample ID: 480-224869-14 MS
Matrix: Water
Analysis Batch: 730502

Client Sample ID: MW-BCP-22A-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.042	F1 B	0.100	0.125	F1	mg/L		83	90 - 110		

Lab Sample ID: 480-224869-15 MS
Matrix: Water
Analysis Batch: 730502

Client Sample ID: MW-BCP-25B-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.019	F1 B	0.100	0.105	F1	mg/L		86	90 - 110		

Lab Sample ID: 480-224869-24 MS
Matrix: Water
Analysis Batch: 730502

Client Sample ID: MW-BCP-17B-10242024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.0075	J F1 B	0.100	0.0929	F1	mg/L		85	90 - 110		

Lab Sample ID: 480-224869-15 DU
Matrix: Water
Analysis Batch: 730502

Client Sample ID: MW-BCP-25B-10252024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	0.019	F1 B		0.0177		mg/L				8	15

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

GC/MS VOA

Analysis Batch: 730495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	8260C	
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	8260C	
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	8260C	
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	8260C	
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	8260C	
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	8260C	
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	8260C	
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	8260C	
480-224869-13	MW-BCP-19B-10252024	Total/NA	Water	8260C	
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	8260C	
480-224869-19	MW-BCP-19A-10252024	Total/NA	Water	8260C	
MB 480-730495/8	Method Blank	Total/NA	Water	8260C	
LCS 480-730495/6	Lab Control Sample	Total/NA	Water	8260C	
480-224869-9 MS	MW-BCP-13A-10252024	Total/NA	Water	8260C	
480-224869-9 MSD	MW-BCP-13A-10252024	Total/NA	Water	8260C	

Analysis Batch: 730696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-3 - DL	MW-BCP-10A-10242024	Total/NA	Water	8260C	
MB 480-730696/8	Method Blank	Total/NA	Water	8260C	
LCS 480-730696/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 730138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	3510C	
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	3510C	
480-224869-3 - DL	MW-BCP-10A-10242024	Total/NA	Water	3510C	
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	3510C	
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	3510C	
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	3510C	
480-224869-10 - DL	MW-BCP-13B-10252024	Total/NA	Water	3510C	
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	3510C	
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	3510C	
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	3510C	
480-224869-13 - DL	MW-BCP-19B-10252024	Total/NA	Water	3510C	
480-224869-13	MW-BCP-19B-10252024	Total/NA	Water	3510C	
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	3510C	
480-224869-19	MW-BCP-19A-10252024	Total/NA	Water	3510C	
MB 480-730138/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-730138/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 730212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	8270D	730138
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	8270D	730138
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	8270D	730138
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	8270D	730138
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	8270D	730138
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	8270D	730138

GC/MS Semi VOA (Continued)

Analysis Batch: 730212 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	8270D	730138
480-224869-13	MW-BCP-19B-10252024	Total/NA	Water	8270D	730138
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	8270D	730138
MB 480-730138/1-A	Method Blank	Total/NA	Water	8270D	730138
LCS 480-730138/2-A	Lab Control Sample	Total/NA	Water	8270D	730138

Analysis Batch: 730403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-3 - DL	MW-BCP-10A-10242024	Total/NA	Water	8270D	730138
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	8270D	730138
480-224869-10 - DL	MW-BCP-13B-10252024	Total/NA	Water	8270D	730138
480-224869-13 - DL	MW-BCP-19B-10252024	Total/NA	Water	8270D	730138
480-224869-19	MW-BCP-19A-10252024	Total/NA	Water	8270D	730138

Metals

Prep Batch: 730387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	7470A	
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	7470A	
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	7470A	
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	7470A	
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	7470A	
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	7470A	
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	7470A	
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	7470A	
480-224869-13	MW-BCP-19B-10252024	Total/NA	Water	7470A	
480-224869-14	MW-BCP-22A-10252024	Total/NA	Water	7470A	
480-224869-15	MW-BCP-25B-10252024	Total/NA	Water	7470A	
480-224869-16	MW-BCP-23A-10252024	Total/NA	Water	7470A	
480-224869-17	MW-BCP-24B-10252024	Total/NA	Water	7470A	
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	7470A	
480-224869-19	MW-BCP-19A-10252024	Total/NA	Water	7470A	
480-224869-25	MW-BCP-27A-10252024	Total/NA	Water	7470A	
MB 480-730387/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-730387/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-224869-16 MS	MW-BCP-23A-10252024	Total/NA	Water	7470A	
480-224869-16 MSD	MW-BCP-23A-10252024	Total/NA	Water	7470A	

Analysis Batch: 730556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	7470A	730387
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	7470A	730387
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	7470A	730387
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	7470A	730387
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	7470A	730387
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	7470A	730387
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	7470A	730387
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	7470A	730387
480-224869-13	MW-BCP-19B-10252024	Total/NA	Water	7470A	730387
480-224869-14	MW-BCP-22A-10252024	Total/NA	Water	7470A	730387

Metals (Continued)

Analysis Batch: 730556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-15	MW-BCP-25B-10252024	Total/NA	Water	7470A	730387
480-224869-16	MW-BCP-23A-10252024	Total/NA	Water	7470A	730387
480-224869-17	MW-BCP-24B-10252024	Total/NA	Water	7470A	730387
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	7470A	730387
480-224869-19	MW-BCP-19A-10252024	Total/NA	Water	7470A	730387
480-224869-25	MW-BCP-27A-10252024	Total/NA	Water	7470A	730387
MB 480-730387/1-A	Method Blank	Total/NA	Water	7470A	730387
LCS 480-730387/2-A	Lab Control Sample	Total/NA	Water	7470A	730387
480-224869-16 MS	MW-BCP-23A-10252024	Total/NA	Water	7470A	730387
480-224869-16 MSD	MW-BCP-23A-10252024	Total/NA	Water	7470A	730387

General Chemistry

Analysis Batch: 730337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	9012B	
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	9012B	
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	9012B	
MB 480-730337/103	Method Blank	Total/NA	Water	9012B	
HLCS 480-730337/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730337/104	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 730502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	9012B	
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	9012B	
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	9012B	
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	9012B	
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	9012B	
480-224869-14	MW-BCP-22A-10252024	Total/NA	Water	9012B	
480-224869-15	MW-BCP-25B-10252024	Total/NA	Water	9012B	
480-224869-16	MW-BCP-23A-10252024	Total/NA	Water	9012B	
480-224869-17	MW-BCP-24B-10252024	Total/NA	Water	9012B	
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	9012B	
480-224869-24	MW-BCP-17B-10242024	Total/NA	Water	9012B	
480-224869-25	MW-BCP-27A-10252024	Total/NA	Water	9012B	
MB 480-730502/21	Method Blank	Total/NA	Water	9012B	
MB 480-730502/48	Method Blank	Total/NA	Water	9012B	
MB 480-730502/76	Method Blank	Total/NA	Water	9012B	
HLCS 480-730502/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730502/23	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730502/49	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-730502/77	Lab Control Sample	Total/NA	Water	9012B	
480-224869-14 MS	MW-BCP-22A-10252024	Total/NA	Water	9012B	
480-224869-15 MS	MW-BCP-25B-10252024	Total/NA	Water	9012B	
480-224869-24 MS	MW-BCP-17B-10242024	Total/NA	Water	9012B	
480-224869-15 DU	MW-BCP-25B-10252024	Total/NA	Water	9012B	

Analysis Batch: 730650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-1	MW-BCP-09A-10252024	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 730650 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-2	MW-BCP-09B-10242024	Total/NA	Water	350.1	
480-224869-3	MW-BCP-10A-10242024	Total/NA	Water	350.1	
480-224869-4	MW-BCP-10C-10242024	Total/NA	Water	350.1	
480-224869-5	MW-BCP-11A-10242024	Total/NA	Water	350.1	
480-224869-6	MW-BCP-11B-10242024	Total/NA	Water	350.1	
480-224869-7	MW-BCP-12A-10242024	Total/NA	Water	350.1	
480-224869-8	MW-BCP-12B-10242024	Total/NA	Water	350.1	
480-224869-9	MW-BCP-13A-10252024	Total/NA	Water	350.1	
480-224869-10	MW-BCP-13B-10252024	Total/NA	Water	350.1	
480-224869-11	MW-BCP-24A-10252024	Total/NA	Water	350.1	
480-224869-12	MW-BCP-25A-10252024	Total/NA	Water	350.1	
480-224869-13	MW-BCP-19B-10252024	Total/NA	Water	350.1	
480-224869-14	MW-BCP-22A-10252024	Total/NA	Water	350.1	
480-224869-15	MW-BCP-25B-10252024	Total/NA	Water	350.1	
480-224869-16	MW-BCP-23A-10252024	Total/NA	Water	350.1	
MB 480-730650/100	Method Blank	Total/NA	Water	350.1	
MB 480-730650/116	Method Blank	Total/NA	Water	350.1	
MB 480-730650/131	Method Blank	Total/NA	Water	350.1	
MB 480-730650/65	Method Blank	Total/NA	Water	350.1	
MB 480-730650/87	Method Blank	Total/NA	Water	350.1	
LCS 480-730650/101	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730650/117	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730650/132	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730650/66	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730650/88	Lab Control Sample	Total/NA	Water	350.1	
480-224869-4 MS	MW-BCP-10C-10242024	Total/NA	Water	350.1	
480-224869-4 MSD	MW-BCP-10C-10242024	Total/NA	Water	350.1	
480-224869-10 MS	MW-BCP-13B-10252024	Total/NA	Water	350.1	
480-224869-16 MS	MW-BCP-23A-10252024	Total/NA	Water	350.1	
480-224869-16 MSD	MW-BCP-23A-10252024	Total/NA	Water	350.1	

Analysis Batch: 730651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224869-17	MW-BCP-24B-10252024	Total/NA	Water	350.1	
480-224869-18	MW-BCP-21A-10252024	Total/NA	Water	350.1	
480-224869-19	MW-BCP-19A-10252024	Total/NA	Water	350.1	
480-224869-20	MW-BCP-20A-10252024	Total/NA	Water	350.1	
480-224869-21	MW-BCP-20B-10252024	Total/NA	Water	350.1	
480-224869-22	MW-BCP-17A-10242024	Total/NA	Water	350.1	
480-224869-23	MW-BCP-21C-10252024	Total/NA	Water	350.1	
480-224869-24	MW-BCP-17B-10242024	Total/NA	Water	350.1	
480-224869-25	MW-BCP-27A-10252024	Total/NA	Water	350.1	
MB 480-730651/5	Method Blank	Total/NA	Water	350.1	
MB 480-730651/61	Method Blank	Total/NA	Water	350.1	
LCS 480-730651/6	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-730651/62	Lab Control Sample	Total/NA	Water	350.1	
480-224869-17 MS	MW-BCP-24B-10252024	Total/NA	Water	350.1	
480-224869-17 MSD	MW-BCP-24B-10252024	Total/NA	Water	350.1	
480-224869-23 MS	MW-BCP-21C-10252024	Total/NA	Water	350.1	

Client Sample ID: MW-BCP-09A-10252024

Lab Sample ID: 480-224869-1

Date Collected: 10/25/24 16:30

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 05:16
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 19:01
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 14:59
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 09:59
Total/NA	Analysis	9012B		5	730502	CLT	EET BUF	10/30/24 08:34

Client Sample ID: MW-BCP-09B-10242024

Lab Sample ID: 480-224869-2

Date Collected: 10/24/24 02:25

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 10:00

Client Sample ID: MW-BCP-10A-10242024

Lab Sample ID: 480-224869-3

Date Collected: 10/24/24 10:40

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5	730495	AD	EET BUF	10/31/24 05:39
Total/NA	Analysis	8260C	DL	50	730696	AD	EET BUF	11/01/24 00:29
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		10	730212	JMM	EET BUF	10/29/24 19:29
Total/NA	Prep	3510C	DL		730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D	DL	100	730403	JMM	EET BUF	10/30/24 11:12
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:00
Total/NA	Analysis	350.1		500	730650	AM	EET BUF	10/31/24 10:01
Total/NA	Analysis	9012B		5	730502	CLT	EET BUF	10/30/24 08:38

Client Sample ID: MW-BCP-10C-10242024

Lab Sample ID: 480-224869-4

Date Collected: 10/24/24 10:55

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 10:05

Client Sample ID: MW-BCP-11A-10242024

Lab Sample ID: 480-224869-5

Date Collected: 10/24/24 11:35

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 06:01

Client Sample ID: MW-BCP-11A-10242024

Lab Sample ID: 480-224869-5

Date Collected: 10/24/24 11:35

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 19:56
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:02
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 10:07
Total/NA	Analysis	9012B		1	730337	CLT	EET BUF	10/29/24 13:52

Client Sample ID: MW-BCP-11B-10242024

Lab Sample ID: 480-224869-6

Date Collected: 10/24/24 01:00

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 10:09

Client Sample ID: MW-BCP-12A-10242024

Lab Sample ID: 480-224869-7

Date Collected: 10/24/24 03:15

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 06:23
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 20:23
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:05
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 10:09
Total/NA	Analysis	9012B		5	730502	CLT	EET BUF	10/30/24 09:04

Client Sample ID: MW-BCP-12B-10242024

Lab Sample ID: 480-224869-8

Date Collected: 10/24/24 03:10

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/31/24 10:09

Client Sample ID: MW-BCP-13A-10252024

Lab Sample ID: 480-224869-9

Date Collected: 10/25/24 08:50

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		100	730495	AD	EET BUF	10/31/24 06:46
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		500	730403	JMM	EET BUF	10/30/24 11:40
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:07
Total/NA	Analysis	350.1		5	730650	AM	EET BUF	10/31/24 10:11

Client Sample ID: MW-BCP-13A-10252024

Lab Sample ID: 480-224869-9

Date Collected: 10/25/24 08:50

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9012B		2	730502	CLT	EET BUF	10/30/24 09:08

Client Sample ID: MW-BCP-13B-10252024

Lab Sample ID: 480-224869-10

Date Collected: 10/25/24 09:10

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	730495	AD	EET BUF	10/31/24 07:08
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		5	730212	JMM	EET BUF	10/29/24 21:18
Total/NA	Prep	3510C	DL		730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D	DL	500	730403	JMM	EET BUF	10/30/24 15:46
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:08
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 22:58
Total/NA	Analysis	9012B		1	730337	CLT	EET BUF	10/29/24 14:02

Client Sample ID: MW-BCP-24A-10252024

Lab Sample ID: 480-224869-11

Date Collected: 10/25/24 09:35

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 07:31
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 21:45
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:09
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 22:59
Total/NA	Analysis	9012B		1	730337	CLT	EET BUF	10/29/24 14:05

Client Sample ID: MW-BCP-25A-10252024

Lab Sample ID: 480-224869-12

Date Collected: 10/25/24 02:05

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 07:54
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 22:13
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:11
Total/NA	Analysis	350.1		5	730650	AM	EET BUF	10/30/24 23:36
Total/NA	Analysis	9012B		5	730502	CLT	EET BUF	10/30/24 09:11

Client Sample ID: MW-BCP-19B-10252024

Lab Sample ID: 480-224869-13

Date Collected: 10/25/24 09:55

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 08:16
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 22:40
Total/NA	Prep	3510C	DL		730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D	DL	5	730403	JMM	EET BUF	10/30/24 12:07
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:12
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 23:01

Client Sample ID: MW-BCP-22A-10252024

Lab Sample ID: 480-224869-14

Date Collected: 10/25/24 11:30

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:13
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 23:02
Total/NA	Analysis	9012B		1	730502	CLT	EET BUF	10/30/24 08:28

Client Sample ID: MW-BCP-25B-10252024

Lab Sample ID: 480-224869-15

Date Collected: 10/25/24 02:15

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:15
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 23:03
Total/NA	Analysis	9012B		1	730502	CLT	EET BUF	10/30/24 08:56

Client Sample ID: MW-BCP-23A-10252024

Lab Sample ID: 480-224869-16

Date Collected: 10/25/24 11:45

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:16
Total/NA	Analysis	350.1		1	730650	AM	EET BUF	10/30/24 23:07
Total/NA	Analysis	9012B		1	730502	CLT	EET BUF	10/30/24 09:14

Client Sample ID: MW-BCP-24B-10252024

Lab Sample ID: 480-224869-17

Date Collected: 10/25/24 01:20

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:25
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:23
Total/NA	Analysis	9012B		1	730502	CLT	EET BUF	10/30/24 09:18

Client Sample ID: MW-BCP-21A-10252024

Lab Sample ID: 480-224869-18

Date Collected: 10/25/24 11:00

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730495	AD	EET BUF	10/31/24 08:39
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		1	730212	JMM	EET BUF	10/29/24 23:07
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:26
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:25
Total/NA	Analysis	9012B		1	730502	CLT	EET BUF	10/30/24 09:21

Client Sample ID: MW-BCP-19A-10252024

Lab Sample ID: 480-224869-19

Date Collected: 10/25/24 09:40

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		8	730495	AD	EET BUF	10/31/24 09:01
Total/NA	Prep	3510C			730138	LSC	EET BUF	10/28/24 14:16
Total/NA	Analysis	8270D		300	730403	JMM	EET BUF	10/30/24 12:34
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:28
Total/NA	Analysis	350.1		25.71	730651	AM	EET BUF	10/31/24 01:40

Client Sample ID: MW-BCP-20A-10252024

Lab Sample ID: 480-224869-20

Date Collected: 10/25/24 10:20

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:27

Client Sample ID: MW-BCP-20B-10252024

Lab Sample ID: 480-224869-21

Date Collected: 10/25/24 10:35

Matrix: Water

Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:28

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: Ammonia SCO

Job ID: 480-224869-1

Client Sample ID: MW-BCP-17A-10242024
Lab Sample ID: 480-224869-22
Date Collected: 10/24/24 03:00
Matrix: Water
Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:29

Client Sample ID: MW-BCP-21C-10252024
Lab Sample ID: 480-224869-23
Date Collected: 10/25/24 11:20
Matrix: Water
Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:32

Client Sample ID: MW-BCP-17B-10242024
Lab Sample ID: 480-224869-24
Date Collected: 10/24/24 08:40
Matrix: Water
Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:33
Total/NA	Analysis	9012B		1	730502	CLT	EET BUF	10/30/24 09:51

Client Sample ID: MW-BCP-27A-10252024
Lab Sample ID: 480-224869-25
Date Collected: 10/24/24 02:30
Matrix: Water
Date Received: 10/25/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			730387	ESB	EET BUF	10/30/24 12:00
Total/NA	Analysis	7470A		1	730556	ESB	EET BUF	10/30/24 15:29
Total/NA	Analysis	350.1		1	730651	AM	EET BUF	10/31/24 00:34
Total/NA	Analysis	9012B		50	730502	CLT	EET BUF	10/30/24 12:35

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

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Job ID: 480-224869-1
Project/Site: Ammonia SCO

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
10ppm CN MS_00450	11/04/24	10/28/24	Di Water, Lot Di Water	50 mL	WC_CN 50int_00111	10 mL	Cyanide, Total	10 mg/L
.WC_CN 50int_00111	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN complex_00006	5 mL	Cyanide, Total	50 mg/L
..WC_CN complex_00006	07/05/25	ABSOLUTE, Lot 070523			(Purchased Reagent)		Cyanide, Total	1000 mg/L
8260 CORP mix_00259	11/17/24	09/17/24	Methanol, Lot 22C2362001	20 mL	Ketones_00225	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_00233	800 uL	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
							1,2,4-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
							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
							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_00225	04/30/27	Restek, Lot A02010935			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MegaMix_00233	04/30/26		Restek, Lot A0203458		(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
							1,2,4-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
							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
8260 CORP mix_00260	12/09/24	10/09/24	Methanol, Lot 22C2362001	20 mL	2-CEVE_00232	800 uL	2-Chloroethyl vinyl ether	100 ug/mL
					Acrolein Mix_00505	500 uL	Acrolein	500 ug/mL
					Ketones_00226	800 uL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	500 ug/mL
					MegaMix_00234	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
							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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00360	800 uL	Vinyl acetate	200 ug/mL
.2-CEVE_00232	02/28/27		Restek, Lot A0208368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.Acrolein Mix_00505	09/30/25		Restek, Lot A0209476		(Purchased Reagent)		Acrolein	20000 ug/mL
.Ketones_00226	04/30/27		Restek, Lot A02010935		(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_00234	04/30/26		Restek, Lot A0203458		(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
							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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	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
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00360	09/30/25		Restek, Lot A0209567		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
BFB_WRK_00167							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					MV_BFB_STK_00095	20 uL	BFB	50 ug/mL
.MV_BFB_STK_00095	02/19/25		Supelco, Lot LRAD6467		(Purchased Reagent)		BFB	25000 ug/mL
GAS CORP mix_00646	10/29/24	10/22/24	Methanol, Lot EA832US	10 mL	8260/624-Gas_00560	400 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_00560	12/15/24		Restek, Lot A0211969		(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_00647	11/05/24	10/29/24	Methanol, Lot EA832US	10 mL	8260/624-Gas_00561	400 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_00561	04/28/25		Restek, Lot A0211969		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL

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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
MB_DFTPP_WRK_00443							3 & 4 Methylphenol	
							3-Methylphenol	
							4,4'-DDD	
							4,4'-DDE	
							Chlorobenzotrifluoride N.O.S	
							Chlorotoluene N.O.S	
							EPH Adjustment 1	
							Tentatively Identified Compound	
							Total Cresols	
					MB_DFTPP_STK_00121	250 uL	4,4'-DDT	25 ug/mL
							Benzidine_T	25 ug/mL
							DFTPP	25 ug/mL
							Pentachlorophenol_T	25 ug/mL
.MB_DFTPP_STK_00121	03/31/27		Restek, Lot A0209584		(Purchased Reagent)		4,4'-DDT	1000 ug/mL
							Benzidine_T	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol_T	1000 ug/mL
MB_L1LVI_WRK_00642	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					MB_List1_INT_00109	12.5 uL	1-Methylnaphthalene	0.125 ug/mL
							2-Methylnaphthalene	0.125 ug/mL
							Acenaphthene	0.125 ug/mL
							Acenaphthylene	0.125 ug/mL
							Anthracene	0.125 ug/mL
							Benzo(a)anthracene	0.125 ug/mL
							Benzo(a)pyrene	0.125 ug/mL
							Benzo(b)fluoranthene	0.125 ug/mL
							Benzo(g,h,i)perylene	0.125 ug/mL
							Benzo(k)fluoranthene	0.125 ug/mL
							Chrysene	0.125 ug/mL
							Dibenz(a,h)anthracene	0.125 ug/mL
							Dibenzofuran	0.125 ug/mL
							Fluoranthene	0.125 ug/mL
							Fluorene	0.125 ug/mL
							Indeno(1,2,3-cd)pyrene	0.125 ug/mL
							Naphthalene	0.125 ug/mL
							Phenanthrene	0.125 ug/mL
							Pyrene	0.125 ug/mL
.MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
MB_L1LVI_WRK_00643	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					MB_List1_INT_00109	50 uL	1,2,4,5-Tetrachlorobenzene	0.5 ug/mL
							1,2,4-Trichlorobenzene	0.5 ug/mL
							1,2-Dichlorobenzene	0.5 ug/mL
							1,2-Diphenylhydrazine	0.5 ug/mL
							1,3-Dichlorobenzene	0.5 ug/mL
							1,3-Dinitrobenzene	0.5 ug/mL
							1,4-Dichlorobenzene	0.5 ug/mL
							1,4-Dioxane	0.5 ug/mL
							1-Methylnaphthalene	0.5 ug/mL
							2,3,4,6-Tetrachlorophenol	0.5 ug/mL
							2,4,5-Trichlorophenol	0.5 ug/mL
							2,4,6-Trichlorophenol	0.5 ug/mL
							2,4-Dichlorophenol	0.5 ug/mL
							2,4-Dimethylphenol	0.5 ug/mL
							2,4-Dinitrophenol	1 ug/mL
							2,4-Dinitrotoluene	0.5 ug/mL
							2,6-Dichlorophenol	0.5 ug/mL
							2,6-Dinitrotoluene	0.5 ug/mL
							2-Chloronaphthalene	0.5 ug/mL
							2-Chlorophenol	0.5 ug/mL
							2-Methylnaphthalene	0.5 ug/mL
							2-Methylphenol	0.5 ug/mL
							2-Nitroaniline	0.5 ug/mL
							2-Nitrophenol	0.5 ug/mL
							3-Nitroaniline	0.5 ug/mL
							4,6-Dinitro-2-methylphenol	1 ug/mL
							4-Bromophenyl phenyl ether	0.5 ug/mL
							4-Chloro-3-methylphenol	0.5 ug/mL
							4-Chloroaniline	0.5 ug/mL
							4-Chlorophenyl phenyl ether	0.5 ug/mL
							4-Methylphenol	0.5 ug/mL
							4-Nitroaniline	0.5 ug/mL
							4-Nitrophenol	1 ug/mL
							Acenaphthene	0.5 ug/mL
							Acenaphthylene	0.5 ug/mL
							Acetophenone	0.5 ug/mL
							Aniline	0.5 ug/mL
							Anthracene	0.5 ug/mL
							Azobenzene	0.5 ug/mL
							Benzo(a)anthracene	0.5 ug/mL
							Benzo(a)pyrene	0.5 ug/mL
							Benzo(b)fluoranthene	0.5 ug/mL
							Benzo(g,h,i)perylene	0.5 ug/mL
							Benzo(k)fluoranthene	0.5 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	0.5 ug/mL
							Biphenyl	0.5 ug/mL
							bis (2-chloroisopropyl) ether	0.5 ug/mL
							Bis(2-chloroethoxy)methane	0.5 ug/mL
							Bis(2-chloroethyl)ether	0.5 ug/mL
							Bis(2-ethylhexyl) phthalate	0.5 ug/mL
							Butyl benzyl phthalate	0.5 ug/mL
							Carbazole	0.5 ug/mL
							Chrysene	0.5 ug/mL
							Di-n-butyl phthalate	0.5 ug/mL
							Di-n-octyl phthalate	0.5 ug/mL
							Dibenz(a,h)anthracene	0.5 ug/mL
							Dibenzofuran	0.5 ug/mL
							Diethyl phthalate	0.5 ug/mL
							Dimethyl phthalate	0.5 ug/mL
							Diphenylamine	0.4275 ug/mL
							Fluoranthene	0.5 ug/mL
							Fluorene	0.5 ug/mL
							Hexachlorobenzene	0.5 ug/mL
							Hexachlorobutadiene	0.5 ug/mL
							Hexachlorocyclopentadiene	0.5 ug/mL
							Hexachloroethane	0.5 ug/mL
							Hexadecane	0.5 ug/mL
							Indeno(1,2,3-cd)pyrene	0.5 ug/mL
							Isophorone	0.5 ug/mL
							n-Decane	0.5 ug/mL
							N-Nitrosodi-n-propylamine	0.5 ug/mL
							N-Nitrosodimethylamine	0.5 ug/mL
							N-Nitrosodiphenylamine	0.5 ug/mL
							n-Octadecane	0.5 ug/mL
							Naphthalene	0.5 ug/mL
							Nitrobenzene	0.5 ug/mL
							Pentachlorophenol	1 ug/mL
							Phenanthrene	0.5 ug/mL
							Phenol	0.5 ug/mL
							Pyrene	0.5 ug/mL
							Pyridine	1 ug/mL
							Benzoic acid	3 ug/mL
							Indene	3 ug/mL
							Atrazine	0.5 ug/mL
							Benzaldehyde	0.5 ug/mL
							Caprolactam	0.5 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol	0.5 ug/mL
							2-Fluorobiphenyl	0.5 ug/mL
							2-Fluorophenol	0.5 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5	0.5 ug/mL
							p-Terphenyl-d14	0.5 ug/mL
							Phenol-d5	0.5 ug/mL
.MB_INTSTD_STK_00106	09/17/25	Restek, Lot A0211642			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Azobenzene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	100 ug/mL
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	2000 ug/mL
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
MB_L1LVI_WRK_00644	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					MB_List1_INT_00109	100 uL	1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Methylphenol	1 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Azobenzene	1 ug/mL
							Benzo(a)anthracene	1 ug/mL
							Benzo(a)pyrene	1 ug/mL
							Benzo(b)fluoranthene	1 ug/mL
							Benzo(g,h,i)perylene	1 ug/mL
							Benzo(k)fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Biphenyl	1 ug/mL
							bis (2-chloroisopropyl) ether	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Diphenylamine	0.855 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Hexadecane	1 ug/mL
							Indeno(1,2,3-cd)pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	6 ug/mL
							Indene	6 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5	1 ug/mL
							p-Terphenyl-d14	1 ug/mL
							Phenol-d5	1 ug/mL
.MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
MB_L1LVI_WRK_00645	02/25/25	10/09/24	Methylene Chloride, Lot 64180	1 mL	MB_List1_INT_00109	20 uL	1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Methylphenol	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Azobenzene	2 ug/mL
							Benzo(a)anthracene	2 ug/mL
							Benzo(a)pyrene	2 ug/mL
							Benzo(b)fluoranthene	2 ug/mL
							Benzo(g,h,i)perylene	2 ug/mL
							Benzo(k)fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							Biphenyl	2 ug/mL
							bis (2-chloroisopropyl) ether	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Diphenylamine	1.71 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Hexadecane	2 ug/mL
							Indeno(1,2,3-cd)pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	4 ug/mL
							Benzoic acid	12 ug/mL
							Indene	12 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
							2,4,6-Tribromophenol	2 ug/mL
							2-Fluorobiphenyl	2 ug/mL
							2-Fluorophenol	2 ug/mL
							Nitrobenzene-d5	2 ug/mL
							p-Terphenyl-d14	2 ug/mL
							Phenol-d5	2 ug/mL
					MB_LLIS_WRK_00283	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
.MB_LLIS_WRK_00283	04/08/25	10/08/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	1000 uL	1,4-Dichlorobenzene-d4	200 ug/mL
							Acenaphthene-d10	200 ug/mL
							Chrysene-d12	200 ug/mL
							Naphthalene-d8	200 ug/mL
							Perylene-d12	200 ug/mL
							Phenanthrene-d10	200 ug/mL
..MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MB_L1LVI_WRK_00646	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					MB_List1_INT_00109	400 uL	1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Methylphenol	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Azobenzene	4 ug/mL
							Benzo(a)anthracene	4 ug/mL
							Benzo(a)pyrene	4 ug/mL
							Benzo(b)fluoranthene	4 ug/mL
							Benzo(g,h,i)perylene	4 ug/mL
							Benzo(k)fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Biphenyl	4 ug/mL
							bis (2-chloroisopropyl) ether	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.42 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno(1,2,3-cd)pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	24 ug/mL
							Indene	24 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	8 ug/mL
							Benzidine	8 ug/mL
							2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5	4 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							p-Terphenyl-d14	4 ug/mL
							Phenol-d5	4 ug/mL
.MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
MB_L1LVI_WRK_00647	02/25/25	10/09/24	Methylene Chloride, Lot 64180	1 mL	MB_List1_INT_00109	80 uL	1,2,4,5-Tetrachlorobenzene	8 ug/mL
							1,2,4-Trichlorobenzene	8 ug/mL
							1,2-Dichlorobenzene	8 ug/mL
							1,2-Diphenylhydrazine	8 ug/mL
							1,3-Dichlorobenzene	8 ug/mL
							1,3-Dinitrobenzene	8 ug/mL
							1,4-Dichlorobenzene	8 ug/mL
							1,4-Dioxane	8 ug/mL
							1-Methylnaphthalene	8 ug/mL
							2,3,4,6-Tetrachlorophenol	8 ug/mL
							2,4,5-Trichlorophenol	8 ug/mL
							2,4,6-Trichlorophenol	8 ug/mL
							2,4-Dichlorophenol	8 ug/mL
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dichlorophenol	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Methylphenol	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Aniline	8 ug/mL
							Anthracene	8 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Azobenzene	8 ug/mL
							Benzo(a)anthracene	8 ug/mL
							Benzo(a)pyrene	8 ug/mL
							Benzo(b)fluoranthene	8 ug/mL
							Benzo(g,h,i)perylene	8 ug/mL
							Benzo(k)fluoranthene	8 ug/mL
							Benzyl alcohol	8 ug/mL
							Biphenyl	8 ug/mL
							bis (2-chloroisopropyl) ether	8 ug/mL
							Bis(2-chloroethoxy)methane	8 ug/mL
							Bis(2-chloroethyl)ether	8 ug/mL
							Bis(2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Diphenylamine	6.84 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Hexadecane	8 ug/mL
							Indeno(1,2,3-cd)pyrene	8 ug/mL
							Isophorone	8 ug/mL
							n-Decane	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodimethylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							n-Octadecane	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Pyridine	16 ug/mL
							Benzoic acid	48 ug/mL
							Indene	48 ug/mL
							Atrazine	8 ug/mL
							Benzaldehyde	8 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	8 ug/mL
							3,3'-Dichlorobenzidine	16 ug/mL
							Benzidine	16 ug/mL
							2,4,6-Tribromophenol	8 ug/mL
							2-Fluorobiphenyl	8 ug/mL
							2-Fluorophenol	8 ug/mL
							Nitrobenzene-d5	8 ug/mL
							p-Terphenyl-d14	8 ug/mL
							Phenol-d5	8 ug/mL
					MB_LLIS_WRK_00283	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
.MB_LLIS_WRK_00283	04/08/25	10/08/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	1000 uL	1,4-Dichlorobenzene-d4	200 ug/mL
							Acenaphthene-d10	200 ug/mL
							Chrysene-d12	200 ug/mL
							Naphthalene-d8	200 ug/mL
							Perylene-d12	200 ug/mL
							Phenanthrene-d10	200 ug/mL
..MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MB_L1LVI_WRK_00648	02/25/25	10/09/24	Methylene Chloride, Lot 64180	1 mL	MB_List1_INT_00109	120 uL	1,2,4,5-Tetrachlorobenzene	12 ug/mL
							1,2,4-Trichlorobenzene	12 ug/mL
							1,2-Dichlorobenzene	12 ug/mL
							1,2-Diphenylhydrazine	12 ug/mL
							1,3-Dichlorobenzene	12 ug/mL
							1,3-Dinitrobenzene	12 ug/mL
							1,4-Dichlorobenzene	12 ug/mL
							1,4-Dioxane	12 ug/mL
							1-Methylnaphthalene	12 ug/mL
							2,3,4,6-Tetrachlorophenol	12 ug/mL
							2,4,5-Trichlorophenol	12 ug/mL
							2,4,6-Trichlorophenol	12 ug/mL
							2,4-Dichlorophenol	12 ug/mL
							2,4-Dimethylphenol	12 ug/mL
							2,4-Dinitrophenol	24 ug/mL
							2,4-Dinitrotoluene	12 ug/mL
							2,6-Dichlorophenol	12 ug/mL
							2,6-Dinitrotoluene	12 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	12 ug/mL
							2-Chlorophenol	12 ug/mL
							2-Methylnaphthalene	12 ug/mL
							2-Methylphenol	12 ug/mL
							2-Nitroaniline	12 ug/mL
							2-Nitrophenol	12 ug/mL
							3-Nitroaniline	12 ug/mL
							4,6-Dinitro-2-methylphenol	24 ug/mL
							4-Bromophenyl phenyl ether	12 ug/mL
							4-Chloro-3-methylphenol	12 ug/mL
							4-Chloroaniline	12 ug/mL
							4-Chlorophenyl phenyl ether	12 ug/mL
							4-Methylphenol	12 ug/mL
							4-Nitroaniline	12 ug/mL
							4-Nitrophenol	24 ug/mL
							Acenaphthene	12 ug/mL
							Acenaphthylene	12 ug/mL
							Acetophenone	12 ug/mL
							Aniline	12 ug/mL
							Anthracene	12 ug/mL
							Azobenzene	12 ug/mL
							Benzo(a)anthracene	12 ug/mL
							Benzo(a)pyrene	12 ug/mL
							Benzo(b)fluoranthene	12 ug/mL
							Benzo(g,h,i)perylene	12 ug/mL
							Benzo(k)fluoranthene	12 ug/mL
							Benzyl alcohol	12 ug/mL
							Biphenyl	12 ug/mL
							bis (2-chloroisopropyl) ether	12 ug/mL
							Bis(2-chloroethoxy)methane	12 ug/mL
							Bis(2-chloroethyl)ether	12 ug/mL
							Bis(2-ethylhexyl) phthalate	12 ug/mL
							Butyl benzyl phthalate	12 ug/mL
							Carbazole	12 ug/mL
							Chrysene	12 ug/mL
							Di-n-butyl phthalate	12 ug/mL
							Di-n-octyl phthalate	12 ug/mL
							Dibenz(a,h)anthracene	12 ug/mL
							Dibenzofuran	12 ug/mL
							Diethyl phthalate	12 ug/mL
							Dimethyl phthalate	12 ug/mL
							Diphenylamine	10.26 ug/mL
							Fluoranthene	12 ug/mL
							Fluorene	12 ug/mL
							Hexachlorobenzene	12 ug/mL
							Hexachlorobutadiene	12 ug/mL
							Hexachlorocyclopentadiene	12 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	12 ug/mL
							Hexadecane	12 ug/mL
							Indeno(1,2,3-cd)pyrene	12 ug/mL
							Isophorone	12 ug/mL
							n-Decane	12 ug/mL
							N-Nitrosodi-n-propylamine	12 ug/mL
							N-Nitrosodimethylamine	12 ug/mL
							N-Nitrosodiphenylamine	12 ug/mL
							n-Octadecane	12 ug/mL
							Naphthalene	12 ug/mL
							Nitrobenzene	12 ug/mL
							Pentachlorophenol	24 ug/mL
							Phenanthrene	12 ug/mL
							Phenol	12 ug/mL
							Pyrene	12 ug/mL
							Pyridine	24 ug/mL
							Benzoic acid	72 ug/mL
							Indene	72 ug/mL
							Atrazine	12 ug/mL
							Benzaldehyde	12 ug/mL
							Caprolactam	12 ug/mL
							3,3'-Dichlorobenzidine	24 ug/mL
							Benzidine	24 ug/mL
							2,4,6-Tribromophenol	12 ug/mL
							2-Fluorobiphenyl	12 ug/mL
							2-Fluorophenol	12 ug/mL
							Nitrobenzene-d5	12 ug/mL
							p-Terphenyl-d14	12 ug/mL
							Phenol-d5	12 ug/mL
					MB_LLIS_WRK_00283	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
.MB_LLIS_WRK_00283	04/08/25	10/08/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	1000 uL	1,4-Dichlorobenzene-d4	200 ug/mL
							Acenaphthene-d10	200 ug/mL
							Chrysene-d12	200 ug/mL
							Naphthalene-d8	200 ug/mL
							Perylene-d12	200 ug/mL
							Phenanthrene-d10	200 ug/mL
..MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MB_L1LVI_WRK_00649	02/25/25	10/09/24	Methylene Chloride, Lot 64180	1 mL	MB_List1_INT_00109	160 uL	1,2,4,5-Tetrachlorobenzene	16 ug/mL
							1,2,4-Trichlorobenzene	16 ug/mL
							1,2-Dichlorobenzene	16 ug/mL
							1,2-Diphenylhydrazine	16 ug/mL
							1,3-Dichlorobenzene	16 ug/mL
							1,3-Dinitrobenzene	16 ug/mL
							1,4-Dichlorobenzene	16 ug/mL
							1,4-Dioxane	16 ug/mL
							1-Methylnaphthalene	16 ug/mL
							2,3,4,6-Tetrachlorophenol	16 ug/mL
							2,4,5-Trichlorophenol	16 ug/mL
							2,4,6-Trichlorophenol	16 ug/mL
							2,4-Dichlorophenol	16 ug/mL
							2,4-Dimethylphenol	16 ug/mL
							2,4-Dinitrophenol	32 ug/mL
							2,4-Dinitrotoluene	16 ug/mL
							2,6-Dichlorophenol	16 ug/mL
							2,6-Dinitrotoluene	16 ug/mL
							2-Chloronaphthalene	16 ug/mL
							2-Chlorophenol	16 ug/mL
							2-Methylnaphthalene	16 ug/mL
							2-Methylphenol	16 ug/mL
							2-Nitroaniline	16 ug/mL
							2-Nitrophenol	16 ug/mL
							3-Nitroaniline	16 ug/mL
							4,6-Dinitro-2-methylphenol	32 ug/mL
							4-Bromophenyl phenyl ether	16 ug/mL
							4-Chloro-3-methylphenol	16 ug/mL
							4-Chloroaniline	16 ug/mL
							4-Chlorophenyl phenyl ether	16 ug/mL
							4-Methylphenol	16 ug/mL
							4-Nitroaniline	16 ug/mL
							4-Nitrophenol	32 ug/mL
							Acenaphthene	16 ug/mL
							Acenaphthylene	16 ug/mL
							Acetophenone	16 ug/mL
							Aniline	16 ug/mL
							Anthracene	16 ug/mL
							Azobenzene	16 ug/mL
							Benzo(a)anthracene	16 ug/mL
							Benzo(a)pyrene	16 ug/mL
							Benzo(b)fluoranthene	16 ug/mL
							Benzo(g,h,i)perylene	16 ug/mL
							Benzo(k)fluoranthene	16 ug/mL
							Benzyl alcohol	16 ug/mL
							Biphenyl	16 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							bis (2-chloroisopropyl) ether	16 ug/mL
							Bis(2-chloroethoxy)methane	16 ug/mL
							Bis(2-chloroethyl)ether	16 ug/mL
							Bis(2-ethylhexyl) phthalate	16 ug/mL
							Butyl benzyl phthalate	16 ug/mL
							Carbazole	16 ug/mL
							Chrysene	16 ug/mL
							Di-n-butyl phthalate	16 ug/mL
							Di-n-octyl phthalate	16 ug/mL
							Dibenz(a,h)anthracene	16 ug/mL
							Dibenzofuran	16 ug/mL
							Diethyl phthalate	16 ug/mL
							Dimethyl phthalate	16 ug/mL
							Diphenylamine	13.68 ug/mL
							Fluoranthene	16 ug/mL
							Fluorene	16 ug/mL
							Hexachlorobenzene	16 ug/mL
							Hexachlorobutadiene	16 ug/mL
							Hexachlorocyclopentadiene	16 ug/mL
							Hexachloroethane	16 ug/mL
							Hexadecane	16 ug/mL
							Indeno(1,2,3-cd)pyrene	16 ug/mL
							Isophorone	16 ug/mL
							n-Decane	16 ug/mL
							N-Nitrosodi-n-propylamine	16 ug/mL
							N-Nitrosodimethylamine	16 ug/mL
							N-Nitrosodiphenylamine	16 ug/mL
							n-Octadecane	16 ug/mL
							Naphthalene	16 ug/mL
							Nitrobenzene	16 ug/mL
							Pentachlorophenol	32 ug/mL
							Phenanthrene	16 ug/mL
							Phenol	16 ug/mL
							Pyrene	16 ug/mL
							Pyridine	32 ug/mL
							Benzoic acid	96 ug/mL
							Indene	96 ug/mL
							Atrazine	16 ug/mL
							Benzaldehyde	16 ug/mL
							Caprolactam	16 ug/mL
							3,3'-Dichlorobenzidine	32 ug/mL
							Benzidine	32 ug/mL
							2,4,6-Tribromophenol	16 ug/mL
							2-Fluorobiphenyl	16 ug/mL
							2-Fluorophenol	16 ug/mL
							Nitrobenzene-d5	16 ug/mL
							p-Terphenyl-d14	16 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5	16 ug/mL
					MB_LLIS_WRK_00283	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Methylphenol	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo(a)anthracene	100 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo(a)pyrene	100 ug/mL
							Benzo(b)fluoranthene	100 ug/mL
							Benzo(g,h,i)perylene	100 ug/mL
							Benzo(k)fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85.5 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno(1,2,3-cd)pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					MB_L1S10_STK_00106	3000 uL	Benzoic acid	600 ug/mL
							Indene	600 ug/mL
					MB_L1S11_STK_00065	500 uL	Atrazine	100 ug/mL
							Benzaldehyde	100 ug/mL
							Caprolactam	100 ug/mL
					MB_L1S9_STK_00048	1000 uL	3,3'-Dichlorobenzidine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							p-Terphenyl-d14	100 ug/mL
							Phenol-d5	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..MB_L1S10_STK_00106	07/09/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..MB_L1S11_STK_00065	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..MB_L1S9_STK_00048	02/25/25		Restek, Lot A0201346		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
.MB_LLIS_WRK_00283	04/08/25	10/08/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	1000 uL	1,4-Dichlorobenzene-d4	200 ug/mL
							Acenaphthene-d10	200 ug/mL
							Chrysene-d12	200 ug/mL
							Naphthalene-d8	200 ug/mL
							Perylene-d12	200 ug/mL
							Phenanthrene-d10	200 ug/mL
..MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MB_L1SSLV_WRK_00055	01/01/25	10/10/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	20 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MB_L1SSLV_WRK_00055	01/01/25	10/10/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_SS_00045	40 uL	2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Methylphenol	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Anthracene	4 ug/mL
							Benzo(a)anthracene	4 ug/mL
							Benzo(a)pyrene	4 ug/mL
							Benzo(b)fluoranthene	4 ug/mL
							Benzo(g,h,i)perylene	4 ug/mL
							Benzo(k)fluoranthene	4 ug/mL
							Biphenyl	4 ug/mL
							bis (2-chloroisopropyl) ether	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Indeno(1,2,3-cd)pyrene	4 ug/mL
							Isophorone	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	4 ug/mL
					MB_L1S11_SS_00039	20 uL	Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
					MB_L1S9_SS_00034	20 uL	3,3'-Dichlorobenzidine	4 ug/mL
.MB_L1S1_SS_00045	04/30/25		Restek, Lot A0212976		(Purchased Reagent)		2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
.MB_L1S11_SS_00039	10/10/25		Restek, Lot A0216037		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MB_L1S9_SS_00034	02/22/25		Restek, Lot A0202769		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
MB_LLIS_WRK_00284	04/23/25	10/23/24	Methylene Chloride, Lot 64180	10 mL	MB_INTSTD_STK_00106	1000 uL	1,4-Dichlorobenzene-d4	200 ug/mL
							Acenaphthene-d10	200 ug/mL
							Chrysene-d12	200 ug/mL
							Naphthalene-d8	200 ug/mL
							Perylene-d12	200 ug/mL
							Phenanthrene-d10	200 ug/mL
.MB_INTSTD_STK_00106	09/17/25		Restek, Lot A0211642		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MEH_HG1_WKG_03485	10/31/24	10/30/24	1% HNO3, Lot Di H2O	50 mL	MEH_1_INT_00030	0.5 mL	Nitric acid	400000 ng/mL
							Mercury	100.4 ng/mL
.MEH_1_INT_00030	05/01/25	10/17/24	1% HNO3, Lot DI	50 mL	MED_HNO3_00813	2 mL	Nitric acid	40000000 ppb
					MEH_1_STOCK_00005	5 mL	Mercury	10040 ppb
..MED_HNO3_00813	05/01/25		Fisher Chemical, Lot 240238		(Purchased Reagent)		Nitric acid	1 g/g
..MEH_1_STOCK_00005	06/30/25		Agilent, Lot 0006684748		(Purchased Reagent)		Mercury	100.4 ug/mL
N 8260 IS_00282	12/22/24	10/22/24	P&T Methanol, Lot EA832-US	20 mL	IS_STK_01804	1 mL	1,4-Dichlorobenzene-d4	125 ug/mL
							Chlorobenzene-d5	125 ug/mL
							Fluorobenzene (IS)	125 ug/mL
.IS_STK_01804	07/31/29		Restek, Lot A0214530		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
N_8260_Surr_00475	10/30/24	08/30/24	P&T Methanol, Lot EA832-US	20 mL	SURR_STK_00557	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
.SURR_STK_00557	05/31/29		Restek, Lot A0201943		(Purchased Reagent)		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
N_8260_Surr_00477	12/23/24	10/23/24	P&T Methanol, Lot EA832-US	20 mL	SURR_STK_00560	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
.SURR_STK_00560	04/23/25		Restek, Lot A0211048		(Purchased Reagent)		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
NH3_CCV_02038	10/31/24	10/30/24	Di Water, Lot Di Water	100 mL	WC_NH3_STD_00035	100 uL	Ammonia	1 mg/L
.WC_NH3_STD_00035	04/27/25		ERA, Lot 820423m		(Purchased Reagent)		Ammonia	1000 mg/L
NH3_MSSeal_00016	11/05/24	10/29/24	di, Lot na	50 mL	WC_NH3_STD_00035	200 uL	Ammonia	4 mg/L
.WC_NH3_STD_00035	04/27/25		ERA, Lot 820423m		(Purchased Reagent)		Ammonia	1000 mg/L
O_8270LL LCS_00159	02/28/25	09/30/24	ACETONE, Lot 8077348	100 mL	O_8270/625LCS_00249	20 mL	3,3'-Dichlorobenzidine	8 ug/mL
							Benzidine	8 ug/mL
							Benzoic acid	64 ug/mL
							Indene	64 ug/mL
							Atrazine	16 ug/mL
							Benzaldehyde	16 ug/mL
							Caprolactam	16 ug/mL
							1,2,4,5-Tetrachlorobenzene	8 ug/mL
							1,2,4-Trichlorobenzene	8 ug/mL
							1,2-Dichlorobenzene	8 ug/mL
							1,2-Diphenylhydrazine	8 ug/mL
							1,3-Dichlorobenzene	8 ug/mL
							1,3-Dinitrobenzene	8 ug/mL
							1,4-Dichlorobenzene	8 ug/mL
							1,4-Dioxane	8 ug/mL
							1-Methylnaphthalene	8 ug/mL
							2,3,4,6-Tetrachlorophenol	8 ug/mL
							2,4,5-Trichlorophenol	8 ug/mL
							2,4,6-Trichlorophenol	8 ug/mL
							2,4-Dichlorophenol	8 ug/mL
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dichlorophenol	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3-Methylphenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Methylphenol	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Aniline	8 ug/mL
							Anthracene	8 ug/mL
							Azobenzene	8 ug/mL
							Benzo(a)anthracene	8 ug/mL
							Benzo(a)pyrene	8 ug/mL
							Benzo(b)fluoranthene	8 ug/mL
							Benzo(g,h,i)perylene	8 ug/mL
							Benzo(k)fluoranthene	8 ug/mL
							Benzyl alcohol	8 ug/mL
							Biphenyl	8 ug/mL
							bis (2-chloroisopropyl) ether	8 ug/mL
							Bis(2-chloroethoxy)methane	8 ug/mL
							Bis(2-chloroethyl)ether	8 ug/mL
							Bis(2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Diphenylamine	6.84 ug/mL
							Fluoranthene	8 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Hexadecane	8 ug/mL
							Indeno(1,2,3-cd)pyrene	8 ug/mL
							Isophorone	8 ug/mL
							n-Decane	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodimethylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							n-Octadecane	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Pyridine	16 ug/mL
.O_8270/625LCS_00249	02/28/25	09/25/24	ACETONE, Lot 8077348	100 mL	8270 List 1/S_00159	2 mL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					8270 List1/10_00565	5 mL	Benzoic acid	320 ug/mL
							Indene	320 ug/mL
					8270 List1/10_00566	5 mL	Benzoic acid	320 ug/mL
							Indene	320 ug/mL
					8270 List1/10_00567	6 mL	Benzoic acid	320 ug/mL
							Indene	320 ug/mL
					8270 list1/11_00156	4 mL	Atrazine	80 ug/mL
							Benzaldehyde	80 ug/mL
							Caprolactam	80 ug/mL
					O_8270MegaMix_00195	4 mL	1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Azobenzene	40 ug/mL
							Benzo(a)anthracene	40 ug/mL
							Benzo(a)pyrene	40 ug/mL
							Benzo(b)fluoranthene	40 ug/mL
							Benzo(g,h,i)perylene	40 ug/mL
							Benzo(k)fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Biphenyl	40 ug/mL
							bis (2-chloroisopropyl) ether	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34.2 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno(1,2,3-cd)pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
..8270 List 1/S_00159	10/31/25		Restek, Lot A0210722		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..8270 List1/10_00565	09/30/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..8270 List1/10_00566	09/30/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..8270 List1/10_00567	09/30/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..8270 list1/11_00156	02/28/25		Restek, Lot A0200906		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..O_8270MegaMix_00195	05/31/25		Restek, Lot A0213533		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo(a)anthracene	1000 ug/mL
							Benzo(a)pyrene	1000 ug/mL
							Benzo(b)fluoranthene	1000 ug/mL
							Benzo(g,h,i)perylene	1000 ug/mL
							Benzo(k)fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno(1,2,3-cd)pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
O_8270LLsurr_00103	04/04/25	10/04/24	ACETONE, Lot 8077348	1000 mL	O_8270surr_st_00137	1.6 mL	2,4,6 - Tribromophenol	8 ug/mL
							2,4,6-Tribromophenol	8 ug/mL
							2-Fluorobiphenyl	8 ug/mL
							2-Fluorophenol	8 ug/mL
							Nitrobenzene-d5	8 ug/mL
							p-Terphenyl-d14	8 ug/mL
							Phenol-d5	8 ug/mL
							Terphenyl-d14	8 ug/mL
.O_8270surr_st_00137	03/31/29		Restek, Lot A0209099		(Purchased Reagent)		2,4,6 - Tribromophenol	5000 ug/mL
							2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							p-Terphenyl-d14	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SS 8260 CORP_00117	11/30/24	10/15/24	Methanol, Lot EH471US	20 mL	SS_Ketones_00100	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_00133	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
							1,2,4-Trichlorobenzene	100 mg/L
							1,2-Dibromo-3-Chloropropane	100 mg/L

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00100	04/30/25		Restek, Lot A0184721		(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_00133	08/31/25		Restek, Lot A0195252		(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
							1,2,4-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.: 480-224869-1

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
							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 GAS CORP_00599	10/29/24	10/22/24	Methanol, Lot EA832US	10 mL	SS8260-624gas_00554	400 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_00554	12/15/24		Restek, Lot A0210106		(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
WC_CN 0.400_00299	10/30/24	10/29/24	NAOH 0.025N, Lot na	50 mL	WC_CN 50int_00111	400 uL	Cyanide, Total	0.4 mg/L
.WC_CN 50int_00111	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN complex_00006	5 mL	Cyanide, Total	50 mg/L
..WC_CN complex_00006	07/05/25		ABSOLUTE, Lot 070523		(Purchased Reagent)		Cyanide, Total	1000 mg/L
WC_CN 0.400_00300	10/31/24	10/30/24	NAOH 0.025N, Lot na	50 mL	WC_CN 50int_00111	400 uL	Cyanide, Total	0.4 mg/L
.WC_CN 50int_00111	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN complex_00006	5 mL	Cyanide, Total	50 mg/L
..WC_CN complex_00006	07/05/25		ABSOLUTE, Lot 070523		(Purchased Reagent)		Cyanide, Total	1000 mg/L
WC_CN CCV/LCS_00521	10/30/24	10/29/24	DI Water, Lot na	200 mL	WC_CN 50int_00111	1 mL	Cyanide, Total	0.25 mg/L as N
.WC_CN 50int_00111	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN complex_00006	5 mL	Cyanide, Total	50 mg/L
..WC_CN complex_00006	07/05/25		ABSOLUTE, Lot 070523		(Purchased Reagent)		Cyanide, Total	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
WC_CN CCV/LCS_00523	10/31/24	10/30/24	DI Water, Lot na	200 mL	WC_CN 50int_00111	1 mL	Cyanide, Total	0.25 mg/L as N
.WC_CN 50int_00111	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN complex_00006	5 mL	Cyanide, Total	50 mg/L
..WC_CN complex_00006	07/05/25	ABSOLUTE, Lot 070523			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WC_CN ICV_00296	10/30/24	10/29/24	NAOH 0.025N, Lot na	50 mL	WC_CN50-2int_00112	250 uL	Cyanide, Total	0.25 mg/L
.WC_CN50-2int_00112	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN1000ppmS_00038	5 mL	Cyanide, Total	50 mg/L
..WC_CN1000ppmS_00038	11/30/25	Agilent, Lot 0006766987			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WC_CN ICV_00297	10/31/24	10/30/24	NAOH 0.025N, Lot na	50 mL	WC_CN50-2int_00112	250 uL	Cyanide, Total	0.25 mg/L
.WC_CN50-2int_00112	11/04/24	10/28/24	DI Water, Lot na	100 mL	WC_CN1000ppmS_00038	5 mL	Cyanide, Total	50 mg/L
..WC_CN1000ppmS_00038	11/30/25	Agilent, Lot 0006766987			(Purchased Reagent)		Cyanide, Total	1000 mg/L

Reagent

8270 List 1/S_00159

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 569730 **Lot No.:** A0210722

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : October 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2
1	Benzidine	92-87-5	S240206RSR	99%	2,011.1 µg/mL	+/- 37.1570
2	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	2,008.5 µg/mL	+/- 37.1085

* Expanded Uncertainty displayed in same units as Grav. Con

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

7915516
ID: 8270 List 1/S_00152
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915517
ID: 8270 List 1/S_00153
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915518
ID: 8270 List 1/S_00154
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915519
ID: 8270 List 1/S_00155
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915520
ID: 8270 List 1/S_00156
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915521
ID: 8270 List 1/S_00157
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915522
ID: 8270 List 1/S_00158
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915523
ID: 8270 List 1/S_00159
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915525
ID: 8270 List 1/S_00160
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

7915526
ID: 8270 List 1/S_00161
Exp: 10/31/25 Prpd:
8270 List 1/Std #9

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

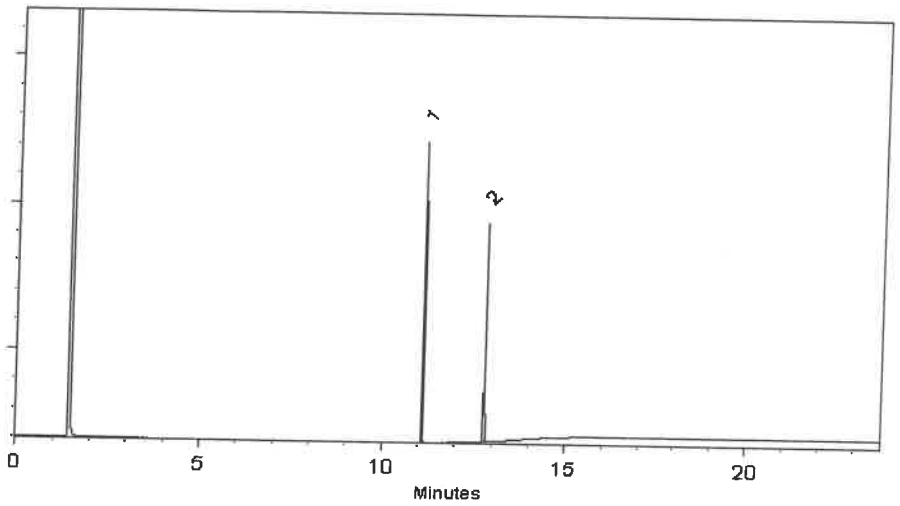
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
0.2µl



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.

Penelope Riglin - Operations Tech I

Date Mixed: 24-Apr-2024 **Balance Serial #** 1122030677

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 07-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8270 List1/10_00565

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 569731 **Lot No.:** A0209261

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Indene	95-13-6	RD230927	99%	2,019.6 µg/mL	+/- 113.4524
2	Benzoic acid	65-85-0	MKCR2694	99%	2,012.5 µg/mL	+/- 113.0554

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

8058391
ID: 8270 List1/10_00565
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058392
ID: 8270 List1/10_00566
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058393
ID: 8270 List1/10_00567
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058394
ID: 8270 List1/10_00568
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058395
ID: 8270 List1/10_00569
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058396
ID: 8270 List1/10_00570
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058397
ID: 8270 List1/10_00571
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058398
ID: 8270 List1/10_00572
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058399
ID: 8270 List1/10_00573
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058400
ID: 8270 List1/10_00574
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

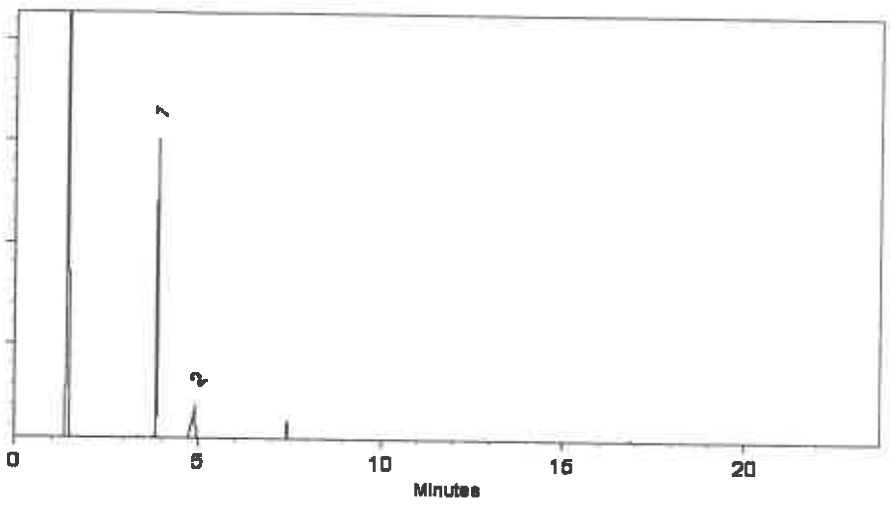
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
0.2µl



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.

Sam Moodler - Operations Tech I

Jennifer Polino - Operations Tech III - ARM QC

Date Mixed: 20-Mar-2024 **Balance Serial #** B442140311

Date Passed: 22-Mar-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8270 List1/10_00566

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Catalog No. : 569731 **Lot No.:** A0209261

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Indene	95-13-6	RD230927	99%	2,019.6 µg/mL	+/- 113.4524
2	Benzoic acid	65-85-0	MKCR2694	99%	2,012.5 µg/mL	+/- 113.0554

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

8058391
ID: 8270 List1/10_00565
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058392
ID: 8270 List1/10_00566
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058393
ID: 8270 List1/10_00567
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058394
ID: 8270 List1/10_00568
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058395
ID: 8270 List1/10_00569
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058396
ID: 8270 List1/10_00570
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058397
ID: 8270 List1/10_00571
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058398
ID: 8270 List1/10_00572
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058399
ID: 8270 List1/10_00573
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058400
ID: 8270 List1/10_00574
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

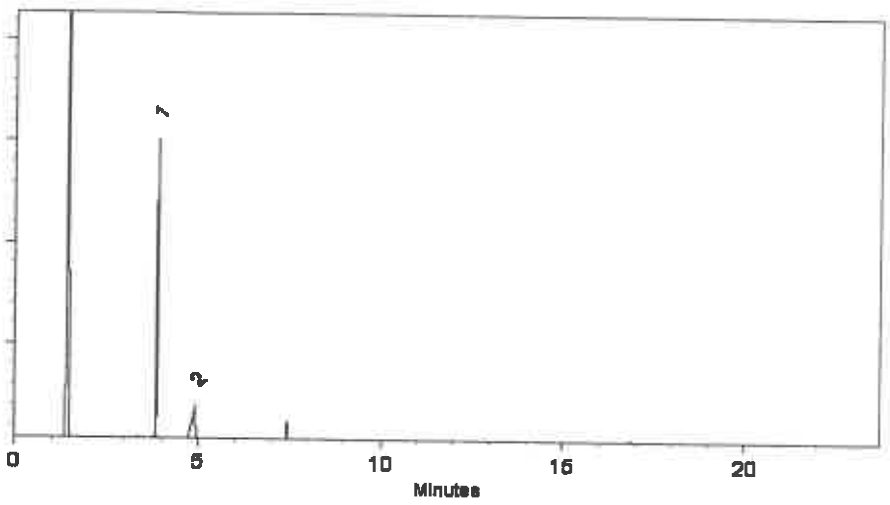
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
0.2µl



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.

Sam Moodler - Operations Tech I

Jennifer Polino - Operations Tech III - ARM QC

Date Mixed: 20-Mar-2024 **Balance Serial #** B442140311

Date Passed: 22-Mar-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8270 List1/10_00567

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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. : 569731 **Lot No.:** A0209261

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Indene	95-13-6	RD230927	99%	2,019.6 µg/mL	+/- 113.4524
2	Benzoic acid	65-85-0	MKCR2694	99%	2,012.5 µg/mL	+/- 113.0554

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

8058391
ID: 8270 List1/10_00565
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058392
ID: 8270 List1/10_00566
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058393
ID: 8270 List1/10_00567
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058394
ID: 8270 List1/10_00568
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058395
ID: 8270 List1/10_00569
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058396
ID: 8270 List1/10_00570
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058397
ID: 8270 List1/10_00571
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058398
ID: 8270 List1/10_00572
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058399
ID: 8270 List1/10_00573
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

8058400
ID: 8270 List1/10_00574
Exp: 09/30/25 Prpd:
OP_8270 List 1/Std10

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

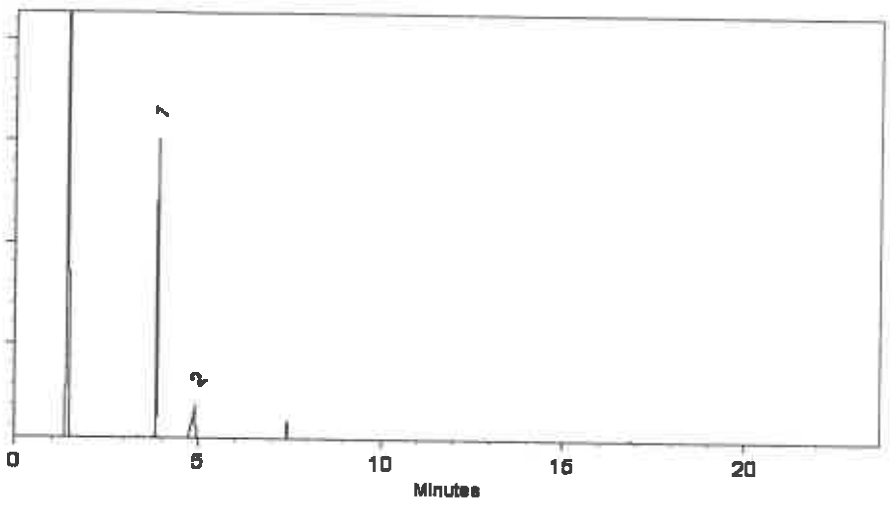
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
0.2µl



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.

Sam Moodler - Operations Tech I

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 20-Mar-2024 **Balance Serial #** B442140311

Date Passed: 22-Mar-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8270 list1/11_00156

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Fax: 1-814-353-1309

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Catalog No. : 569732 **Lot No.:** A0200906

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2
1	Benzaldehyde	100-52-7	RD230209RSRA	99%	2,007.8 µg/mL	+/- 58.9672
2	epsilon-Caprolactam	105-60-2	I16X016	99%	2,008.0 µg/mL	+/- 58.9746
3	Atrazine	1912-24-9	5FYWL	99%	2,003.5 µg/mL	+/- 58.8424

* Expanded Uncertainty displayed in same units as Grav. Cor

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

7919030
ID: 8270 list1/11_00152
Exp: 02/28/25 Prpd:
8270 list 1/ std11

7919031
ID: 8270 list1/11_00153
Exp: 02/28/25 Prpd:
8270 list 1/ std11

7919032
ID: 8270 list1/11_00154
Exp: 02/28/25 Prpd:
8270 list 1/ std11

7919033
ID: 8270 list1/11_00155
Exp: 02/28/25 Prpd:
8270 list 1/ std11

7919034
ID: 8270 list1/11_00156
Exp: 02/28/25 Prpd:
8270 list 1/ std11

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

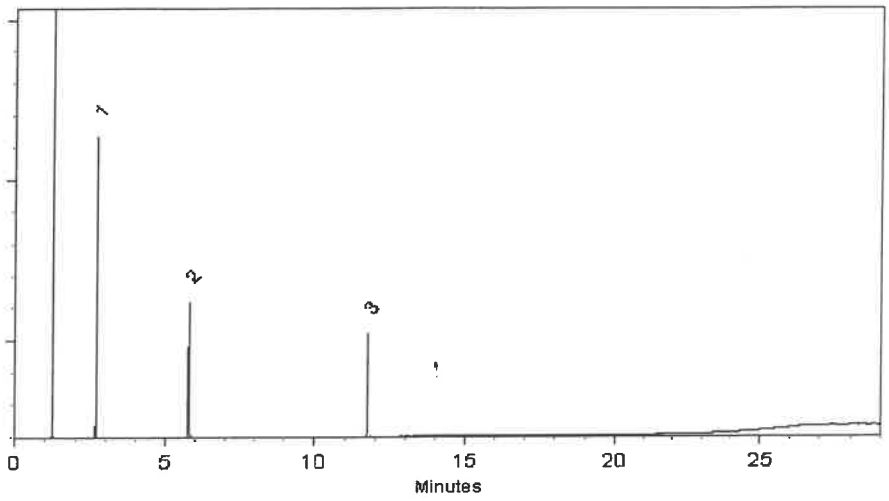
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
0.2µl



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.

Laith Clemente - Operations Technician I

Date Mixed: 11-Aug-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 17-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MB_DFTPP_STK_00121

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Bellefonte, PA 16823-8812
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Catalog No. : 31615 **Lot No.:** A0209584

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : March 31, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240304ECS	99%	1,008.0 µg/mL	+/- 45.0466
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,001.0 µg/mL	+/- 44.7338
3	Benzidine	92-87-5	S240206RSR	99%	1,007.0 µg/mL	+/- 45.0019
4	4,4'-DDT	50-29-3	231103JLM	97%	1,001.0 µg/mL	+/- 44.7355

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_INTSTD_STK_00106

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 567684 **Lot No.:** A0211642

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.1 µg/mL	+/- 90.0850
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0962
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.0 µg/mL	+/- 90.0812
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,000.2 µg/mL	+/- 90.0887
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,000.3 µg/mL	+/- 90.0962
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.2 µg/mL	+/- 90.0887

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_L1S1_SS_00045

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 571995.SEC **Lot No.:** A0212976

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1.SEC	QHRWO	99%	1,006.3 µg/mL	+/- 18.5955
2	N-Nitrosodimethylamine	62-75-9.SEC	71L89	99%	1,008.3 µg/mL	+/- 18.6324
3	Pyridine	110-86-1.SEC	QN8DK	99%	2,020.0 µg/mL	+/- 37.3295
4	Phenol	108-95-2.SEC	EDPYN	99%	1,005.5 µg/mL	+/- 18.5816
5	Aniline	62-53-3.SEC	ZCD3N	99%	1,005.0 µg/mL	+/- 18.5724
6	Bis(2-chloroethyl)ether	111-44-4.SEC	FA010143	99%	1,007.3 µg/mL	+/- 18.6139
7	n-Decane (C10)	124-18-5.SEC	UCVNN	99%	1,008.5 µg/mL	+/- 18.6370
8	2-Chlorophenol	95-57-8.SEC	GJ01	99%	1,007.5 µg/mL	+/- 18.6186
9	1,3-Dichlorobenzene	541-73-1.SEC	FMDFD	99%	1,009.0 µg/mL	+/- 18.6463
10	1,4-Dichlorobenzene	106-46-7.SEC	J5GVD	99%	1,004.5 µg/mL	+/- 18.5631
11	Benzyl alcohol	100-51-6.SEC	QZBUO	99%	1,006.3 µg/mL	+/- 18.5955
12	1,2-Dichlorobenzene	95-50-1.SEC	R6QDM	99%	1,006.0 µg/mL	+/- 18.5908
13	2-Methylphenol (o-cresol)	95-48-7.SEC	NC7HL	99%	1,004.5 µg/mL	+/- 18.5631
14	2,2'-oxybis(1-chloropropane)	108-60-1 *	29-MAR-45-5	99%	1,007.5 µg/mL	+/- 18.6186
15	Acetophenone	98-86-2.SEC	NSGTI	99%	1,007.0 µg/mL	+/- 18.6093
16	3-Methylphenol (m-cresol)	108-39-4.SEC	6LHTM	99%	503.8 µg/mL	+/- 9.3093

17	4-Methylphenol (p-cresol)	106-44-5.SEC 65S2E	99%	504.8	µg/mL	+/- 9.3278
18	N-Nitroso-di-n-propylamine	621-64-7.SEC 13924400	99%	1,008.5	µg/mL	+/- 18.6370
19	Hexachloroethane	67-72-1.SEC 10173016	99%	1,008.5	µg/mL	+/- 18.6370
20	Nitrobenzene	98-95-3.SEC FLYIG	99%	1,003.8	µg/mL	+/- 18.5493
21	Isophorone	78-59-1.SEC XHGJI	98%	1,007.2	µg/mL	+/- 18.6129
22	2-Nitrophenol	88-75-5.SEC RP231023CTH	99%	1,006.5	µg/mL	+/- 18.6001
23	2,4-Dimethylphenol	105-67-9.SEC MKBL3650V	99%	1,005.0	µg/mL	+/- 18.5724
24	Bis(2-chloroethoxy)methane	111-91-1 * 15174900	99%	1,007.3	µg/mL	+/- 18.6139
25	2,4-Dichlorophenol	120-83-2.SEC FHM01	99%	1,008.3	µg/mL	+/- 18.6324
26	1,2,4-Trichlorobenzene	120-82-1.SEC IGLFA	99%	1,005.0	µg/mL	+/- 18.5724
27	Naphthalene	91-20-3.SEC AM5NG	99%	1,008.3	µg/mL	+/- 18.6324
28	2,6-Dichlorophenol	87-65-0.SEC SIDBB	99%	1,003.0	µg/mL	+/- 18.5354
29	4-Chloroaniline	106-47-8.SEC 10171860	99%	1,005.5	µg/mL	+/- 18.5816
30	Hexachlorobutadiene	87-68-3.SEC 13471600	97%	1,006.6	µg/mL	+/- 18.6022
31	4-Chloro-3-methylphenol	59-50-7.SEC FDO02	99%	1,005.0	µg/mL	+/- 18.5724
32	2-Methylnaphthalene	91-57-6.SEC 76023-1	99%	1,005.3	µg/mL	+/- 18.5770
33	1-Methylnaphthalene	90-12-0.SEC OEE3F	98%	1,003.3	µg/mL	+/- 18.5405
34	1,2,4,5-Tetrachlorobenzene	95-94-3.SEC AF02	99%	1,005.3	µg/mL	+/- 18.5770
35	Hexachlorocyclopentadiene	77-47-4.SEC 14794200	98%	1,008.2	µg/mL	+/- 18.6310
36	2,4,6-Trichlorophenol	88-06-2.SEC UUMYM	98%	1,004.7	µg/mL	+/- 18.5676
37	2,4,5-Trichlorophenol	95-95-4.SEC MKBQ9937V	97%	1,009.0	µg/mL	+/- 18.6471
38	2-Chloronaphthalene	91-58-7.SEC 15229800	99%	1,006.5	µg/mL	+/- 18.6001
39	Biphenyl	92-52-4.SEC 33OQE	99%	1,007.5	µg/mL	+/- 18.6186
40	2-Nitroaniline	88-74-4.SEC RP231006S	99%	1,008.3	µg/mL	+/- 18.6324
41	Acenaphthylene	208-96-8.SEC 0012014	96%	1,007.8	µg/mL	+/- 18.6234
42	1,3-Dinitrobenzene	99-65-0.SEC 3XXLB	99%	1,004.0	µg/mL	+/- 18.5539
43	Dimethylphthalate	131-11-3.SEC 483WC	99%	1,008.5	µg/mL	+/- 18.6370
44	2,6-Dinitrotoluene	606-20-2.SEC GE01	99%	1,007.3	µg/mL	+/- 18.6139
45	3-Nitroaniline	99-09-2.SEC RP230509B	99%	1,006.0	µg/mL	+/- 18.5908
46	Acenaphthene	83-32-9.SEC BWZJE	99%	1,008.8	µg/mL	+/- 18.6417
47	2,4-Dinitrophenol	51-28-5.SEC YTR6B	99%	2,018.5	µg/mL	+/- 37.3018
48	Dibenzofuran	132-64-9.SEC Q5FOB	99%	1,005.3	µg/mL	+/- 18.5770
49	4-Nitrophenol	100-02-7.SEC RP240328RSRS	99%	2,015.3	µg/mL	+/- 37.2417
50	2,4-Dinitrotoluene	121-14-2.SEC SHRSA	99%	1,009.3	µg/mL	+/- 18.6509
51	2,3,4,6-Tetrachlorophenol	58-90-2.SEC B18W03261	99%	1,008.5	µg/mL	+/- 18.6370
52	Fluorene	86-73-7.SEC 14757200	98%	1,002.8	µg/mL	+/- 18.5314

53	n-Hexadecane (C16)	544-76-3.SEC A0328141	99%	1,006.5	µg/mL	+/- 18.6001
54	Diethylphthalate	84-66-2.SEC UMBJC	99%	1,010.0	µg/mL	+/- 18.6648
55	4-Chlorophenyl phenyl ether	7005-72-3.SECP31G	98%	1,005.7	µg/mL	+/- 18.5858
56	4-Nitroaniline	100-01-6.SEC 5ITRC	99%	1,010.0	µg/mL	+/- 18.6648
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1.SEC DR15276900	99%	2,018.5	µg/mL	+/- 37.3018
58	Diphenylamine	122-39-4.SEC 10164691	99%	853.5	µg/mL	+/- 15.7726
59	Azobenzene	103-33-3.SEC JUWAG	99%	1,009.0	µg/mL	+/- 18.6463
60	4-Bromophenyl phenyl ether	101-55-3.SEC 84C6D	99%	1,009.3	µg/mL	+/- 18.6509
61	Hexachlorobenzene	118-74-1.SEC G996401	97%	1,004.0	µg/mL	+/- 18.5530
62	Pentachlorophenol	87-86-5.SEC 15277300	99%	2,007.5	µg/mL	+/- 37.0985
63	n-Octadecane (C18)	593-45-3.SEC G14U045	99%	1,004.0	µg/mL	+/- 18.5539
64	Phenanthrene	85-01-8.SEC 14992600	99%	1,004.5	µg/mL	+/- 18.5631
65	Anthracene	120-12-7.SEC WDFNJ	99%	1,008.3	µg/mL	+/- 18.6324
66	Carbazole	86-74-8.SEC LMIZB	99%	1,008.5	µg/mL	+/- 18.6370
67	Di-n-butylphthalate	84-74-2.SEC 42FSG	99%	1,005.0	µg/mL	+/- 18.5724
68	Fluoranthene	206-44-0.SEC FREGF	99%	1,007.5	µg/mL	+/- 18.6186
69	Pyrene	129-00-0.SEC ROVJC	99%	1,008.3	µg/mL	+/- 18.6324
70	Benzyl butyl phthalate	85-68-7.SEC TMXHI	99%	1,007.3	µg/mL	+/- 18.6139
71	Benz(a)anthracene	56-55-3.SEC JIU7N	99%	1,006.5	µg/mL	+/- 18.6001
72	chrysene	218-01-9.SEC RP231025RSRA	99%	1,007.5	µg/mL	+/- 18.6186
73	Bis(2-ethylhexyl)phthalate	117-81-7.SEC MT8AG	99%	1,009.0	µg/mL	+/- 18.6463
74	Di-n-octyl phthalate	117-84-0.SEC O8DLD	99%	1,006.5	µg/mL	+/- 18.6001
75	Benzo(b)fluoranthene	205-99-2.SEC I38AN	99%	1,007.0	µg/mL	+/- 18.6093
76	Benzo(k)fluoranthene	207-08-9.SEC 12876600	99%	1,005.3	µg/mL	+/- 18.5770
77	Benzo(a)pyrene	50-32-8.SEC ISLCP3775	97%	1,004.2	µg/mL	+/- 18.5574
78	Indeno(1,2,3-cd)pyrene	193-39-5.SEC 022013	99%	1,004.8	µg/mL	+/- 18.5677
79	Dibenz(a,h)anthracene	53-70-3.SEC 0012022	99%	1,005.3	µg/mL	+/- 18.5770
80	Benzo(g,h,i)perylene	191-24-2.SEC RP240610S	96%	1,004.6	µg/mL	+/- 18.5657

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

" Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Reagent

MB_L1S1_STK_00087

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 571995 **Lot No.:** A0213043

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonicate prior to use. Carcinogen/reproductive toxin. Photosensitive. Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBQ2407	99%	1,005.3 µg/mL	+/- 18.5785
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,006.7 µg/mL	+/- 18.6032
3	Pyridine	110-86-1	SHBP6240	99%	2,010.3 µg/mL	+/- 37.1424
4	Phenol	108-95-2	MKCK1120	99%	1,006.3 µg/mL	+/- 18.5970
5	Aniline	62-53-3	X22F726	99%	1,001.0 µg/mL	+/- 18.4984
6	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,007.4 µg/mL	+/- 18.7899
7	n-Decane (C10)	124-18-5	SHBQ1342	99%	1,007.3 µg/mL	+/- 18.6155
8	2-Chlorophenol	95-57-8	STBJ3909	99%	1,002.0 µg/mL	+/- 18.5169
9	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,005.7 µg/mL	+/- 18.5847
10	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 18.5477
11	Benzyl alcohol	100-51-6	SHBK5469	99%	1,007.8 µg/mL	+/- 18.6247
12	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,001.0 µg/mL	+/- 18.4984
13	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,001.8 µg/mL	+/- 18.5138
14	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,008.0 µg/mL	+/- 18.8015
15	Acetophenone	98-86-2	STBH8205	99%	1,004.3 µg/mL	+/- 18.5600
16	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.7 µg/mL	+/- 9.2893

17	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	500.8	µg/mL	+/- 9.2554
18	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,005.7	µg/mL	+/- 18.5847
19	Hexachloroethane	67-72-1	DAXRI	99%	1,001.9	µg/mL	+/- 18.6873
20	Nitrobenzene	98-95-3	10224044	99%	1,006.8	µg/mL	+/- 18.7782
21	Isophorone	78-59-1	MKCC9506	99%	1,003.1	µg/mL	+/- 18.7106
22	2-Nitrophenol	88-75-5	RP230509C	99%	1,005.2	µg/mL	+/- 18.5754
23	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,002.3	µg/mL	+/- 18.5231
24	Bis(2-chloroethoxy)methane	111-91-1	15174900	99%	1,008.5	µg/mL	+/- 18.8109
25	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,007.2	µg/mL	+/- 18.6124
26	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.7	µg/mL	+/- 18.6032
27	Naphthalene	91-20-3	STBL1057	99%	1,007.3	µg/mL	+/- 18.7875
28	2,6-Dichlorophenol	87-65-0	MKCS9444	99%	1,007.7	µg/mL	+/- 18.6216
29	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,003.8	µg/mL	+/- 18.5508
30	Hexachlorobutadiene	87-68-3	X05J	99%	1,004.9	µg/mL	+/- 18.7432
31	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,000.7	µg/mL	+/- 18.4923
32	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,001.0	µg/mL	+/- 18.4984
33	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 18.4800
34	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,002.7	µg/mL	+/- 18.5292
35	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,004.4	µg/mL	+/- 18.7340
36	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,006.8	µg/mL	+/- 18.6062
37	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,001.7	µg/mL	+/- 18.5111
38	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,002.5	µg/mL	+/- 18.6989
39	Biphenyl	92-52-4	MKCL6515	99%	1,005.8	µg/mL	+/- 18.5878
40	2-Nitroaniline	88-74-4	RP230531	99%	1,007.0	µg/mL	+/- 18.6093
41	Acenaphthylene	208-96-8	214935V16F	97%	1,000.1	µg/mL	+/- 18.6536
42	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,007.5	µg/mL	+/- 18.6186
43	Dimethylphthalate	131-11-3	358221L17K	99%	1,001.9	µg/mL	+/- 18.6873
44	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,001.9	µg/mL	+/- 18.6873
45	3-Nitroaniline	99-09-2	RP231103CTH-1	99%	1,004.8	µg/mL	+/- 18.5693
46	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 18.6523
47	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	2,007.8	µg/mL	+/- 37.0962
48	Dibenzofuran	132-64-9	MKCN1772	99%	1,002.5	µg/mL	+/- 18.5262
49	4-Nitrophenol	100-02-7	RP240328CTH	99%	2,007.8	µg/mL	+/- 37.0962
50	2,4-Dinitrotoluene	121-14-2	102869L10R	99%	1,007.4	µg/mL	+/- 18.7899
51	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,002.8	µg/mL	+/- 18.5323
52	Fluorene	86-73-7	10241100	99%	1,006.0	µg/mL	+/- 18.7642

53	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	1,003.7	µg/mL	+/- 18.5477
54	Diethylphthalate	84-66-2	BCCJ6241	99%	1,007.0	µg/mL	+/- 18.7829
55	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,006.5	µg/mL	+/- 18.7736
56	4-Nitroaniline	100-01-6	RP230111	99%	1,001.7	µg/mL	+/- 18.5108
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S240403RSR	99%	2,008.5	µg/mL	+/- 37.1085
58	Diphenylamine	122-39-4	MKCT1512	99%	855.0	µg/mL	+/- 15.8004
59	Azobenzene	103-33-3	BCCK0887	99%	1,003.2	µg/mL	+/- 18.5385
60	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,002.0	µg/mL	+/- 18.6896
61	Hexachlorobenzene	118-74-1	15277000	99%	1,005.1	µg/mL	+/- 18.7479
62	Pentachlorophenol	87-86-5	RP240411RSR	99%	2,014.7	µg/mL	+/- 37.2224
63	n-Octadecane (C18)	593-45-3	UE5NG	98%	1,005.3	µg/mL	+/- 18.5782
64	Phenanthrene	85-01-8	MKCS5188	99%	1,006.0	µg/mL	+/- 18.7642
65	Anthracene	120-12-7	MKCR0570	99%	1,004.5	µg/mL	+/- 18.7362
66	Carbazole	86-74-8	15276700	99%	1,003.7	µg/mL	+/- 18.5477
67	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,008.3	µg/mL	+/- 18.8062
68	Fluoranthene	206-44-0	MKCQ4728	99%	1,005.0	µg/mL	+/- 18.7456
69	Pyrene	129-00-0	BCCK2592	99%	1,001.5	µg/mL	+/- 18.6803
70	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.8	µg/mL	+/- 18.7969
71	Benz(a)anthracene	56-55-3	I20012022BAA	99%	1,008.4	µg/mL	+/- 18.8085
72	Chrysene	218-01-9	RP231206RSR	99%	1,005.5	µg/mL	+/- 18.7549
73	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,006.4	µg/mL	+/- 18.7712
74	Di-n-octyl phthalate	117-84-0	15172900	99%	1,006.9	µg/mL	+/- 18.7805
75	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,003.1	µg/mL	+/- 18.7106
76	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,006.4	µg/mL	+/- 18.7712
77	Benzo(a)pyrene	50-32-8	O45GL	98%	1,002.7	µg/mL	+/- 18.7020
78	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.6	µg/mL	+/- 18.6830
79	Dibenz(a,h)anthracene	53-70-3	1-SLH-51-1	99%	1,001.8	µg/mL	+/- 18.6850
80	Benzo(g,h,i)perylene	191-24-2	RP240530RSR	98%	1,002.2	µg/mL	+/- 18.6928

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_L1S10_STK_00106

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 569731 **Lot No.:** A0209261

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

MB_LISIO_STK_00106-8

Received 5/6/24

BS

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Indene	95-13-6	RD230927	99%	2,019.6 µg/mL	+/- 113.4524
2	Benzoic acid	65-85-0	MKCR2694	99%	2,012.5 µg/mL	+/- 113.0554

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

* Expanded Uncertainty displayed in same units as Grav. Conc.

Reagent

MB_L1S11_SS_00039

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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. : 569732.SEC **Lot No.:** A0216037

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : March 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzaldehyde	100-52-7.SEC	E7DWH	99%	2,001.0 µg/mL	+/- 58.7906
2	epsilon-Caprolactam	105-60-2.SEC	BLJTB	99%	2,010.0 µg/mL	+/- 59.0551
3	Atrazine	1912-24-9.SEC	14713000	99%	2,013.0 µg/mL	+/- 59.1432

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_L1S11_STK_00065

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Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01
ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

MB_LIS11_STK_00065

Received 11/6/23 JM

Catalog No. : 569732 **Lot No.:** A0200906

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzaldehyde	100-52-7	RD230209RSRA	99%	2,007.8 µg/mL	+/- 58.9672
2	epsilon-Caprolactam	105-60-2	I16X016	99%	2,008.0 µg/mL	+/- 58.9746
3	Atrazine	1912-24-9	5FYWL	99%	2,003.5 µg/mL	+/- 58.8424

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_L1S9_SS_00034

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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. : 569730.SEC **Lot No.:** A0202769

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

Recieved by ED
2/1/24
MB_LIS9_STK_0049
MB_LIS9_STK_0050
MB_LIS9_STK_0051

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzidine	92-87-5.SEC	6732900	99%	2,004.5 µg/mL	+/- 37.0691
2	3,3'-Dichlorobenzidine	91-94-1.SEC	13954700	99%	2,002.5 µg/mL	+/- 37.0321

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_L1S9_STK_00048

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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

MB_LI59-STK_00048

Received 12/4/23 JM

Catalog No. : 569730 **Lot No.:** A0201346

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzidine	92-87-5	S230609RSRB	99%	2,006.0 µg/mL	+/- 37.0623
2	3,3'-Dichlorobenzidine	91-94-1	S230321RSR	99%	2,002.0 µg/mL	+/- 36.9884

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_SURR_STK_00072

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 567685 **Lot No.:** A0172807

MB_SURR_STK_00071-75

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

Received 11/5/21

RS

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2026 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol		5,004.6 µg/mL	+/- 29.0972	µg/mL	Gravimetric
	CAS # 367-12-4	(Lot STBJ2508)		+/- 146.0510	µg/mL	Unstressed
	Purity 99%			+/- 177.2273	µg/mL	Stressed
2	Phenol-d5		5,011.4 µg/mL	+/- 29.1367	µg/mL	Gravimetric
	CAS # 4165-62-2	(Lot CD-105)		+/- 146.2494	µg/mL	Unstressed
	Purity 99%			+/- 177.4681	µg/mL	Stressed
3	Nitrobenzene-d5		5,003.0 µg/mL	+/- 29.0879	µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940B)		+/- 146.0043	µg/mL	Unstressed
	Purity 99%			+/- 177.1706	µg/mL	Stressed
4	2-Fluorobiphenyl		5,010.2 µg/mL	+/- 29.1297	µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00019169)		+/- 146.2144	µg/mL	Unstressed
	Purity 99%			+/- 177.4256	µg/mL	Stressed
5	2,4,6-Tribromophenol		5,003.9 µg/mL	+/- 29.0931	µg/mL	Gravimetric
	CAS # 118-79-6	(Lot MKCJ7664)		+/- 146.0306	µg/mL	Unstressed
	Purity 99%			+/- 177.2025	µg/mL	Stressed
6	p-Terphenyl-d14		5,013.8 µg/mL	+/- 29.1507	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 146.3195	µg/mL	Unstressed
	Purity 99%			+/- 177.5531	µg/mL	Stressed

Reagent

MED_HNO3_00813

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	A200	Quality Test / Release Date	03/01/2024
Lot Number	240238		
Description	NITRIC ACID, CERTIFIED ACS		
Country of Origin	United States	Suggested Retest Date	Feb/2029
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless free from suspended matter
ALUMINUM	ppm	<= 0.2	<0.2
ARSENIC (As)	ppm	<= 0.004	<0.004
ASSAY	w/w %	Inclusive Between 68.0 - 70.0	69.4
BORON (B)	ppm	<= 0.1	<0.1
CALCIUM (Ca)	ppm	<= 0.2	<0.2
CHLORIDE	ppm	<= 0.08	<0.08
CHROMIUM (Cr)	ppm	<= 0.1	<0.1
COLOR	APHA	<= 10	<10
COPPER (Cu)	ppm	<= 0.05	<0.05
GOLD (Au)	ppm	<= 0.3	<0.3
HEAVY METALS (as Pb)	ppm	<= 0.2	<0.2
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	ppm	<= 0.2	<0.2
LEAD (Pb)	ppm	<= 0.1	<0.1
MAGNESIUM (Mg)	ppm	<= 0.3	<0.3
NICKEL (Ni)	ppm	<= 0.05	<0.05
PHOSPHATE (PO4)	ppm	<= 0.2	<0.2
POTASSIUM (K)	ppm	<= 0.3	<0.3
RESIDUE AFTER IGNITION	ppm	<= 2	<2
SODIUM (Na)	ppm	<= 0.3	<0.3
SULFATE (SO4)	ppm	<= 0.5	<0.5
TIN (Sn)	ppm	<= 0.3	<0.3
TITANIUM (Ti)	ppm	<= 0.3	<0.3

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

ZINC (Zn)	ppm	<= 0.3	<0.3

Kalyan Paruchuri - Quality Control Supervisor - Bridgewater

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Reagent

MEH_1_STOCK_00005

7241262
ID: NEH_1_STOCK_00005
Exp: 05/30/25 Prpd: VAK
100 ppm Hg standard

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name:	Primary Safe Drinking Water Act no. 3, Mercury Standard	**Lot Number:**	0006684748
Product Number:	ICM-303	**Lot Issue Date:**	31-May-2022
Storage Conditions:	Store at Room Temperature (15° to 30°C). Light Sensitive.	**Expiration Date:**	30-Jun-2025

	CERTIFIED VALUES				
Component Name	Concentration		Expanded Uncertainty	CAS#	Analyte Lot
mercuric nitrate (ICP grade) (as mercury)	100.4	±	0.5 µg/mL	007783-34-8	RM11214

Matrix: water with dilute nitric acid

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system. The analyte concentration(s) were prepared and verified by an ISO 17034 / ISO 17025 accredited laboratory and compared to calibration standards independently prepared using NIST SRM(s) when available. The certified value and uncertainty value at the 95% confidence level for each analyte is determined gravimetrically.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Reagent

MV_BFB_STK_00095

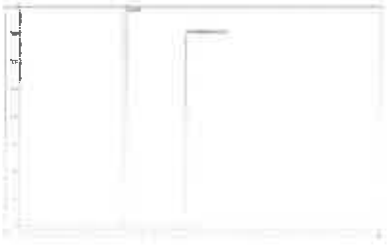
BFB 095-099

Supelco

www.sigmaaldrich.com
Document 20550009 Version 2.0

Certificate of Analysis - Certified Reference Material

4-Bromofluorobenzene solution



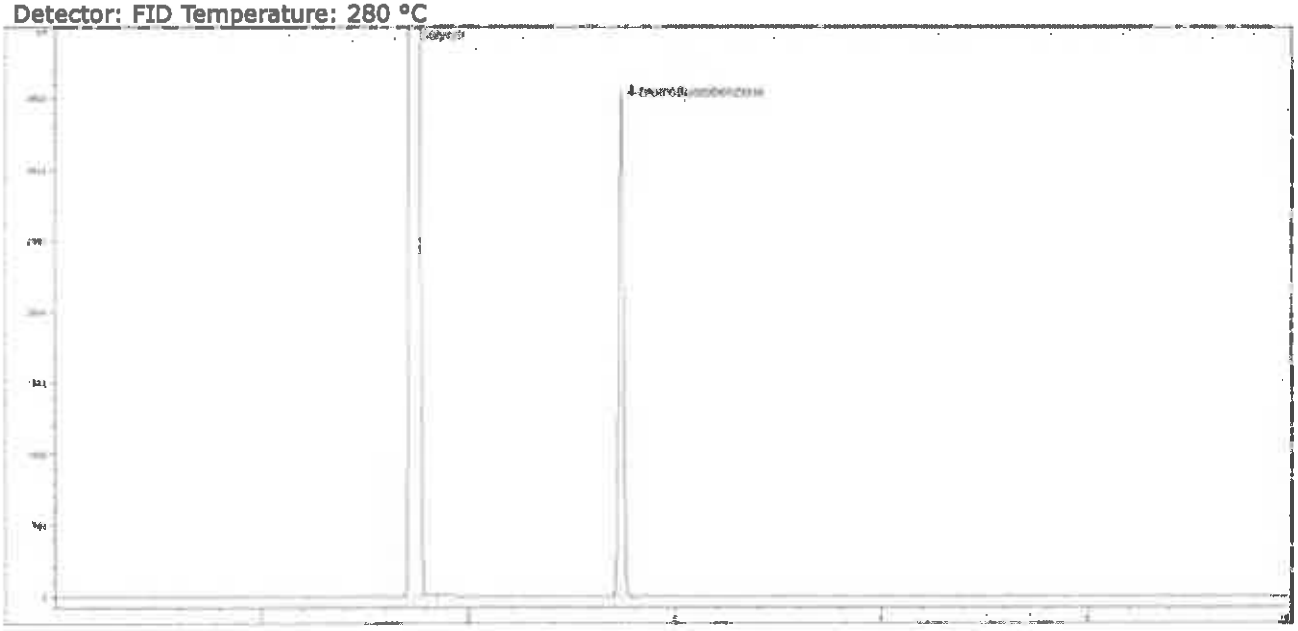
Product no.: 48800
Lot no.: LRAD6467
Expiry Date: November 2026
Manufacturing Date: November 2023
Storage: ROOM TEMPERATURE (2 °C to 30 °C)
Solvent/Matrix: METHANOL
Certificate version: LRAD6467.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Certified Values:

Analyte	Certified Value	Units	Raw Material Purity,%	Raw Material Lot
4-BROMOFLUOROBENZENE CAS# 460-00-4	25000 ± 786	µg/mL	99.9	LB48377

ASSAY Method

METHOD: GC (IN-HOUSE)
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H2 Flow Rate: 4.0 mL/min
Inlet Temperature: 160 °C Injection Volume: 1 µL
Injection Mode: Split Ratio: 35:1
Temperature Program: 120 °C (Hold 0 min) @ 20 °C/min to 180 °C (Hold 3 min)
Detector: FID Temperature: 280 °C



Elution details:

EO	TIME	ANALYTE
1	2.74	4-bromofluorobenzene

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

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:	10 NOV 2023

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:	Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. If k is not provided, assume a value of 2.0. 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 Ucrm calculation is as follows: $U_{crm} = \left(\sqrt{u^2_{characterisation} + u^2_{homogeneity} + u^2_{stability}}\right) \times k$
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 evaluation.

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD6467.01	10 NOV 2023	Original release date

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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

Reagent

O_8270/625LCS_00249

2mL
16mL
4mL
4mL
} ⇒ 100mL Acetone

Organic Prep
Spike / Surrogate Verification Form

8082606
ID: O_8270/625LCS_00249
Exp: 02/26/25 Prpd: Crt: 09/25/24
8270/625 LCS Spike Mix#1

Spike/Surrogate Method: 8270/625 LCS TALs Reagent

Spike/Surrogate Code: A193

Prepared By / Date: 9/25/24

Date Submitted for Analysis: 9/26/24

Solvent Exchanged? (YES) NO

Solvent Used for Exchange: CH_2Cl_2

Final Concentrated Volume: 1.0mL

Final Method Volume: 1.0mL

Final Method Volume Done by Prep? (Yes) No

Date of Analysis: 9/26/24

Analyzed By: Adam Zajac

Compounds within range of expected recovery? (YES) NO

Spike / Surrogate Verified for Preparation Use? (YES) NO

* Please return form with final concentration report to Organic Prep

BF-OP-SV-003 Spike Verification Form Rev. 1 11/18/2015

Preliminary Report

Eurofins Buffalo

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Buffalo\ChromData\HP5973V\20240926-120233.b\V3169314.d
Lims ID: LCS
Worklist ID: 480-0120233-016
Method: V-8270
Inj. Date: 26-Sep-2024 18:42:30
Instrument: HP5973V

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C
68 1,4-Dioxane	40.0	38.0	95.1	10-120
69 N-Nitrosodimethylamine	40.0	40.5	101.3	10-120
70 Pyridine	80.0	65.9	82.4	10-120
80 Benzaldehyde	80.0	103.3	129.1	10-140
82 Aniline	40.0	42.5	106.1	12-120
81 Phenol	40.0	41.6	104.0	17-120
83 Bis(2-chloroethyl)ether	40.0	43.7	109.2	44-120
84 2-Chlorophenol	40.0	44.4	110.9	48-120
263 n-Decane	40.0	40.5	101.2	23-121
87 1,3-Dichlorobenzene	40.0	40.9	102.2	40-120
88 1,4-Dichlorobenzene	40.0	41.6	103.9	42-120
90 Benzyl alcohol	40.0	44.8	112.1	41-126
91 1,2-Dichlorobenzene	40.0	43.7	109.3	45-120
248 Indene	320.0	324.6	101.4	31-120
93 2,2'-oxybis[1-chloropro	40.0	44.9	112.2	21-136
92 2-Methylphenol	40.0	44.2	110.5	39-120
94 Acetophenone	40.0	45.9	114.8	45-120
95 N-Nitrosodi-n-propylami	40.0	44.4	111.1	32-140
98 4-Methylphenol	40.0	47.3	118.3	29-131
99 Hexachloroethane	40.0	42.0	105.0	33-120
102 Nitrobenzene	40.0	42.4	106.1	53-123
106 Isophorone	40.0	45.8	114.4	55-120
107 2-Nitrophenol	40.0	42.8	107.0	52-125
108 2,4-Dimethylphenol	40.0	45.2	113.1	47-120
111 Bis(2-chloroethoxy)meth	40.0	44.8	112.1	50-128
114 2,4-Dichlorophenol	40.0	43.5	108.7	63-120
115 Benzoic acid	320.0	256.8	80.2	10-120
117 1,2,4-Trichlorobenzene	40.0	42.7	106.6	40-120
118 Naphthalene	40.0	42.8	107.1	57-120
119 4-Chloroaniline	40.0	42.8	107.0	30-120
122 2,6-Dichlorophenol	40.0	45.2	112.9	62-120
121 Hexachlorobutadiene	40.0	44.4	111.0	35-120
124 Caprolactam	80.0	92.7	115.8	22-120
129 4-Chloro-3-methylphenol	40.0	46.9	117.3	61-123
131 2-Methylnaphthalene	40.0	45.3	113.3	59-120
251 1-Methylnaphthalene	40.0	45.8	114.4	51-120
134 Hexachlorocyclopentadie	40.0	39.5	98.8	31-120
135 1,2,4,5-Tetrachlorobenz	40.0	43.1	107.7	53-120
137 2,4,6-Trichlorophenol	40.0	43.9	109.7	64-120
138 2,4,5-Trichlorophenol	40.0	44.4	110.9	65-126
140 1,1'-Biphenyl	40.0	43.6	109.0	59-120

Preliminary Report

Sample Path: \\chromfs\Buffalo\ChromData\HP5973V\20240926-120233.b\V3169314.d

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C
141 2-Chloronaphthalene	40.0	44.2	110.6	58-120
143 2-Nitroaniline	40.0	46.0	114.9	54-127
146 Dimethyl phthalate	40.0	46.2	115.5	69-120
148 1,3-Dinitrobenzene	40.0	46.0	114.9	68-131
149 2,6-Dinitrotoluene	40.0	45.7	114.2	68-120
150 Acenaphthylene	40.0	46.3	115.9	63-120
151 3-Nitroaniline	40.0	40.2	100.4	51-120
152 Acenaphthene	40.0	43.8	109.6	60-120
153 2,4-Dinitrophenol	80.0	83.1	103.9	31-137
154 4-Nitrophenol	80.0	82.6	103.2	45-120
155 Dibenzofuran	40.0	44.4	111.1	66-120
156 2,4-Dinitrotoluene	40.0	45.7	114.2	69-120
158 2,3,4,6-Tetrachlorophen	40.0	45.9	114.8	63-120
161 Diethyl phthalate	40.0	47.3	118.1	59-127
256 Hexadecane	40.0	46.4	115.9	37-122
162 Fluorene	40.0	45.8	114.5	66-120
163 4-Chlorophenyl phenyl e	40.0	44.4	110.9	62-120
164 4-Nitroaniline	40.0	44.6	111.6	65-120
165 4,6-Dinitro-2-methylphe	80.0	87.5	109.4	46-136
169 Diphenylamine	34.2	37.8	110.6	61-120
168 N-Nitrosodiphenylamine	40.0	44.2	110.6	61-120
170 1,2-Diphenylhydrazine	40.0	46.8	116.9	41-135
171 Azobenzene	40.0	46.0	114.9	41-135
175 4-Bromophenyl phenyl et	40.0	46.4	115.9	65-120
179 Hexachlorobenzene	40.0	45.2	113.1	61-120
180 Atrazine	80.0	93.1	116.4	71-130
183 Pentachlorophenol	80.0	86.5	108.2	10-136
285 n-Octadecane	40.0	47.6	119.0	41-129
188 Phenanthrene	40.0	44.8	112.1	68-120
189 Anthracene	40.0	46.6	116.5	67-120
192 Carbazole	40.0	46.4	116.1	66-123
195 Di-n-butyl phthalate	40.0	46.8	116.9	69-131
201 Fluoranthene	40.0	47.2	118.0	69-126
202 Benzidine	40.0	52.2	130.4	5-120*
204 Pyrene	40.0	44.6	111.6	70-125
210 Butyl benzyl phthalate	40.0	45.5	113.7	70-129
215 3,3'-Dichlorobenzidine	40.0	49.1	122.9	49-135
217 Benzo[a]anthracene	40.0	45.0	112.5	70-121
216 Bis(2-ethylhexyl) phtha	40.0	46.2	115.4	63-139
218 Chrysene	40.0	42.8	107.1	69-120
220 Di-n-octyl phthalate	40.0	47.5	118.7	63-140
221 Benzo[b]fluoranthene	40.0	46.6	116.5	66-126
222 Benzo[k]fluoranthene	40.0	42.6	106.5	65-124
225 Benzo[a]pyrene	40.0	44.7	111.7	60-123
227 Indeno[1,2,3-cd]pyrene	40.0	43.0	107.4	69-146
228 Dibenz(a,h)anthracene	40.0	42.6	106.6	65-135

Report Date: 27-Sep-2024 13:57:02 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Preliminary Report

Sample Path: \\chromfs\Buffalo\ChromData\HP5973V\20240926-120233.b\V3169314.d

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C
229 Benzo[g,h,i]perylene	40.0	42.8	107.2	66-150
S 233 3-Methylphenol	40.0	47.3	118.3	39-120

Samples for Limit Group: 1, Lims Prep Method: 3510C

480-223579-B-1-G 480-223579-B-2-E 480-223579-B-3-G
480-223579-B-4-G 480-223579-B-5-G 480-223579-B-6-G
480-223618-A-1-C

Reagent

O_8270LL LCS_00159

20mL→100mL
Acetone

Organic Prep
Spike / Surrogate Verification Form

Spike/Surrogate Method: 8270LL/LVI, 625 LVI TALs Reagent ID: 8086832 ID: O_8270LL LCS_00169 Exp: 03/28/25 Prpd: Ctl: 08/30/24 8270 LVI/LL LCS spike @ 8

Spike/Surrogate Code: A302

Prepared By / Date: SP 9/30/24

Date Submitted for Analysis: 9/30/24

Solvent Exchanged? (YES) NO

Solvent Used for Exchange: MeCl2

Final Concentrated Volume: 1.0mL

Final Method Volume: 1.0mL

Final Method Volume Done by Prep? (Yes) No

Date of Analysis: 10/1/24

Analyzed By: QF

Compounds within range of expected recovery? (YES) NO

Spike / Surrogate Verified for Preparation Use? (YES) NO

* Please return form with final concentration report to Organic Prep

Preliminary Report

Eurofins Buffalo

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Buffalo\ChromData\HP5973Y\20241001-120306.b\Y039038.D
Lims ID: LCS
Worklist ID: 480-0120306-005
Method: Y-LVI-8270
Inj. Date: 02-Oct-2024 04:43:30
Instrument: HP5973Y

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C_LVI
13 1,4-Dioxane	8.00	6.76	84.7	10-120
14 N-Nitrosodimethylamine	8.00	6.91	86.4	10-120
15 Pyridine	16.0	10.8	67.2	10-120
35 Benzaldehyde	16.0	13.5	84.2	10-140
37 Phenol	8.00	7.32	91.6	17-120
38 Aniline	8.00	5.66	70.8	12-120
39 Bis(2-chloroethyl)ether	8.00	8.39	104.9	44-120
41 n-Decane	8.00	6.88	86.1	23-121
40 2-Chlorophenol	8.00	7.70	96.3	48-120
43 1,3-Dichlorobenzene	8.00	7.79	97.4	40-120
44 1,4-Dichlorobenzene	8.00	7.72	96.6	42-120
45 Benzyl alcohol	8.00	7.87	98.4	41-126
46 1,2-Dichlorobenzene	8.00	7.80	97.5	46-120
48 2-Methylphenol	8.00	7.70	96.2	39-120
49 2,2'-oxybis[1-chloropro	8.00	6.92	86.5	21-136
47 Indene	64.0	60.4	94.4	31-120
57 4-Methylphenol	8.00	7.98	99.8	29-131
53 N-Nitrosodi-n-propylami	8.00	7.34	91.8	32-140
52 Acetophenone	8.00	7.52	93.9	45-120
58 Hexachloroethane	8.00	7.80	95.0	33-120
59 Nitrobenzene	8.00	7.82	97.7	53-123
62 Isophorone	8.00	8.08	101.1	55-120
64 2-Nitrophenol	8.00	8.27	103.3	52-125
66 2,4-Dimethylphenol	8.00	7.89	98.7	47-120
69 Bis(2-chloroethoxy)meth	8.00	8.28	103.4	50-128
70 Benzoic acid	64.0	46.2	72.2	10-120
72 2,4-Dichlorophenol	8.00	8.08	101.0	63-120
73 1,2,4-Trichlorobenzene	8.00	8.11	101.4	40-120
74 Naphthalene	8.00	7.92	99.1	57-120
76 4-Chloroaniline	8.00	6.46	80.8	30-120
77 2,6-Dichlorophenol	8.00	8.20	102.5	62-120
79 Hexachlorobutadiene	8.00	8.74	109.2	35-120
84 Caprolactam	16.0	14.6	91.2	22-120
85 4-Chloro-3-methylphenol	8.00	8.10	101.3	61-123
87 2-Methylnaphthalene	8.00	8.05	100.6	59-120
89 1-Methylnaphthalene	8.00	8.43	105.3	51-120
90 Hexachlorocyclopentadie	8.00	6.04	75.5	31-120
91 1,2,4,5-Tetrachlorobenz	8.00	8.21	102.7	53-120
93 2,4,6-Trichlorophenol	8.00	8.09	101.2	64-120
94 2,4,5-Trichlorophenol	8.00	8.45	105.6	65-126
96 1,1'-Biphenyl	8.00	7.93	99.1	59-120

Preliminary Report

Sample Path: \\chromfs\Buffalo\ChromData\HP5973Y\20241001-120306.b\Y039038.D

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C_LVI
97 2-Chloronaphthalene	8.00	7.74	96.8	58-120
100 2-Nitroaniline	8.00	7.72	96.5	54-127
105 Dimethyl phthalate	8.00	8.20	102.5	68-120
106 1,3-Dinitrobenzene	8.00	9.18	114.7	68-131
107 2,6-Dinitrotoluene	8.00	8.46	105.7	68-120
108 Acenaphthylene	8.00	8.20	102.5	63-120
109 3-Nitroaniline	8.00	6.32	79.0	51-120
110 Acenaphthene	8.00	7.97	99.7	60-120
111 2,4-Dinitrophenol	16.0	11.9	74.5	31-137
112 4-Nitrophenol	16.0	14.4	89.9	45-120
114 2,4-Dinitrotoluene	8.00	8.48	106.0	69-120
115 Dibenzofuran	8.00	8.23	102.8	66-120
118 2,3,4,6-Tetrachlorophen	8.00	7.03	87.9	63-120
121 Hexadecane	8.00	7.61	95.1	37-122
120 Diethyl phthalate	8.00	7.60	95.0	59-127
123 4-Chlorophenyl phenyl e	8.00	8.17	102.1	62-120
124 Fluorene	8.00	8.38	104.7	66-120
126 4-Nitroaniline	8.00	7.09	88.6	65-120
127 4,6-Dinitro-2-methylphe	16.0	12.7	79.7	46-136
129 Diphenylamine	6.84	6.76	98.8	61-120
130 N-Nitrosodiphenylamine	8.00	7.91	98.8	61-120
131 1,2-Diphenylhydrazine	8.00	7.81	97.6	41-135
132 Azobenzene	8.00	7.81	97.6	41-135
139 4-Bromophenyl phenyl et	8.00	8.60	107.5	65-120
140 Hexachlorobenzene	8.00	7.58	94.8	61-120
143 Atrazine	16.0	16.0	100.3	71-130
148 n-Octadecane	8.00	7.08	88.5	41-129
145 Pentachlorophenol	16.0	11.3	70.6	10-136
151 Phenanthrene	8.00	8.43	105.4	68-120
152 Anthracene	8.00	8.85	110.7	67-120
153 Carbazole	8.00	8.29	103.7	66-123
157 Di-n-butyl phthalate	8.00	7.95	99.4	69-131
164 Fluoranthene	8.00	8.91	111.3	69-126
166 Benzidine	8.00	6.68	83.5	5-120
167 Pyrene	8.00	9.05	113.2	70-125
174 Butyl benzyl phthalate	8.00	8.29	103.7	70-129
181 Bis(2-ethylhexyl) phtha	8.00	8.22	102.8	63-139
179 3,3'-Dichlorobenzidine	8.00	7.68	96.0	49-135
180 Benzo[a]anthracene	8.00	8.78	109.7	70-121
182 Chrysene	8.00	8.71	108.8	69-120
184 Di-n-octyl phthalate	8.00	8.72	109.0	63-140
186 Benzo[b]fluoranthene	8.00	8.87	110.9	66-126
187 Benzo[k]fluoranthene	8.00	8.82	110.3	65-124
189 Benzo[a]pyrene	8.00	8.94	111.8	60-123
194 Dibenz(a,h)anthracene	8.00	9.14	114.2	65-135
193 Indeno[1,2,3-cd]pyrene	8.00	8.93	111.7	69-146

Preliminary Report

Sample Path: \\chromfs\Buffalo\ChromData\HP5973Y\20241001-120306.b\Y039038.D

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C_LVI
195 Benzo[g,h,i]perylene	8.00	8.70	108.8	66-150
S 263 3-Methylphenol	8.00	7.98	99.8	39-120

Samples for Limit Group: 1, Lims Prep Method: 3510C_LVI

480-223792-F-9-A
480-223792-E-1-A
480-223792-J-2-A
480-223792-G-3-A
480-223792-H-4-A
480-223792-C-5-A
480-223767-C-1-A
480-223767-C-2-A
480-223767-C-3-A
480-223767-D-4-A
480-223767-C-5-A
480-223767-C-6-A
480-223767-D-7-A
480-223767-D-8-A
480-223767-D-9-A
480-223767-C-10-A

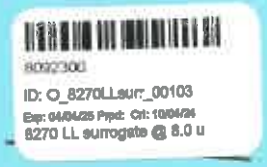
Reagent

O_8270LLsurr_00103

1.6mL → 1000mL
Acetone

Organic Prep
Spike / Surrogate Verification Form

Spike/Surrogate Method: 8270LL/LVI(625)VI TALs Reagent ID:



Spike/Surrogate Code: ASS

Prepared By / Date: SP 10/4/24

Date Submitted for Analysis: 10/7/24

Solvent Exchanged? (YES) NO

Solvent Used for Exchange: $MeCl_2$

Final Concentrated Volume: 1.0mL

Final Method Volume: 1.0mL

Final Method Volume Done by Prep? (Yes) No

Date of Analysis: 10/8/24

Analyzed By: JM

Compounds within range of expected recovery? (YES) NO

Spike / Surrogate Verified for Preparation Use? (YES) NO

* Please return form with final concentration report to Organic Prep

Preliminary Report

Eurofins Buffalo

Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241007-120386.b\Y04000.D
Lims ID: Surr
Client ID:
Sample Type: Client
Inject. Date: 08-Oct-2024 03:59:30 ALS Bottle#: 37 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120386-009
Operator ID: AF Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241007-120386.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 08-Oct-2024 08:34:25 Calib Date: 01-Oct-2024 12:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241001-120301.b\Y039003.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1617

Compound	Amount Added	Amount Recovered	% Rec.	LCMS Limits
$ 7 2-Fluorophenol	8.00	6.51	81.34	24-120
$ 8 Phenol-d5	8.00	5.81	72.58	10-120
$ 9 Nitrobenzene-d5	8.00	5.94	74.31	29-129
$ 10 2-Fluorobiphenyl	8.00	7.43	92.87	53-120
$ 11 2,4,6-Tribromophenol	8.00	5.50	68.70	25-144
$ 12 p-Terphenyl-d14	8.00	7.51	93.89	53-132

Reagent

O_8270MegaMix_00195

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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. : 571995 **Lot No.:** A0213533

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

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

Handling: Sonicate prior to use, Carcinogen/reproductive toxin, Photosensitive. Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBR4317	99%	1,001.1 µg/mL	+/- 18.5007
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,000.0 µg/mL	+/- 18.4800
3	Pyridine	110-86-1	SHBP6240	99%	2,010.6 µg/mL	+/- 37.1478
4	Phenol	108-95-2	MKCK1120	99%	1,005.1 µg/mL	+/- 18.5747
5	Aniline	62-53-3	X22F726	99%	1,001.9 µg/mL	+/- 18.5146
6	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,002.2 µg/mL	+/- 18.6760
7	n-Decane (C10)	124-18-5	SHBQ1342	99%	1,002.3 µg/mL	+/- 18.5215
8	2-Chlorophenol	95-57-8	STBJ3909	99%	1,009.3 µg/mL	+/- 18.6509
9	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,000.1 µg/mL	+/- 18.4823
10	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,000.5 µg/mL	+/- 18.4892
11	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.4 µg/mL	+/- 18.5423
12	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,006.3 µg/mL	+/- 18.5955
13	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.5 µg/mL	+/- 18.5631
14	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,002.1 µg/mL	+/- 18.6748
15	Acetophenone	98-86-2	STBH8205	99%	1,006.5 µg/mL	+/- 18.6001
16	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	500.6 µg/mL	+/- 9.2515

7998744 ID: O_8270MegaMix_00192 Exp: 05/31/25 Prpd: 8270 List 1/Std#1 Mega MI

7998745 ID: O_8270MegaMix_00193 Exp: 05/31/25 Prpd: 8270 List 1/Std#1 Mega MI

7998746 ID: O_8270MegaMix_00194 Exp: 05/31/25 Prpd: 8270 List 1/Std#1 Mega MI

7998903 ID: O_8270MegaMix_00195 Exp: 05/31/25 Prpd: 8270 List 1/Std#1 Mega MI

7998907 ID: O_8270MegaMix_00196 Exp: 05/31/25 Prpd: 8270 List 1/Std#1 Mega MI

17	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.0 µg/mL	+/- 9.2769
18	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,002.9 µg/mL	+/- 18.5331
19	Hexachloroethane	67-72-1	DAXRI	99%	1,001.9 µg/mL	+/- 18.6702
20	Nitrobenzene	98-95-3	10224044	99%	1,001.9 µg/mL	+/- 18.6714
21	Isophorone	78-59-1	MKCC9506	99%	1,001.8 µg/mL	+/- 18.6679
22	2-Nitrophenol	88-75-5	RP230710	99%	1,008.0 µg/mL	+/- 18.6278
23	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.1 µg/mL	+/- 18.5377
24	Bis(2-chloroethoxy)methane	111-91-1	15174900	99%	1,002.6 µg/mL	+/- 18.6842
25	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,004.3 µg/mL	+/- 18.5585
26	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,001.3 µg/mL	+/- 18.5031
27	Naphthalene	91-20-3	STBL1057	99%	1,001.8 µg/mL	+/- 18.6679
28	2,6-Dichlorophenol	87-65-0	MKCP7682	99%	1,006.4 µg/mL	+/- 18.5978
29	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,000.5 µg/mL	+/- 18.4892
30	Hexachlorobutadiene	87-68-3	X05J	99%	1,002.1 µg/mL	+/- 18.6748
31	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,002.3 µg/mL	+/- 18.5215
32	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,002.8 µg/mL	+/- 18.5308
33	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,002.3 µg/mL	+/- 18.5224
34	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,004.0 µg/mL	+/- 18.5539
35	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,000.6 µg/mL	+/- 18.6461
36	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,001.9 µg/mL	+/- 18.5146
37	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,002.6 µg/mL	+/- 18.5283
38	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.8 µg/mL	+/- 18.6690
39	Biphenyl	92-52-4	MKCL6515	99%	1,005.6 µg/mL	+/- 18.5839
40	2-Nitroaniline	88-74-4	RP240418RSR	99%	1,001.5 µg/mL	+/- 18.5077
41	Acenaphthylene	208-96-8	214935V16F	97%	999.6 µg/mL	+/- 18.6286
42	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,000.8 µg/mL	+/- 18.4938
43	Dimethylphthalate	131-11-3	358221L17K	99%	1,002.1 µg/mL	+/- 18.6737
44	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,002.4 µg/mL	+/- 18.6807
45	3-Nitroaniline	99-09-2	RP231103CTH-1	99%	1,002.6 µg/mL	+/- 18.5285
46	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0 µg/mL	+/- 18.6352
47	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	2,003.1 µg/mL	+/- 37.0092
48	Dibenzofuran	132-64-9	MKCN1772	99%	1,001.8 µg/mL	+/- 18.5123
49	4-Nitrophenol	100-02-7	RP230627	99%	2,009.1 µg/mL	+/- 37.1200
50	2,4-Dinitrotoluene	121-14-2	102869L10R	99%	1,002.3 µg/mL	+/- 18.6772
51	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,002.9 µg/mL	+/- 18.5331
52	Fluorene	86-73-7	10241100	99%	1,002.2 µg/mL	+/- 18.6760

7996912
ID: O_8270MegaMix_00197
Exp: 05/31/25 Prpd:
8270 List 1/Std#1 Mega MI

7996913
ID: O_8270MegaMix_00198
Exp: 05/31/25 Prpd:
8270 List 1/Std#1 Mega MI

7996914
ID: O_8270MegaMix_00199
Exp: 05/31/25 Prpd:
8270 List 1/Std#1 Mega MI

53	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	1,005.3	µg/mL	+/- 18.5770
54	Diethylphthalate	84-66-2	BCCJ6241	99%	1,001.8	µg/mL	+/- 18.6679
55	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,002.0	µg/mL	+/- 18.6725
56	4-Nitroaniline	100-01-6	RP240510RSR	99%	1,002.4	µg/mL	+/- 18.5238
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S240403RSR	99%	2,012.1	µg/mL	+/- 37.1755
58	Diphenylamine	122-39-4	MKCT1512	99%	853.3	µg/mL	+/- 15.7680
59	Azobenzene	103-33-3	BCCK0887	99%	1,004.5	µg/mL	+/- 18.5631
60	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,001.6	µg/mL	+/- 18.6655
61	Hexachlorobenzene	118-74-1	15178300	99%	1,002.3	µg/mL	+/- 18.6772
62	Pentachlorophenol	87-86-5	RP240517RSR	99%	2,009.1	µg/mL	+/- 37.1200
63	n-Octadecane (C18)	593-45-3	UE5NG	98%	1,004.7	µg/mL	+/- 18.5676
64	Phenanthrene	85-01-8	MKCS5188	99%	1,001.7	µg/mL	+/- 18.6667
65	Anthracene	120-12-7	MKCR0570	99%	1,002.5	µg/mL	+/- 18.6818
66	Carbazole	86-74-8	15276700	99%	1,000.1	µg/mL	+/- 18.4823
67	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,002.3	µg/mL	+/- 18.6772
68	Fluoranthene	206-44-0	MKCQ4728	99%	1,001.7	µg/mL	+/- 18.6667
69	Pyrene	129-00-0	BCCK2592	99%	1,001.6	µg/mL	+/- 18.6644
70	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,001.8	µg/mL	+/- 18.6679
71	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.8	µg/mL	+/- 18.6877
72	Chrysene	218-01-9	RP240326CTH	99%	1,002.3	µg/mL	+/- 18.6772
73	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,001.9	µg/mL	+/- 18.6702
74	Di-n-octyl phthalate	117-84-0	15276800	99%	1,001.8	µg/mL	+/- 18.6679
75	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,001.6	µg/mL	+/- 18.6655
76	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,001.7	µg/mL	+/- 18.6667
77	Benzo(a)pyrene	50-32-8	O45GL	98%	1,001.5	µg/mL	+/- 18.6632
78	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.5	µg/mL	+/- 18.6625
79	Dibenz(a,h)anthracene	53-70-3	I-SLH-51-I	99%	1,001.6	µg/mL	+/- 18.6655
80	Benzo(g,h,i)perylene	191-24-2	RP240530RSR	98%	1,002.2	µg/mL	+/- 18.6757

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:
N-nitrosodiphenylamine 1000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 855 ug/mL. N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine. N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed. This lot was approved even though the %D for 4,6-DN-2-MP was greater than 10%.

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

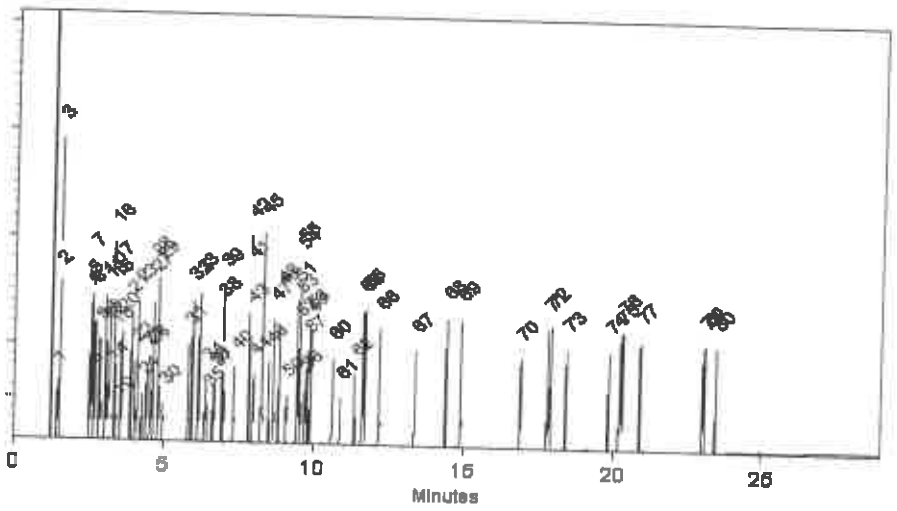
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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.

Rebecca Gingerich - Operations Tech II

Date Mixed: 08-Jul-2024 **Balance Serial #** B442140311

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 12-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

O_8270surr_st_00137

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 567685 **Lot No.:** A0209099

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : March 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2
1	2-Fluorophenol	367-12-4	STBK1705	99%	5,007.3 µg/mL	+/- 151.4093
2	Phenol-d5	4165-62-2	HJ-481	99%	5,031.1 µg/mL	+/- 152.1313
3	Nitrobenzene-d5	4165-60-0	PR-33424A	99%	5,009.4 µg/mL	+/- 151.4736
4	2-Fluorobiphenyl	321-60-8	00021384	99%	5,014.0 µg/mL	+/- 151.6134
5	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	5,023.3 µg/mL	+/- 151.8931
6	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,003.3 µg/mL	+/- 151.2884

* Expanded Uncertainty displayed in same units as Grav. Con

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

7915532
ID: O_8270surr_st_00133
Exp: 03/31/29 Prpd:
8270 Surrogate Standard @

7915533
ID: O_8270surr_st_00134
Exp: 03/31/29 Prpd:
8270 Surrogate Standard @

7915534
ID: O_8270surr_st_00135
Exp: 03/31/29 Prpd:
8270 Surrogate Standard @

7915535
ID: O_8270surr_st_00136
Exp: 03/31/29 Prpd:
8270 Surrogate Standard @

7915536
ID: O_8270surr_st_00137
Exp: 03/31/29 Prpd:
8270 Surrogate Standard @

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

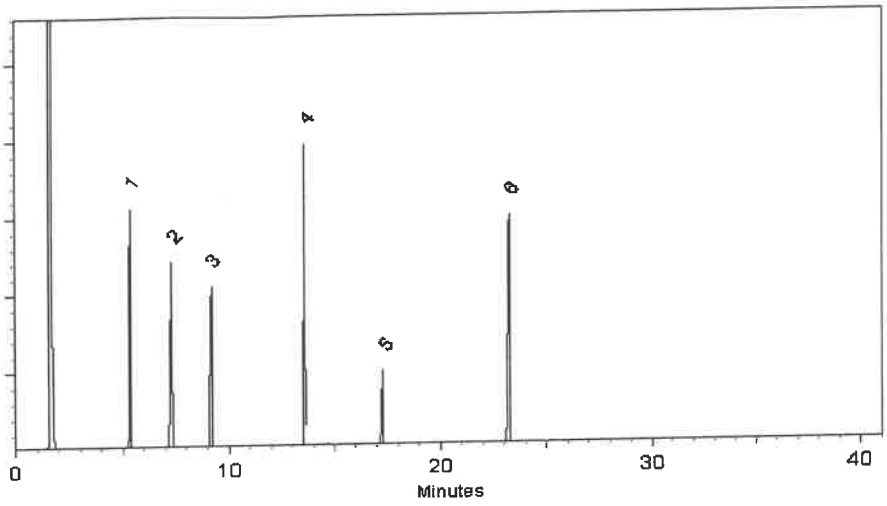
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
0.2µl



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.

Michael Maye - Operations Tech I

Date Mixed: 14-Mar-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Mar-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SS_Ketones_00100

SS.
Ketones 091-100

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Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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. : 569721.SEC **Lot No.:** A0184721

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1.SEC (Lot T20G008) **Purity** 99%	12,520.4 µg/mL	+/- 73.3097 µg/mL +/- 755.4610 µg/mL +/- 757.2544 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3.SEC (Lot HDLUO) **Purity** 99%	12,520.8 µg/mL	+/- 73.3120 µg/mL +/- 755.4852 µg/mL +/- 757.2786 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1.SEC (Lot E29T040) **Purity** 99%	12,514.8 µg/mL	+/- 73.2769 µg/mL +/- 755.1231 µg/mL +/- 756.9157 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6.SEC (Lot Y3TUO) **Purity** 99%	12,514.0 µg/mL	+/- 73.2722 µg/mL +/- 755.0749 µg/mL +/- 756.8673 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

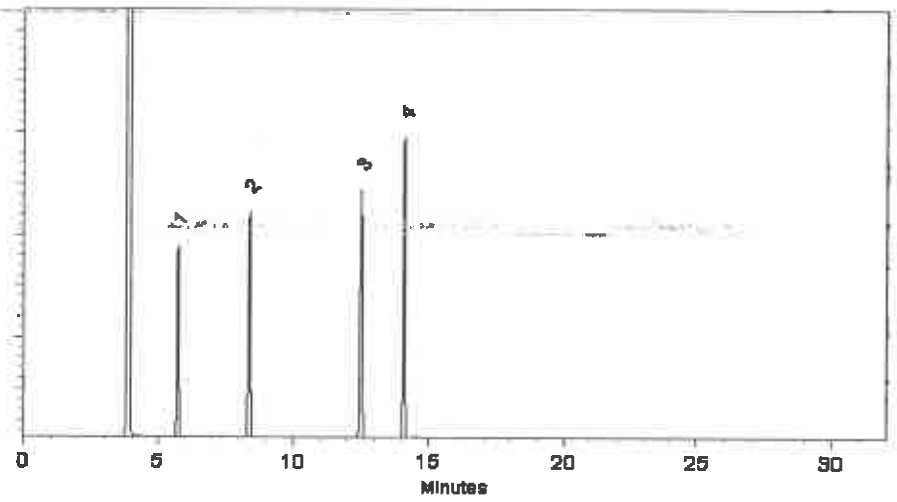
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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:
FID



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.

Jess Hoy - Operations Tech I

Date Mixed: 29-Apr-2022 Balance: B345965662

Christie Mills - Operations Technician II

Date Passed: 03-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:

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

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 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) -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.
- 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

SS_MegaMix_00133

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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

124 – 133

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.SEC **Lot No.:** A0195252

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 : August 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Diethyl ether (ethyl ether)	60-29-7.SEC	F23X068	99%	2,516.7 µg/mL	+/- 86.9644
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC	18342	99%	2,520.0 µg/mL	+/- 87.0795
3	1,1-Dichloroethene	75-35-4.SEC	13896500	99%	2,525.0 µg/mL	+/- 87.2523
4	tert-Butanol (TBA)	75-65-0.SEC	DI34O	99%	25,129.5 µg/mL	+/- 868.3580
5	Methyl acetate	79-20-9.SEC	UCNEL	99%	5,029.0 µg/mL	+/- 173.7790
6	Iodomethane (methyl iodide)	74-88-4.SEC	Y25A027	99%	2,521.7 µg/mL	+/- 87.1371
7	Allyl chloride (3-chloropropene)	107-05-1.SEC	RD210329	99%	2,518.2 µg/mL	+/- 87.0162
8	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	2,516.7 µg/mL	+/- 86.9644
9	Carbon disulfide	75-15-0.SEC	MKBL1376V	99%	2,511.7 µg/mL	+/- 86.7916
10	Acrylonitrile	107-13-1.SEC	V54AD	99%	25,200.3 µg/mL	+/- 870.8057
11	Methyl-tert-butyl ether (MTBE)	1634-04-4.SEC	CDCQG	99%	2,517.3 µg/mL	+/- 86.9874
12	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	2,515.3 µg/mL	+/- 86.9183
13	n-Hexane (C6)	110-54-3.SEC	10188491	99%	2,514.7 µg/mL	+/- 86.8953
14	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	2,512.6 µg/mL	+/- 86.8223
15	2,2-Dichloropropane	594-20-7.SEC	GI01	99%	2,521.5 µg/mL	+/- 87.1314
16	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	2,525.0 µg/mL	+/- 87.2523

17	Isobutanol (2-Methyl-1-propanol)	78-83-1.SEC PH2XK	99%	62,830.8 µg/mL	+/- 2,171.1398
18	Chloroform	67-66-3.SEC 1297547	99%	2,511.7 µg/mL	+/- 86.7916
19	Bromochloromethane	74-97-5 * 230206JLM	99%	2,515.7 µg/mL	+/- 86.9298
20	Tetrahydrofuran	109-99-9.SEC 3NYHE	99%	5,018.5 µg/mL	+/- 173.4162
21	1,1,1-Trichloroethane	71-55-6.SEC 13891800	99%	2,506.5 µg/mL	+/- 86.6130
22	Cyclohexane	110-82-7.SEC YADRA	99%	2,523.3 µg/mL	+/- 87.1947
23	1,1-Dichloropropene	563-58-6.SEC 556500	99%	2,520.5 µg/mL	+/- 87.0968
24	Carbon tetrachloride	56-23-5.SEC 11466	99%	2,520.5 µg/mL	+/- 87.0968
25	n-Heptane (C7)	142-82-5.SEC TFHUC	99%	2,516.5 µg/mL	+/- 86.9586
26	1,2-Dichloroethane	107-06-2.SEC 00016165	99%	2,519.8 µg/mL	+/- 87.0738
27	Benzene	71-43-2.SEC 101960P29K	99%	2,518.8 µg/mL	+/- 87.0392
28	Trichloroethene	79-01-6.SEC H04X050	99%	2,524.3 µg/mL	+/- 87.2293
29	Methylcyclohexane	108-87-2.SEC Q02QG	99%	2,515.8 µg/mL	+/- 86.9356
30	1,2-Dichloropropane	78-87-5.SEC ERRBI-RH	99%	2,516.8 µg/mL	+/- 86.9701
31	1,4-Dioxane	123-91-1.SEC QHRWO	99%	50,137.2 µg/mL	+/- 1,732.5061
32	Dibromomethane	74-95-3.SEC MOKKJ	99%	2,516.3 µg/mL	+/- 86.9528
33	cis-1,3-Dichloropropene	10061-01-5.SEC ZLXJ-TJ	99%	2,502.8 µg/mL	+/- 86.4863
34	Toluene	108-88-3.SEC YND2B-BD	99%	2,522.2 µg/mL	+/- 87.1544
35	Ethyl methacrylate	97-63-2.SEC AQSPO	99%	2,510.8 µg/mL	+/- 86.7628
36	trans-1,3-Dichloropropene	10061-02-6.SEC DMSL	98%	2,517.1 µg/mL	+/- 86.9804
37	1,1,2-Trichloroethane	79-00-5.SEC 9245400	99%	2,512.2 µg/mL	+/- 86.8089
38	1,3-Dichloropropane	142-28-9.SEC IQCON	99%	2,519.3 µg/mL	+/- 87.0565
39	Tetrachloroethene	127-18-4.SEC F09W014	99%	2,521.3 µg/mL	+/- 87.1256
40	Dibromochloromethane	124-48-1.SEC 10234064	99%	2,517.5 µg/mL	+/- 86.9932
41	1,2-Dibromoethane (EDB)	106-93-4.SEC 050675P15E	99%	2,518.3 µg/mL	+/- 87.0220
42	Chlorobenzene	108-90-7.SEC 1161936	99%	2,515.8 µg/mL	+/- 86.9356
43	m-Xylene	108-38-3.SEC 7ZV6F	99%	1,255.3 µg/mL	+/- 43.3814
44	p-Xylene	106-42-3.SEC D6UOA	99%	1,260.3 µg/mL	+/- 43.5541
45	Ethylbenzene	100-41-4.SEC PI4SE	99%	2,517.7 µg/mL	+/- 86.9989
46	1,1,1,2-Tetrachloroethane	630-20-6.SEC 13789800	99%	2,517.5 µg/mL	+/- 86.9932
47	o-Xylene	95-47-6.SEC UJ6RI	99%	2,515.8 µg/mL	+/- 86.9356
48	Styrene	100-42-5.SEC QGQ7F	99%	2,521.3 µg/mL	+/- 87.1256
49	Isopropylbenzene (cumene)	98-82-8.SEC 7P24L	99%	2,515.0 µg/mL	+/- 86.9068
50	Bromoform	75-25-2.SEC 13723500	99%	2,522.5 µg/mL	+/- 87.1659
51	Bromodichloromethane	75-27-4.SEC 28128	99%	2,524.2 µg/mL	+/- 87.2235
52	1,1,2,2-Tetrachloroethane	79-34-5.SEC BCCD5088	99%	2,523.7 µg/mL	+/- 87.2063

53	1,2,3-Trichloropropane	96-18-4.SEC 6V2ED	99%	2,522.2	µg/mL	+/- 87.1544
54	trans-1,4-Dichloro-2-butene	110-57-6.SEC RD230316RSR	96%	2,517.0	µg/mL	+/- 86.9745
55	n-Propylbenzene	103-65-1.SEC XCGEC	99%	2,518.8	µg/mL	+/- 87.0392
56	Bromobenzene	108-86-1.SEC 2FUHG-EM	99%	2,518.3	µg/mL	+/- 87.0220
57	1,3,5-Trimethylbenzene	108-67-8.SEC GI2SM	99%	2,514.3	µg/mL	+/- 86.8837
58	2-Chlorotoluene	95-49-8.SEC BRHPM	99%	2,515.7	µg/mL	+/- 86.9298
59	4-Chlorotoluene	106-43-4.SEC S5SKD	99%	2,518.8	µg/mL	+/- 87.0392
60	tert-Butylbenzene	98-06-6.SEC D6OHC	99%	2,522.0	µg/mL	+/- 87.1487
61	1,2,4-Trimethylbenzene	95-63-6.SEC JHZDD	99%	2,517.3	µg/mL	+/- 86.9874
62	sec-Butylbenzene	135-98-8.SEC O4HRF	99%	2,522.0	µg/mL	+/- 87.1487
63	4-Isopropyltoluene (p-cymene)	99-87-6.SEC 13889300	98%	2,518.1	µg/mL	+/- 87.0142
64	1,3-Dichlorobenzene	541-73-1.SEC ZA2ZI	99%	2,515.0	µg/mL	+/- 86.9068
65	1,4-Dichlorobenzene	106-46-7.SEC J5GVD	99%	2,522.5	µg/mL	+/- 87.1659
66	n-Butylbenzene	104-51-8.SEC MMPGA	99%	2,523.7	µg/mL	+/- 87.2063
67	1,2-Dichlorobenzene	95-50-1.SEC R6QDM	99%	2,512.0	µg/mL	+/- 86.8031
68	1,2-Dibromo-3-chloropropane	96-12-8.SEC Q135-105	99%	2,517.7	µg/mL	+/- 86.9989
69	1,2,4-Trichlorobenzene	120-82-1.SEC IGLFA	99%	2,515.7	µg/mL	+/- 86.9298
70	Hexachlorobutadiene	87-68-3.SEC 13889400	97%	2,520.4	µg/mL	+/- 87.0928
71	Naphthalene	91-20-3.SEC AM5NG	99%	2,520.0	µg/mL	+/- 87.0795
72	1,2,3-Trichlorobenzene	87-61-6.SEC A0043055	99%	2,517.8	µg/mL	+/- 87.0047

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Quality Confirmation Test

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 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

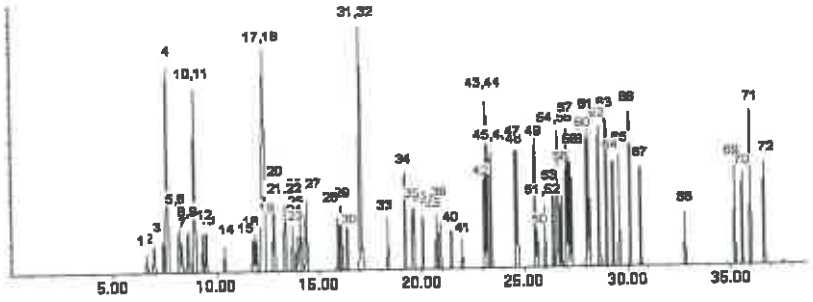
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
20.0 ml/min.

Inj. Vol
0.2µl



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.

John Friedline - Operations Technician I

Date Mixed: 28-Feb-2023 Balance Serial # 1127510105

Christie Mills - Operations Tech II - ARM QC

Date Passed: 22-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

WC_CN complex_00006

ABSOLUTE STANDARDS, INC.

7732819+
2820

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within +/- 0.5% of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: U_{CRM} is the expanded uncertainty which utilizes a K = 2 (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

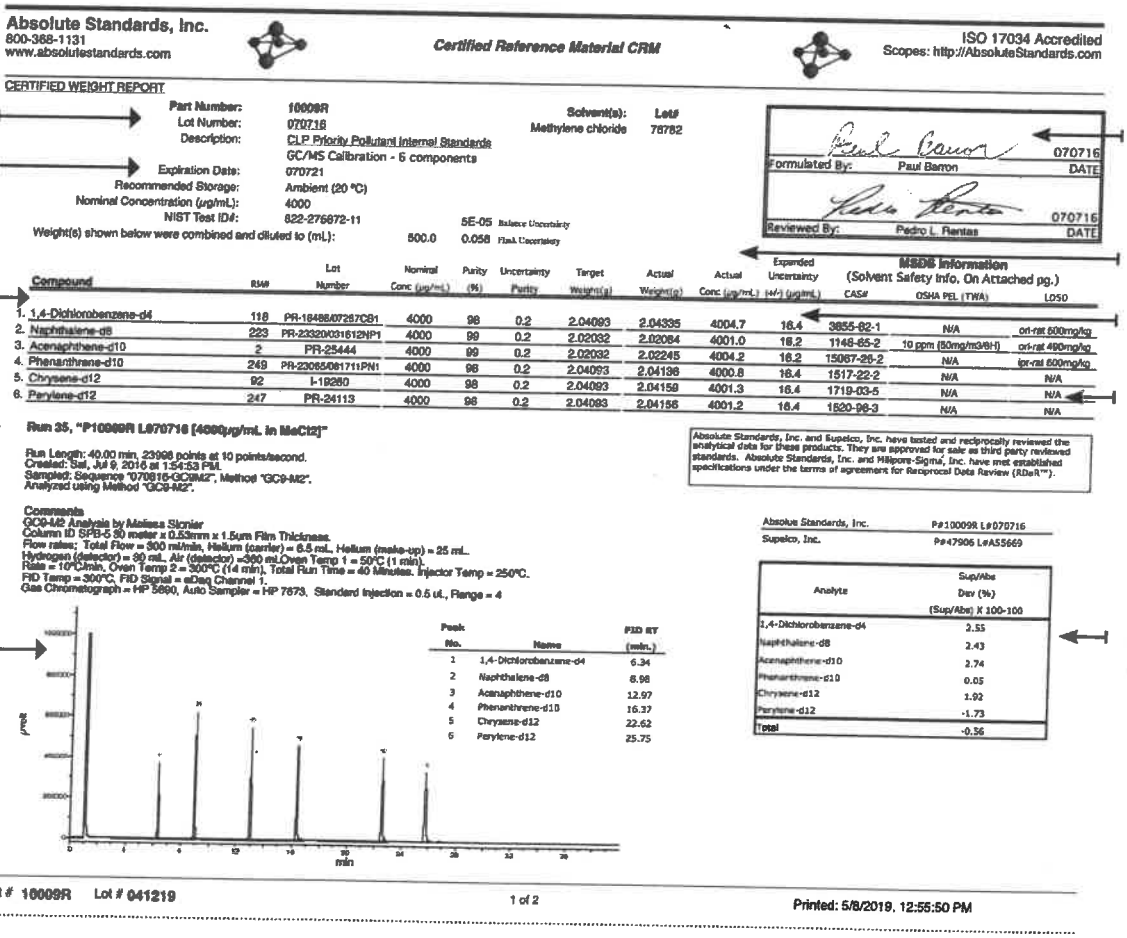
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
Expiration Date: 070721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-276872-11
Weight(s) shown below were combined and diluted to (mL): 500.0

Solvent(s): Methylene chloride Lot# 78782

5E-05 Balance Uncertainty
0.058 Final Uncertainty

Formulated By: Paul Barron 070716 DATE
Reviewed By: Pedro L. Rentas 070716 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-18488/07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	ori-rat 500mg/kg
2. Naphthalene-d8	223	PR-233200/31612NP1	4000	99	0.2	2.02032	2.02084	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	ori-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 600mg/kg
4. Phenanthrene-d10	249	PR-23065/061711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19280	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04083	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"

Run Length: 40.00 min, 23998 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070815-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments
GC9-M2 Analysis by Melissa Slonier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mLOven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673. Standard Injection = 0.5 uL, Range = 4

Peak No.	Name	FID RT (min.)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Absolute Standards, Inc. and Supelco, Inc. have tested and reciprocally reviewed the analytical data for these products. They are approved for sale as third party reviewed standards. Absolute Standards, Inc. and Millipore-Sigma, Inc. have met established specifications under the terms of agreement for Reciprocal Data Review (RDaR™).

Absolute Standards, Inc. P#10009R L#070716
Supelco, Inc. P#47906 L#A55669

Analyte	Sup/Abs Dev (%) (Sup/Abs) X 100-100
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	2.74
Phenanthrene-d10	0.05
Chrysene-d12	1.92
Perylene-d12	-1.73
Total	-0.56

Part # 10009R Lot # 041219 1 of 2 Printed: 5/8/2019, 12:55:50 PM

Part # / Lot # — Part Number / Lot Number
Shelf Life — Expiration Date
Formulator / Reviewer — Formulated By / Reviewed By
Target Compounds — Compound list
Actual Concentration — Actual Conc (µg/mL)
Uncertainty Values — Expanded Uncertainty (+/-) (µg/mL)
Health & Safety — MSDS Information / OSHA PEL (TWA) / LD50
Method of Analysis — Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Qualitative / Quantitative — Peak No. / Name / FID RT (min.)
3rd Party Comparison — Sup/Abs Dev (%)

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

11/04/2024

CERTIFIED WEIGHT REPORT:

Part Number: 54165
Lot Number: 070523
Description: Total Cyanide (CN^-)
Simple and Complex
Expiration Date: 070525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

	Lot #		
Solvent:	070523	ASTM Type 1 Water	
	5E-05	Balance Uncertainty	
Weights shown below were diluted to (mL):	1999.48	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	070523
Reviewed By:	Pedro L. Rentas	070523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium cyanide (CN)	IN105	10206876	500	99.0	0.10	40.0	2.52713	2.52715	**500.0**	**1.0**	151-50-8	5 mg/m3	orl-rat 5mg/kg	3141a
2. Potassium Ferricyanide (III) (CN)	IN166	TS08427AR	500	99.0	0.10	47.5	2.12822	2.12825	**500.0**	**1.0**	13746-66-2	NA	orl-mus 2970mg/kg	3141a
3. Sodium hydroxide (NaOH)	IN340	MKCL7860	NA	98.9	0.10	100.0	2.96755	2.96768	1467.9	3.0	1310-73-2	2 mg/m3	orl-mus 6600mg/kg	NA
Total Cyanide (CN^-)									**1000.0**	**2.0**				

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_CN1000ppmS_00038

Agilent
Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Complex Cyanide Standard
Product Number: ICC-009
Storage Conditions: Store at Room Temperature (15° to 30°C). Light Sensitive.

Lot Number: 0006766987
Lot Issue Date: 16-Oct-2023
Expiration Date: 30-Nov-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
potassium ferricyanide (as cyanide)	1001	±	5 µg/mL	013746-66-2	RM19446

Matrix: 0.1% sodium hydroxide in water

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system. The analyte concentration(s) were prepared and verified by an ISO 17034 / ISO 17025 accredited laboratory and compared to calibration standards independently prepared using NIST SRM(s) when available. The certified value and uncertainty value at the 95% confidence level for each analyte is determined gravimetrically.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-040.1

ISO 17025

Reagent

WC_NH3_STD_00035

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product:	1000 mg/L Ammonia as N
Catalog Number:	045-125mL, 985-500mL
Lot No.	820423m
Starting Material:	Ammonium Chloride (NH_4Cl)
Matrix:	18 megohm deionized water
Density:	0.9991 ± 0.0002 g/mL 21.0 °C and 759 mm Hg
Verification Method:	Ion Selective Electrode (ISE)
Certificate Issue Date:	May 3, 2023
Expiration Date:	April 27, 2025
Revision Number:	Original

CERTIFICATION

Parameter	Certified Value[1]	Uncertainty[2]	NIST Traceability	
	mg/L	%	SRM Number[3]	Recovery %
Ammonia as N (NH_3-N)	1000	0.824	194a	101

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ 800.372.0122 ▪ 303.431.8454 ▪ fax 303.421.0159 ▪ www.eraqc.com

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

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 #
MW-BCP-09A-10252024	480-224869-1	98	96	100	110
MW-BCP-10A-10242024	480-224869-3	93	95	92	113
MW-BCP-10A-10242024 DL	480-224869-3 DL	98	95	99	105
MW-BCP-11A-10242024	480-224869-5	94	93	101	108
MW-BCP-12A-10242024	480-224869-7	94	94	99	108
MW-BCP-13A-10252024	480-224869-9	91	92	100	110
MW-BCP-13B-10252024	480-224869-10	96	98	96	111
MW-BCP-24A-10252024	480-224869-11	98	102	101	109
MW-BCP-25A-10252024	480-224869-12	97	101	102	107
MW-BCP-19B-10252024	480-224869-13	96	100	98	109
MW-BCP-21A-10252024	480-224869-18	92	95	99	104
MW-BCP-19A-10252024	480-224869-19	89	92	100	111
	MB 480-730495/8	90	96	102	109
	MB 480-730696/8	97	101	100	112
	LCS 480-730495/6	93	95	98	106
	LCS 480-730696/6	93	93	101	112
MW-BCP-13A-10252024 MS	480-224869-9 MS	92	100	101	110
MW-BCP-13A-10252024 MSD	480-224869-9 MSD	95	97	100	107

	QC LIMITS
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 II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1239.d

Lab ID: LCS 480-730495/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.3	101	73-126	
1,1,2,2-Tetrachloroethane	25.0	21.6	87	76-120	
1,1,2-Trichloroethane	25.0	25.5	102	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.2	89	61-148	
1,1-Dichloroethane	25.0	23.4	93	77-120	
1,1-Dichloroethene	25.0	23.0	92	66-127	
1,2,4-Trichlorobenzene	25.0	22.5	90	79-122	
1,2-Dibromo-3-Chloropropane	25.0	23.5	94	56-134	
1,2-Dibromoethane	25.0	24.1	97	77-120	
1,2-Dichlorobenzene	25.0	21.9	87	80-124	
1,2-Dichloroethane	25.0	25.0	100	75-120	
1,2-Dichloropropane	25.0	23.2	93	76-120	
1,3-Dichlorobenzene	25.0	21.8	87	77-120	
1,4-Dichlorobenzene	25.0	21.3	85	80-120	
2-Hexanone	125	116	93	65-127	
2-Butanone (MEK)	125	115	92	57-140	
4-Methyl-2-pentanone (MIBK)	125	116	93	71-125	
Acetone	125	115	92	56-142	
Benzene	25.0	22.9	92	71-124	
Bromodichloromethane	25.0	26.2	105	80-122	
Bromoform	25.0	24.9	100	61-132	
Bromomethane	25.0	19.3	77	55-144	
Carbon disulfide	25.0	21.2	85	59-134	
Carbon tetrachloride	25.0	23.7	95	72-134	
Chlorobenzene	25.0	24.6	99	80-120	
Dibromochloromethane	25.0	24.7	99	75-125	
Chloroethane	25.0	18.5	74	69-136	
Chloroform	25.0	23.0	92	73-127	
Chloromethane	25.0	21.8	87	68-124	
cis-1,2-Dichloroethene	25.0	23.2	93	74-124	
cis-1,3-Dichloropropene	25.0	23.4	94	74-124	
Cyclohexane	25.0	23.1	93	59-135	
Dichlorodifluoromethane	25.0	22.7	91	59-135	
Ethylbenzene	25.0	25.2	101	77-123	
Isopropylbenzene	25.0	22.0	88	77-122	
Methyl acetate	50.0	42.1	84	74-133	
Methyl tert-butyl ether	25.0	23.0	92	77-120	
Methylcyclohexane	25.0	24.4	98	68-134	
Methylene Chloride	25.0	23.0	92	75-124	
Styrene	25.0	22.6	90	80-120	
Tetrachloroethene	25.0	23.0	92	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1239.d

Lab ID: LCS 480-730495/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	25.1	100	80-122	
trans-1,2-Dichloroethene	25.0	23.9	96	73-127	
trans-1,3-Dichloropropene	25.0	24.1	96	80-120	
Trichloroethene	25.0	23.7	95	74-123	
Trichlorofluoromethane	25.0	22.9	92	62-150	
Vinyl chloride	25.0	20.1	80	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1293.d

Lab ID: LCS 480-730696/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	24.1	97	73-126	
1,1,2,2-Tetrachloroethane	25.0	21.9	88	76-120	
1,1,2-Trichloroethane	25.0	24.2	97	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.5	82	61-148	
1,1-Dichloroethane	25.0	21.6	86	77-120	
1,1-Dichloroethene	25.0	20.7	83	66-127	
1,2,4-Trichlorobenzene	25.0	21.6	86	79-122	
1,2-Dibromo-3-Chloropropane	25.0	24.4	98	56-134	
1,2-Dibromoethane	25.0	23.0	92	77-120	
1,2-Dichlorobenzene	25.0	21.8	87	80-124	
1,2-Dichloroethane	25.0	24.2	97	75-120	
1,2-Dichloropropane	25.0	22.8	91	76-120	
1,3-Dichlorobenzene	25.0	22.6	90	77-120	
1,4-Dichlorobenzene	25.0	21.4	86	80-120	
2-Hexanone	125	126	101	65-127	
2-Butanone (MEK)	125	122	98	57-140	
4-Methyl-2-pentanone (MIBK)	125	121	97	71-125	
Acetone	125	119	95	56-142	
Benzene	25.0	21.5	86	71-124	
Bromodichloromethane	25.0	25.2	101	80-122	
Bromoform	25.0	24.8	99	61-132	
Bromomethane	25.0	17.7	71	55-144	
Carbon disulfide	25.0	19.3	77	59-134	
Carbon tetrachloride	25.0	22.8	91	72-134	
Chlorobenzene	25.0	24.4	98	80-120	
Dibromochloromethane	25.0	23.3	93	75-125	
Chloroethane	25.0	17.7	71	69-136	
Chloroform	25.0	21.5	86	73-127	
Chloromethane	25.0	19.8	79	68-124	
cis-1,2-Dichloroethene	25.0	22.4	90	74-124	
cis-1,3-Dichloropropene	25.0	22.7	91	74-124	
Cyclohexane	25.0	21.4	86	59-135	
Dichlorodifluoromethane	25.0	21.9	87	59-135	
Ethylbenzene	25.0	24.3	97	77-123	
Isopropylbenzene	25.0	21.8	87	77-122	
Methyl acetate	50.0	42.8	86	74-133	
Methyl tert-butyl ether	25.0	22.6	90	77-120	
Methylcyclohexane	25.0	22.8	91	68-134	
Methylene Chloride	25.0	22.9	92	75-124	
Styrene	25.0	22.7	91	80-120	
Tetrachloroethene	25.0	22.6	90	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1293.d

Lab ID: LCS 480-730696/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.9	100	80-122	
trans-1,2-Dichloroethene	25.0	20.6	82	73-127	
trans-1,3-Dichloropropene	25.0	25.3	101	80-120	
Trichloroethene	25.0	22.6	90	74-123	
Trichlorofluoromethane	25.0	22.9	92	62-150	
Vinyl chloride	25.0	19.6	78	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1258.d

Lab ID: 480-224869-9 MS Client ID: MW-BCP-13A-10252024 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2500	ND	2550	102	73-126	
1,1,2,2-Tetrachloroethane	2500	ND	2080	83	76-120	
1,1,2-Trichloroethane	2500	ND	2500	100	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	ND	2230	89	61-148	
1,1-Dichloroethane	2500	ND	2430	97	77-120	
1,1-Dichloroethene	2500	ND	2300	92	66-127	
1,2,4-Trichlorobenzene	2500	ND	2220	89	79-122	
1,2-Dibromo-3-Chloropropane	2500	ND	2310	92	56-134	
1,2-Dibromoethane	2500	ND	2250	90	77-120	
1,2-Dichlorobenzene	2500	ND	2210	88	80-124	
1,2-Dichloroethane	2500	ND	2500	100	75-120	
1,2-Dichloropropane	2500	ND	2410	96	76-120	
1,3-Dichlorobenzene	2500	ND	2200	88	77-120	
1,4-Dichlorobenzene	2500	ND	2120	85	78-124	
2-Hexanone	12500	ND	11600	93	65-127	
2-Butanone (MEK)	12500	ND	11400	91	57-140	
4-Methyl-2-pentanone (MIBK)	12500	ND	11900	95	71-125	
Acetone	12500	ND	10700	85	56-142	
Benzene	2500	2600	5000	96	71-124	
Bromodichloromethane	2500	ND	2540	102	80-122	
Bromoform	2500	ND	2390	96	61-132	
Bromomethane	2500	ND	2130	85	55-144	
Carbon disulfide	2500	ND	2190	88	59-134	
Carbon tetrachloride	2500	ND	2530	101	72-134	
Chlorobenzene	2500	ND	2580	103	80-120	
Dibromochloromethane	2500	ND	2430	97	75-125	
Chloroethane	2500	ND	2020	81	69-136	
Chloroform	2500	ND	2330	93	73-127	
Chloromethane	2500	ND	2280	91	68-124	
cis-1,2-Dichloroethene	2500	ND	2330	93	74-124	
cis-1,3-Dichloropropene	2500	ND	2260	90	74-124	
Cyclohexane	2500	ND	2380	95	59-135	
Dichlorodifluoromethane	2500	ND	2510	101	59-135	
Ethylbenzene	2500	ND	2570	103	77-123	
Isopropylbenzene	2500	ND	2190	87	77-122	
Methyl acetate	5000	ND	4300	86	74-133	
Methyl tert-butyl ether	2500	ND	2330	93	77-120	
Methylcyclohexane	2500	ND	2400	96	68-134	
Methylene Chloride	2500	87 J	2500	96	75-124	
Styrene	2500	ND	2430	97	80-120	
Tetrachloroethene	2500	ND	2450	98	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1258.d

Lab ID: 480-224869-9 MS Client ID: MW-BCP-13A-10252024 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	2500	940	3520	103	80-122	
trans-1,2-Dichloroethene	2500	ND	2410	96	73-127	
trans-1,3-Dichloropropene	2500	ND	2550	102	80-120	
Trichloroethene	2500	ND	2470	99	74-123	
Trichlorofluoromethane	2500	ND	2420	97	62-150	
Vinyl chloride	2500	ND	2030	81	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1259.d

Lab ID: 480-224869-9 MSD Client ID: MW-BCP-13A-10252024 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	2500	2530	101	0	15	73-126	
1,1,2,2-Tetrachloroethane	2500	2190	88	5	15	76-120	
1,1,2-Trichloroethane	2500	2350	94	6	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2300	92	3	20	61-148	
1,1-Dichloroethane	2500	2430	97	0	20	77-120	
1,1-Dichloroethene	2500	2360	94	3	16	66-127	
1,2,4-Trichlorobenzene	2500	2250	90	1	20	79-122	
1,2-Dibromo-3-Chloropropane	2500	2490	100	8	15	56-134	
1,2-Dibromoethane	2500	2230	89	1	15	77-120	
1,2-Dichlorobenzene	2500	2210	88	0	20	80-124	
1,2-Dichloroethane	2500	2560	102	2	20	75-120	
1,2-Dichloropropane	2500	2360	94	2	20	76-120	
1,3-Dichlorobenzene	2500	2250	90	2	20	77-120	
1,4-Dichlorobenzene	2500	2190	88	3	20	78-124	
2-Hexanone	12500	11200	90	3	15	65-127	
2-Butanone (MEK)	12500	11000	88	3	20	57-140	
4-Methyl-2-pentanone (MIBK)	12500	11300	90	5	35	71-125	
Acetone	12500	11100	89	4	15	56-142	
Benzene	2500	4910	93	2	13	71-124	
Bromodichloromethane	2500	2570	103	1	15	80-122	
Bromoform	2500	2470	99	3	15	61-132	
Bromomethane	2500	2080	83	2	15	55-144	
Carbon disulfide	2500	2170	87	1	15	59-134	
Carbon tetrachloride	2500	2490	100	2	15	72-134	
Chlorobenzene	2500	2510	100	3	25	80-120	
Dibromochloromethane	2500	2420	97	1	15	75-125	
Chloroethane	2500	2080	83	3	15	69-136	
Chloroform	2500	2270	91	3	20	73-127	
Chloromethane	2500	2270	91	0	15	68-124	
cis-1,2-Dichloroethene	2500	2370	95	2	15	74-124	
cis-1,3-Dichloropropene	2500	2260	91	0	15	74-124	
Cyclohexane	2500	2420	97	1	20	59-135	
Dichlorodifluoromethane	2500	2560	102	2	20	59-135	
Ethylbenzene	2500	2570	103	0	15	77-123	
Isopropylbenzene	2500	2240	90	3	20	77-122	
Methyl acetate	5000	4180	84	3	20	74-133	
Methyl tert-butyl ether	2500	2360	95	2	37	77-120	
Methylcyclohexane	2500	2430	97	1	20	68-134	
Methylene Chloride	2500	2690	104	7	15	75-124	
Styrene	2500	2380	95	2	20	80-120	
Tetrachloroethene	2500	2270	91	8	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N1259.d

Lab ID: 480-224869-9 MSD Client ID: MW-BCP-13A-10252024 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	2500	3330	96	5	15	80-122	
trans-1,2-Dichloroethene	2500	2350	94	3	20	73-127	
trans-1,3-Dichloropropene	2500	2450	98	4	15	80-120	
Trichloroethene	2500	2470	99	0	16	74-123	
Trichlorofluoromethane	2500	2420	97	0	20	62-150	
Vinyl chloride	2500	2030	81	0	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: N1241.d Lab Sample ID: MB 480-730495/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP5973N Date Analyzed: 10/31/2024 03:02

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-730495/6	N1239.d	10/31/2024 02:17
MW-BCP-09A-10252024	480-224869-1	N1247.d	10/31/2024 05:16
MW-BCP-10A-10242024	480-224869-3	N1248.d	10/31/2024 05:39
MW-BCP-11A-10242024	480-224869-5	N1249.d	10/31/2024 06:01
MW-BCP-12A-10242024	480-224869-7	N1250.d	10/31/2024 06:23
MW-BCP-13A-10252024	480-224869-9	N1251.d	10/31/2024 06:46
MW-BCP-13B-10252024	480-224869-10	N1252.d	10/31/2024 07:08
MW-BCP-24A-10252024	480-224869-11	N1253.d	10/31/2024 07:31
MW-BCP-25A-10252024	480-224869-12	N1254.d	10/31/2024 07:54
MW-BCP-19B-10252024	480-224869-13	N1255.d	10/31/2024 08:16
MW-BCP-21A-10252024	480-224869-18	N1256.d	10/31/2024 08:39
MW-BCP-19A-10252024	480-224869-19	N1257.d	10/31/2024 09:01
MW-BCP-13A-10252024 MS	480-224869-9 MS	N1258.d	10/31/2024 09:24
MW-BCP-13A-10252024 MSD	480-224869-9 MSD	N1259.d	10/31/2024 09:46

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: N1295.d Lab Sample ID: MB 480-730696/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP5973N Date Analyzed: 11/01/2024 00:06

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-730696/6	N1293.d	10/31/2024 23:22
MW-BCP-10A-10242024 DL	480-224869-3 DL	N1296.d	11/01/2024 00:29

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: N0901.d BFB Injection Date: 10/24/2024

Instrument ID: HP5973N BFB Injection Time: 14:11

Analysis Batch No.: 729617

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	33.6
75	30.0 - 60.0 % of mass 95	43.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	5.8
173	Less than 2.0 % of mass 174	1.3 (1.8) 1
174	Greater than 50% of mass 95	70.0
175	5.0 - 9.0 % of mass 174	4.8 (6.8) 1
176	95.0 - 101.0 % of mass 174	70.4 (100.6) 1
177	5.0 - 9.0 % of mass 176	4.3 (6.1) 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
	IC 480-729617/13	N0904.d	10/24/2024	15:19
	IC 480-729617/14	N0905.d	10/24/2024	15:41
	IC 480-729617/15	N0906.d	10/24/2024	16:04
	IC 480-729617/16	N0907.d	10/24/2024	16:27
	IC 480-729617/17	N0908.d	10/24/2024	16:49
	ICIS 480-729617/18	N0909.d	10/24/2024	17:11
	IC 480-729617/19	N0910.d	10/24/2024	17:34
	IC 480-729617/20	N0911.d	10/24/2024	17:56
	ICV 480-729617/34	N0925.d	10/24/2024	23:10
	ICV 480-729617/35	N0926.d	10/24/2024	23:33

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: N1236.d BFB Injection Date: 10/31/2024

Instrument ID: HP5973N BFB Injection Time: 01:09

Analysis Batch No.: 730495

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	32.6	
75	30.0 - 60.0 % of mass 95	54.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	Greater than 50% of mass 95	76.6	
175	5.0 - 9.0 % of mass 174	6.4	(8.4) 1
176	95.0 - 101.0 % of mass 174	74.7	(97.5) 1
177	5.0 - 9.0 % of mass 176	4.8	(6.4) 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 480-730495/4	N1237.d	10/31/2024	1:32
	LCS 480-730495/6	N1239.d	10/31/2024	2:17
	MB 480-730495/8	N1241.d	10/31/2024	3:02
MW-BCP-09A-10252024	480-224869-1	N1247.d	10/31/2024	5:16
MW-BCP-10A-10242024	480-224869-3	N1248.d	10/31/2024	5:39
MW-BCP-11A-10242024	480-224869-5	N1249.d	10/31/2024	6:01
MW-BCP-12A-10242024	480-224869-7	N1250.d	10/31/2024	6:23
MW-BCP-13A-10252024	480-224869-9	N1251.d	10/31/2024	6:46
MW-BCP-13B-10252024	480-224869-10	N1252.d	10/31/2024	7:08
MW-BCP-24A-10252024	480-224869-11	N1253.d	10/31/2024	7:31
MW-BCP-25A-10252024	480-224869-12	N1254.d	10/31/2024	7:54
MW-BCP-19B-10252024	480-224869-13	N1255.d	10/31/2024	8:16
MW-BCP-21A-10252024	480-224869-18	N1256.d	10/31/2024	8:39
MW-BCP-19A-10252024	480-224869-19	N1257.d	10/31/2024	9:01
MW-BCP-13A-10252024 MS	480-224869-9 MS	N1258.d	10/31/2024	9:24
MW-BCP-13A-10252024 MSD	480-224869-9 MSD	N1259.d	10/31/2024	9:46

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: N1290.d BFB Injection Date: 10/31/2024

Instrument ID: HP5973N BFB Injection Time: 22:14

Analysis Batch No.: 730696

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	32.9	
75	30.0 - 60.0 % of mass 95	51.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	Greater than 50% of mass 95	73.6	
175	5.0 - 9.0 % of mass 174	6.4	(8.6) 1
176	95.0 - 101.0 % of mass 174	72.9	(99.1) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.7) 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 480-730696/4	N1291.d	10/31/2024	22:36
	LCS 480-730696/6	N1293.d	10/31/2024	23:22
	MB 480-730696/8	N1295.d	11/01/2024	0:06
MW-BCP-10A-10242024 DL	480-224869-3 DL	N1296.d	11/01/2024	0:29

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: ICIS 480-729617/18 Date Analyzed: 10/24/2024 17:11

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N0909.d Heated Purge: (Y/N) N

Calibration ID: 47464

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		186096	4.82	644937	7.77	333633	10.22
UPPER LIMIT		372192	4.99	1289874	7.94	667266	10.38
LOWER LIMIT		93048	4.65	322469	7.60	166817	10.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-730495/4		140709	4.82	498038	7.77	259011	10.22
CCVIS 480-730696/4		148709	4.82	499220	7.77	270277	10.22

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.167 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.: 480-224869-1

SDG No.:

Sample No.: CCVIS 480-730495/4 Date Analyzed: 10/31/2024 01:32

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N1237.d Heated Purge: (Y/N) N

Calibration ID: 47466

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		140709	4.82	498038	7.77	259011	10.22
UPPER LIMIT		281418	4.99	996076	7.94	518022	10.38
LOWER LIMIT		70355	4.65	249019	7.60	129506	10.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-730495/6		148109	4.82	500296	7.77	266361	10.22
MB 480-730495/8		146365	4.82	476444	7.77	255580	10.22
480-224869-1	MW-BCP-09A-10252024	137321	4.82	468660	7.77	254749	10.22
480-224869-3	MW-BCP-10A-10242024	143391	4.83	496724	7.77	272313	10.22
480-224869-5	MW-BCP-11A-10242024	142994	4.83	472257	7.77	263300	10.22
480-224869-7	MW-BCP-12A-10242024	141237	4.82	460971	7.77	258864	10.22
480-224869-9	MW-BCP-13A-10252024	150612	4.82	492683	7.77	272336	10.22
480-224869-10	MW-BCP-13B-10252024	143390	4.83	499344	7.77	269166	10.22
480-224869-11	MW-BCP-24A-10252024	140060	4.82	471186	7.77	264604	10.22
480-224869-12	MW-BCP-25A-10252024	139577	4.83	461209	7.77	266619	10.22
480-224869-13	MW-BCP-19B-10252024	143533	4.83	481949	7.77	254741	10.22
480-224869-18	MW-BCP-21A-10252024	141790	4.83	469049	7.77	255954	10.22
480-224869-19	MW-BCP-19A-10252024	146074	4.83	479555	7.77	276710	10.22
480-224869-9 MS	MW-BCP-13A-10252024 MS	144881	4.83	494753	7.77	272021	10.22
480-224869-9 MSD	MW-BCP-13A-10252024 MSD	144405	4.82	501558	7.77	263137	10.22

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.167 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.: 480-224869-1

SDG No.:

Sample No.: CCVIS 480-730696/4 Date Analyzed: 10/31/2024 22:36

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N1291.d Heated Purge: (Y/N) N

Calibration ID: 47466

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		148709	4.82	499220	7.77	270277	10.22
UPPER LIMIT		297418	4.99	998440	7.94	540554	10.39
LOWER LIMIT		74355	4.65	249610	7.60	135139	10.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-730696/6		147082	4.83	503636	7.77	263557	10.22
MB 480-730696/8		132118	4.82	443683	7.77	257542	10.22
480-224869-3 DL	MW-BCP-10A-10242024 DL	138991	4.82	473090	7.77	276538	10.22

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.167 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-09A-10252024 | Lab Sample ID: 480-224869-1

Matrix: Water | Lab File ID: N1247.d

Analysis Method: 8260C | Date Collected: 10/25/2024 16:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 05:16

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	7.2	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-09A-10252024 | Lab Sample ID: 480-224869-1

Matrix: Water | Lab File ID: N1247.d

Analysis Method: 8260C | Date Collected: 10/25/2024 16:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 05:16

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.46	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d
Lims ID: 480-224869-G-1
Client ID: MW-BCP-09A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 05:16:30 ALS Bottle#: 47 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-1
Misc. Info.: 480-0120932-014
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 12:04:05 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 12:04:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	137321	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	468660	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	254749	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	89	153443	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	222639	24.0	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	97	536188	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	186393	27.6	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.283	2.283	-0.006	97	35948	7.22	
25 Carbon disulfide	76		2.350				ND	
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.654	2.654	0.000	87	3482	0.4640	Ma
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	U
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78		4.552				ND	
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	
73 Toluene	92		6.371				ND	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	U
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91		7.898				ND	
90 m-Xylene & p-Xylene	106		8.020				ND	
91 o-Xylene	106		8.440				ND	
92 Styrene	104		8.476				ND	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

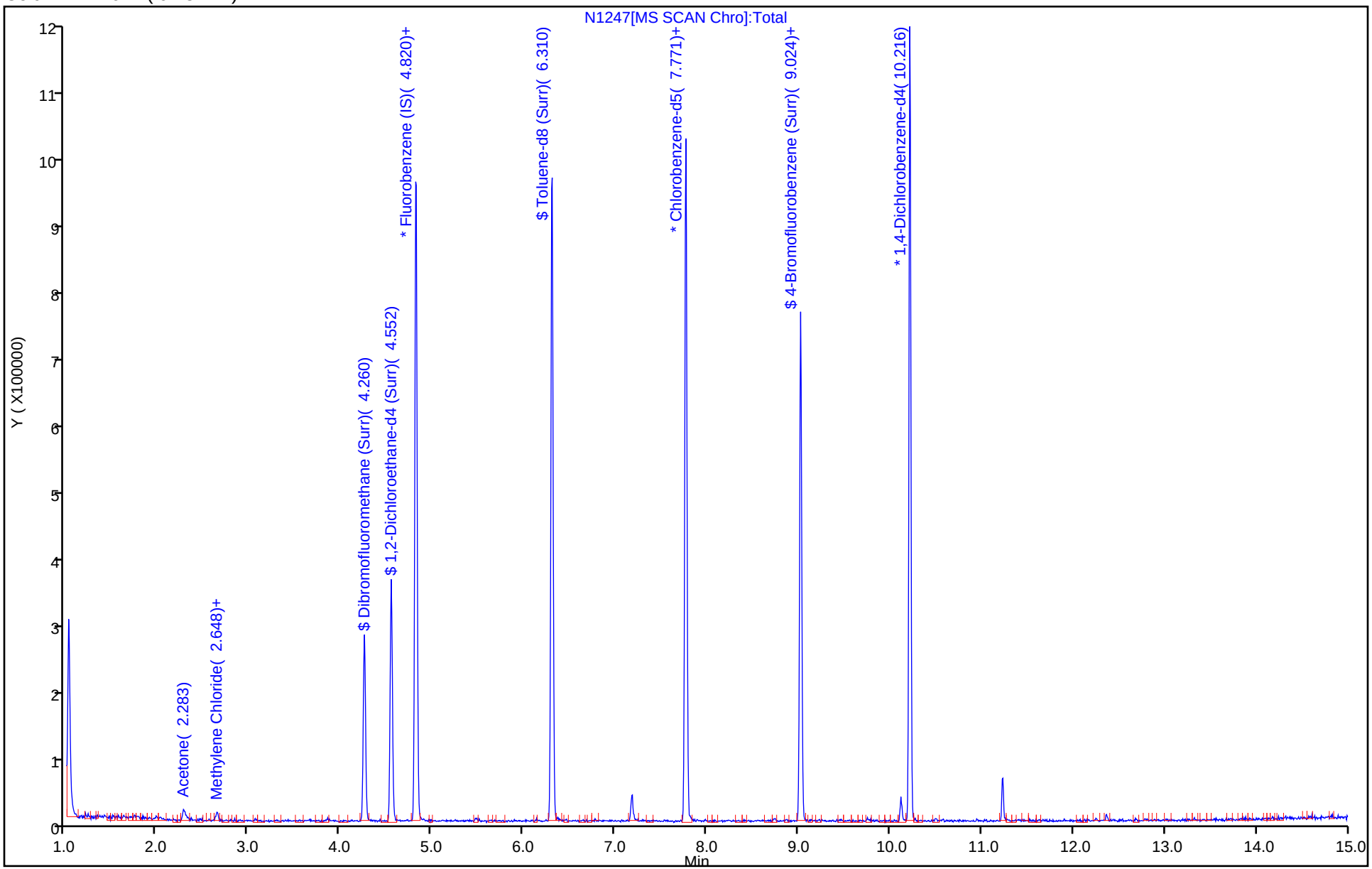
Report Date: 31-Oct-2024 12:04:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d

Injection Date:	31-Oct-2024 05:16:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-1	Lab Sample ID:	480-224869-1	Worklist Smp#:	14
Client ID:	MW-BCP-09A-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d
Lims ID: 480-224869-G-1
Client ID: MW-BCP-09A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 05:16:30 ALS Bottle#: 47 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-1
Misc. Info.: 480-0120932-014
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 12:04:05 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

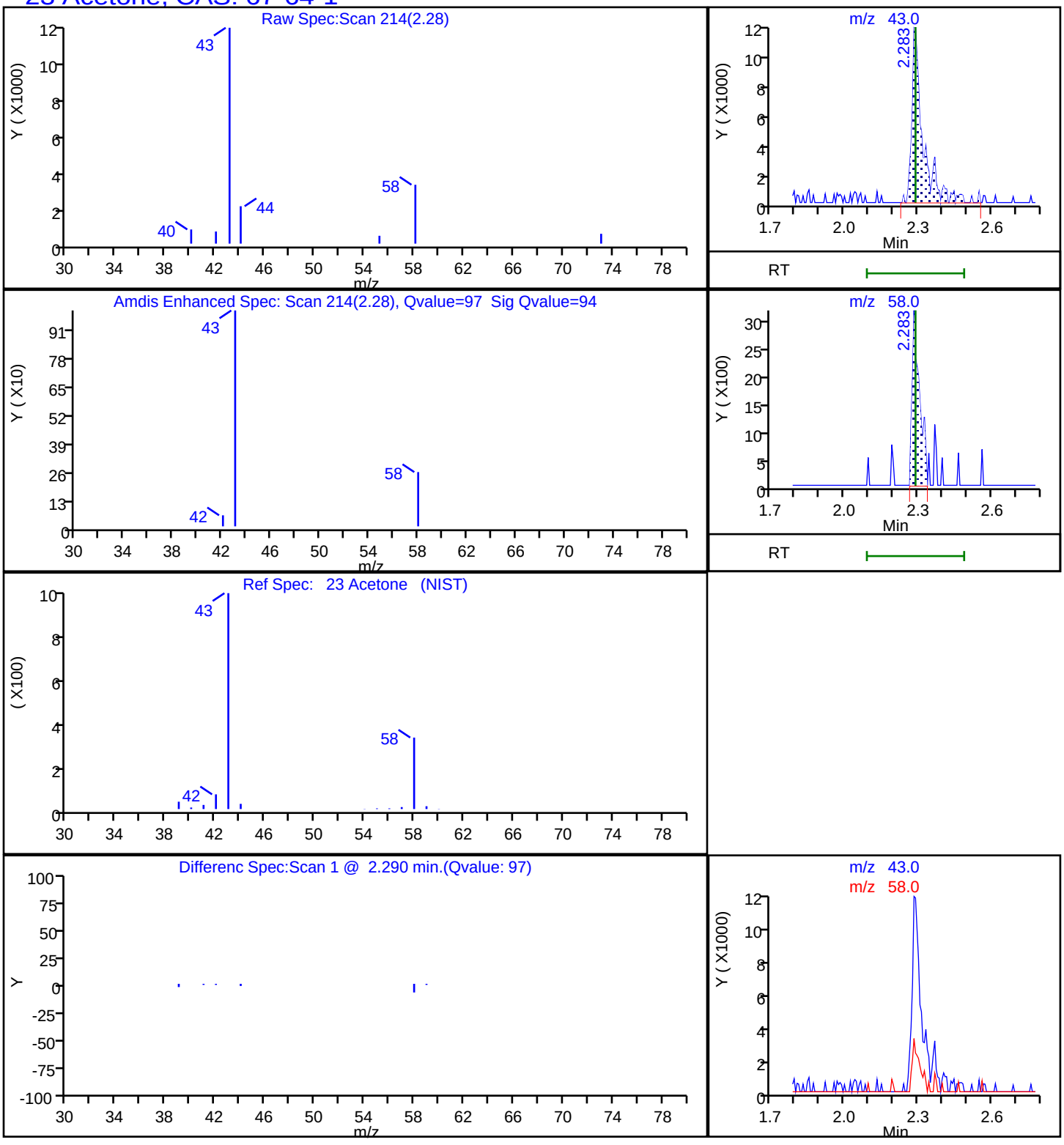
First Level Reviewer: HF3K Date: 31-Oct-2024 12:04:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.6	98.37
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.0	95.94
$ 6 Toluene-d8 (Surr)	25.0	25.0	99.98
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.6	110.21

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d
Injection Date: 31-Oct-2024 05:16:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-1 Lab Sample ID: 480-224869-1
Client ID: MW-BCP-09A-10252024
Operator ID: AD ALS Bottle#: 47 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

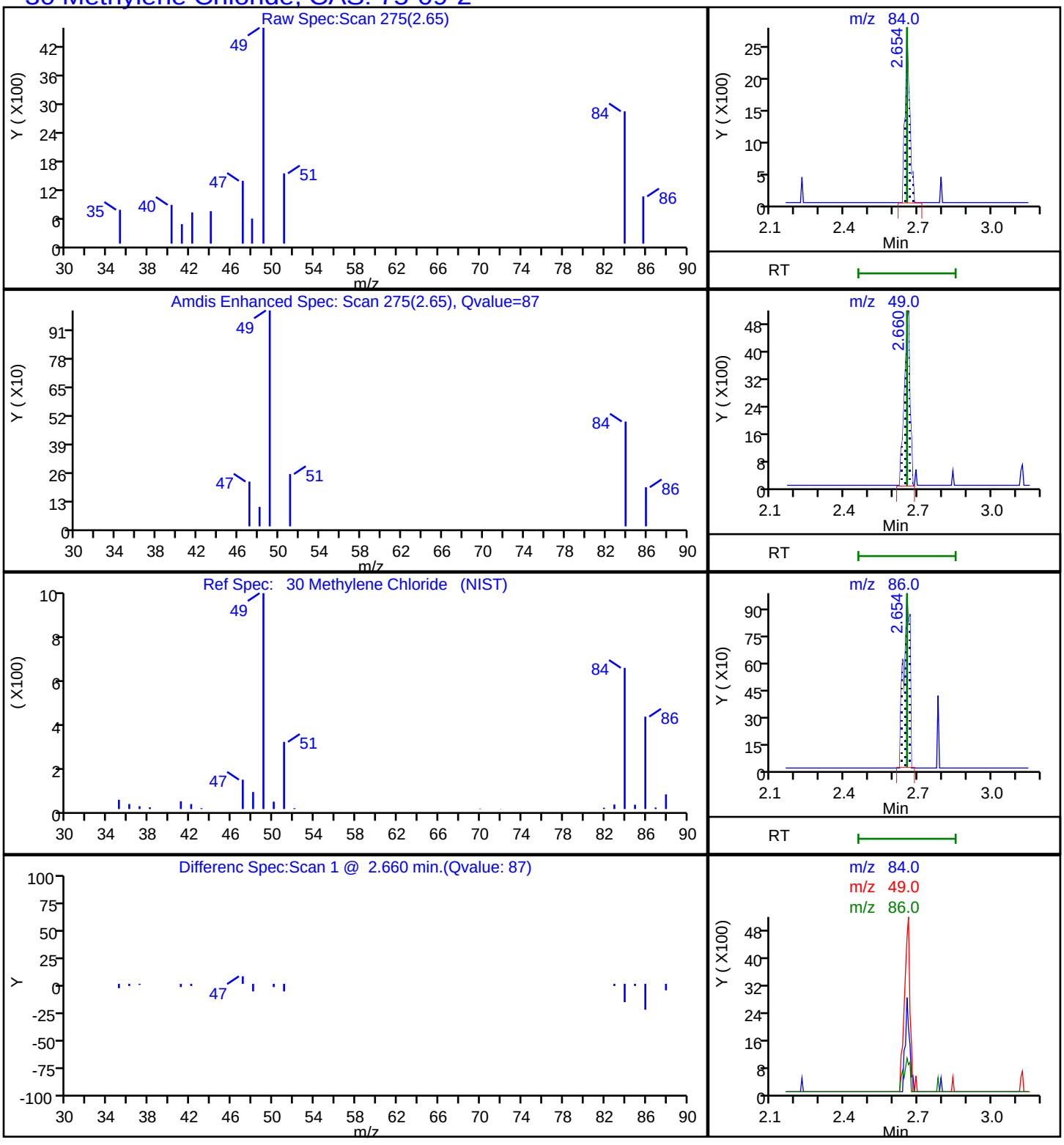
23 Acetone, CAS: 67-64-1



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d
Injection Date: 31-Oct-2024 05:16:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-1 Lab Sample ID: 480-224869-1
Client ID: MW-BCP-09A-10252024
Operator ID: AD ALS Bottle#: 47 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2



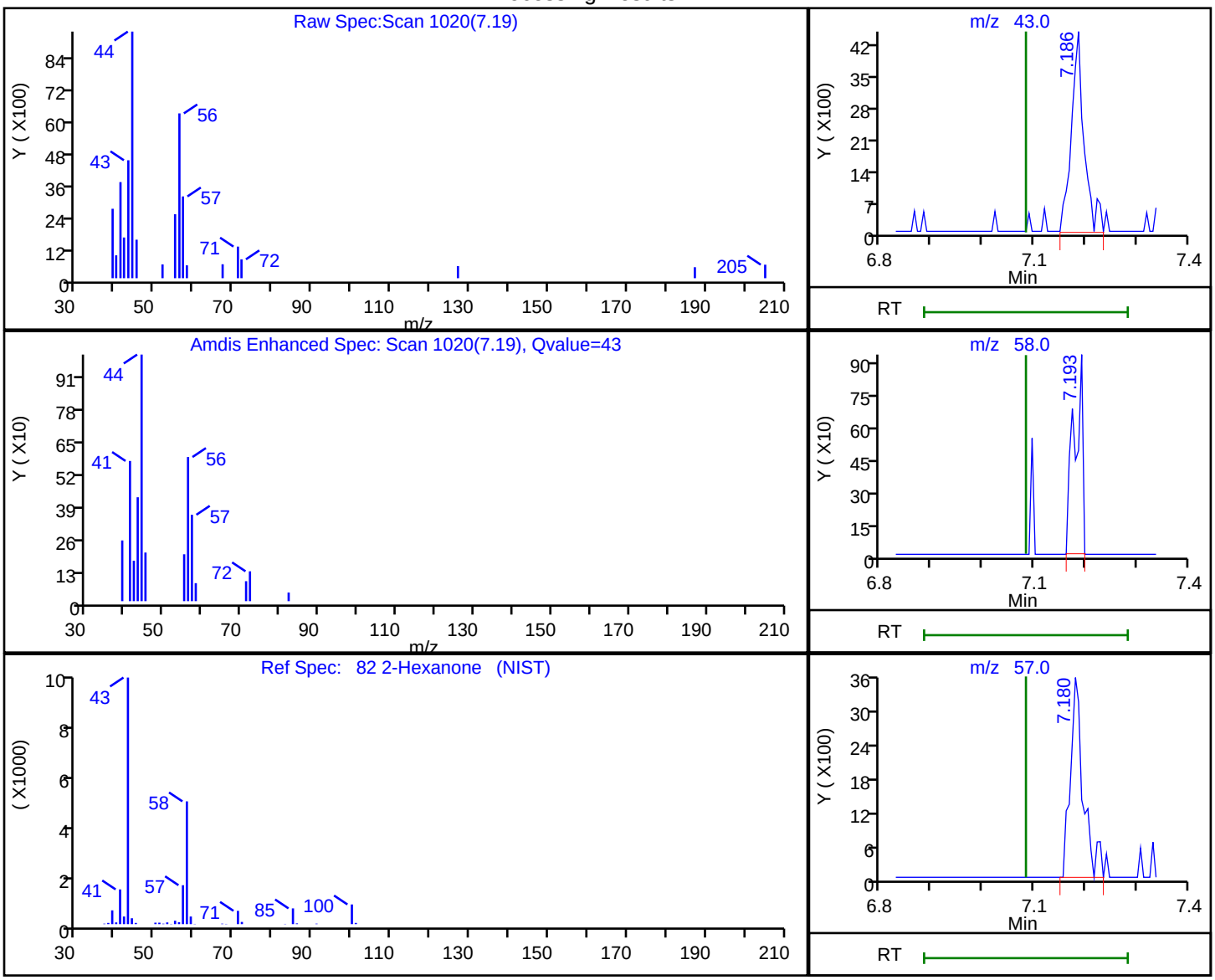
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d				
Injection Date:	31-Oct-2024 05:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-1	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	AD	ALS Bottle#:	47	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

82 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.19	43.00	7745	0.670754
7.19	58.00	1097	
7.18	57.00	6181	

Reviewer: HF3K, 31-Oct-2024 12:03:53 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

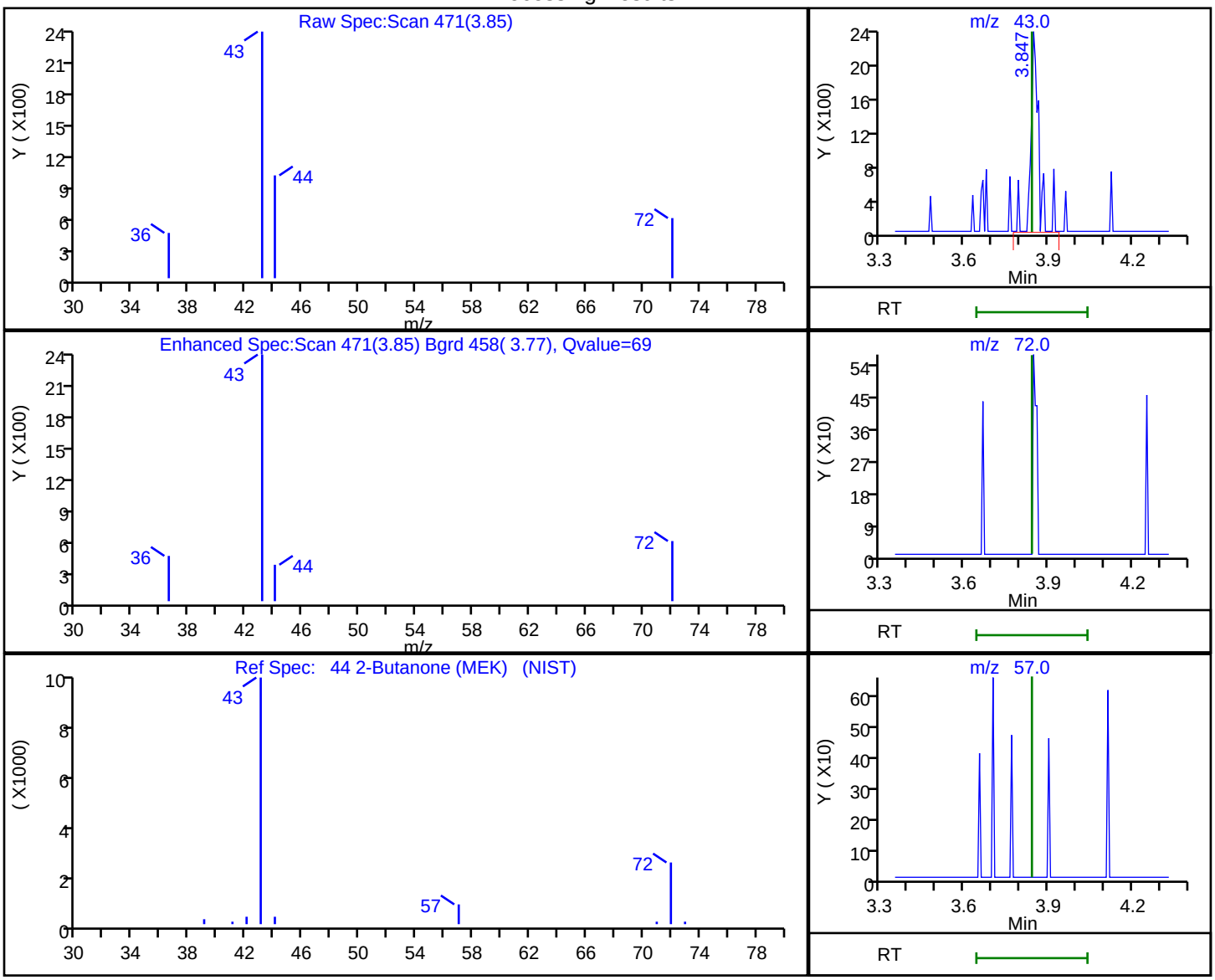
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d				
Injection Date:	31-Oct-2024 05:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-1	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	AD	ALS Bottle#:	47	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
3.85	43.00	4457	0.547755
3.84	72.00	0	
3.84	57.00	0	

Reviewer: HF3K, 31-Oct-2024 12:03:40 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

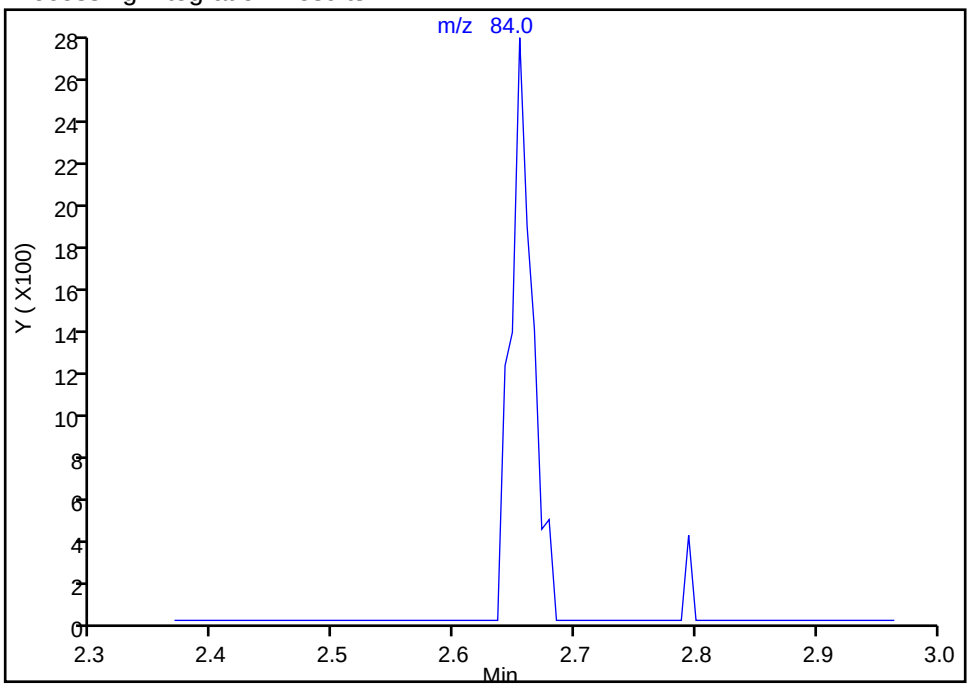
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1247.d				
Injection Date:	31-Oct-2024 05:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-1	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	AD	ALS Bottle#:	47	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

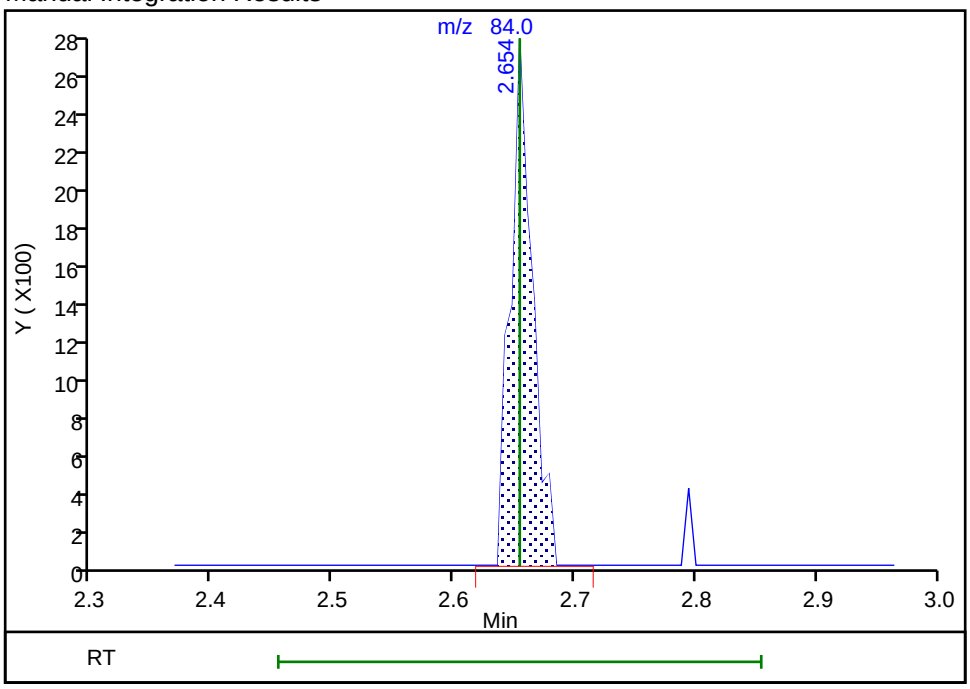
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.65
Area: 3482
Amount: 0.463966
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:03:19 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 | Lab Sample ID: 480-224869-3

Matrix: Water | Lab File ID: N1248.d

Analysis Method: 8260C | Date Collected: 10/24/2024 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 05:39

Soil Aliquot Vol: | Dilution Factor: 5

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	ND		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
591-78-6	2-Hexanone	ND		25	6.2
78-93-3	2-Butanone (MEK)	26	J	50	6.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	150		50	15
71-43-2	*Benzene*	*1500*	*E*	*5.0*	*2.1*
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	ND		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	ND		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	0.93	J	5.0	0.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 | Lab Sample ID: 480-224869-3

Matrix: Water | Lab File ID: N1248.d

Analysis Method: 8260C | Date Collected: 10/24/2024 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 05:39

Soil Aliquot Vol: | Dilution Factor: 5

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	70		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	6.0		5.0	2.2
100-42-5	Styrene	330		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	*Toluene*	*1800*	*E*	*5.0*	*2.6*
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	ND		5.0	4.5
1330-20-7	*Xylenes, Total*	*1500*	*E*	*10*	*3.3*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
2037-26-5	Toluene-d8 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	113		73-120
1868-53-7	Dibromofluoromethane (Surr)	93		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d
Lims ID: 480-224869-G-3
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 31-Oct-2024 05:39:30 ALS Bottle#: 48 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 480-224869-G-3
Misc. Info.: 480-0120932-015
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 12:06:26 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 12:06:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	143391	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	496724	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	272313	25.0	a
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	150830	23.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	43	230517	23.8	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	95	521841	23.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	87	203335	28.4	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.289	2.283	0.000	98	154280	29.7	
25 Carbon disulfide	76		2.350				ND	
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.654	2.654	0.000	84	8002	1.20	
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63	3.257	3.263	-0.006	1	3542	0.2583	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43	3.847	3.840	0.006	96	43550	5.13	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56	4.212	4.212	0.000	45	3140	0.1852	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78	4.552	4.552	0.000	92	6757975	291.6	Ea
57 1,2-Dichloroethane	62		4.619				ND	U
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	U
73 Toluene	92	6.371	6.365	0.000	96	4882012	360.0	E
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43	7.095	7.095	0.012	27	4219	0.3447	a
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91	7.898	7.898	0.000	98	363418	14.1	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	96	2180007	214.1	E
91 o-Xylene	106	8.440	8.434	0.000	98	724851	71.2	
92 Styrene	104	8.476	8.476	0.000	93	1088731	65.6	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105	8.835	8.835	0.006	21	7028	0.2605	a
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1				0		285.2	E

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

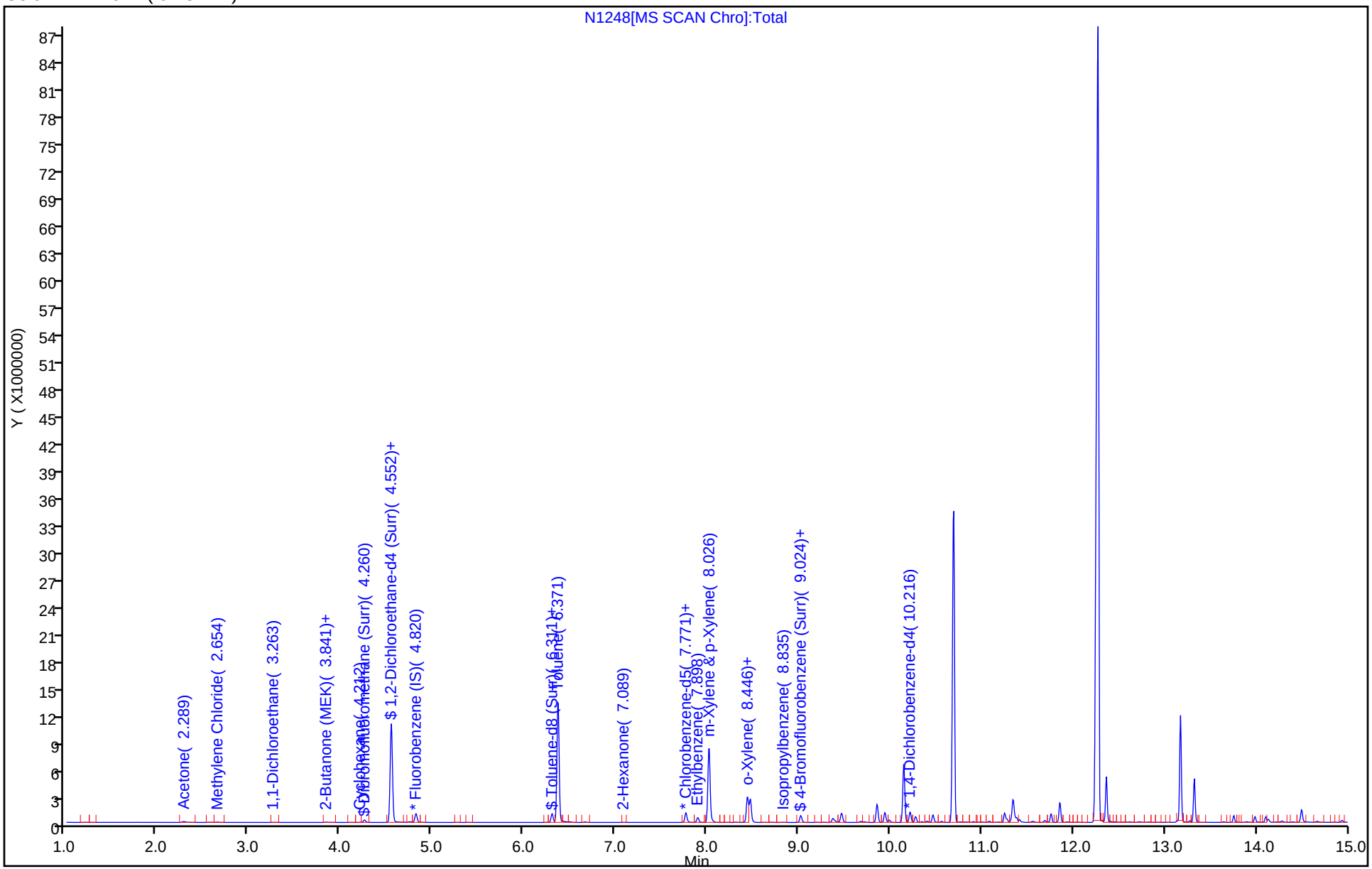
Report Date: 31-Oct-2024 12:06:26 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3	Worklist Smp#:	15
Client ID:	MW-BCP-10A-10242024				
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	48
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d
Lims ID: 480-224869-G-3
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 31-Oct-2024 05:39:30 ALS Bottle#: 48 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 480-224869-G-3
Misc. Info.: 480-0120932-015
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 12:06:26 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 12:06:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.1	92.60
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.8	95.13
$ 6 Toluene-d8 (Surr)	25.0	23.0	91.81
$ 7 4-Bromofluorobenzene (Surr)	25.0	28.4	113.43

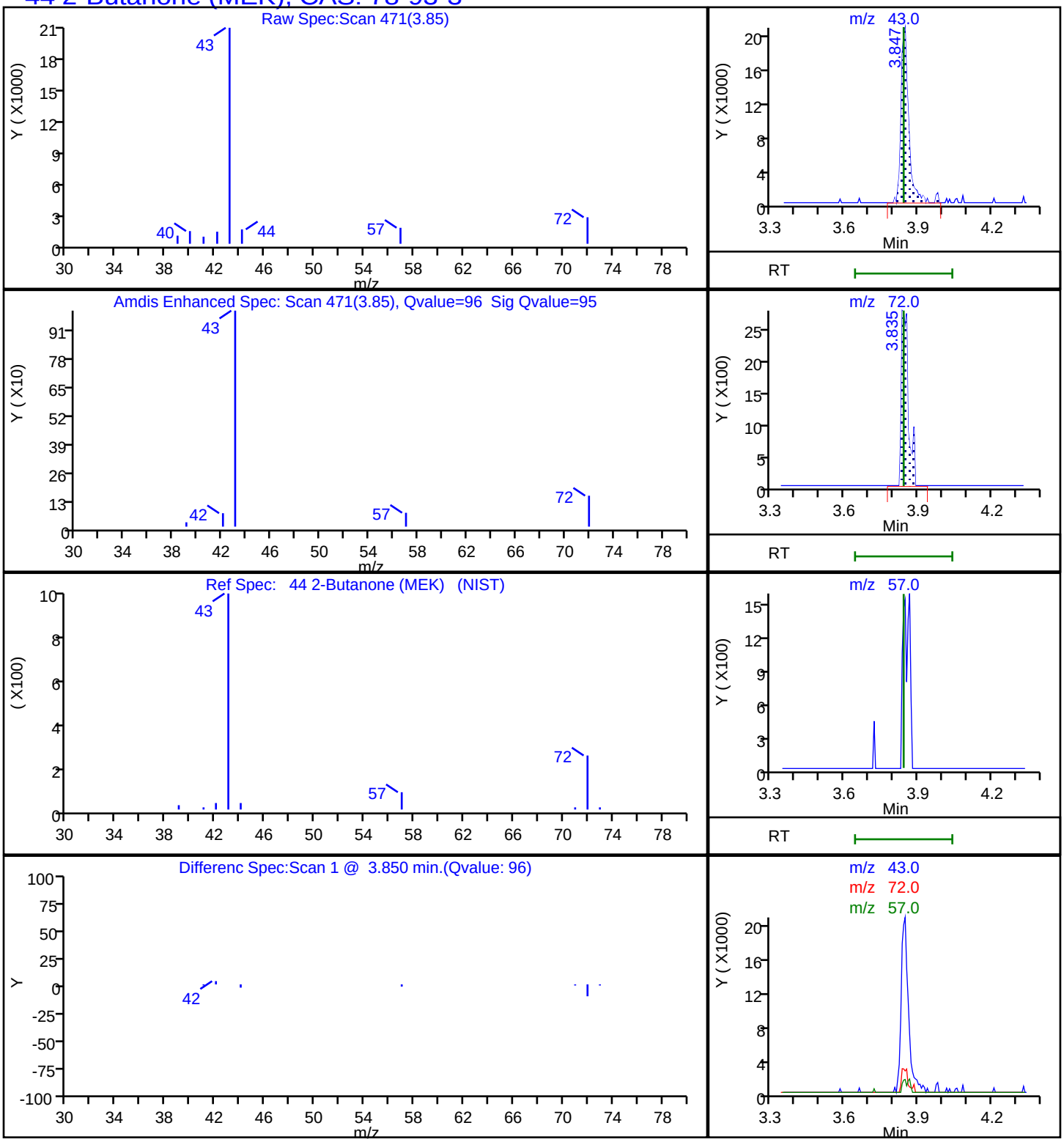
Report Date: 31-Oct-2024 12:06:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	48 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

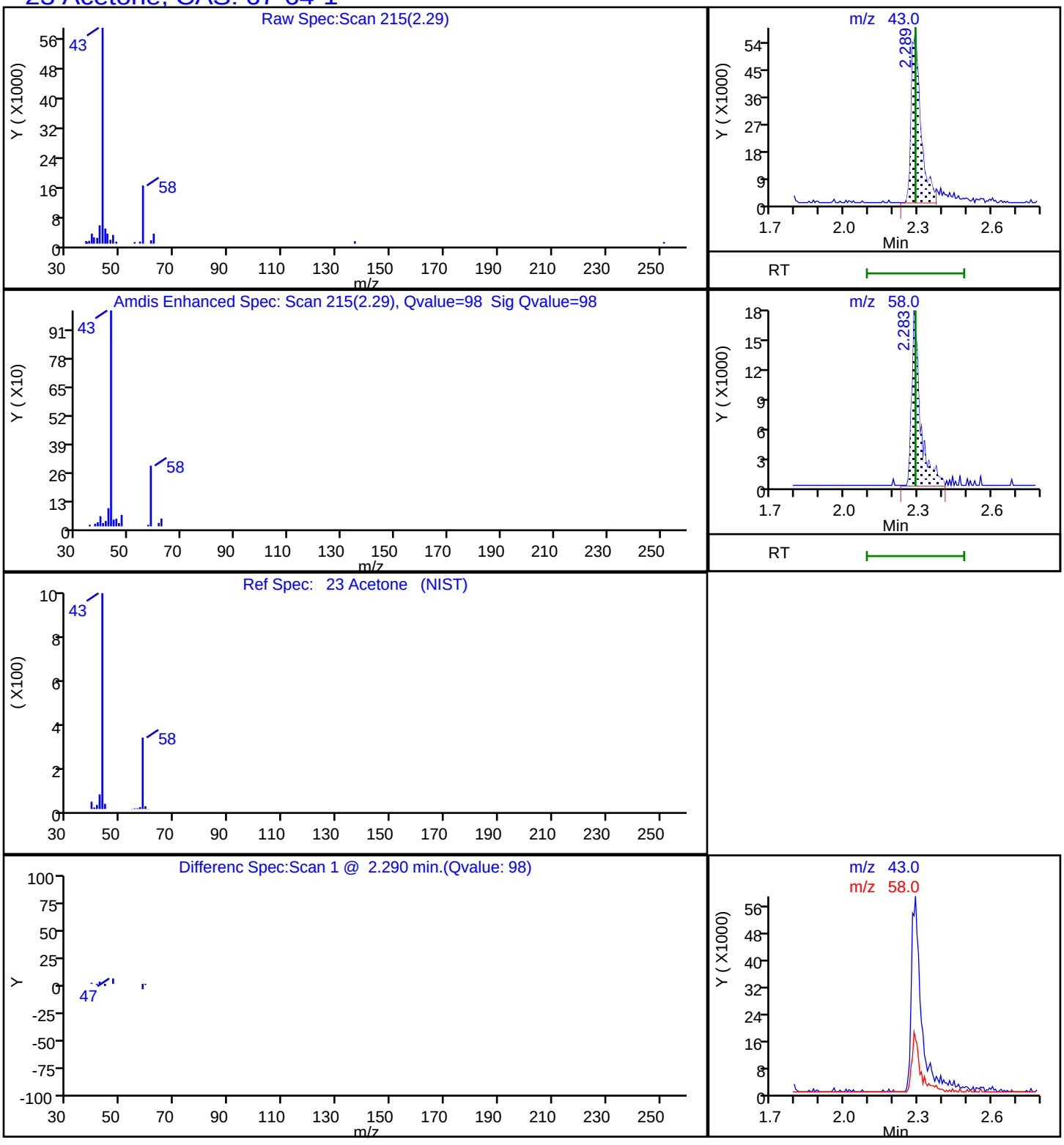
44 2-Butanone (MEK), CAS: 78-93-3



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d
Injection Date: 31-Oct-2024 05:39:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-3 Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: AD ALS Bottle#: 48 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



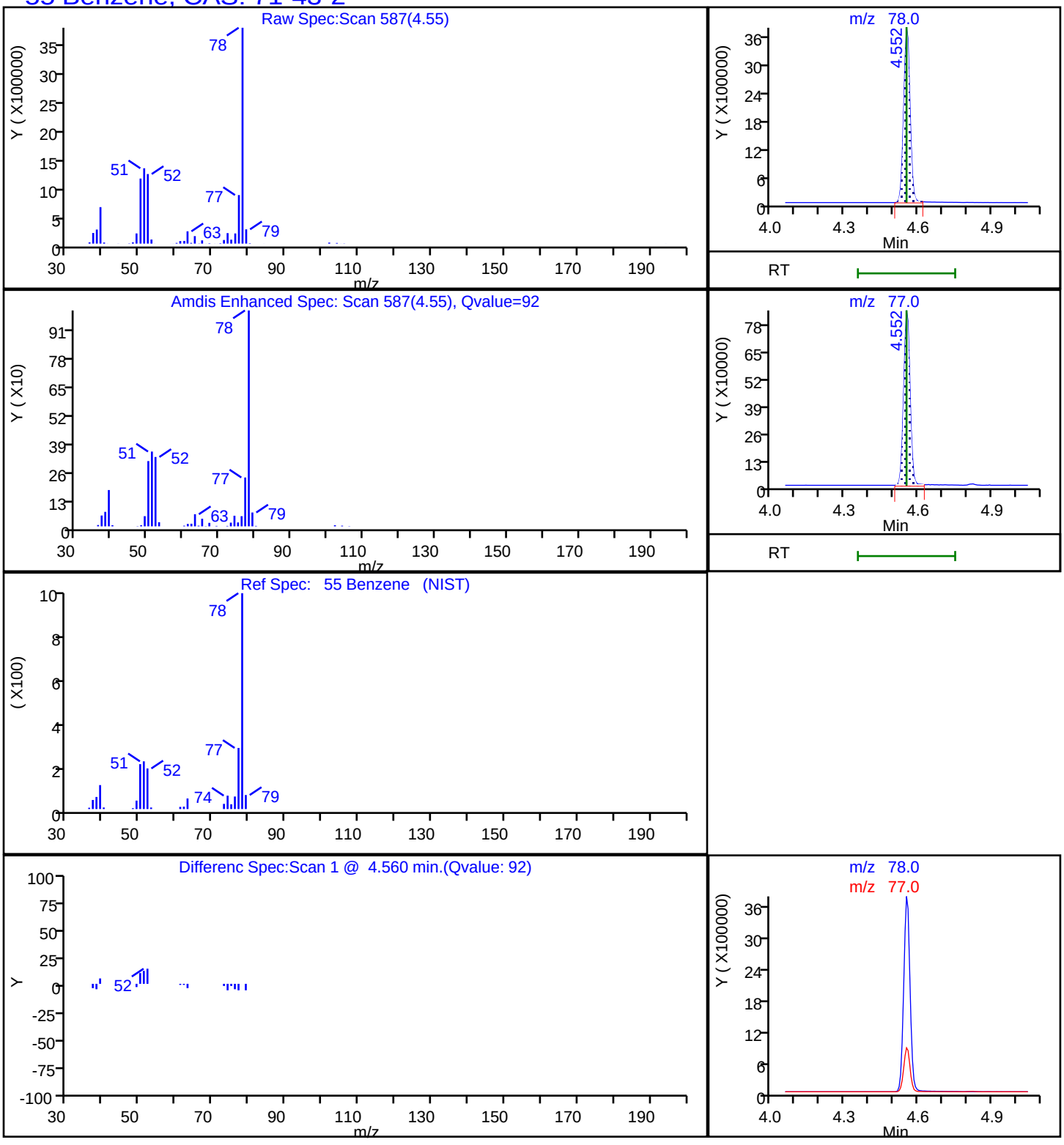
Report Date: 31-Oct-2024 12:06:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2



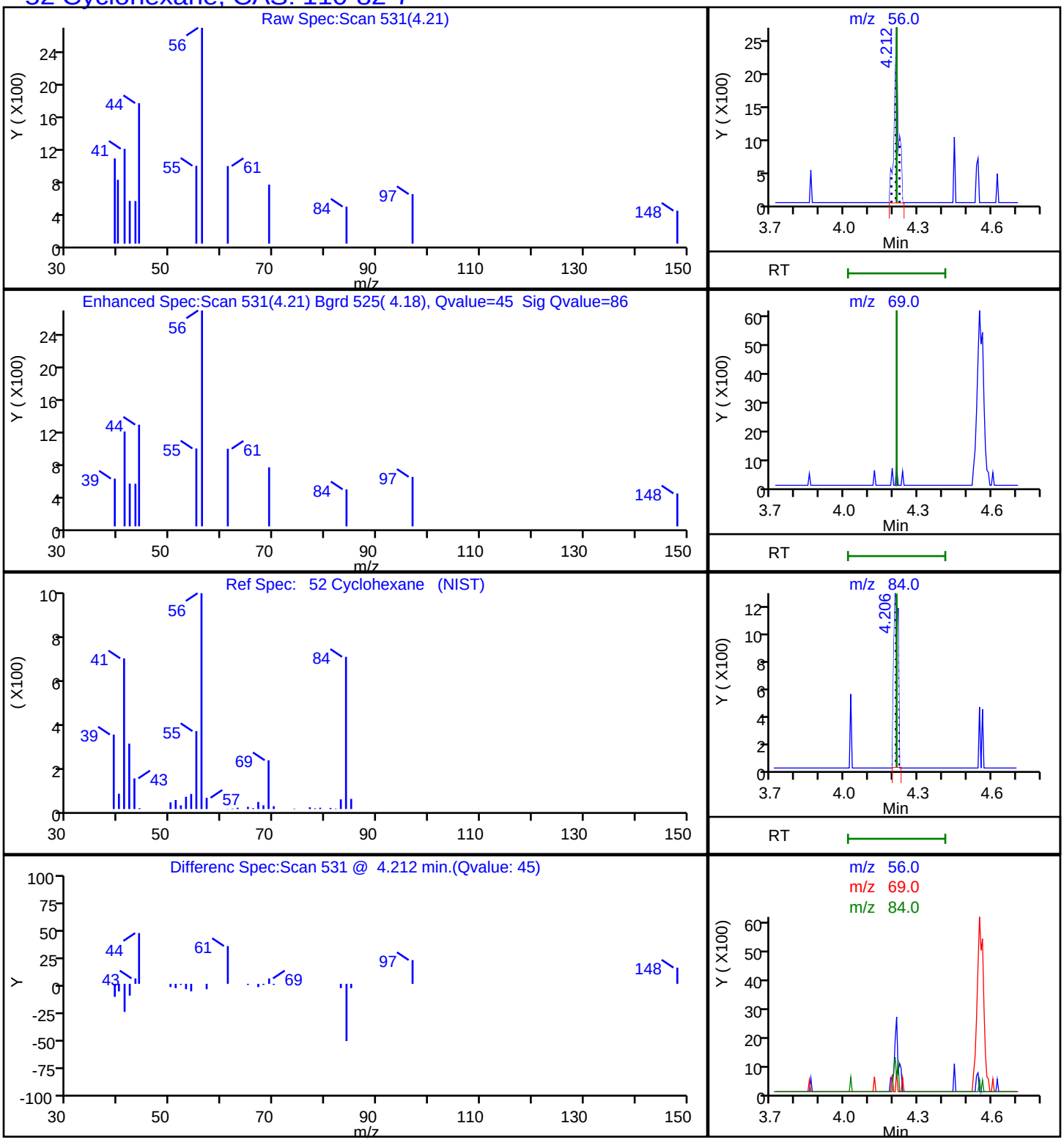
Report Date: 31-Oct-2024 12:06:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

52 Cyclohexane, CAS: 110-82-7



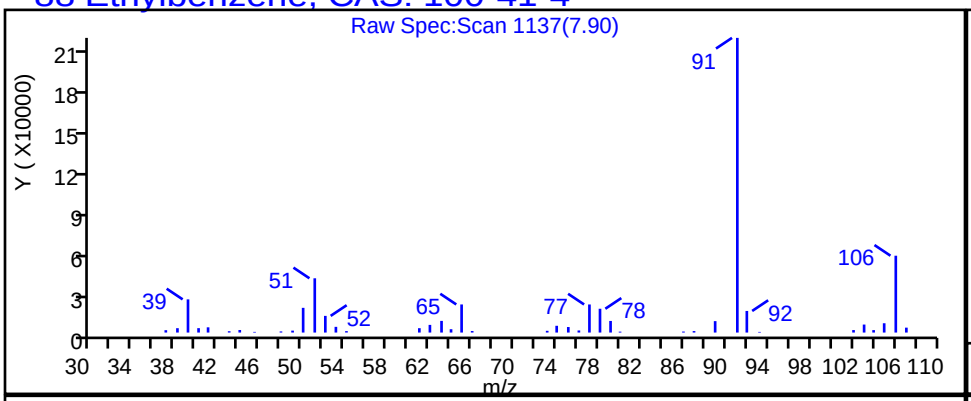
Report Date: 31-Oct-2024 12:06:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

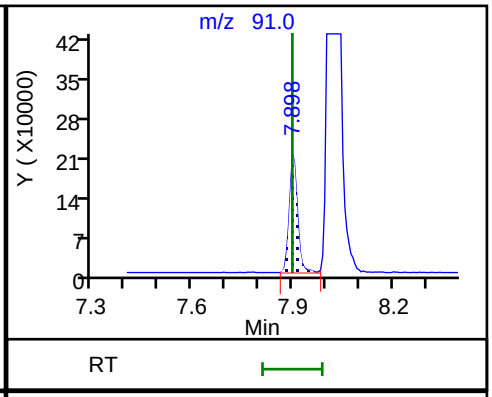
Eurofins Buffalo

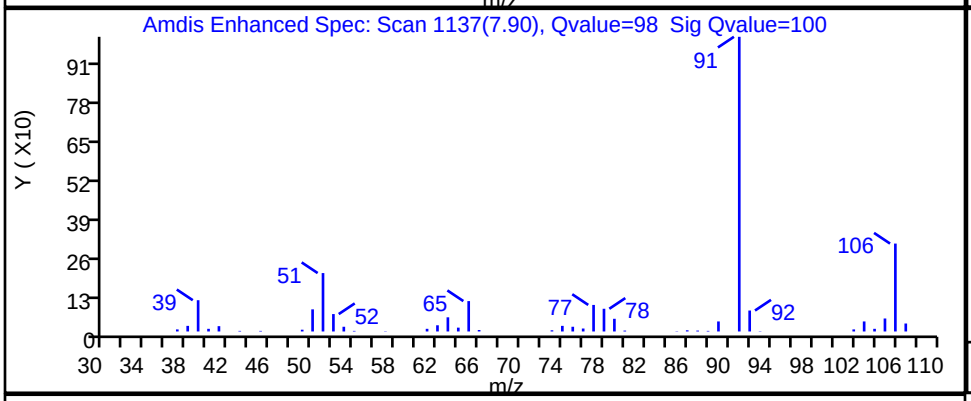
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

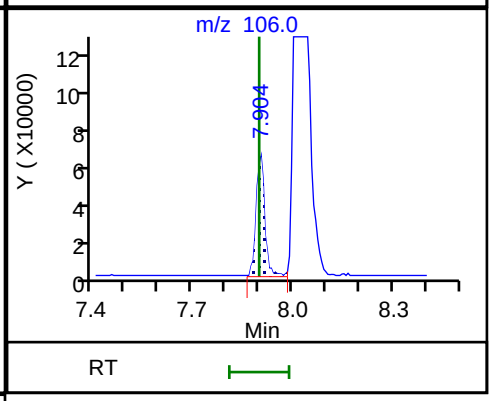
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

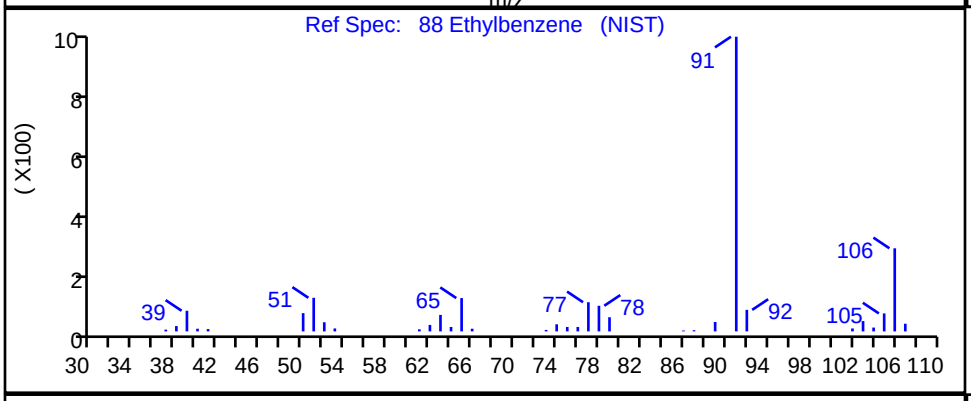
88 Ethylbenzene, CAS: 100-41-4

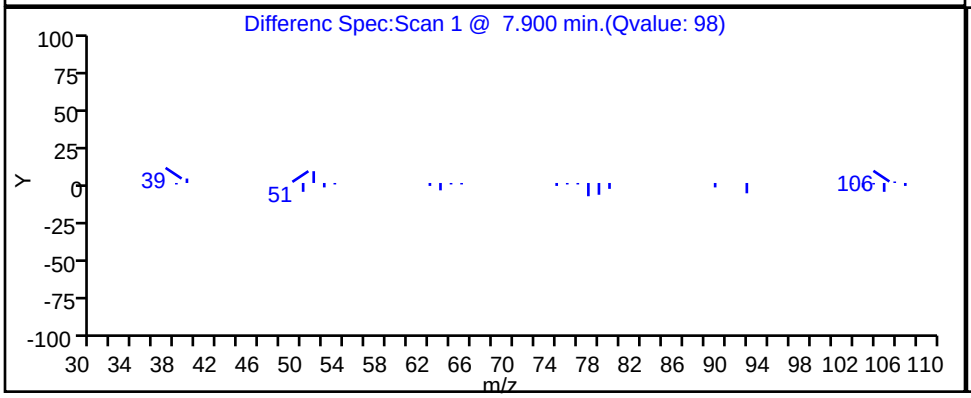


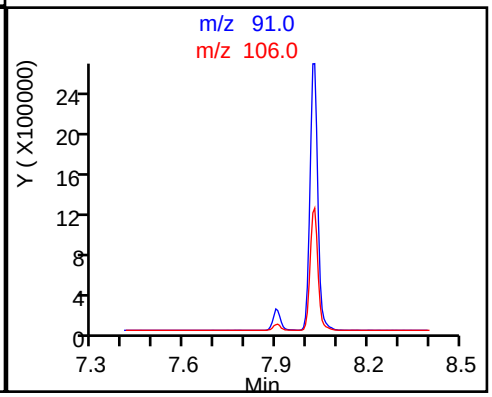












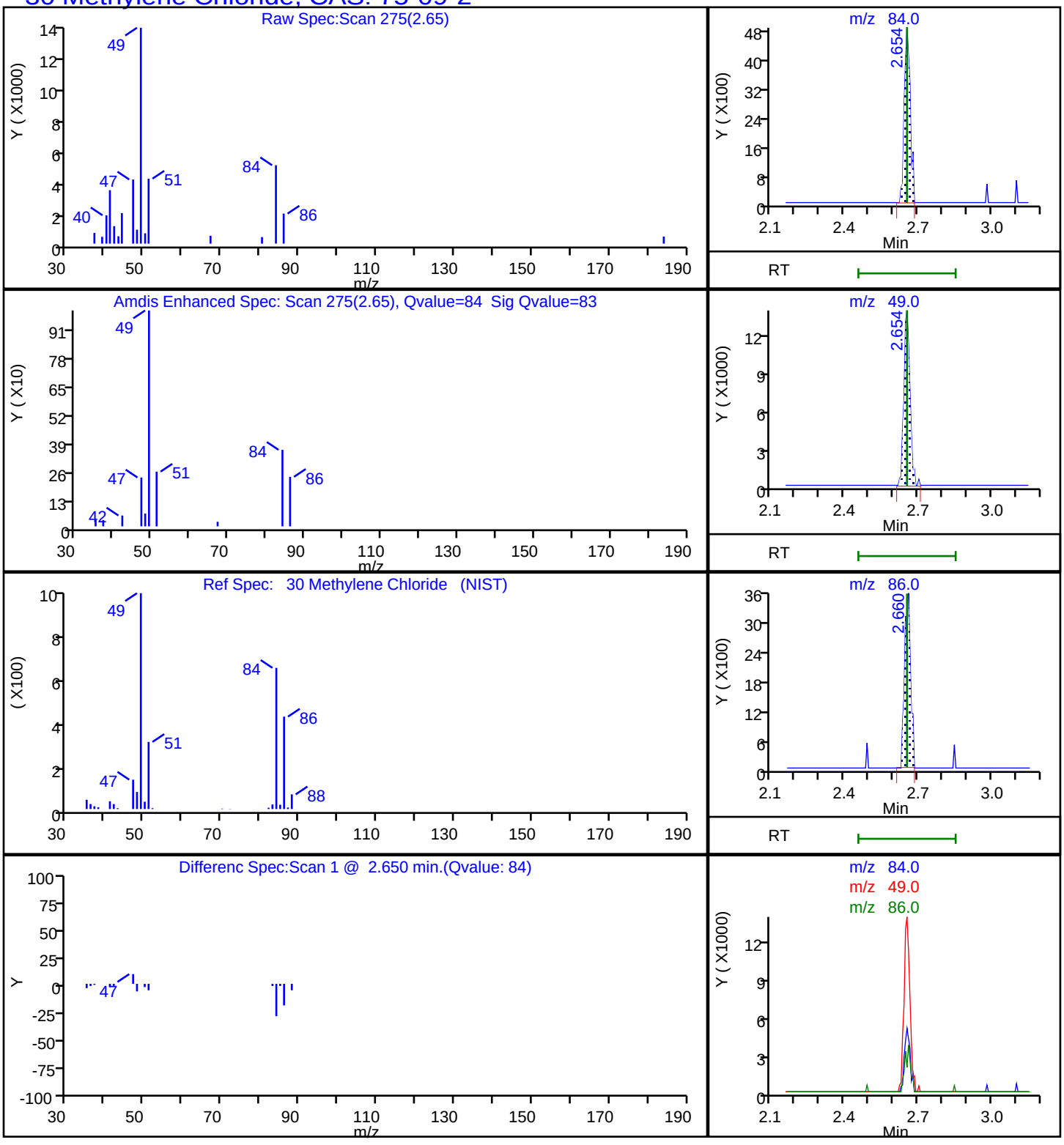
Report Date: 31-Oct-2024 12:06:26 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	48 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



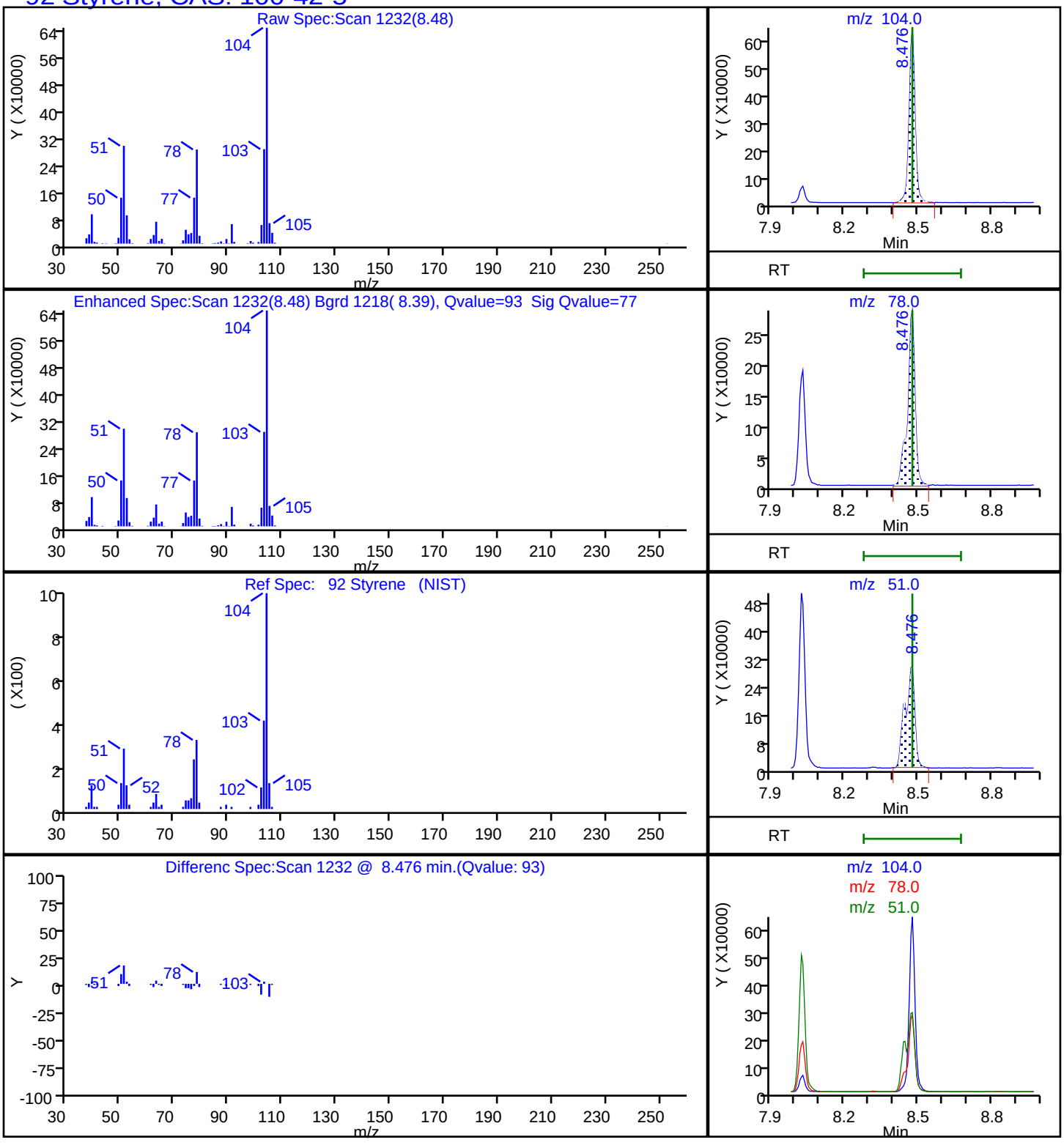
Report Date: 31-Oct-2024 12:06:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	48 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

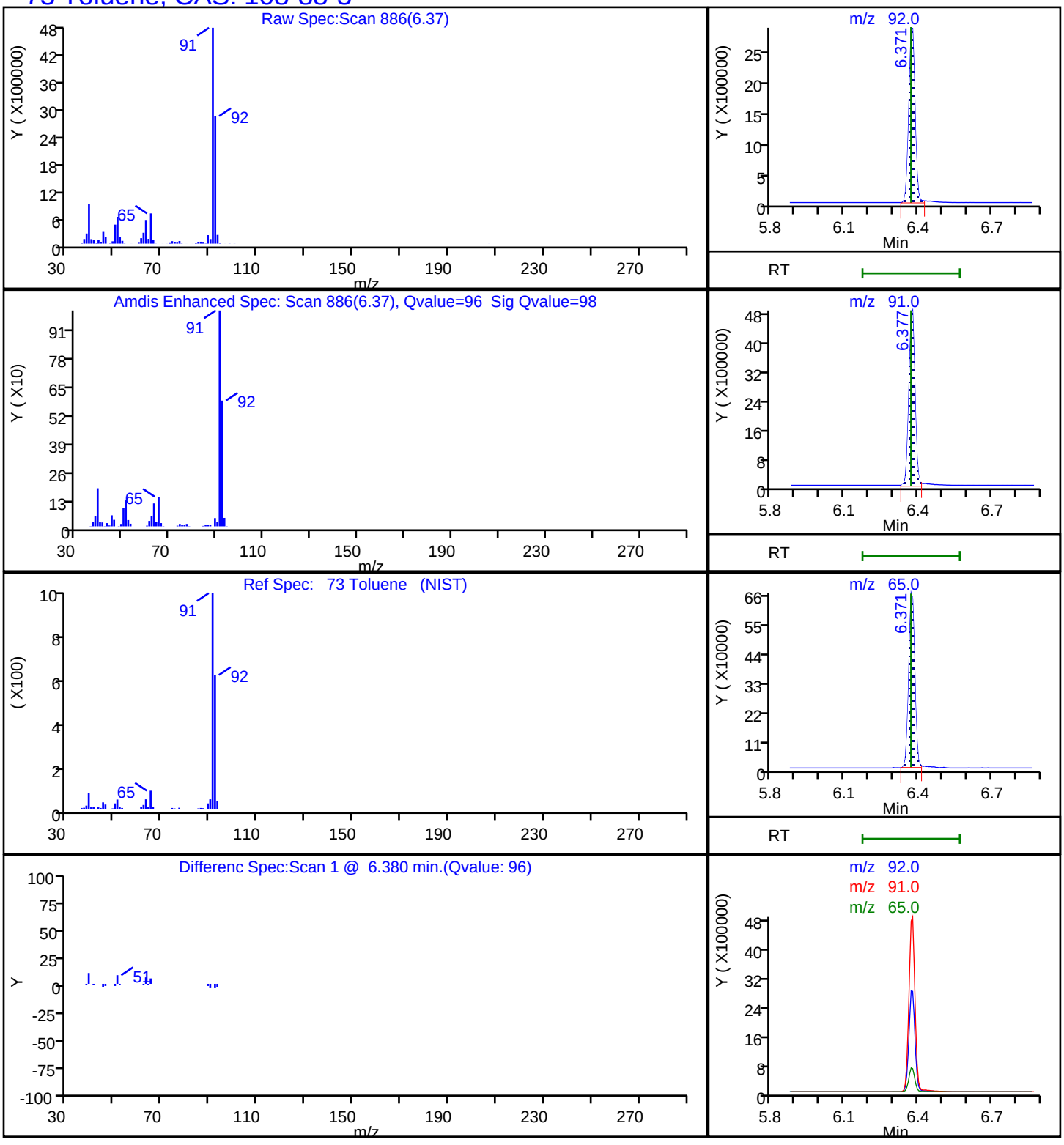
92 Styrene, CAS: 100-42-5



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d
Injection Date: 31-Oct-2024 05:39:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-3 Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: AD ALS Bottle#: 48 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

73 Toluene, CAS: 108-88-3



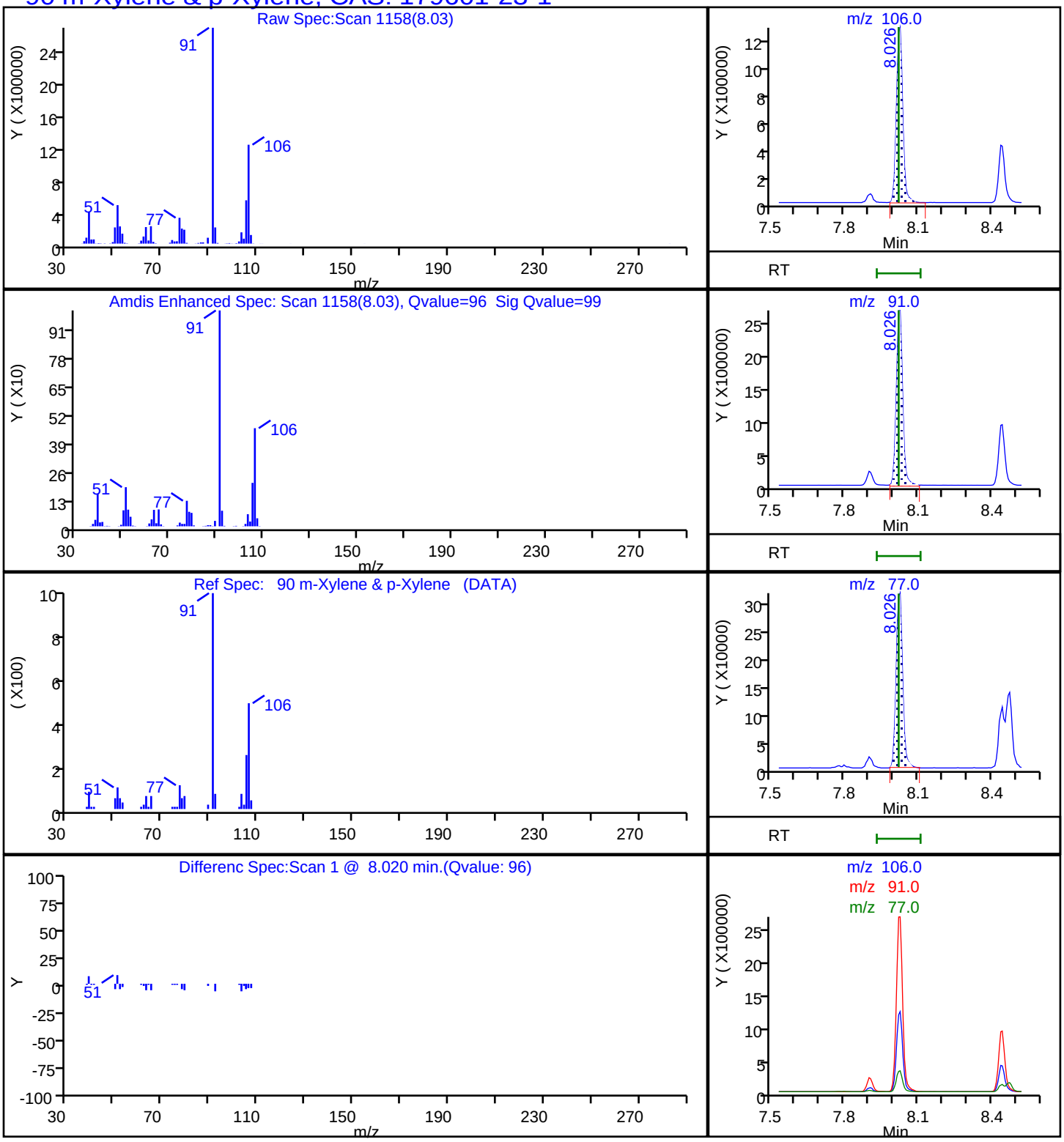
Report Date: 31-Oct-2024 12:06:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

90 m-Xylene & p-Xylene, CAS: 179601-23-1

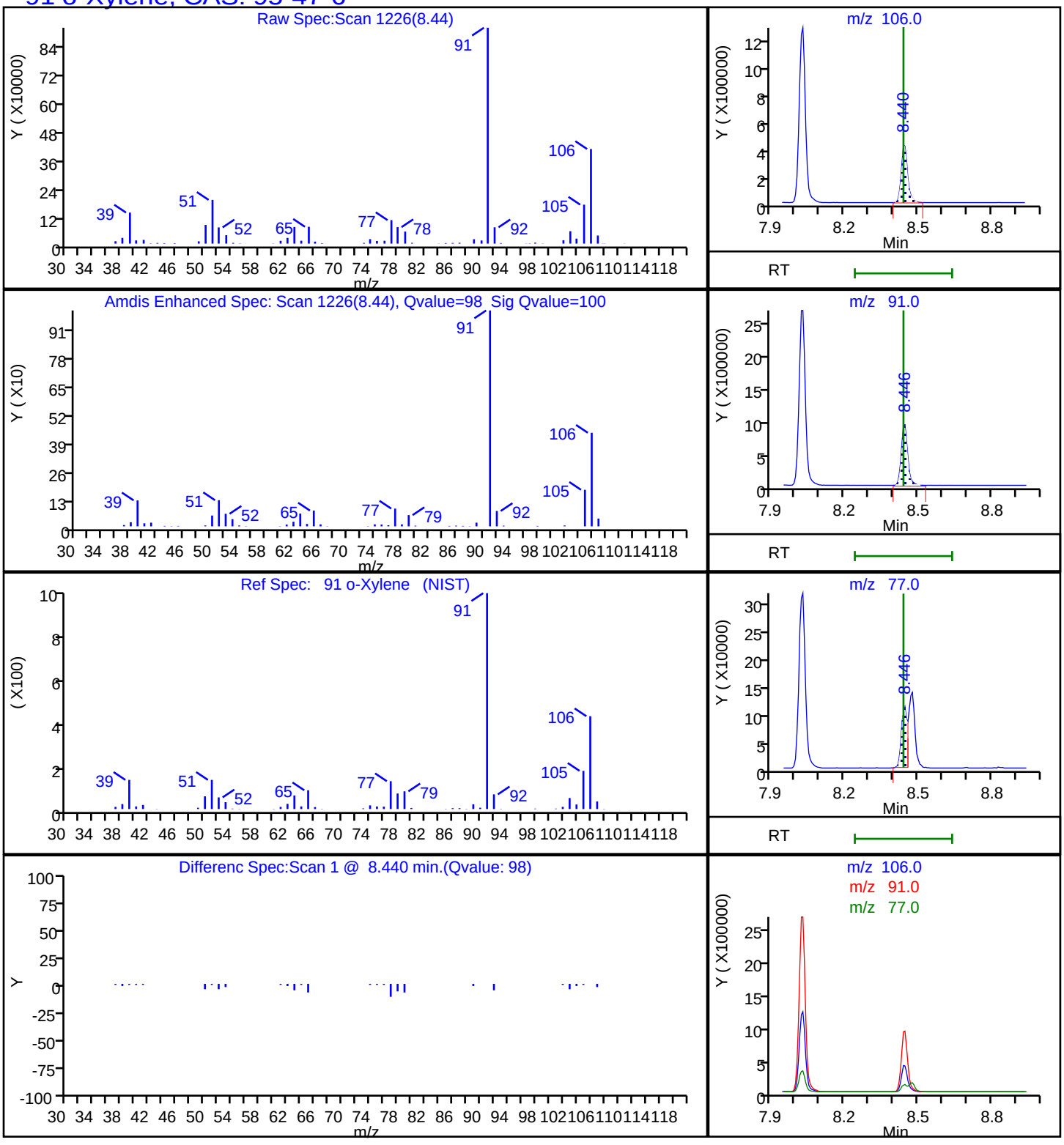


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d

Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

91 o-Xylene, CAS: 95-47-6



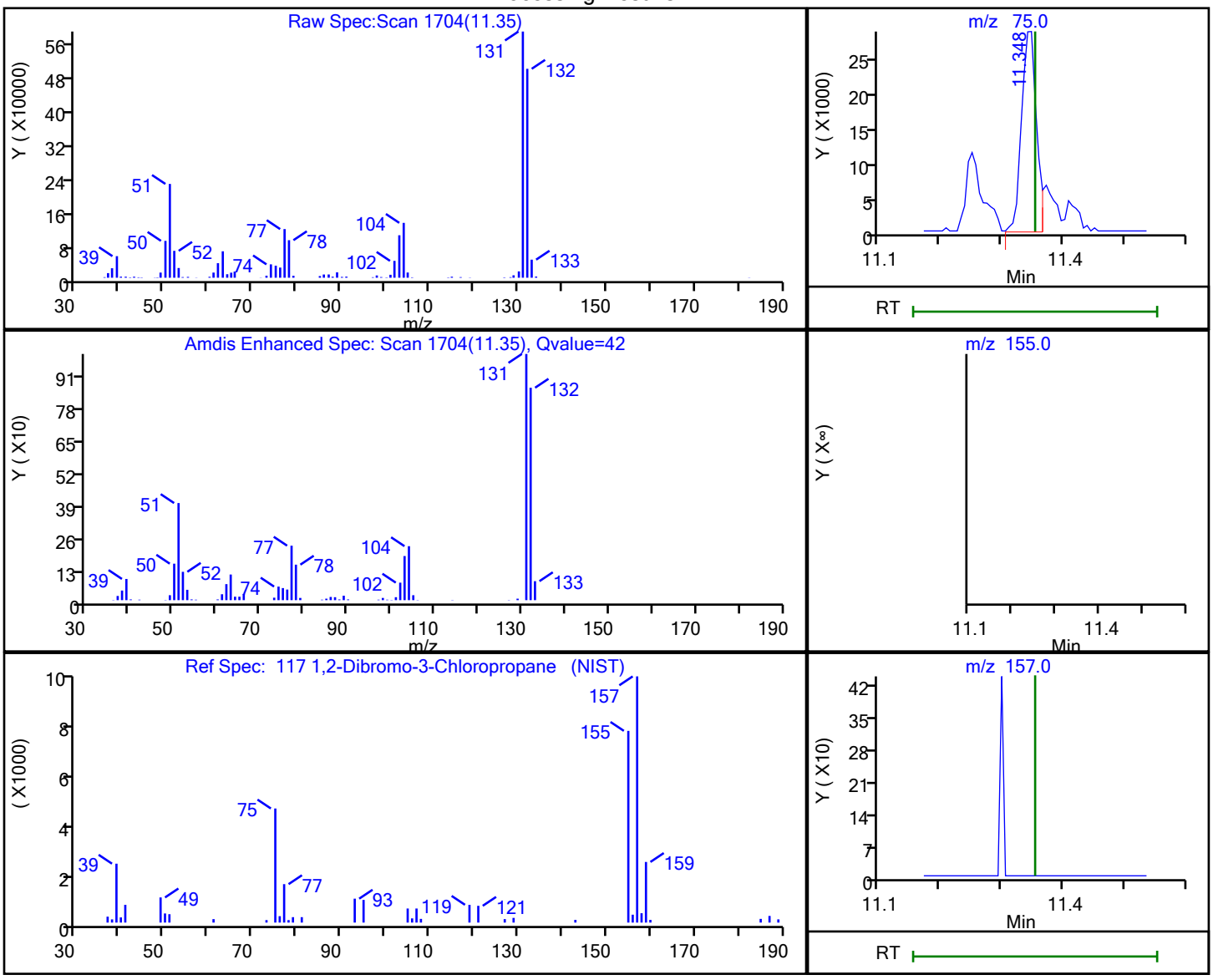
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-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	48478	25.457209
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 12:06:21 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

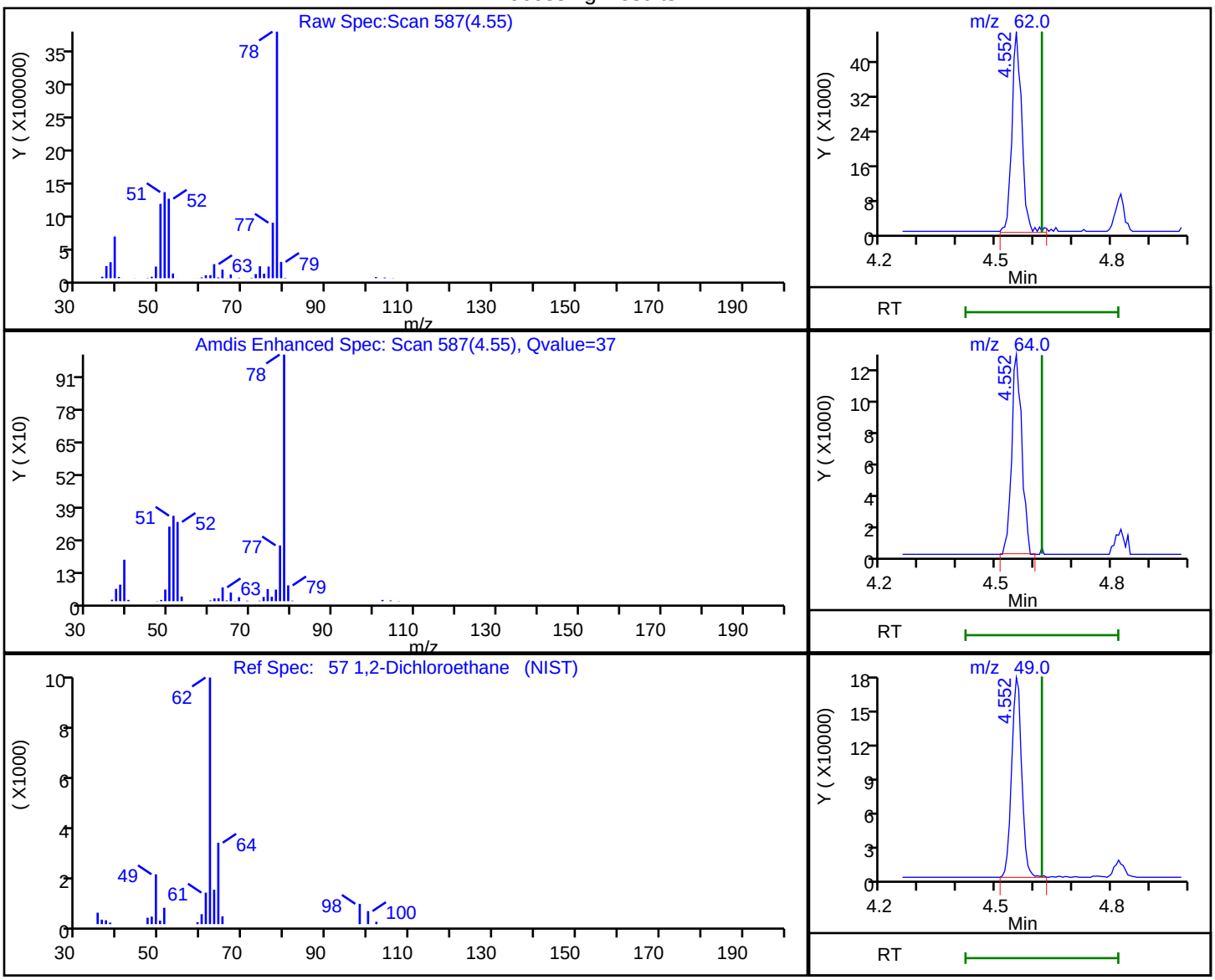
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.55	62.00	81918	6.875268
4.55	64.00	22521	
4.55	49.00	321975	

Reviewer: HF3K, 31-Oct-2024 12:05:35 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

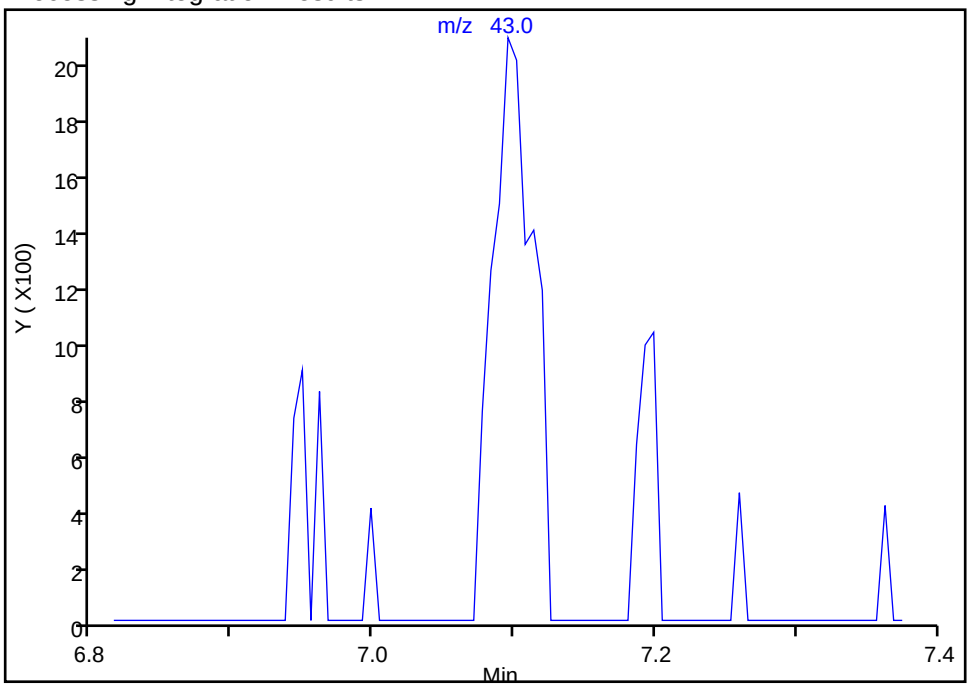
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

82 2-Hexanone, CAS: 591-78-6

Signal: 1

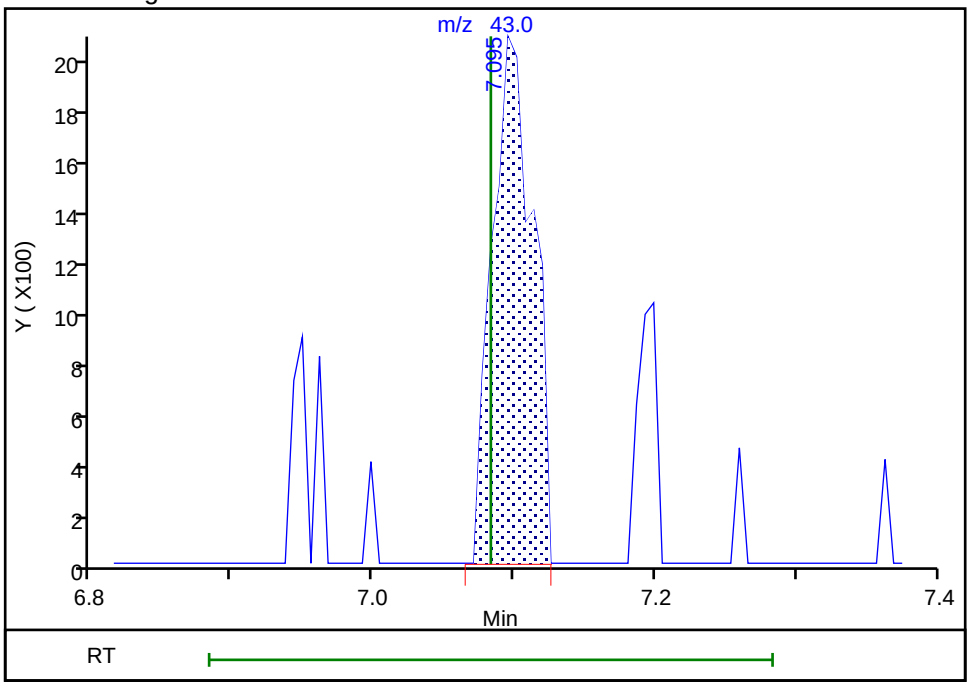
Not Detected
Expected RT: 7.08

Processing Integration Results



Manual Integration Results

RT: 7.10
Area: 4219
Amount: 0.344742
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:05:57 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

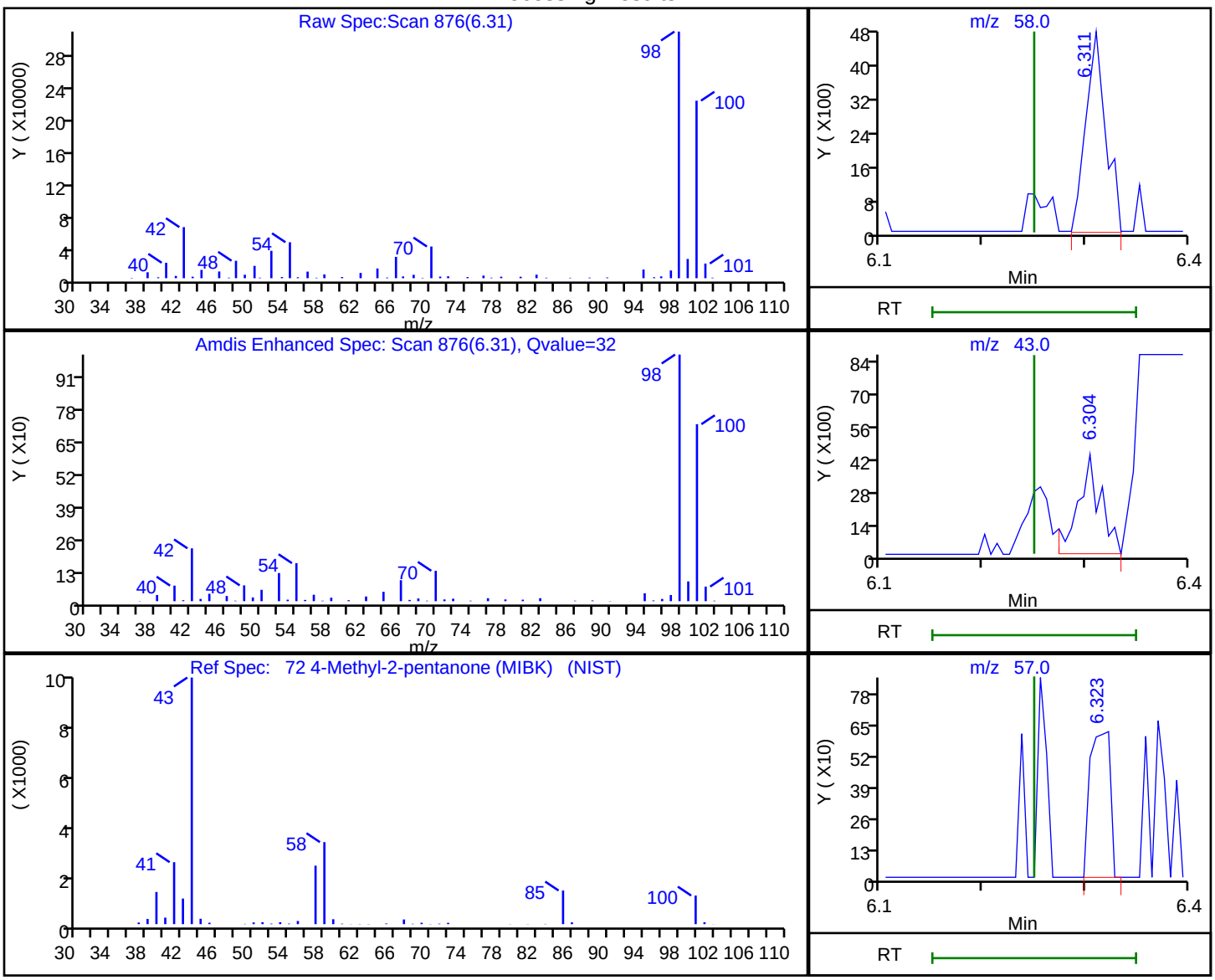
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.31	58.00	6381	1.167514
6.30	43.00	6837	
6.32	57.00	852	

Reviewer: HF3K, 31-Oct-2024 12:05:49 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

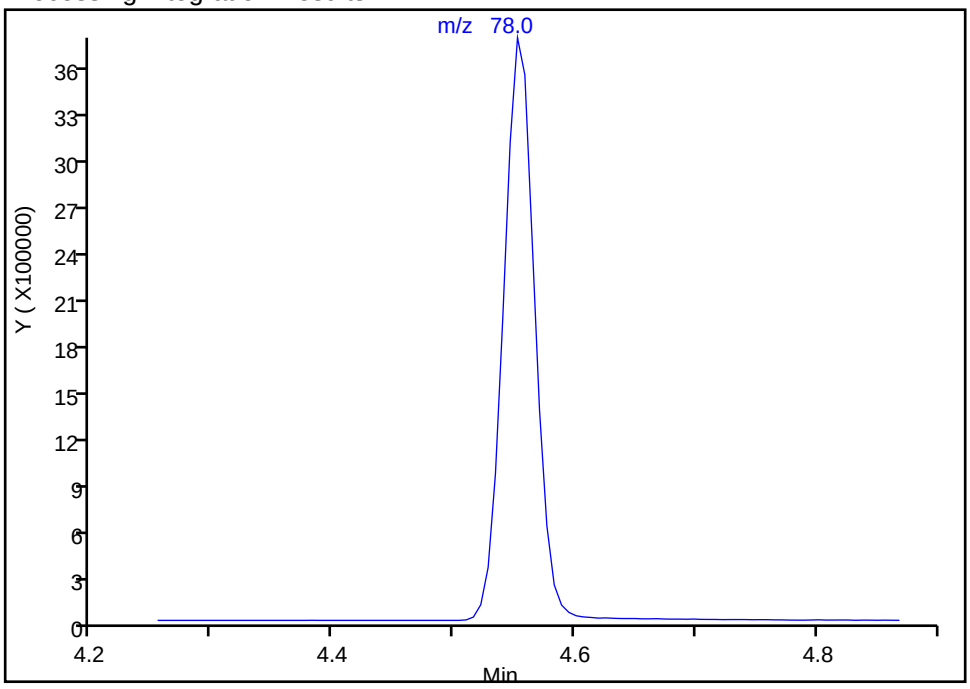
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2

Signal: 1

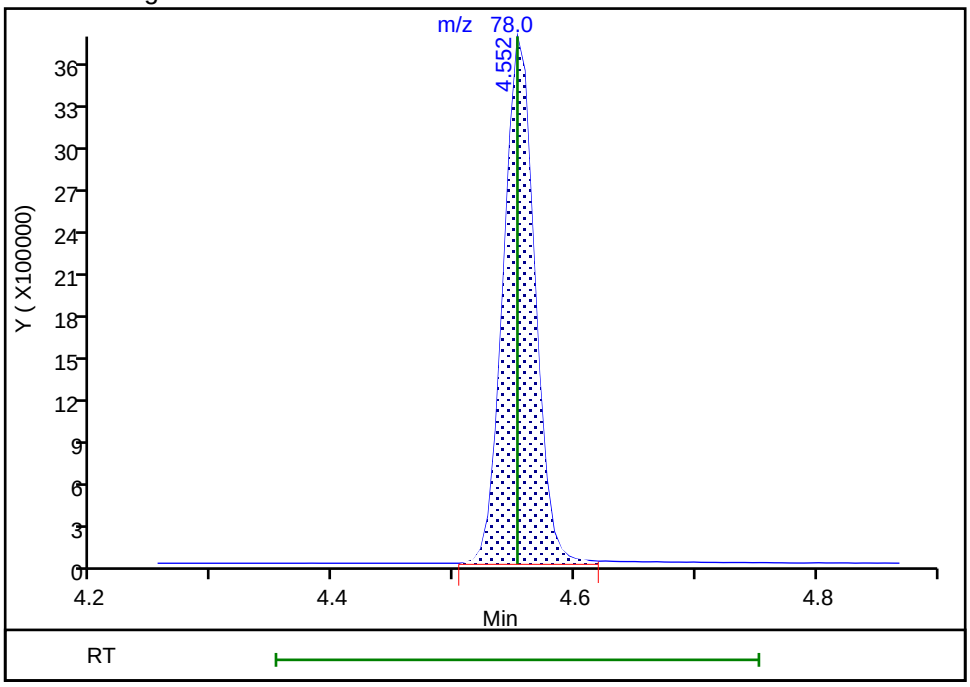
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 6757975
Amount: 291.6498
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:05:28 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

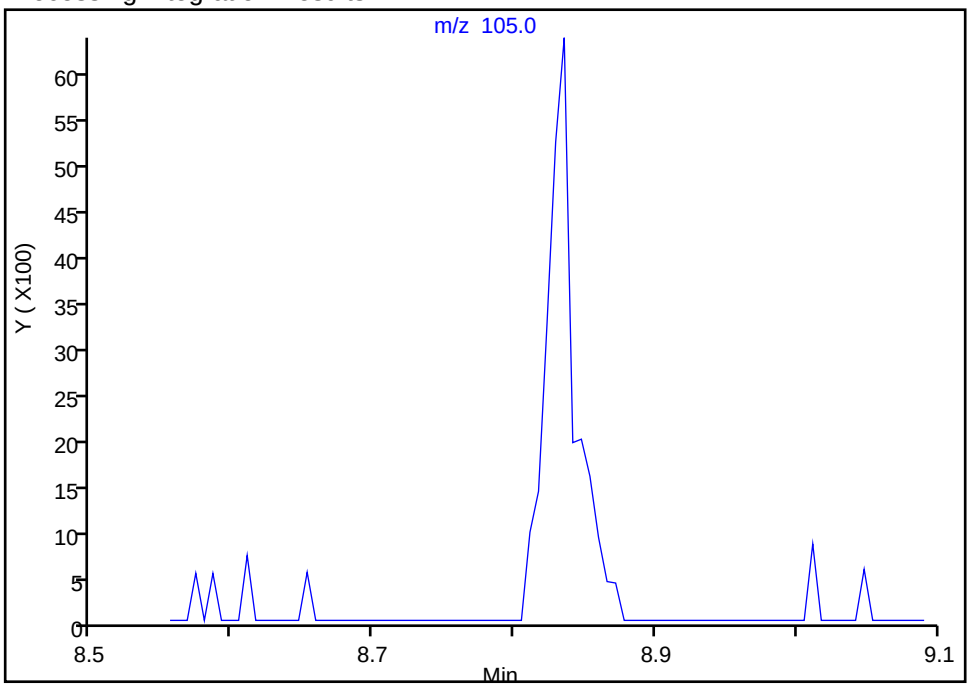
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

95 Isopropylbenzene, CAS: 98-82-8

Signal: 1

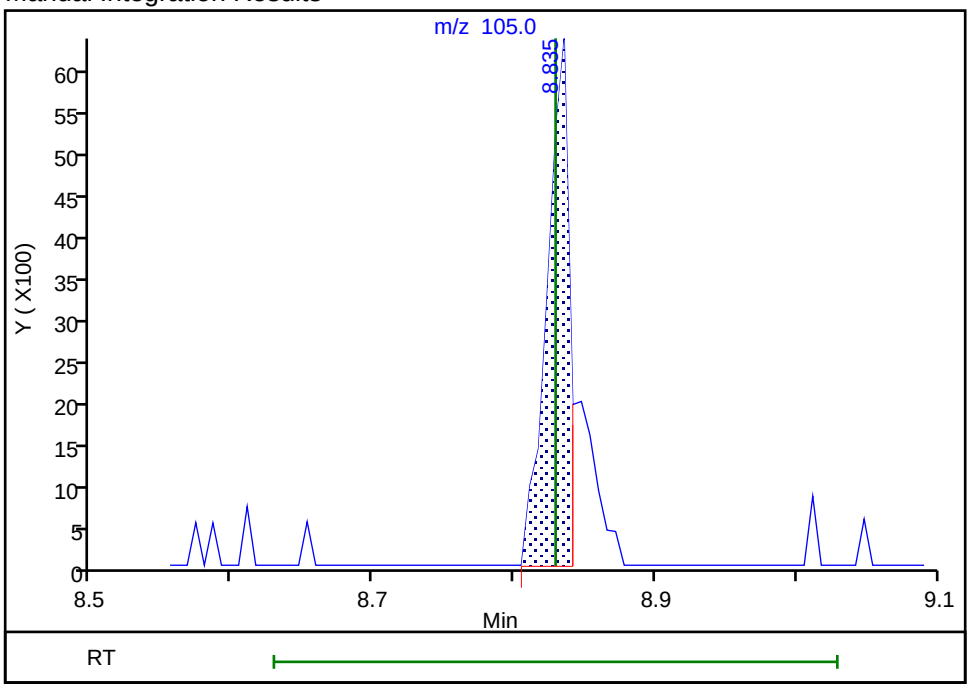
Not Detected
Expected RT: 8.83

Processing Integration Results



Manual Integration Results

RT: 8.84
Area: 7028
Amount: 0.260520
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:06:13 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Buffalo

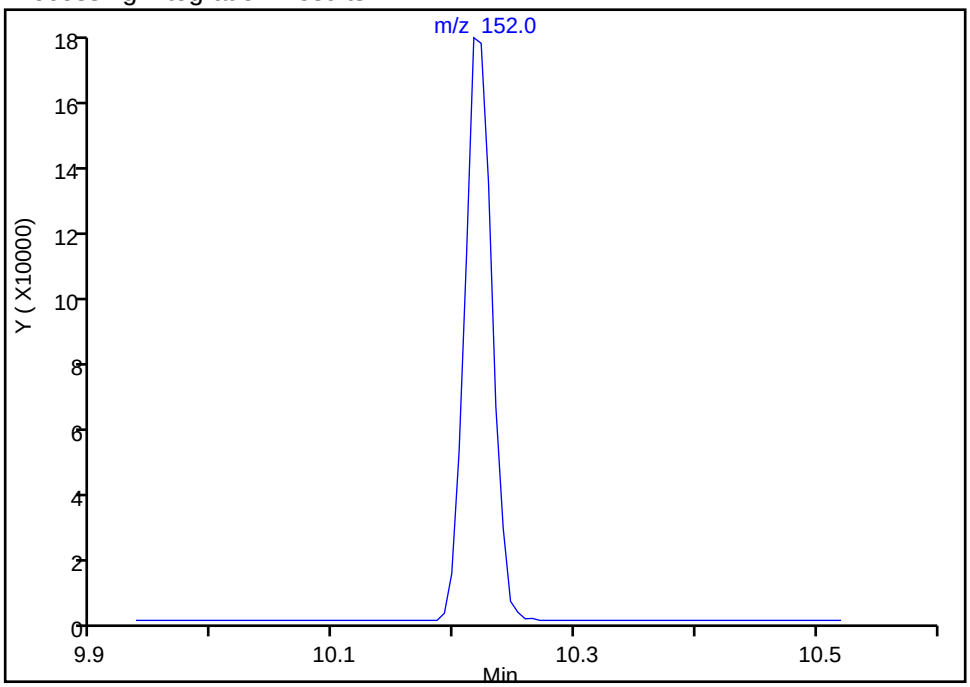
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1248.d				
Injection Date:	31-Oct-2024 05:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	48	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

* 3 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

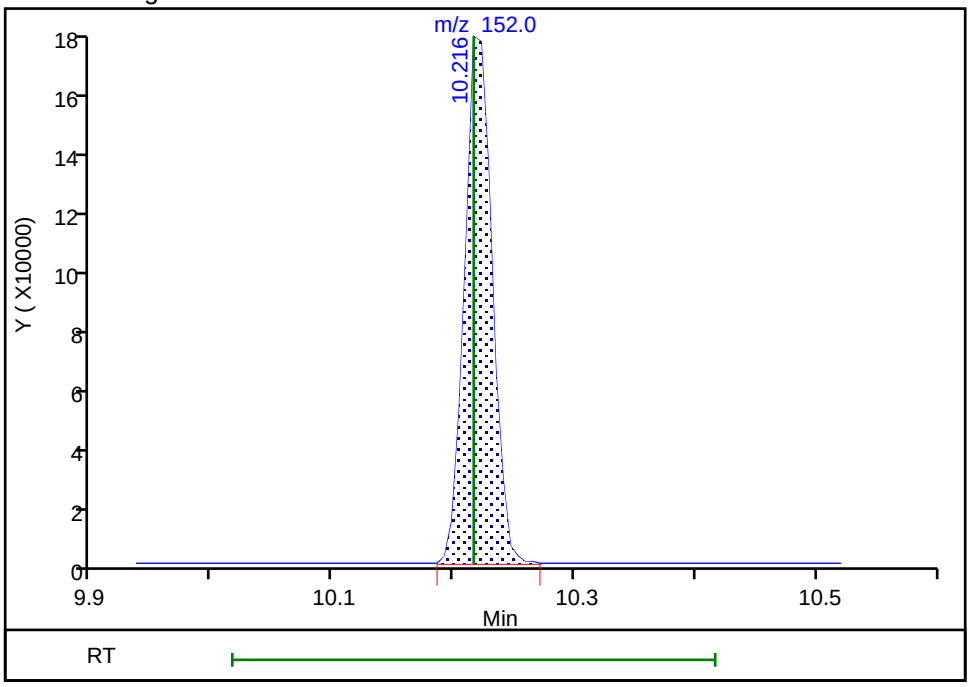
Not Detected
Expected RT: 10.22

Processing Integration Results



Manual Integration Results

RT: 10.22
Area: 272313
Amount: 25.000000
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:05:02 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 DL | Lab Sample ID: 480-224869-3 DL

Matrix: Water | Lab File ID: N1296.d

Analysis Method: 8260C | Date Collected: 10/24/2024 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 00:29

Soil Aliquot Vol: | Dilution Factor: 50

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.: 730696 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		50	41
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	11
79-00-5	1,1,2-Trichloroethane	ND		50	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16
75-34-3	1,1-Dichloroethane	ND		50	19
75-35-4	1,1-Dichloroethene	ND		50	15
120-82-1	1,2,4-Trichlorobenzene	ND		50	21
96-12-8	1,2-Dibromo-3-Chloropropane	160		50	20
106-93-4	1,2-Dibromoethane	ND		50	37
95-50-1	1,2-Dichlorobenzene	ND		50	40
107-06-2	1,2-Dichloroethane	ND		50	11
78-87-5	1,2-Dichloropropane	ND		50	36
541-73-1	1,3-Dichlorobenzene	ND		50	39
106-46-7	1,4-Dichlorobenzene	ND		50	42
591-78-6	2-Hexanone	ND		250	62
78-93-3	2-Butanone (MEK)	ND		500	66
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	110
67-64-1	Acetone	190	J	500	150
71-43-2	Benzene	1500		50	21
75-27-4	Bromodichloromethane	ND		50	20
75-25-2	Bromoform	ND		50	13
74-83-9	Bromomethane	ND		50	35
75-15-0	Carbon disulfide	ND		50	9.5
56-23-5	Carbon tetrachloride	ND		50	14
108-90-7	Chlorobenzene	ND		50	38
124-48-1	Dibromochloromethane	ND		50	16
75-00-3	Chloroethane	ND		50	16
67-66-3	Chloroform	ND		50	17
74-87-3	Chloromethane	ND		50	18
156-59-2	cis-1,2-Dichloroethene	ND		50	41
10061-01-5	cis-1,3-Dichloropropene	ND		50	18
110-82-7	Cyclohexane	ND		50	9.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 DL | Lab Sample ID: 480-224869-3 DL

Matrix: Water | Lab File ID: N1296.d

Analysis Method: 8260C | Date Collected: 10/24/2024 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 00:29

Soil Aliquot Vol: | Dilution Factor: 50

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.: 730696 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	*Dichlorodifluoromethane*	*ND*		*50*	*34*
100-41-4	*Ethylbenzene*	*78*		*50*	*37*
98-82-8	*Isopropylbenzene*	*ND*		*50*	*40*
79-20-9	*Methyl acetate*	*ND*		*130*	*65*
1634-04-4	*Methyl tert-butyl ether*	*ND*		*50*	*8.0*
108-87-2	*Methylcyclohexane*	*ND*		*50*	*8.0*
75-09-2	*Methylene Chloride*	*69*		*50*	*22*
100-42-5	*Styrene*	*310*		*50*	*37*
127-18-4	*Tetrachloroethene*	*ND*		*50*	*18*
108-88-3	Toluene	1900		50	26
156-60-5	*trans-1,2-Dichloroethene*	*ND*		*50*	*45*
10061-02-6	*trans-1,3-Dichloropropene*	*ND*		*50*	*19*
79-01-6	*Trichloroethene*	*ND*		*50*	*23*
75-69-4	*Trichlorofluoromethane*	*ND*		*50*	*44*
75-01-4	*Vinyl chloride*	*ND*		*50*	*45*
1330-20-7	Xylenes, Total	1500		100	33

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d
Lims ID: 480-224869-H-3
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 01-Nov-2024 00:29:30 ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 480-224869-H-3
Misc. Info.: 480-0120960-027
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:09:31 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:09:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	138991	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	473090	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	276538	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	154054	24.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	63	224212	23.9	
$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	97	535045	24.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.030	9.024	0.006	87	179633	26.3	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.571				ND	
18 Trichlorofluoromethane	101		1.748				ND	
22 1,1-Dichloroethene	96		2.180				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.186				ND	
23 Acetone	43	2.289	2.289	0.000	97	19190	3.81	
25 Carbon disulfide	76		2.350				ND	
28 Methyl acetate	43		2.569				ND	
30 Methylene Chloride	84	2.654	2.660	0.000	86	8836	1.39	
32 Methyl tert-butyl ether	73		2.855				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.269				ND	
43 cis-1,2-Dichloroethene	96		3.804				ND	
44 2-Butanone (MEK)	43		3.834				ND	
50 Chloroform	83	4.108	4.108	0.000	19	2309	0.2149	a
52 Cyclohexane	56		4.212				ND	
51 1,1,1-Trichloroethane	97		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78	4.552	4.552	0.000	89	679189	30.2	a
57 1,2-Dichloroethane	62		4.625				ND	U
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.392				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	U
73 Toluene	92	6.371	6.365	0.000	97	489914	37.9	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.235				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91	7.898	7.898	0.000	97	38300	1.56	
90 m-Xylene & p-Xylene	106	8.026	8.026	0.000	97	215191	22.2	
91 o-Xylene	106	8.446	8.440	0.006	98	70214	7.24	
92 Styrene	104	8.476	8.476	0.000	91	99329	6.29	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75	11.342	11.354	-0.012	42	6068	3.14	
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1				0		29.4	

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

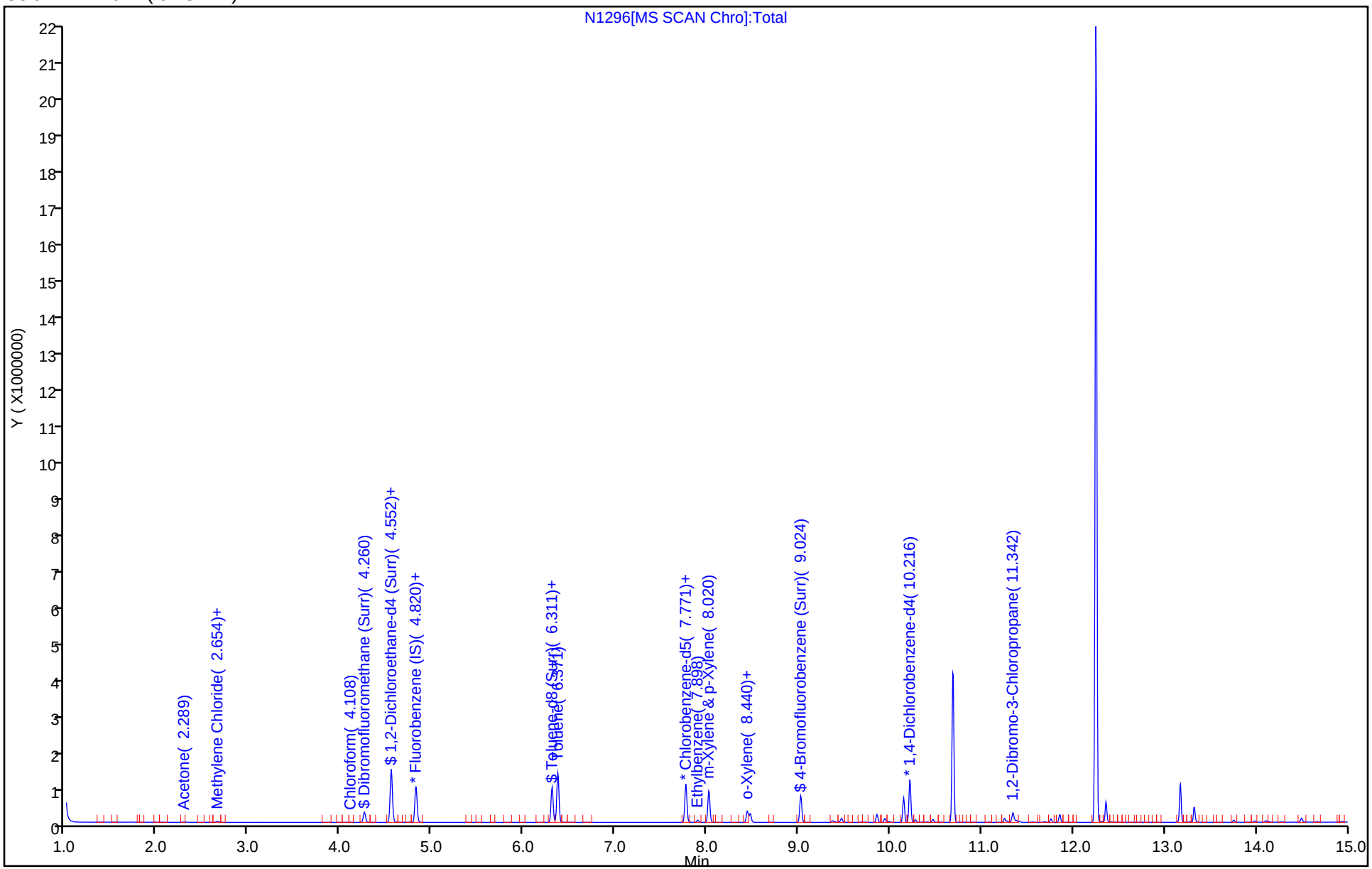
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3	Worklist Smp#:	27
Client ID:	MW-BCP-10A-10242024				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	37
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d
Lims ID: 480-224869-H-3
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 01-Nov-2024 00:29:30 ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 480-224869-H-3
Misc. Info.: 480-0120960-027
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:09:31 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

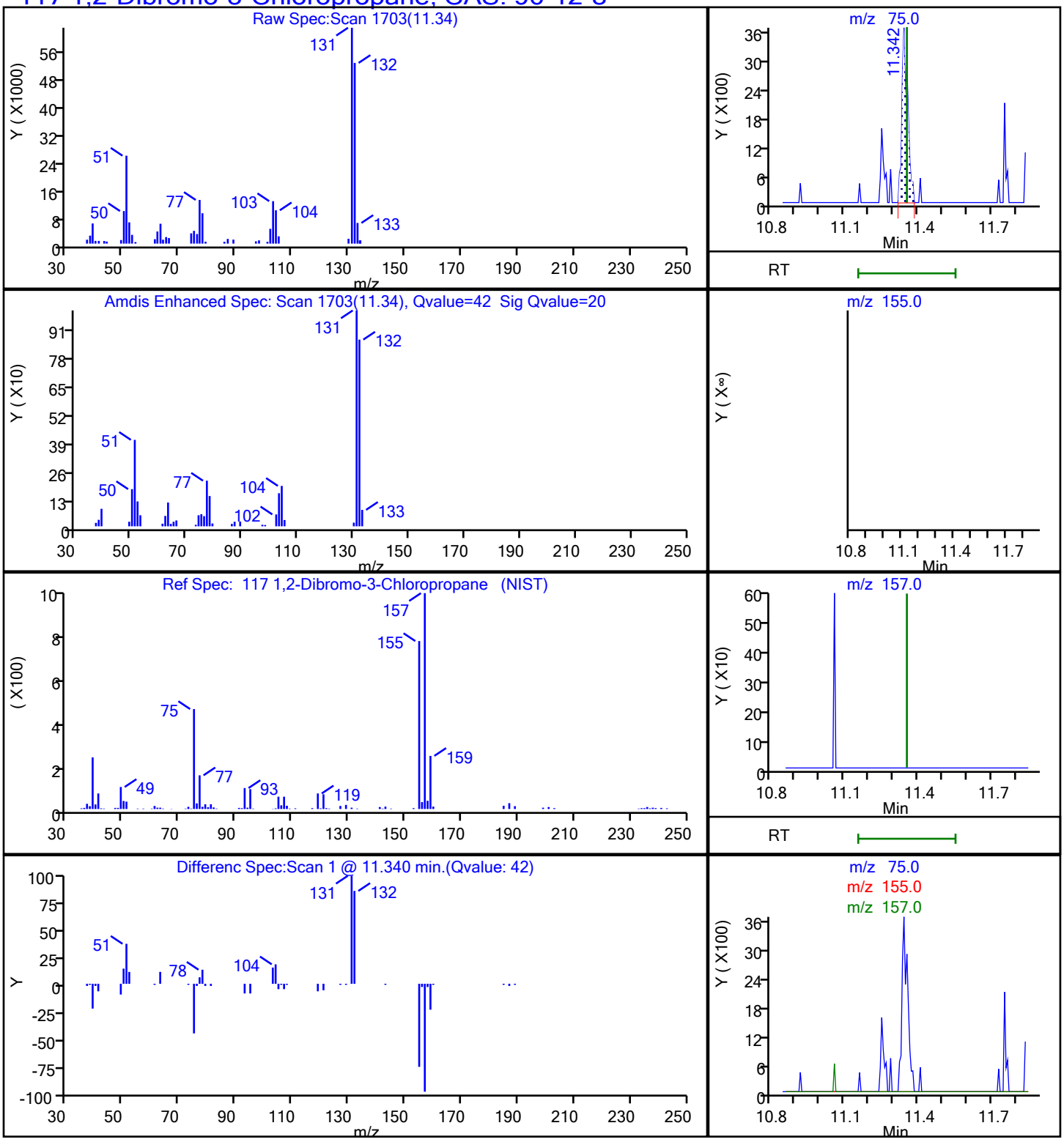
First Level Reviewer: HF3K Date: 01-Nov-2024 10:09:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.4	97.57
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.9	95.46
$ 6 Toluene-d8 (Surr)	25.0	24.7	98.84
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.3	105.21

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d
Injection Date: 01-Nov-2024 00:29:30 Instrument ID: HP5973N
Lims ID: 480-224869-H-3 Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: AD ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Method: N-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



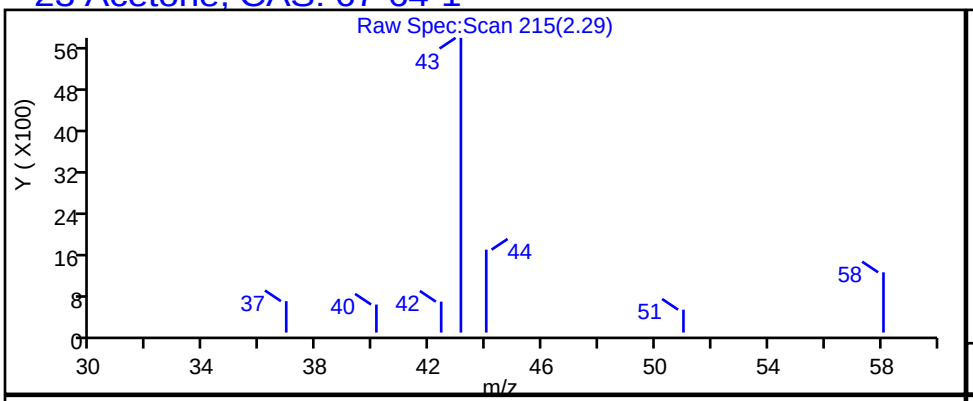
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

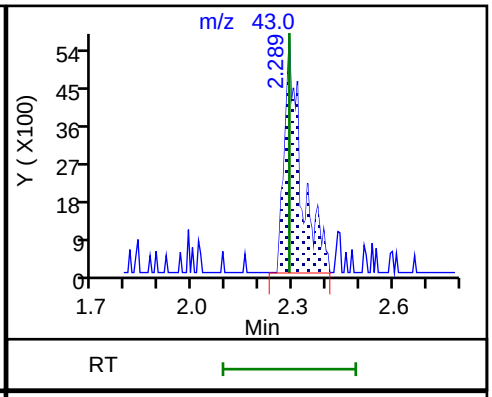
Eurofins Buffalo

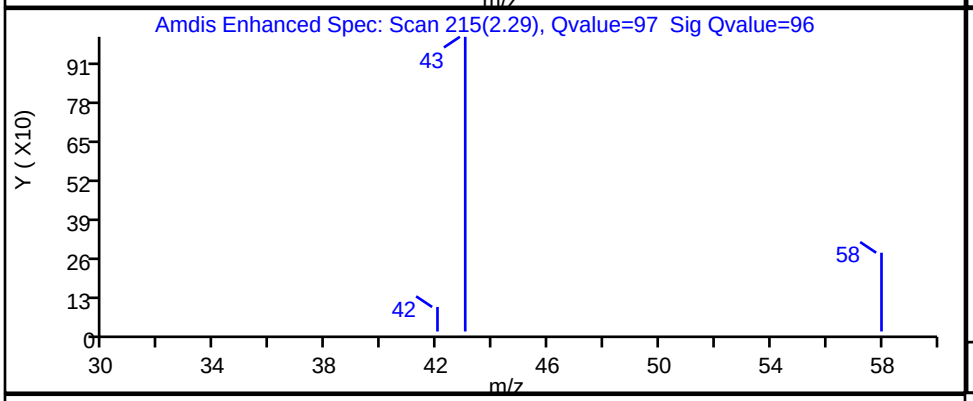
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

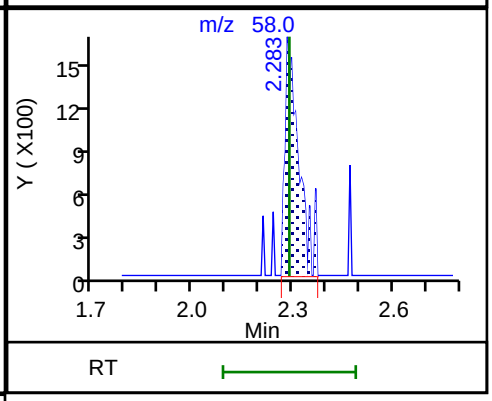
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

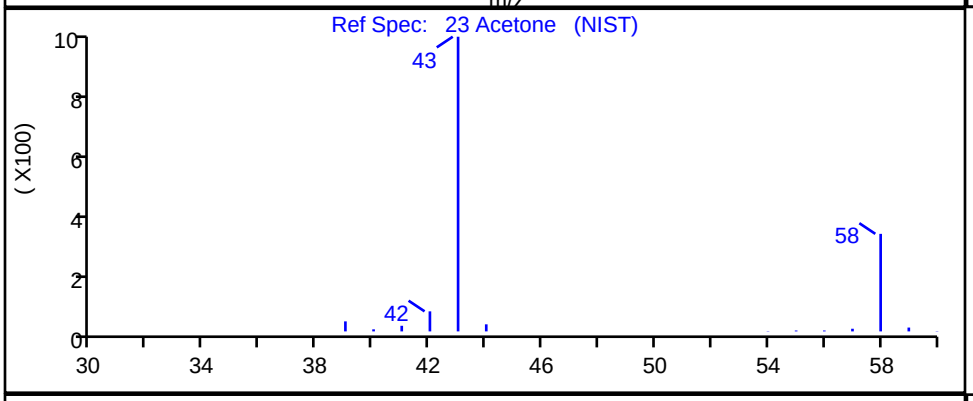
23 Acetone, CAS: 67-64-1

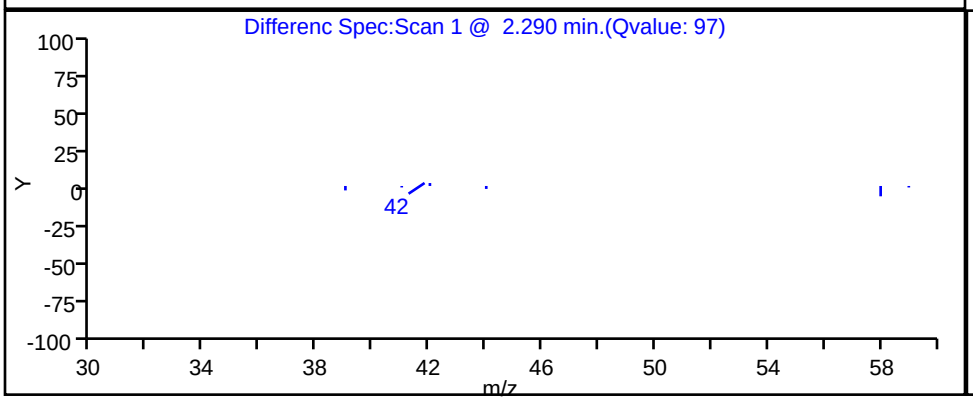


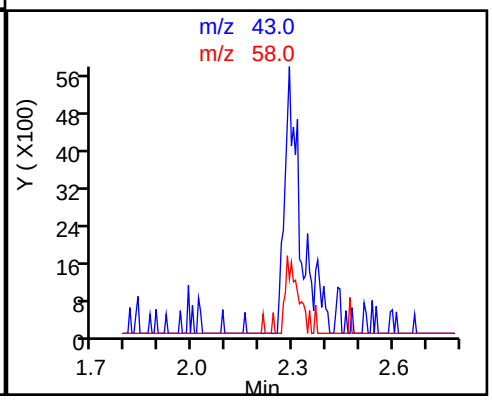












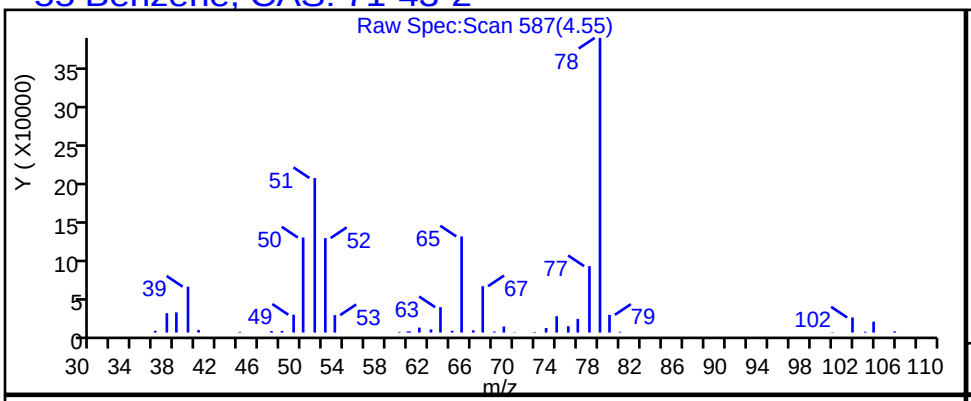
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

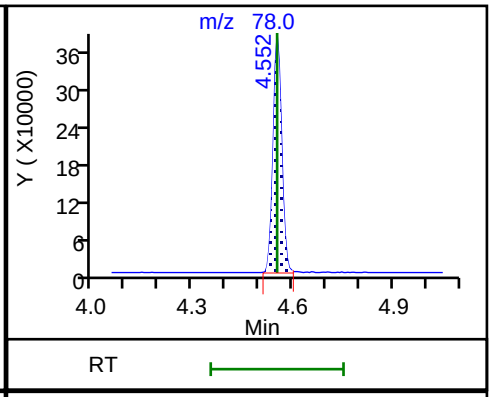
Eurofins Buffalo

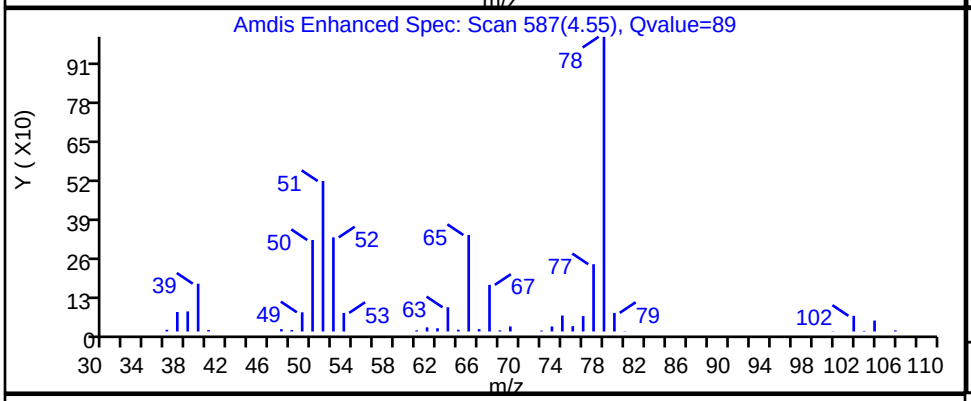
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

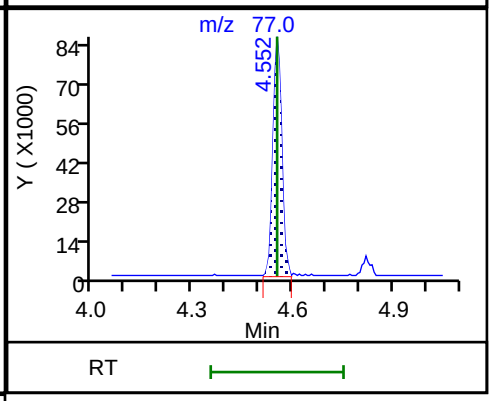
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	37 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

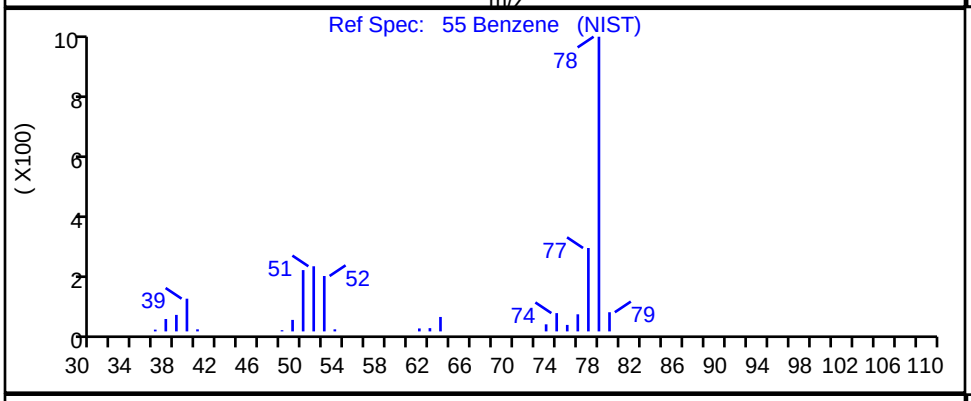
55 Benzene, CAS: 71-43-2

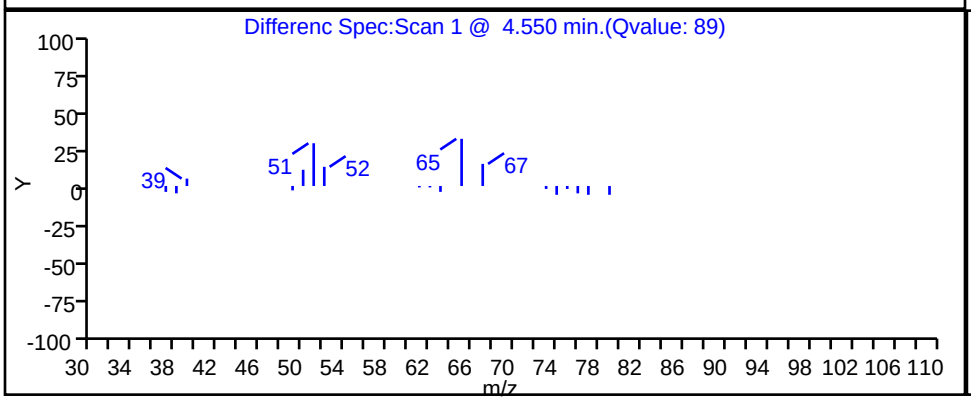


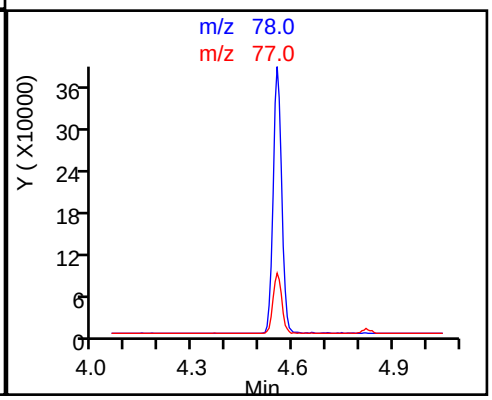










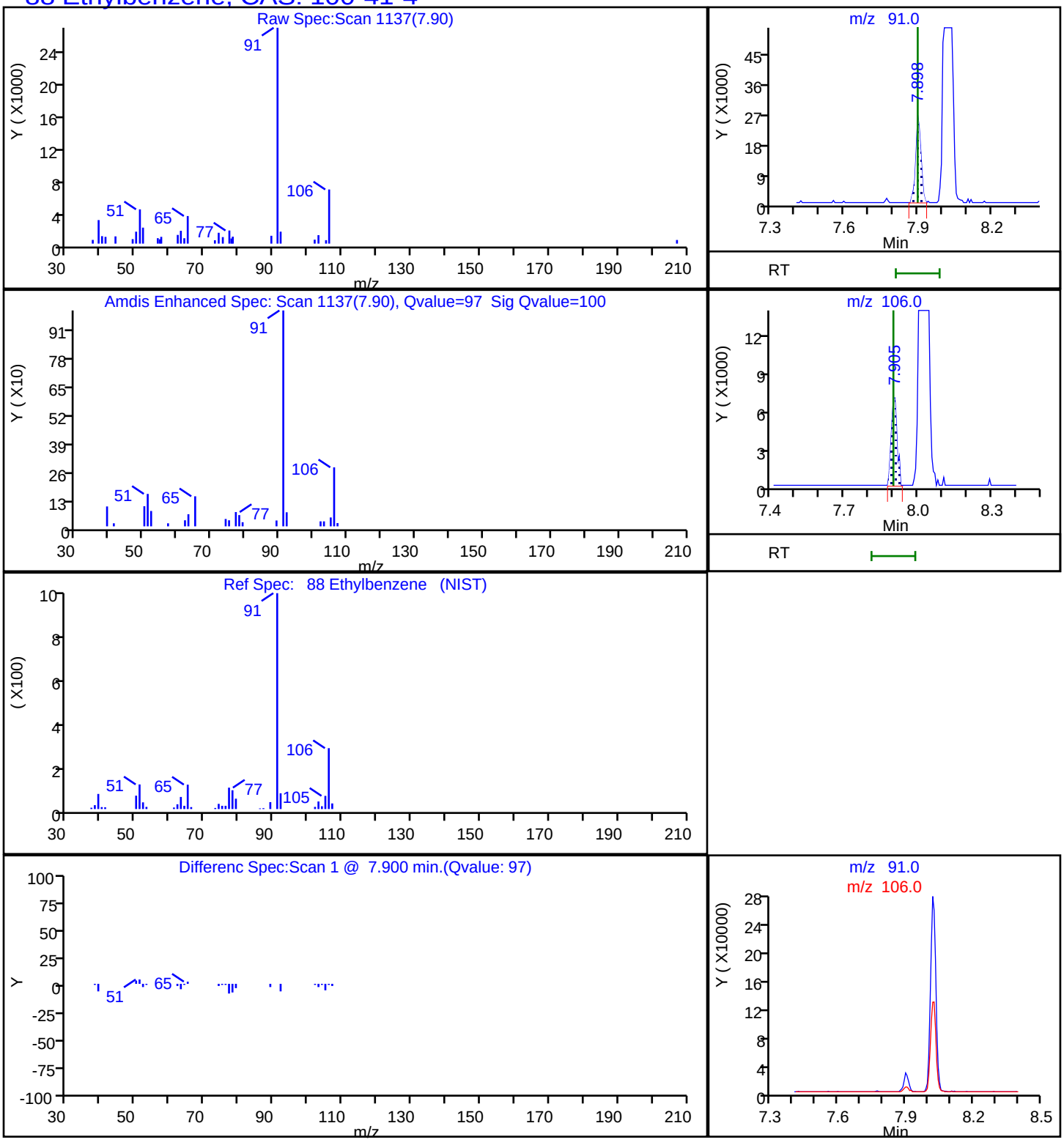


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	37 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

88 Ethylbenzene, CAS: 100-41-4



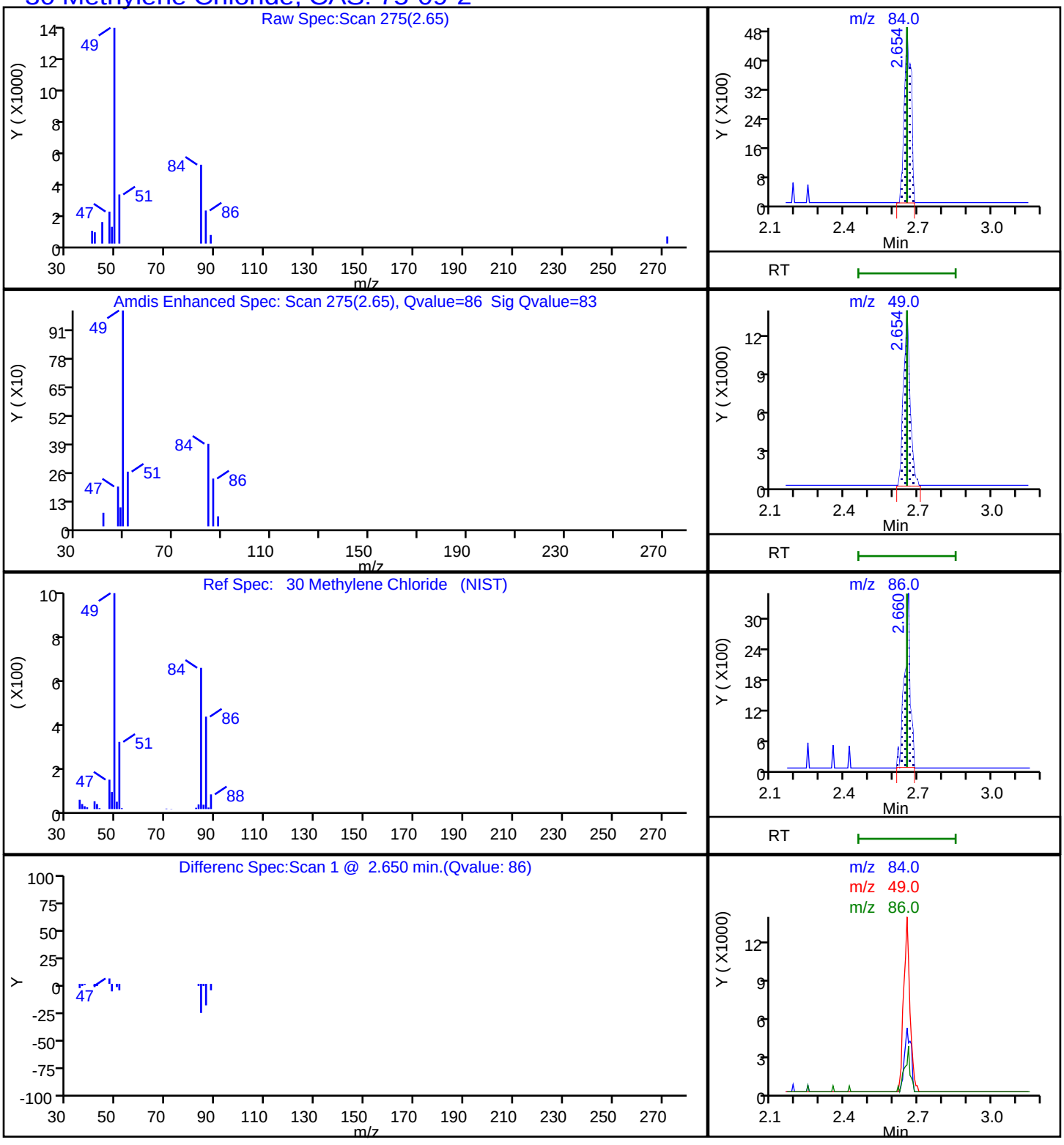
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	37 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



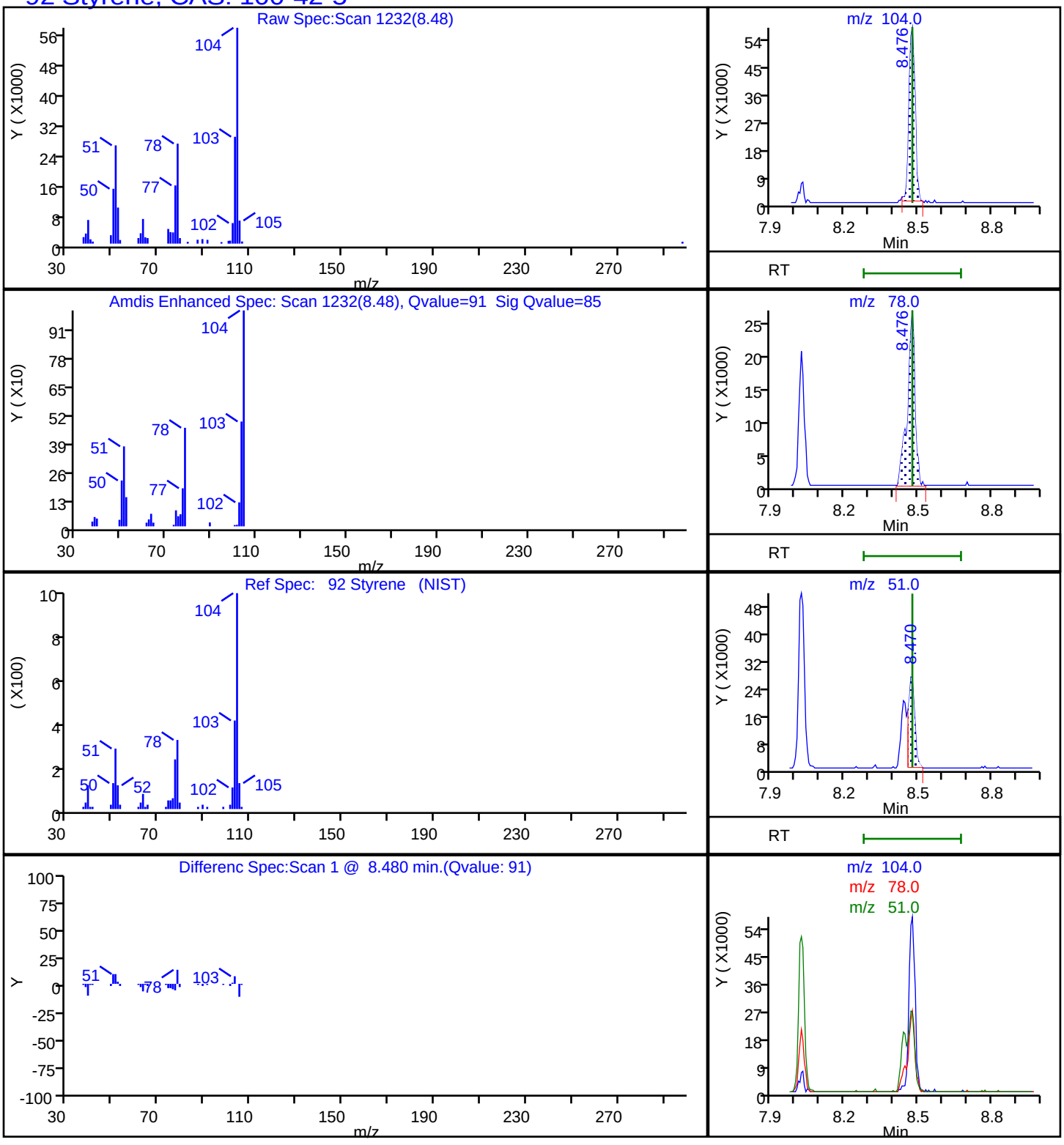
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	37 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

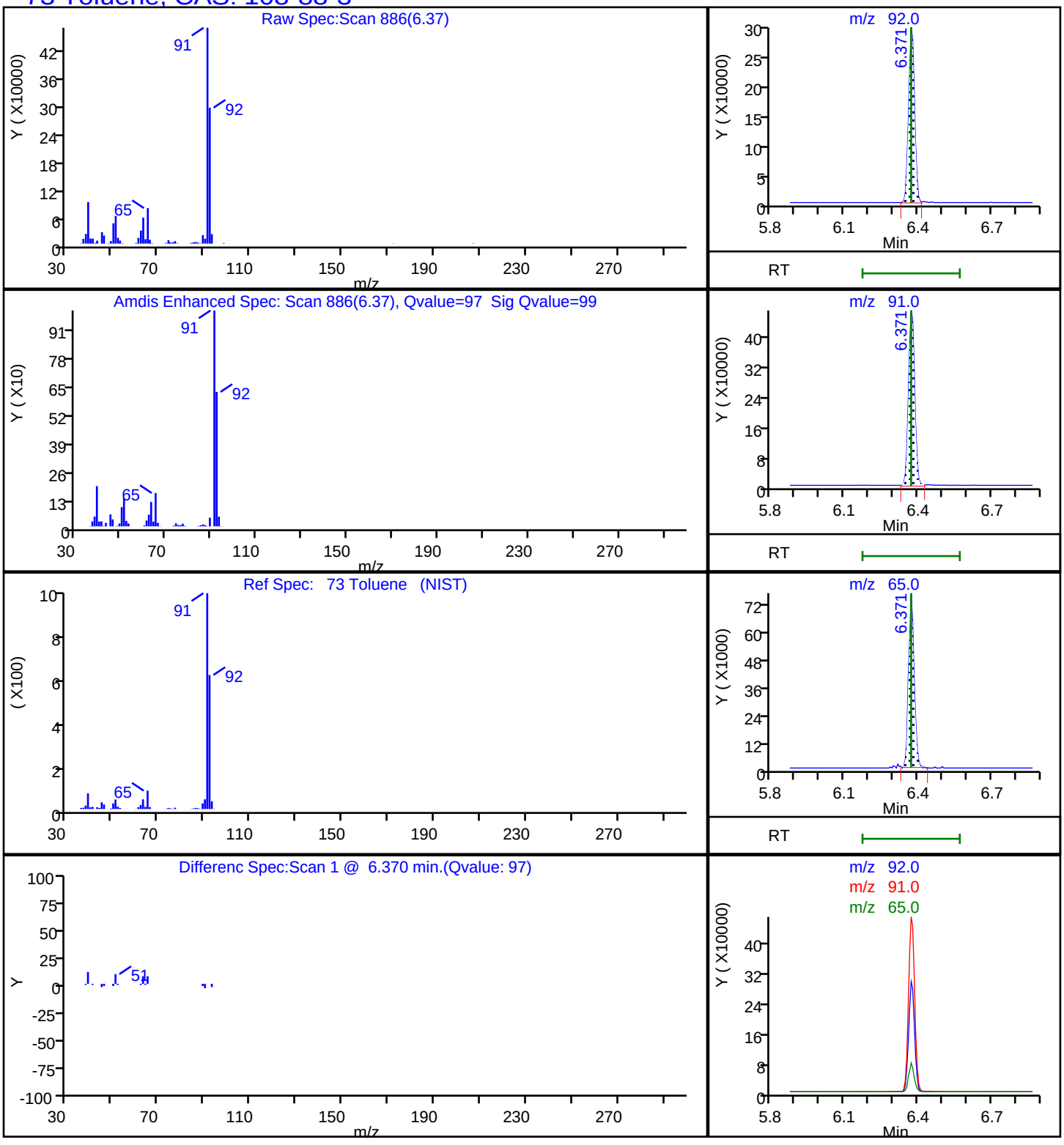
92 Styrene, CAS: 100-42-5



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d
Injection Date: 01-Nov-2024 00:29:30 Instrument ID: HP5973N
Lims ID: 480-224869-H-3 Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: AD ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

73 Toluene, CAS: 108-88-3



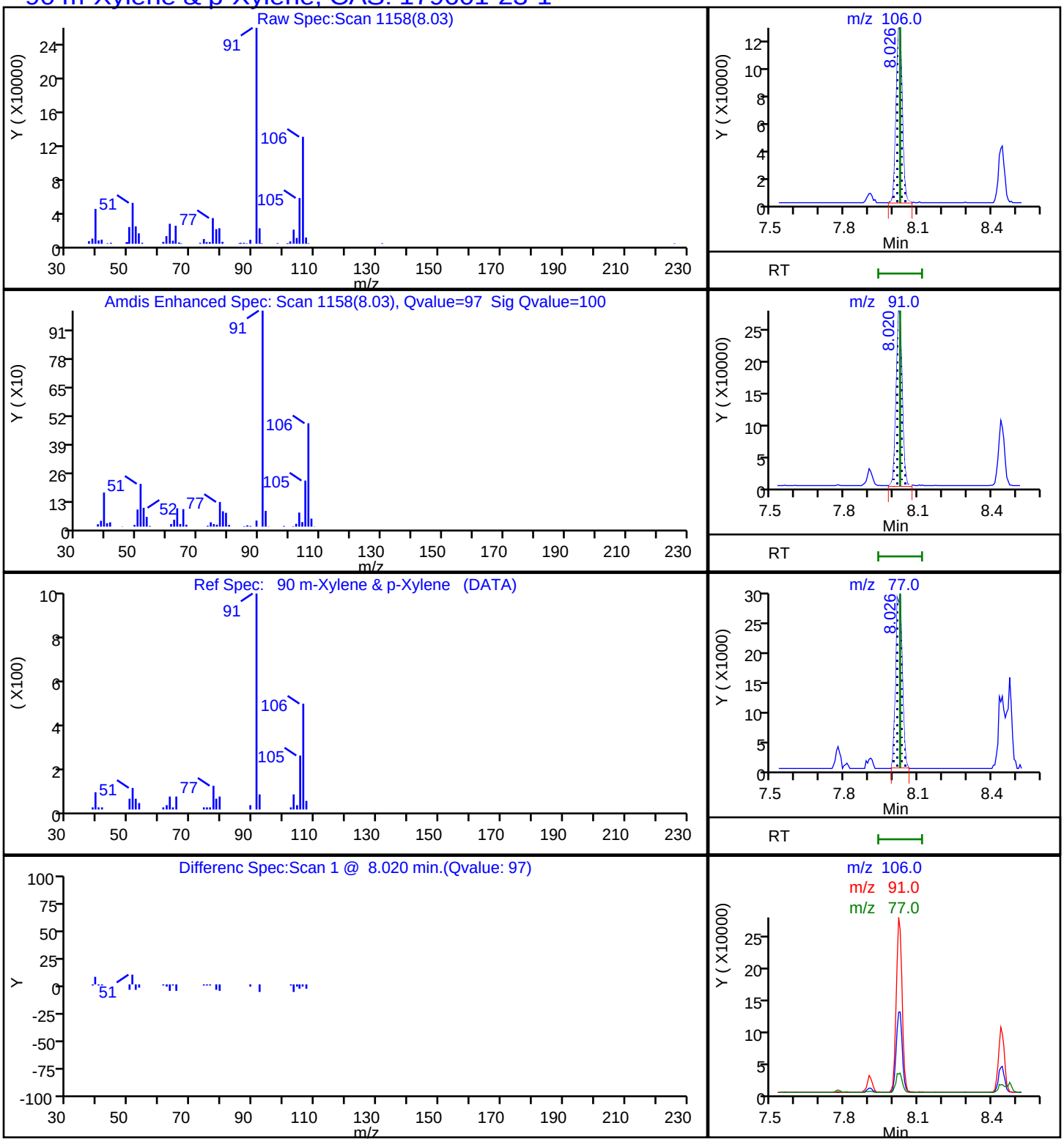
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

90 m-Xylene & p-Xylene, CAS: 179601-23-1



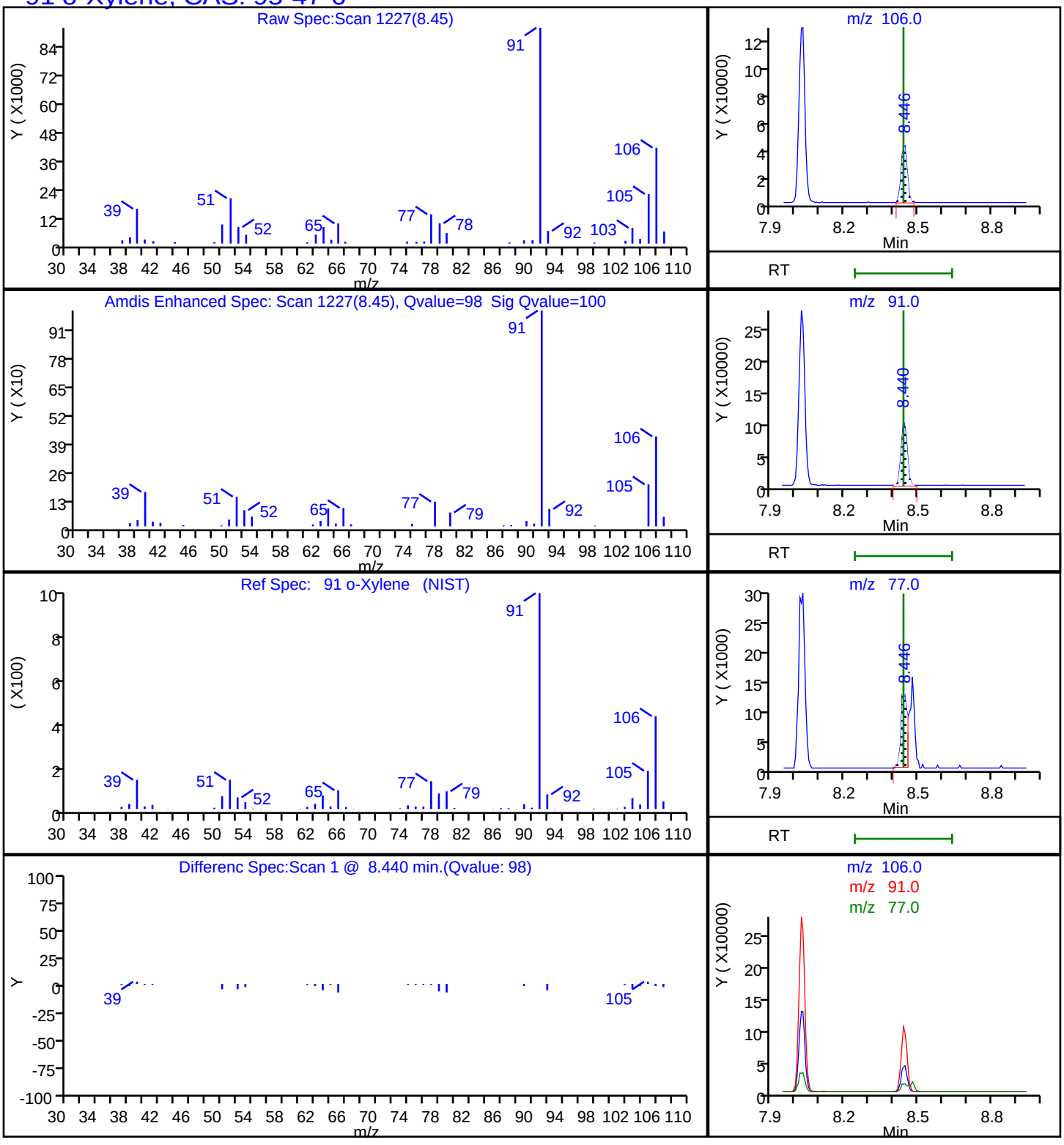
Report Date: 01-Nov-2024 10:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d

Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	AD	ALS Bottle#:	37 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

91 o-Xylene, CAS: 95-47-6



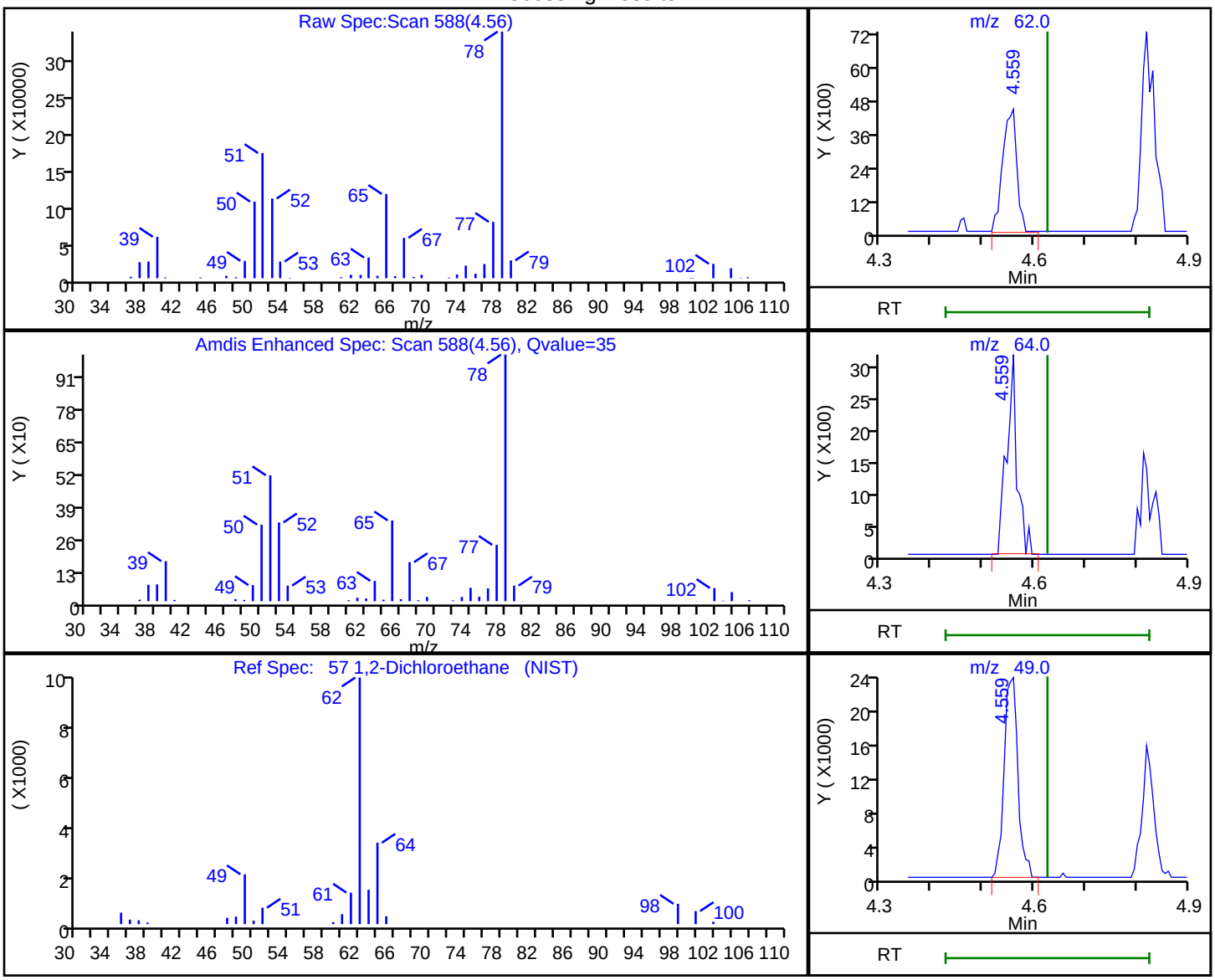
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d				
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.56	62.00	8421	0.729137
4.56	64.00	4514	
4.56	49.00	44569	

Reviewer: HF3K, 01-Nov-2024 10:08:32 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

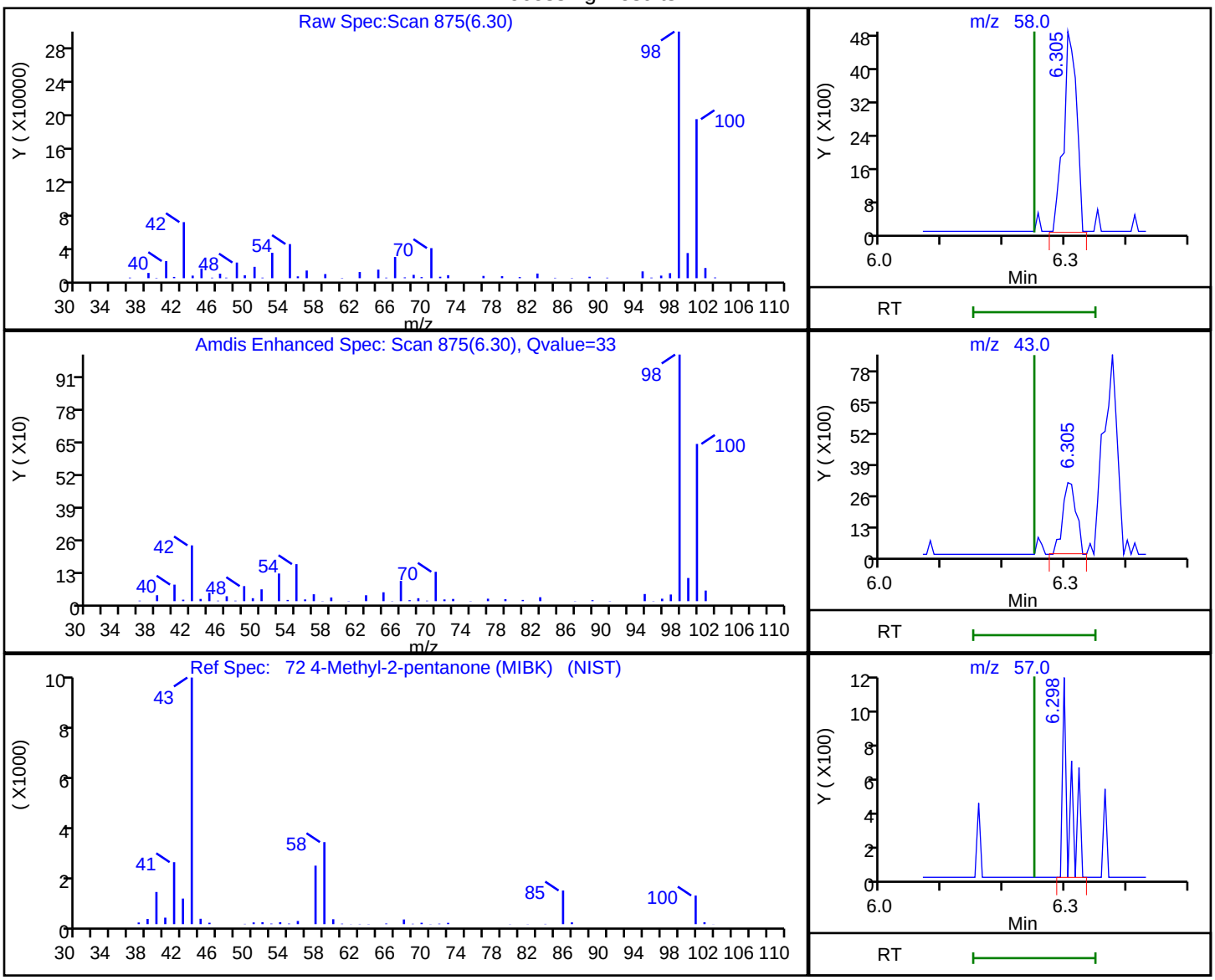
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d				
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.30	58.00	7128	1.369343
6.30	43.00	4678	
6.30	57.00	912	

Reviewer: HF3K, 01-Nov-2024 10:08:59 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

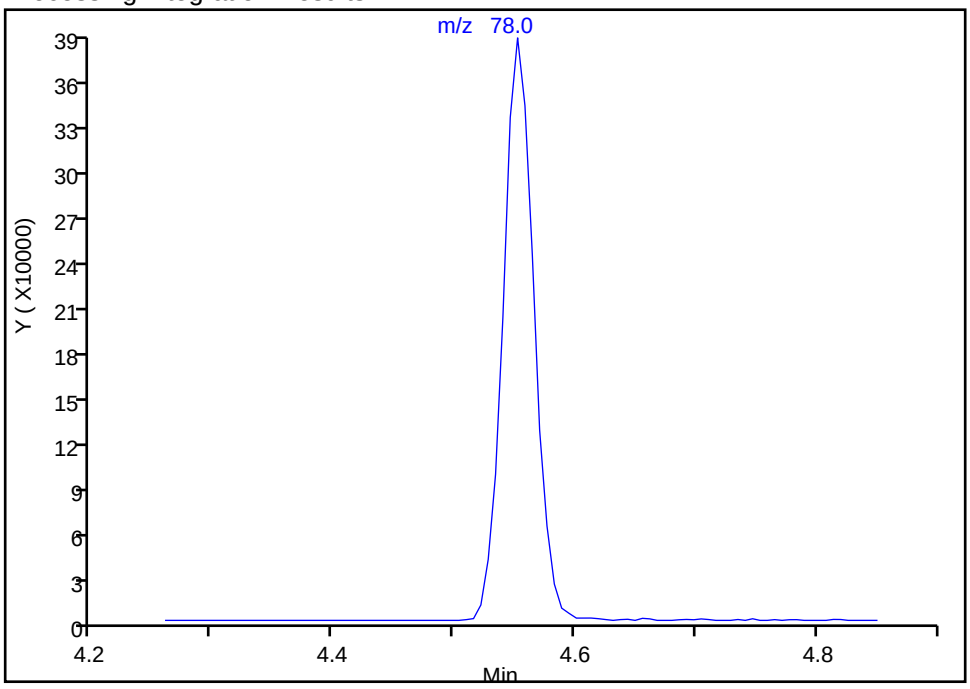
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d				
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2

Signal: 1

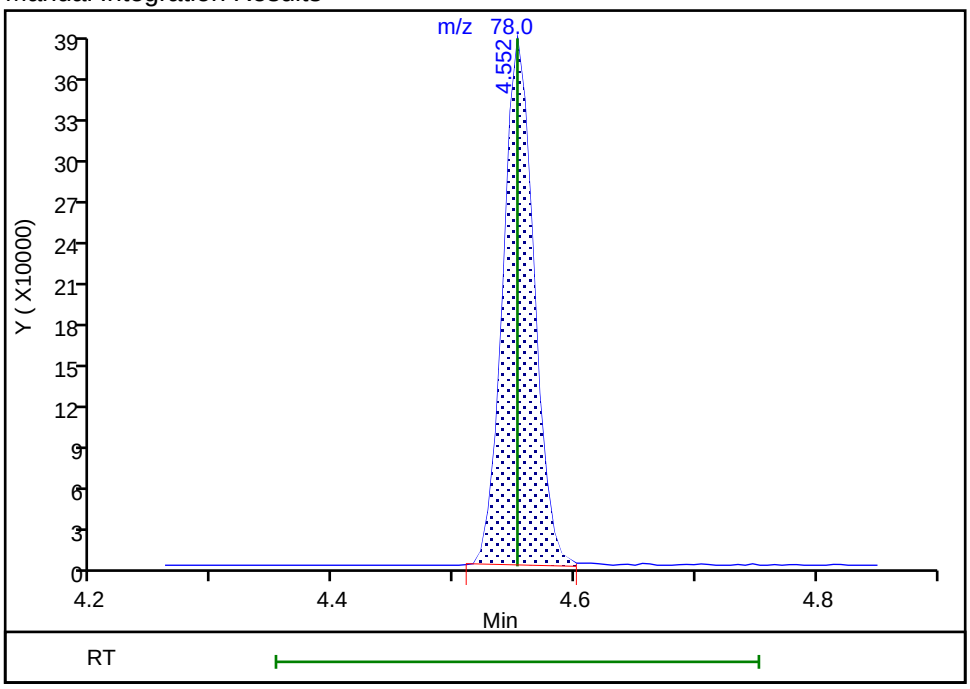
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 679189
Amount: 30.239248
Amount Units: ug/L



Reviewer: HF3K, 01-Nov-2024 10:08:24 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

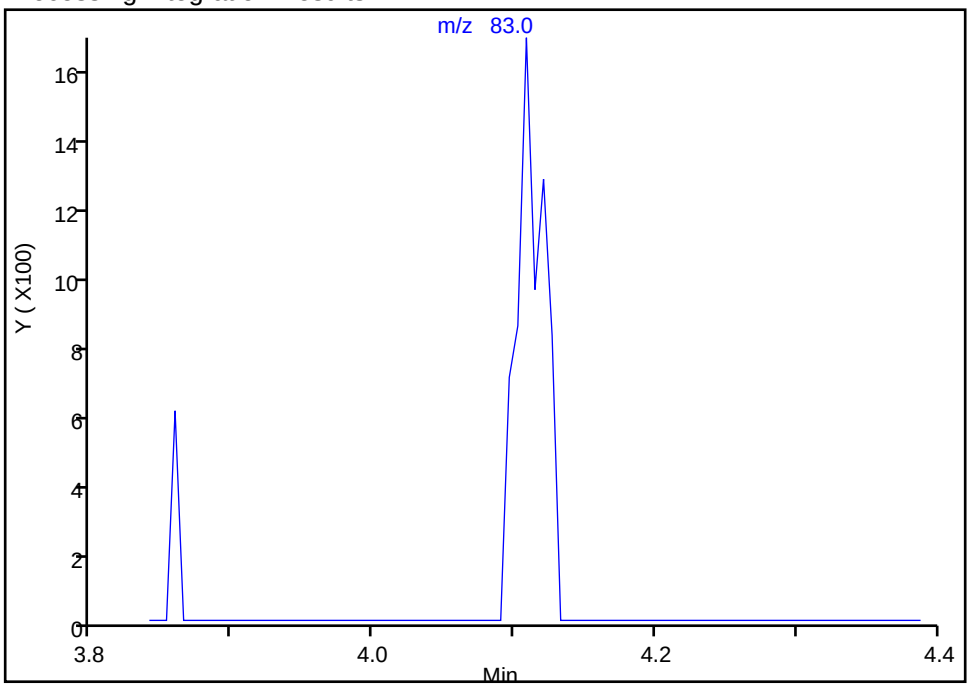
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1296.d				
Injection Date:	01-Nov-2024 00:29:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-H-3	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	AD	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3

Signal: 1

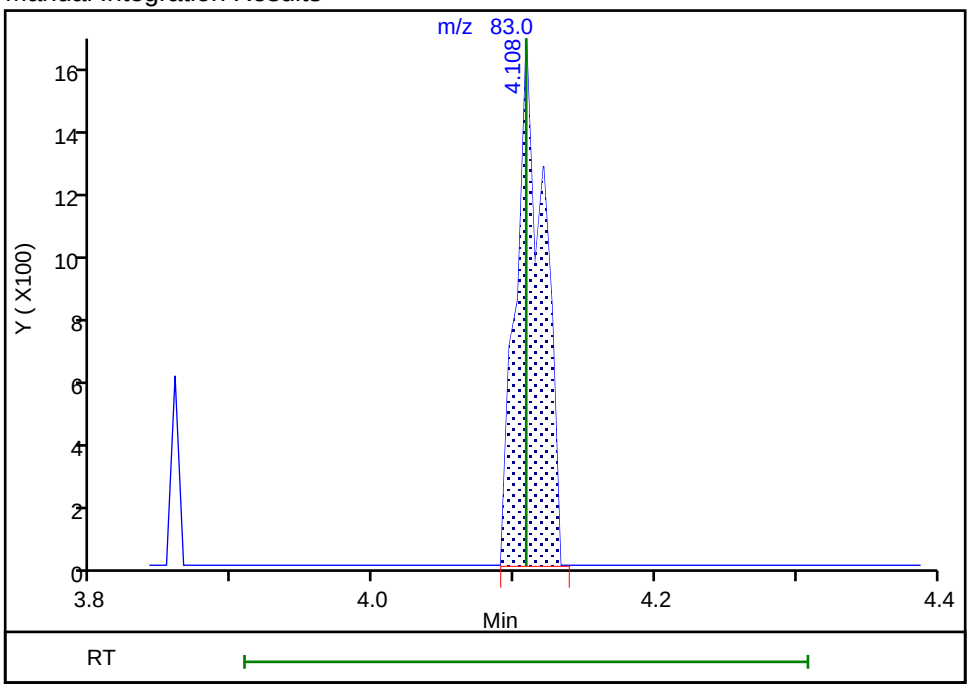
Not Detected
Expected RT: 4.11

Processing Integration Results



Manual Integration Results

RT: 4.11
Area: 2309
Amount: 0.214879
Amount Units: ug/L



Reviewer: HF3K, 01-Nov-2024 10:08:18 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-11A-10242024 | Lab Sample ID: 480-224869-5

Matrix: Water | Lab File ID: N1249.d

Analysis Method: 8260C | Date Collected: 10/24/2024 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 06:01

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-11A-10242024 | Lab Sample ID: 480-224869-5

Matrix: Water | Lab File ID: N1249.d

Analysis Method: 8260C | Date Collected: 10/24/2024 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 06:01

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	94		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d
Lims ID: 480-224869-G-5
Client ID: MW-BCP-11A-10242024
Sample Type: Client
Inject. Date: 31-Oct-2024 06:01:30 ALS Bottle#: 49 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-5
Misc. Info.: 480-0120932-016
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 12:07:39 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 12:07:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	142994	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	-0.001	93	472257	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	263300	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	153195	23.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	97	225611	23.3	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	96	543730	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	86	183236	26.9	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.277	2.277	-0.012	75	5916	1.14	a
25 Carbon disulfide	76		2.350				ND	U
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.660	2.660	0.006	86	3159	0.3849	a
32 Methyl tert-butyl ether	73		2.849				ND	7
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78		4.552				ND	
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	U
73 Toluene	92		6.371				ND	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91		7.898				ND	
90 m-Xylene & p-Xylene	106		8.020				ND	
91 o-Xylene	106		8.440				ND	
92 Styrene	104	8.470	8.470	-0.006	1	716	0.0454	a
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

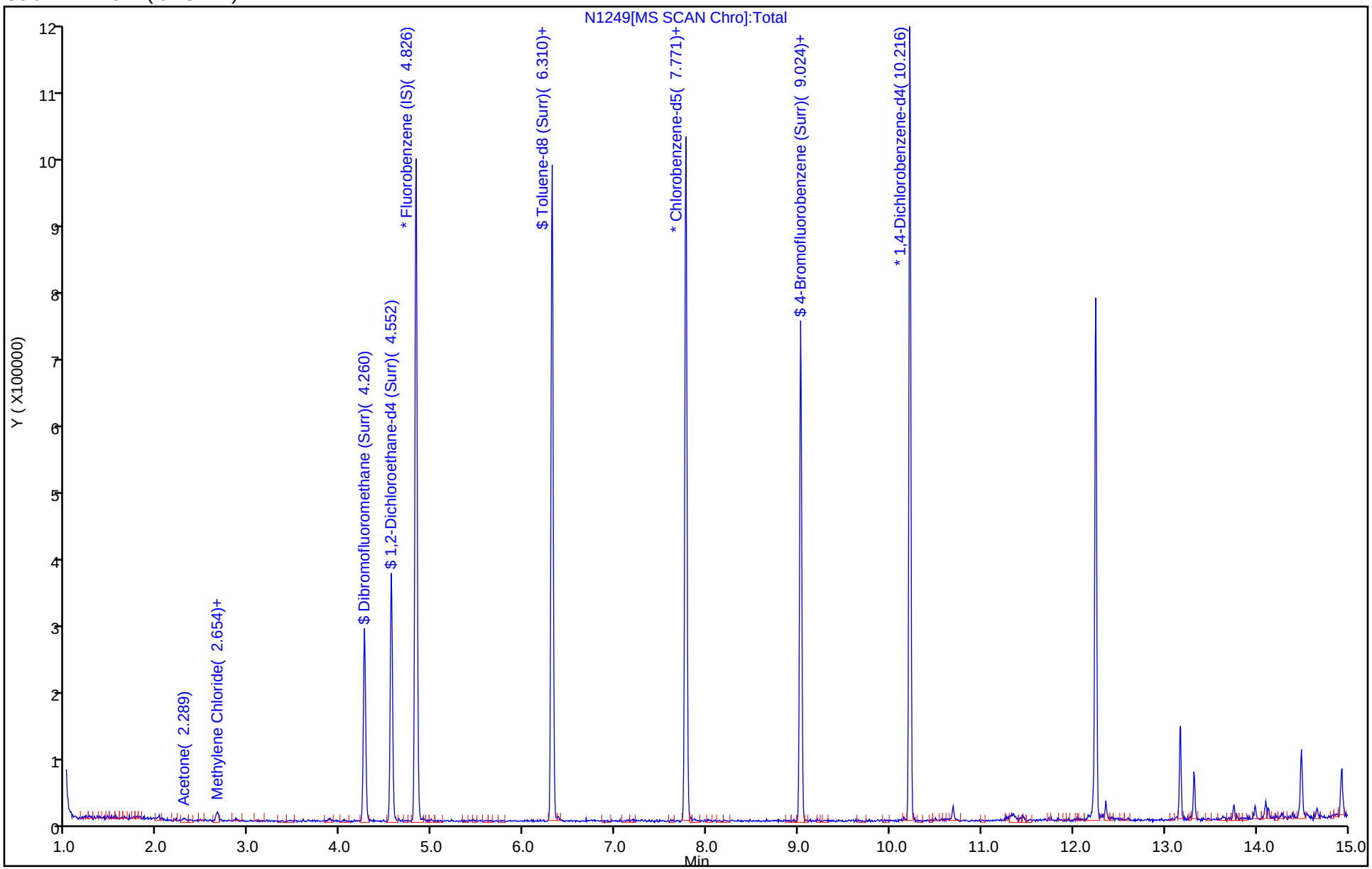
Report Date: 31-Oct-2024 12:07:39 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d

Injection Date:	31-Oct-2024 06:01:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-5	Lab Sample ID:	480-224869-5	Worklist Smp#:	16
Client ID:	MW-BCP-11A-10242024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d
Lims ID: 480-224869-G-5
Client ID: MW-BCP-11A-10242024
Sample Type: Client
Inject. Date: 31-Oct-2024 06:01:30 ALS Bottle#: 49 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-5
Misc. Info.: 480-0120932-016
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 12:07:39 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 12:07:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.6	94.31
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.3	93.36
$ 6 Toluene-d8 (Surr)	25.0	25.2	100.62
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.9	107.51

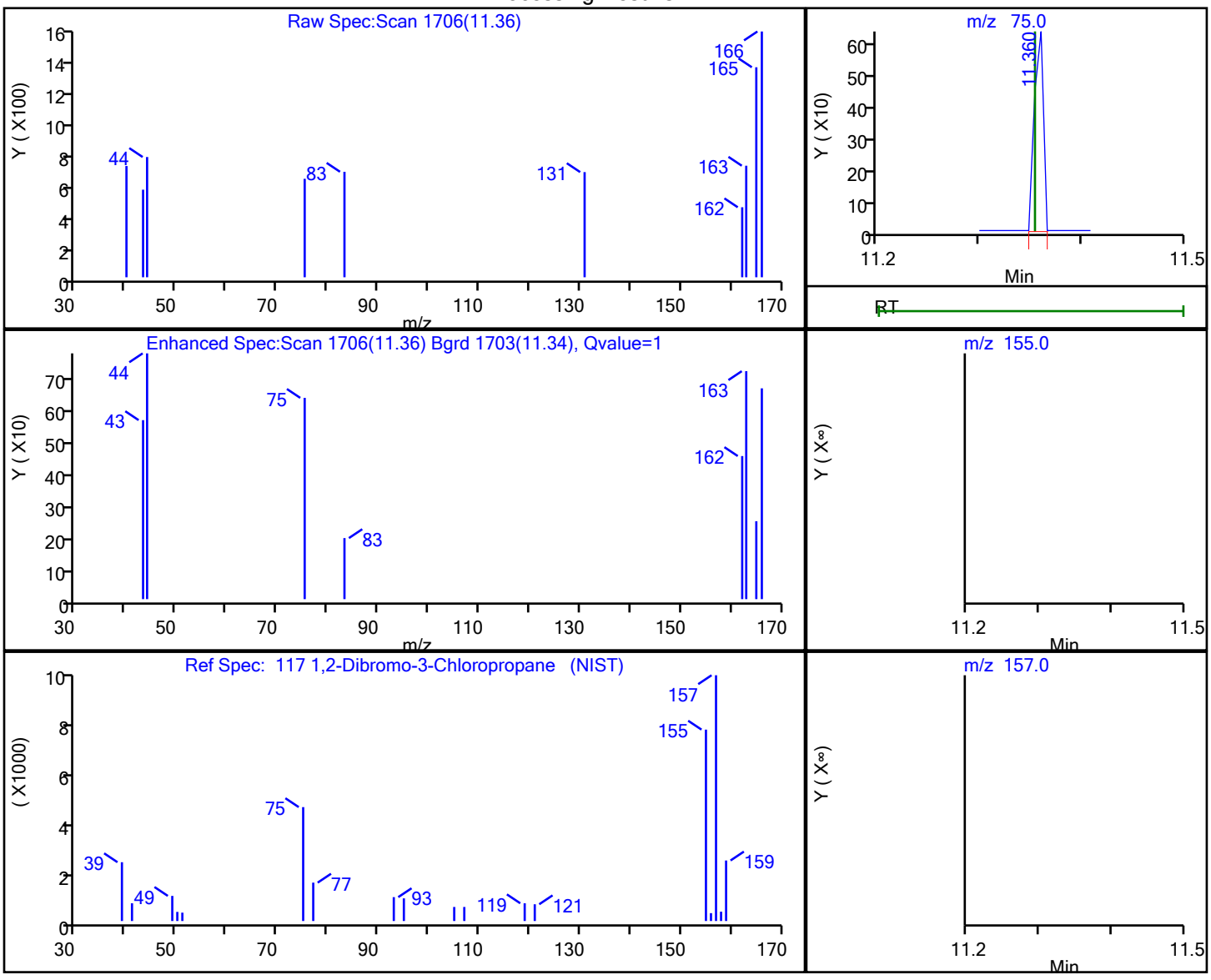
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d				
Injection Date:	31-Oct-2024 06:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-5	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	AD	ALS Bottle#:	49	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-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
11.36	75.00	393	0.213440
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 12:07:33 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

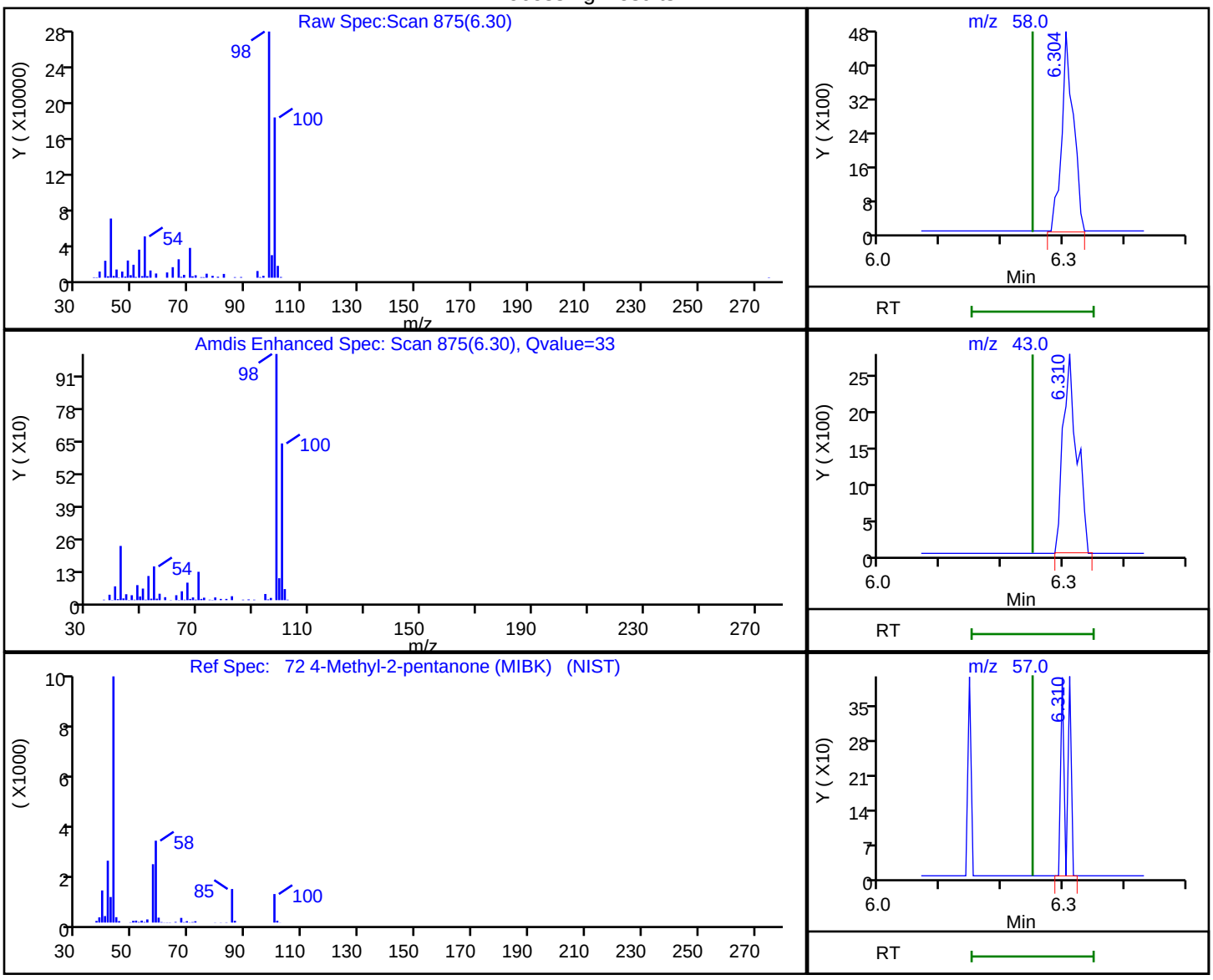
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d				
Injection Date:	31-Oct-2024 06:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-5	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	AD	ALS Bottle#:	49	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.30	58.00	6296	1.211643
6.31	43.00	4309	
6.31	57.00	293	

Reviewer: HF3K, 31-Oct-2024 12:07:08 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

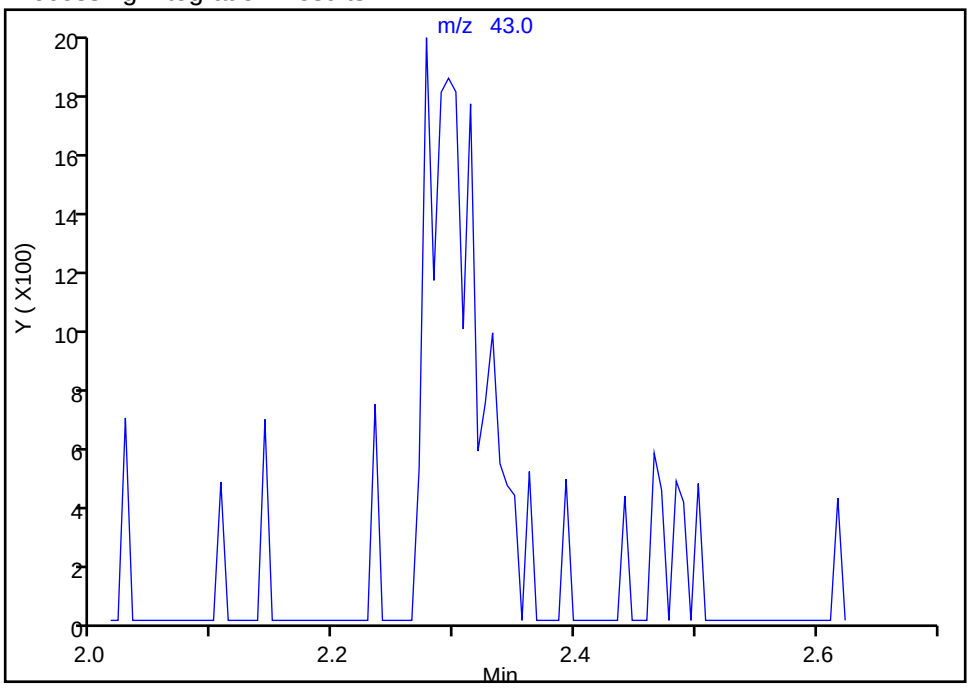
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d				
Injection Date:	31-Oct-2024 06:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-5	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	AD	ALS Bottle#:	49	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

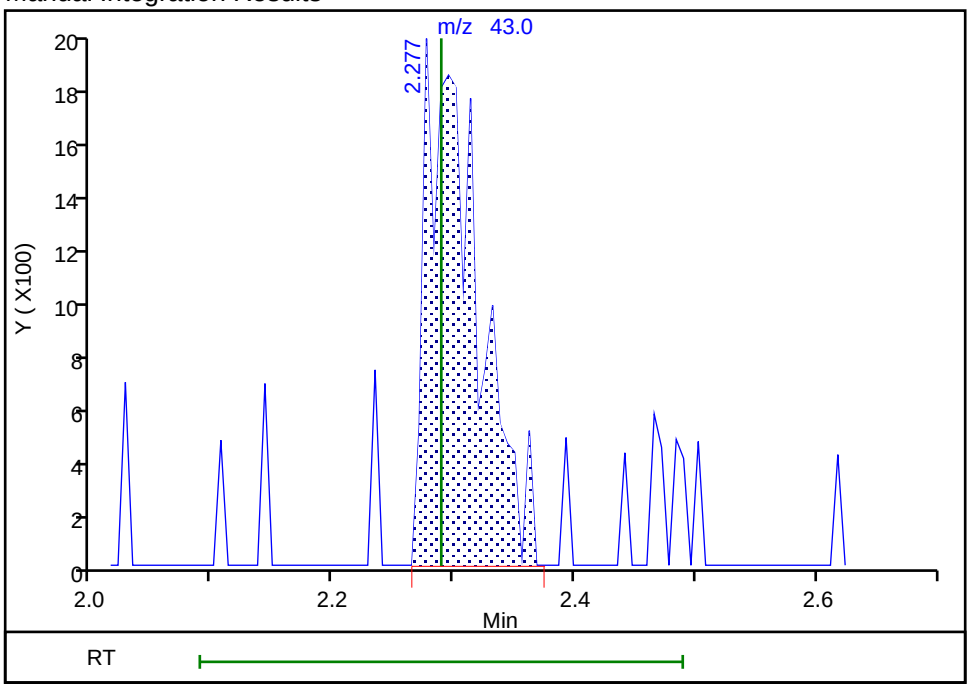
Not Detected
Expected RT: 2.29

Processing Integration Results



Manual Integration Results

RT: 2.28
Area: 5916
Amount: 1.140439
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:06:45 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

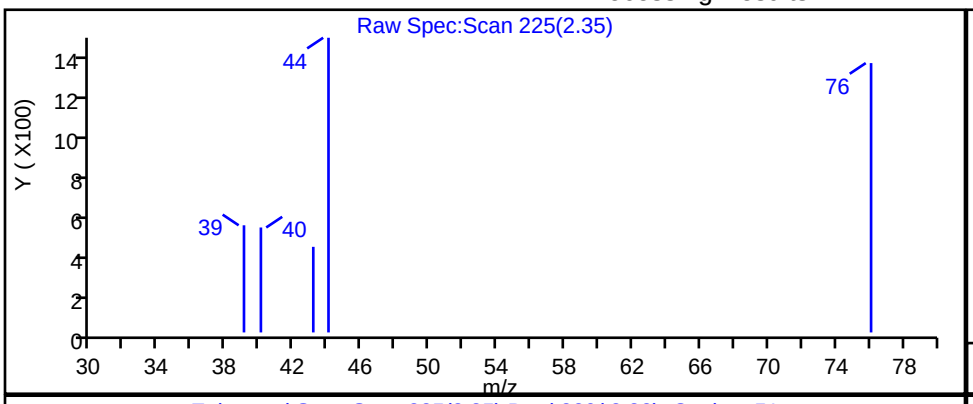
User Disabled Compound Report

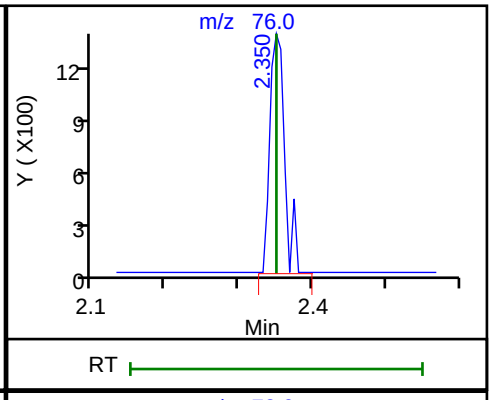
Eurofins Buffalo

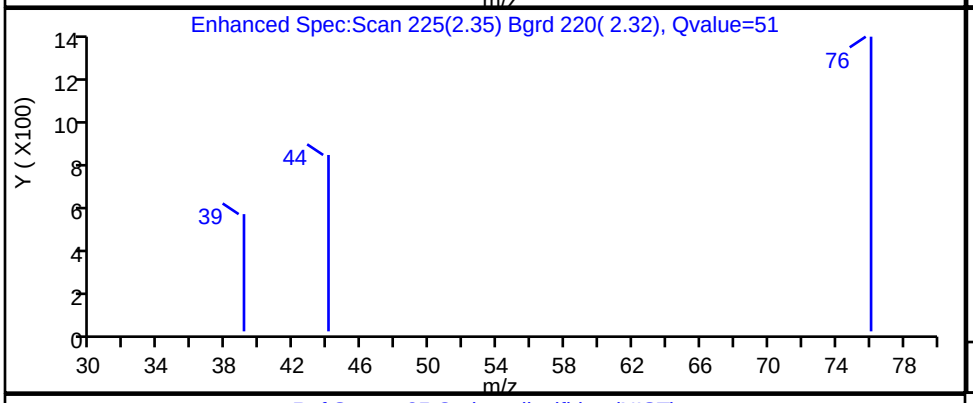
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d
Injection Date: 31-Oct-2024 06:01:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-5 Lab Sample ID: 480-224869-5
Client ID: MW-BCP-11A-10242024
Operator ID: AD ALS Bottle#: 49 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

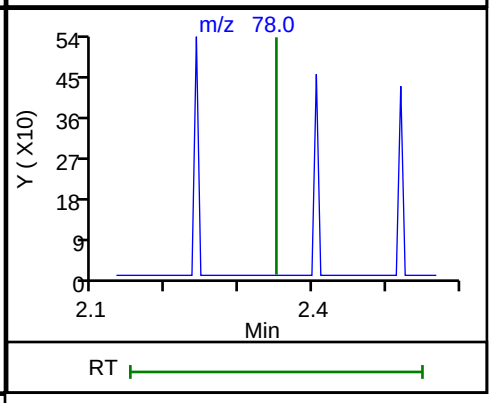
25 Carbon disulfide, CAS: 75-15-0

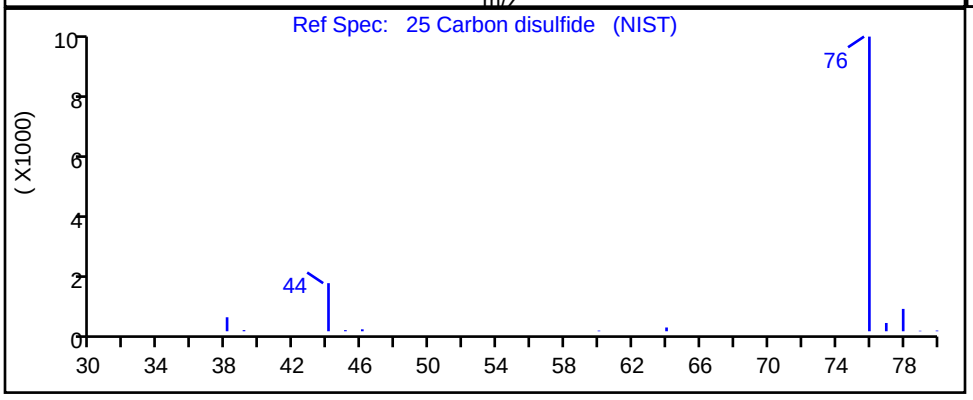
Processing Results











RT	Mass	Response	Amount
2.35	76.00	1883	0.106632
2.35	78.00	0	

Reviewer: HF3K, 31-Oct-2024 12:06:48 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

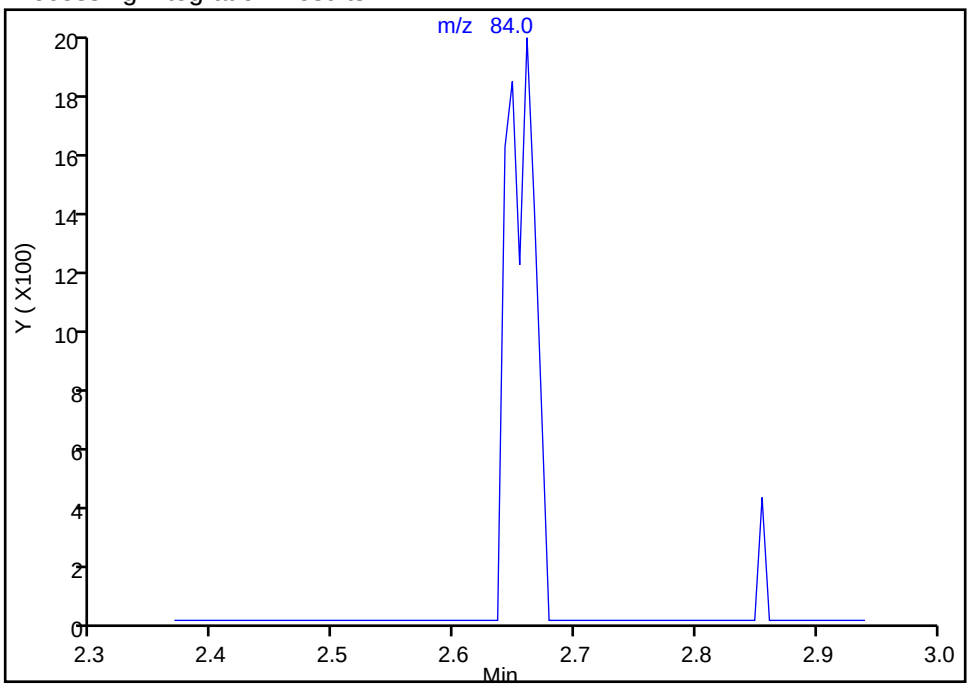
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d				
Injection Date:	31-Oct-2024 06:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-5	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	AD	ALS Bottle#:	49	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

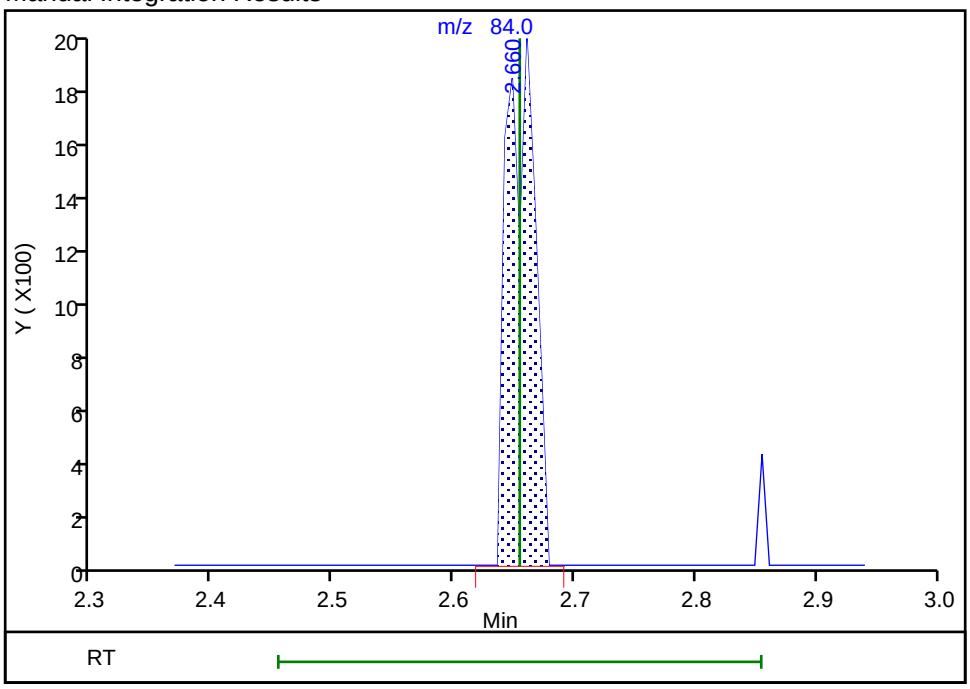
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.66
Area: 3159
Amount: 0.384885
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:06:54 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

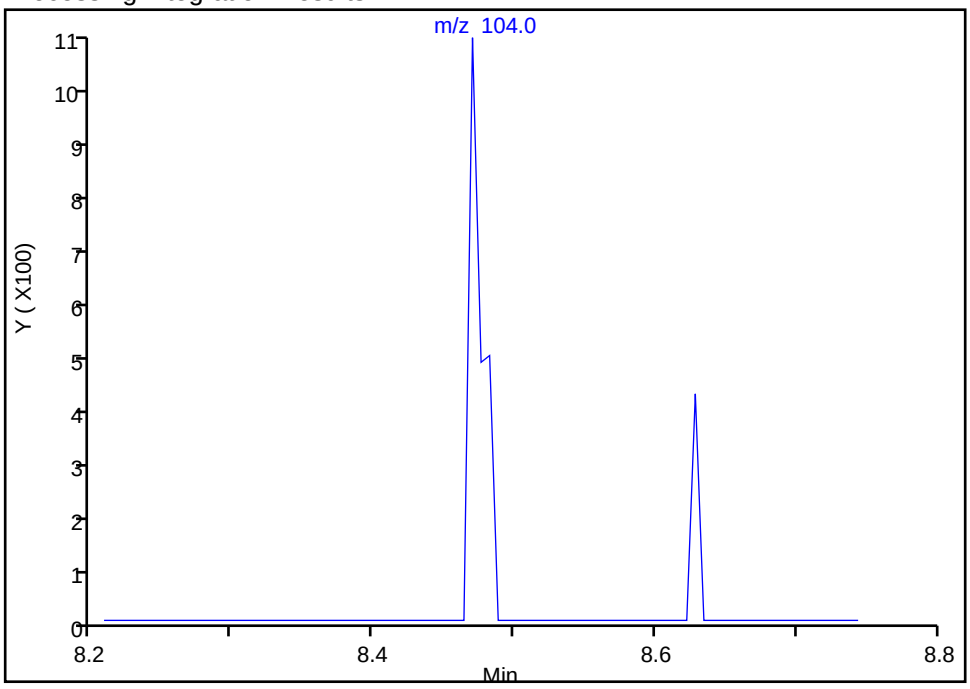
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1249.d				
Injection Date:	31-Oct-2024 06:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-5	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	AD	ALS Bottle#:	49	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

92 Styrene, CAS: 100-42-5

Signal: 1

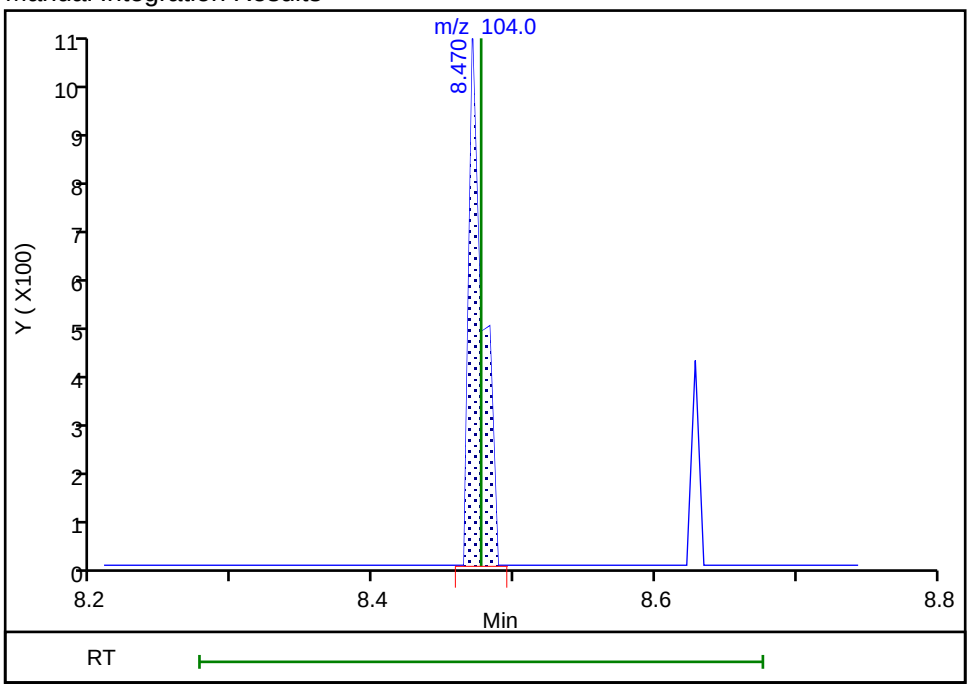
Not Detected
Expected RT: 8.48

Processing Integration Results



Manual Integration Results

RT: 8.47
Area: 716
Amount: 0.045406
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:07:26 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-12A-10242024 | Lab Sample ID: 480-224869-7

Matrix: Water | Lab File ID: N1250.d

Analysis Method: 8260C | Date Collected: 10/24/2024 03:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 06:23

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-12A-10242024 | Lab Sample ID: 480-224869-7

Matrix: Water | Lab File ID: N1250.d

Analysis Method: 8260C | Date Collected: 10/24/2024 03:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 06:23

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.49	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

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

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d
Lims ID: 480-224869-G-7
Client ID: MW-BCP-12A-10242024
Sample Type: Client
Inject. Date: 31-Oct-2024 06:23:30 ALS Bottle#: 50 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-7
Misc. Info.: 480-0120932-017
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:51:36 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:51:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	98	141237	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	460971	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	258864	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	93	150504	23.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	223364	23.4	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	96	523943	24.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	179750	27.0	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.283	2.283	-0.006	82	10212	1.99	a
25 Carbon disulfide	76		2.350				ND	U
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.660	2.660	0.006	86	3757	0.4941	a
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	7
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	1	462	0.0724	7a
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78		4.552				ND	
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	
73 Toluene	92		6.371				ND	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91		7.898				ND	
90 m-Xylene & p-Xylene	106		8.020				ND	
91 o-Xylene	106		8.440				ND	
92 Styrene	104		8.476				ND	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	7
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

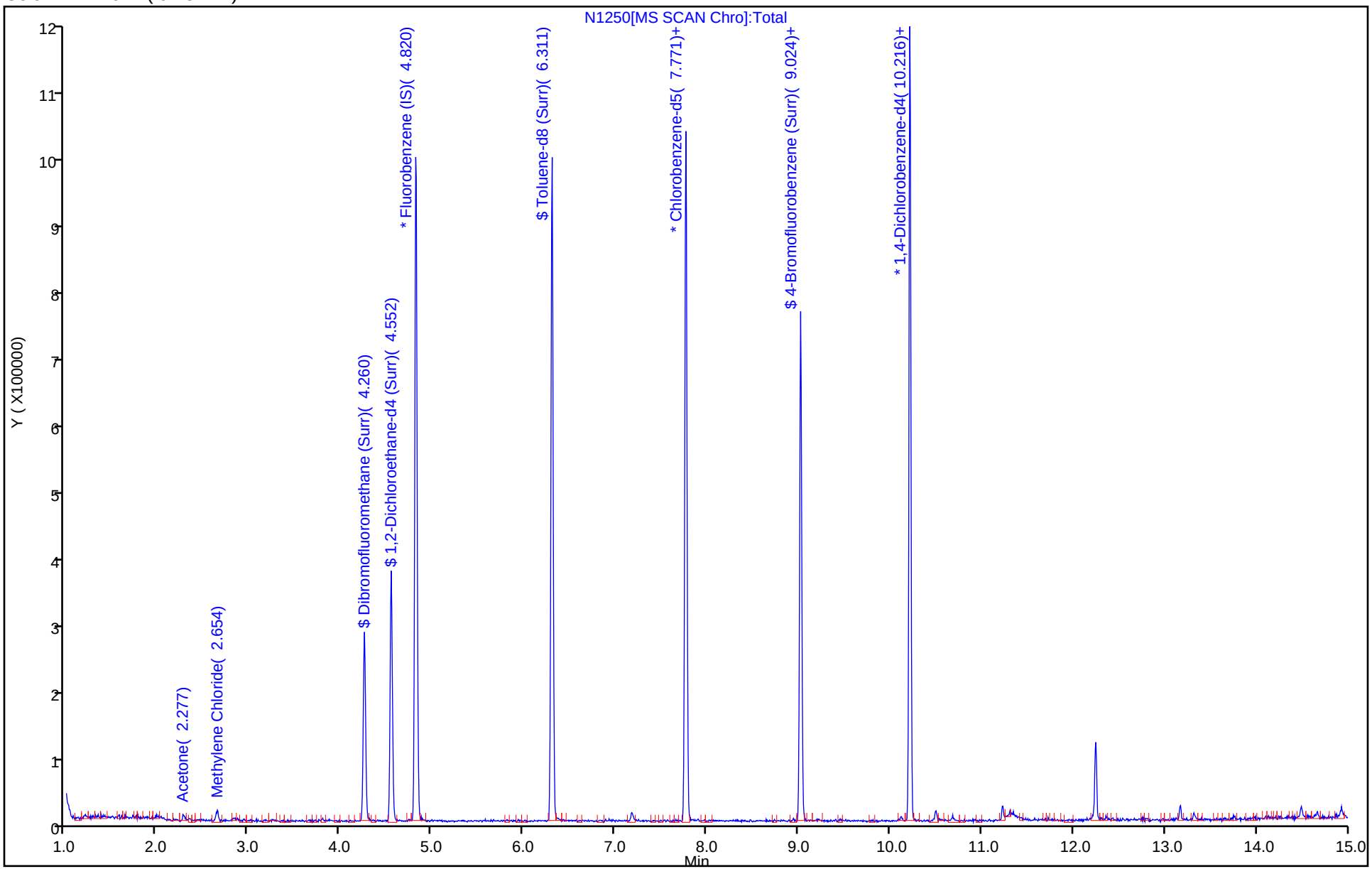
Report Date: 31-Oct-2024 15:51:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d

Injection Date:	31-Oct-2024 06:23:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-7	Lab Sample ID:	480-224869-7	Worklist Smp#:	17
Client ID:	MW-BCP-12A-10242024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	50
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



11/04/2024

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d
Lims ID: 480-224869-G-7
Client ID: MW-BCP-12A-10242024
Sample Type: Client
Inject. Date: 31-Oct-2024 06:23:30 ALS Bottle#: 50 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-7
Misc. Info.: 480-0120932-017
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:51:36 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:51:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.5	93.81
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.4	93.58
$ 6 Toluene-d8 (Surr)	25.0	24.8	99.33
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.0	108.05

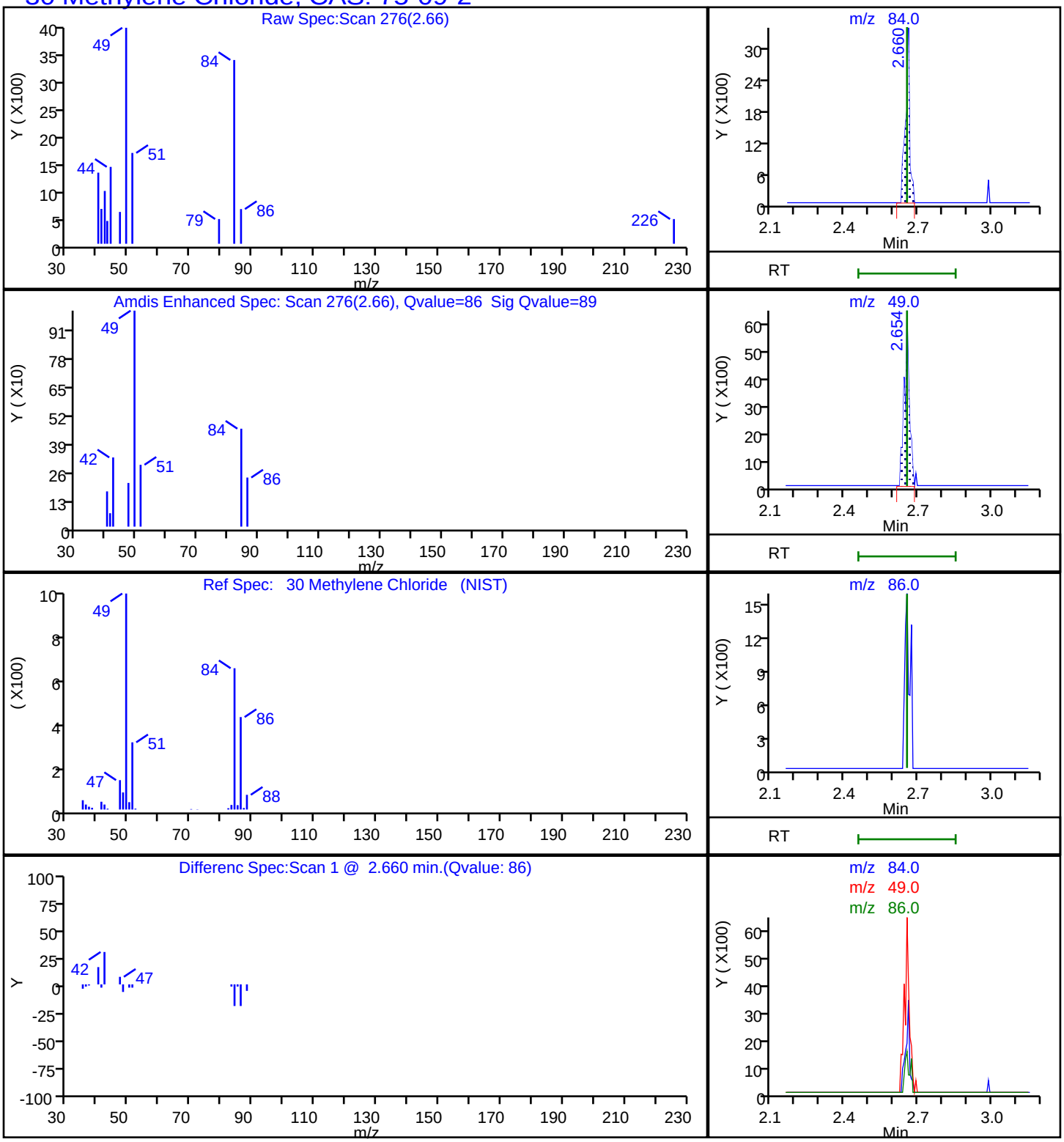
Report Date: 31-Oct-2024 15:51:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d

Injection Date:	31-Oct-2024 06:23:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-7	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	AD	ALS Bottle#:	50	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



Manual Integration/User Assign Peak Report

Eurofins Buffalo

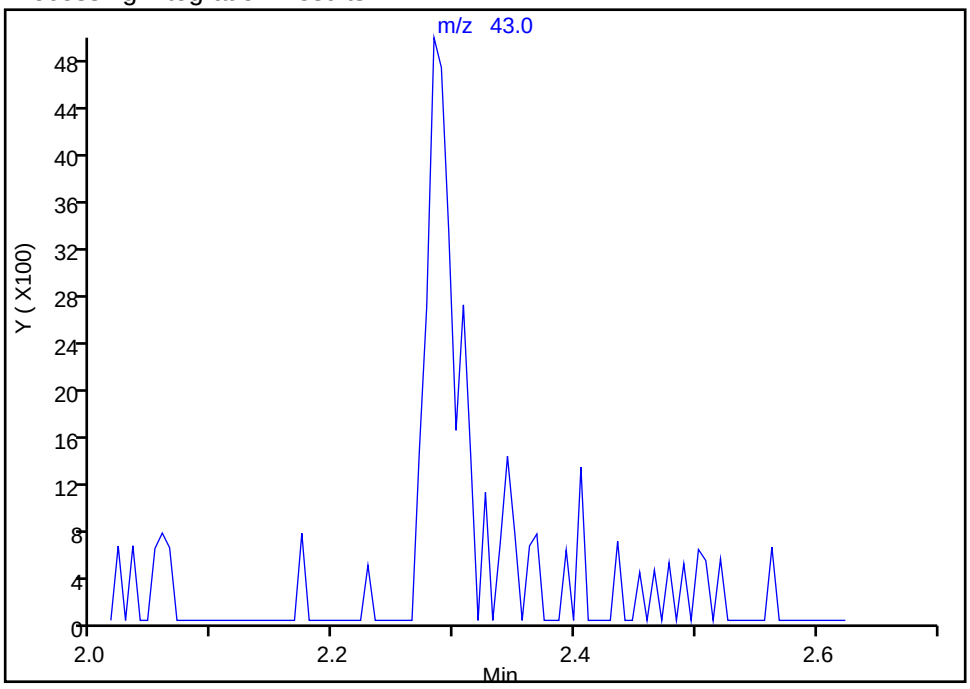
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d				
Injection Date:	31-Oct-2024 06:23:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-7	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	AD	ALS Bottle#:	50	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

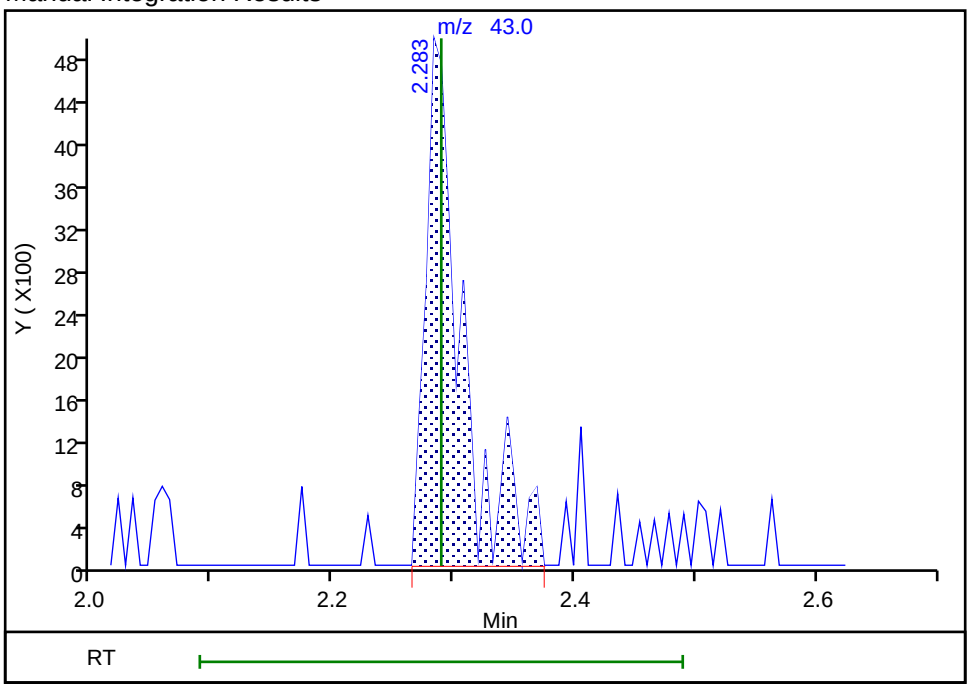
Not Detected
Expected RT: 2.29

Processing Integration Results



Manual Integration Results

RT: 2.28
Area: 10212
Amount: 1.993077
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 12:07:54 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

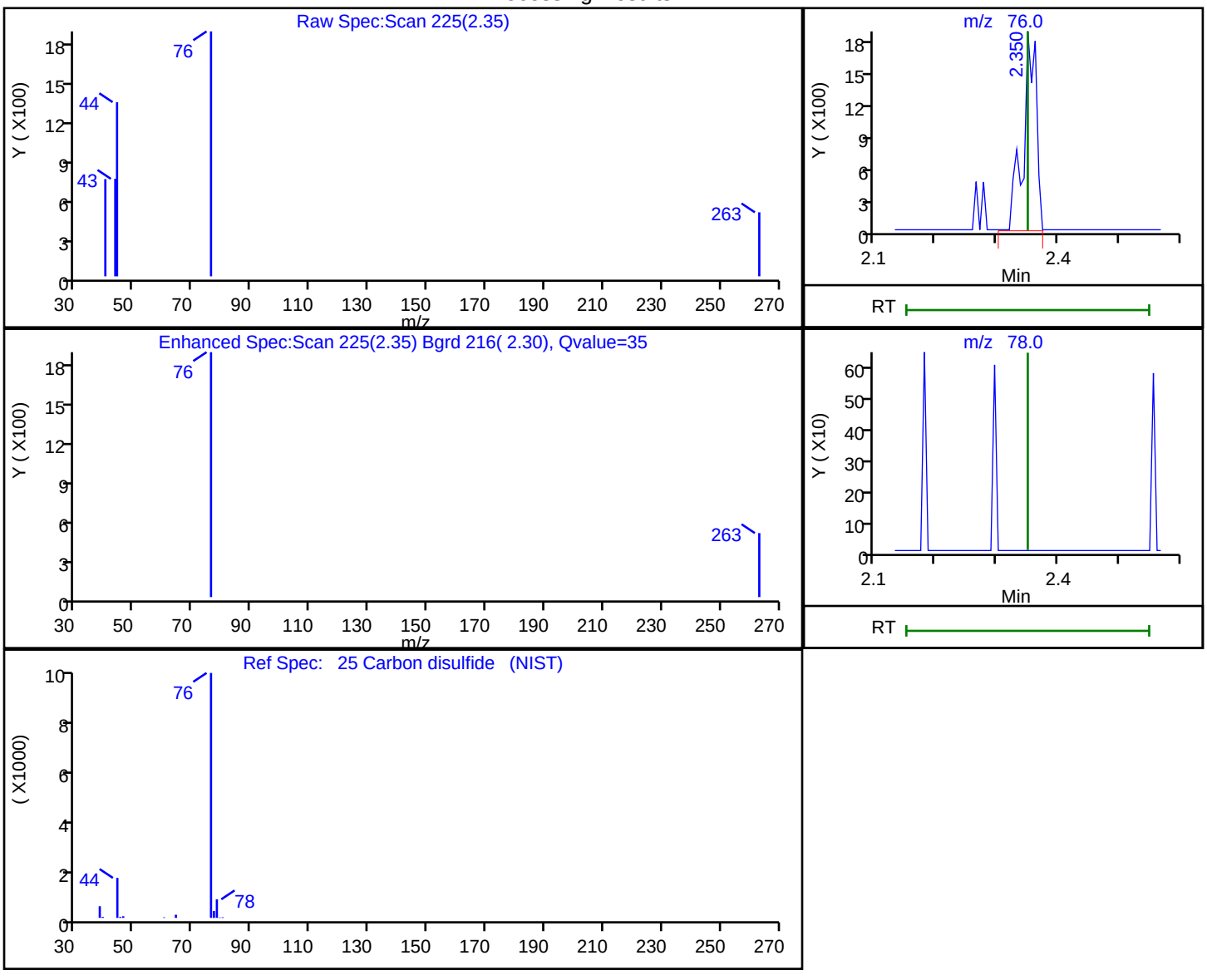
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d				
Injection Date:	31-Oct-2024 06:23:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-7	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	AD	ALS Bottle#:	50	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

25 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.35	76.00	2780	0.159386
2.35	78.00	0	

Reviewer: HF3K, 31-Oct-2024 12:07:57 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

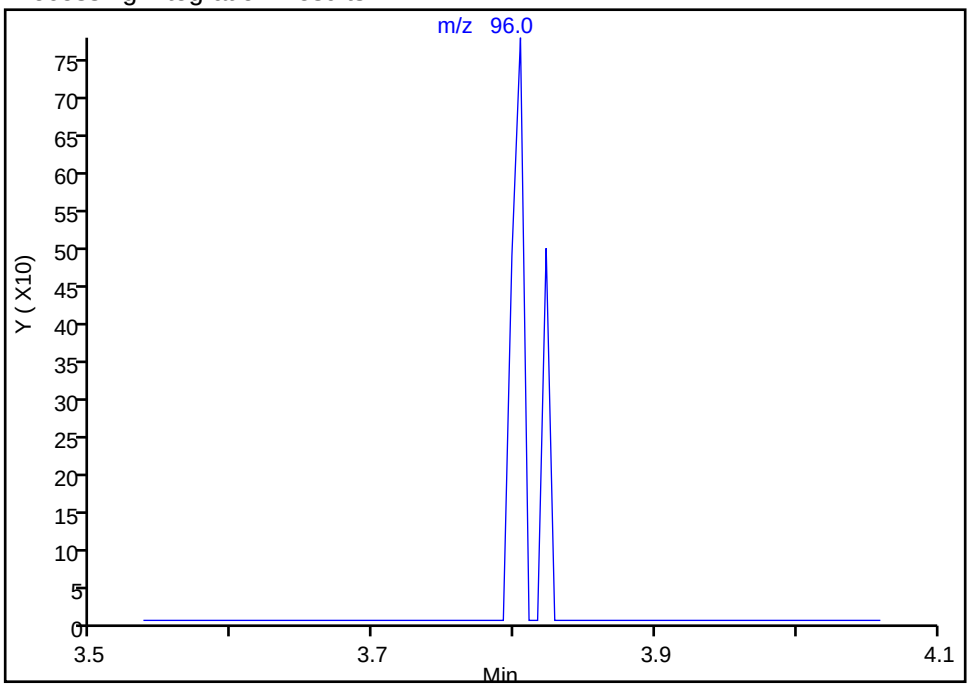
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d				
Injection Date:	31-Oct-2024 06:23:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-7	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	AD	ALS Bottle#:	50	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

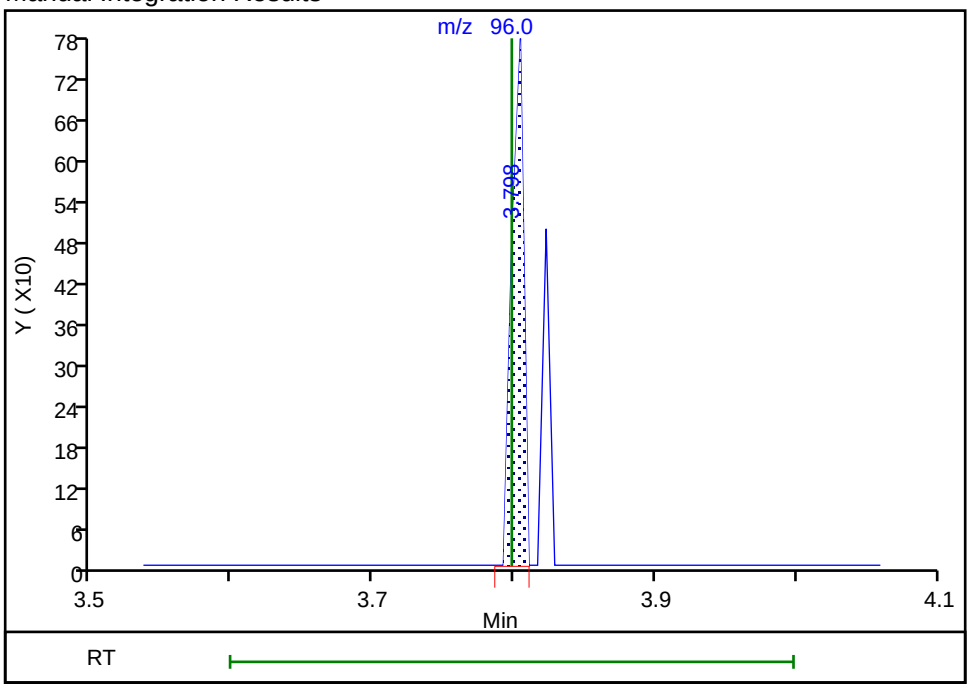
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 462
Amount: 0.072352
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:49:39 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

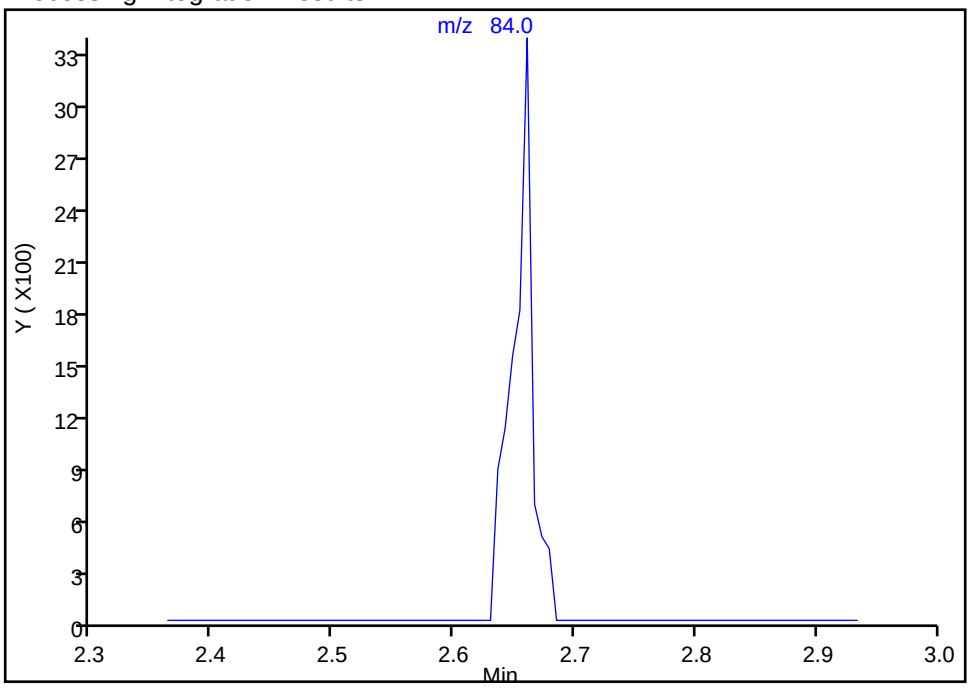
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1250.d				
Injection Date:	31-Oct-2024 06:23:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-7	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	AD	ALS Bottle#:	50	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

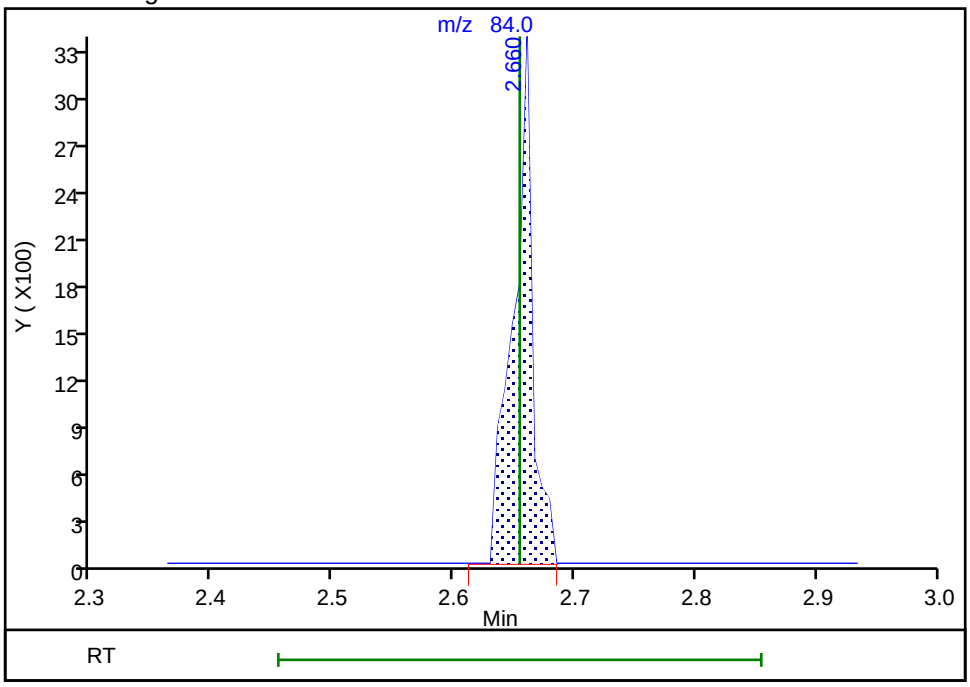
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.66
Area: 3757
Amount: 0.494099
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:40:48 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 | Lab Sample ID: 480-224869-9

Matrix: Water | Lab File ID: N1251.d

Analysis Method: 8260C | Date Collected: 10/25/2024 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 06:46

Soil Aliquot Vol: | Dilution Factor: 100

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		100	82
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	21
79-00-5	1,1,2-Trichloroethane	ND		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31
75-34-3	1,1-Dichloroethane	ND		100	38
75-35-4	1,1-Dichloroethene	ND		100	29
120-82-1	1,2,4-Trichlorobenzene	ND		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		100	39
106-93-4	1,2-Dibromoethane	ND		100	73
95-50-1	1,2-Dichlorobenzene	ND		100	79
107-06-2	1,2-Dichloroethane	ND		100	21
78-87-5	1,2-Dichloropropane	ND		100	72
541-73-1	1,3-Dichlorobenzene	ND		100	78
106-46-7	1,4-Dichlorobenzene	ND		100	84
591-78-6	2-Hexanone	ND		500	120
78-93-3	2-Butanone (MEK)	ND		1000	130
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	210
67-64-1	Acetone	ND		1000	300
71-43-2	Benzene	2600		100	41
75-27-4	Bromodichloromethane	ND		100	39
75-25-2	Bromoform	ND		100	26
74-83-9	Bromomethane	ND		100	69
75-15-0	Carbon disulfide	ND		100	19
56-23-5	Carbon tetrachloride	ND		100	27
108-90-7	Chlorobenzene	ND		100	75
124-48-1	Dibromochloromethane	ND		100	32
75-00-3	Chloroethane	ND		100	32
67-66-3	Chloroform	ND		100	34
74-87-3	Chloromethane	ND		100	35
156-59-2	cis-1,2-Dichloroethene	ND		100	81
10061-01-5	cis-1,3-Dichloropropene	ND		100	36
110-82-7	Cyclohexane	ND		100	18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 | Lab Sample ID: 480-224869-9

Matrix: Water | Lab File ID: N1251.d

Analysis Method: 8260C | Date Collected: 10/25/2024 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 06:46

Soil Aliquot Vol: | Dilution Factor: 100

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		100	68
100-41-4	Ethylbenzene	ND		100	74
98-82-8	Isopropylbenzene	ND		100	79
79-20-9	Methyl acetate	ND		250	130
1634-04-4	Methyl tert-butyl ether	ND		100	16
108-87-2	Methylcyclohexane	ND		100	16
75-09-2	Methylene Chloride	87	J	100	44
100-42-5	Styrene	ND		100	73
127-18-4	Tetrachloroethene	ND		100	36
108-88-3	Toluene	940		100	51
156-60-5	trans-1,2-Dichloroethene	ND		100	90
10061-02-6	trans-1,3-Dichloropropene	ND		100	37
79-01-6	Trichloroethene	ND		100	46
75-69-4	Trichlorofluoromethane	ND		100	88
75-01-4	Vinyl chloride	ND		100	90
1330-20-7	Xylenes, Total	520		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	91		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d
Lims ID: 480-224869-G-9
Client ID: MW-BCP-13A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 06:46:30 ALS Bottle#: 51 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224869-G-9
Misc. Info.: 480-0120932-018
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:52:58 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:52:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	150612	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	492683	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	272336	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	93	156219	22.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	65	233387	22.9	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	96	562369	24.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	87	195330	27.5	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.289	2.289	0.000	65	3850	0.7046	a
25 Carbon disulfide	76		2.350				ND	
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.654	2.654	0.000	84	6319	0.8660	a
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78	4.552	4.552	0.000	88	629101	25.8	a
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	
73 Toluene	92	6.371	6.365	0.000	96	125857	9.36	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91	7.898	7.898	0.000	95	9392	0.3665	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	96	36825	3.65	
91 o-Xylene	106	8.446	8.434	0.006	94	16213	1.60	
92 Styrene	104	8.476	8.470	0.000	48	7397	0.4496	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1				0		5.25	

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

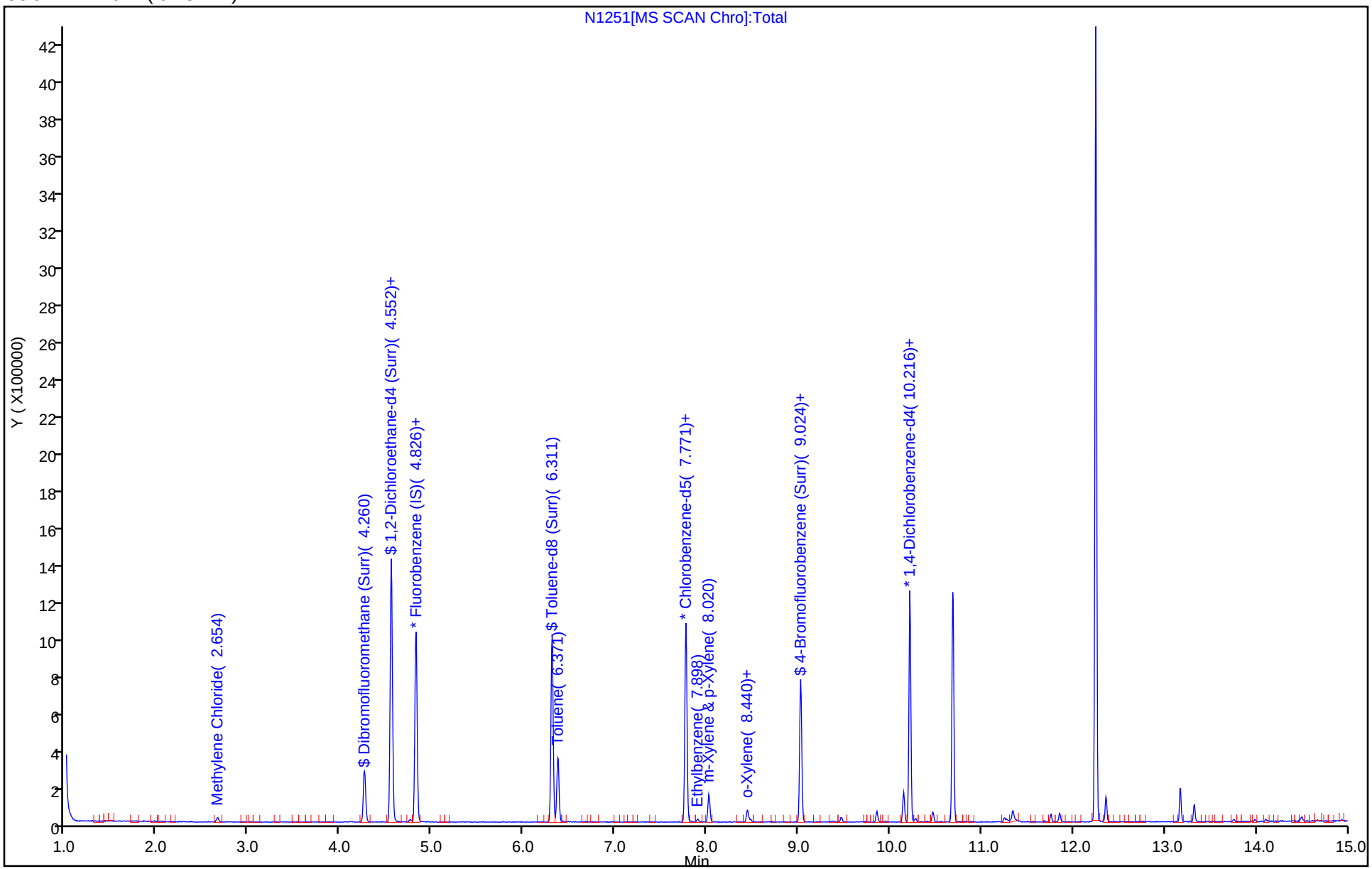
Report Date: 31-Oct-2024 15:52:59 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d

Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9	Worklist Smp#:	18
Client ID:	MW-BCP-13A-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	100.0000	ALS Bottle#:	51
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d
Lims ID: 480-224869-G-9
Client ID: MW-BCP-13A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 06:46:30 ALS Bottle#: 51 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224869-G-9
Misc. Info.: 480-0120932-018
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:52:58 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:52:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	22.8	91.31
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	22.9	91.70
$ 6 Toluene-d8 (Surr)	25.0	24.9	99.75
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.5	109.86

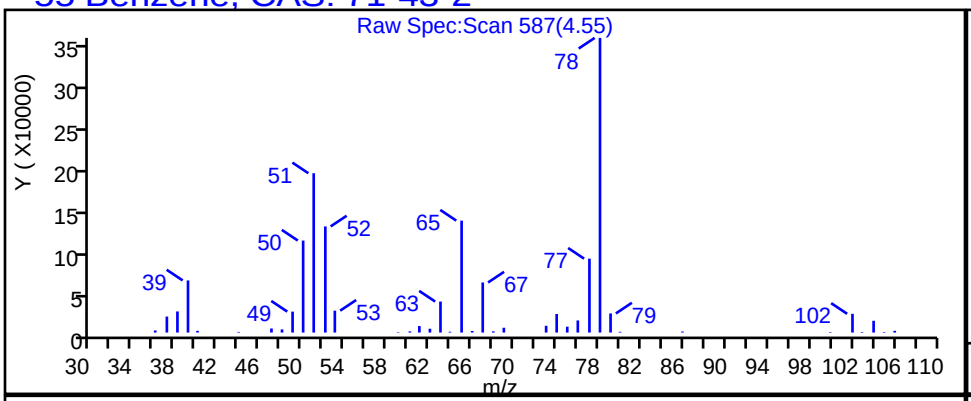
Report Date: 31-Oct-2024 15:52:59 Chrom Revision: 2.3 24-Sep-2024 15:19:46

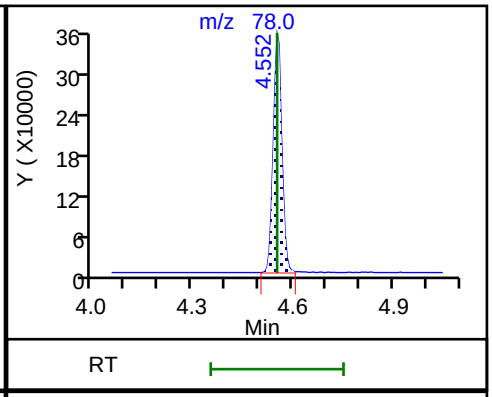
Eurofins Buffalo

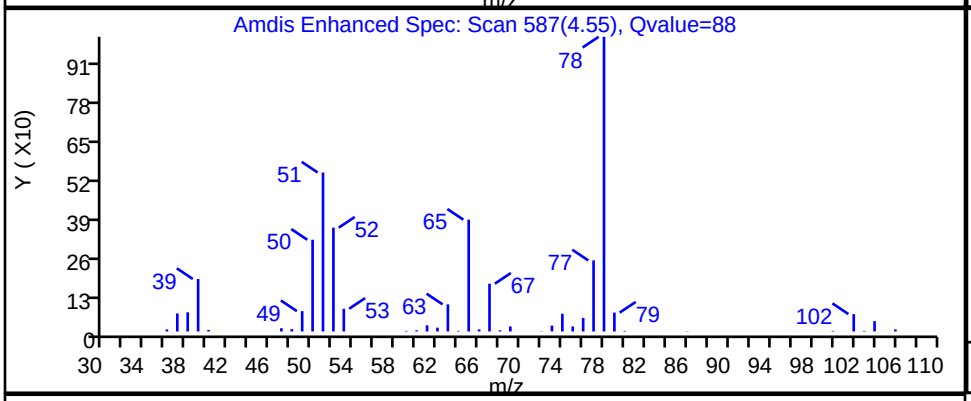
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d

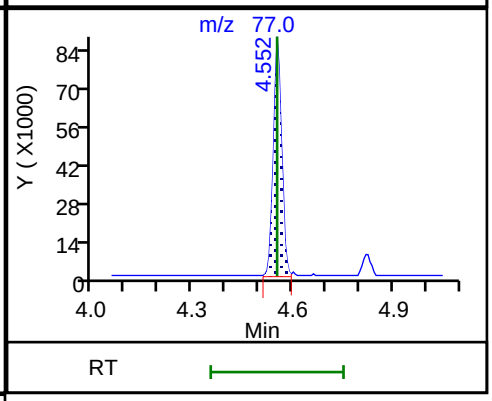
Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

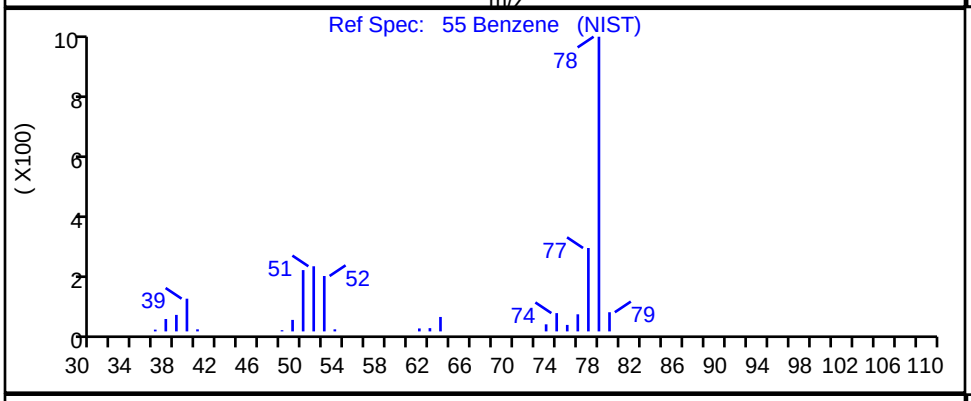
55 Benzene, CAS: 71-43-2

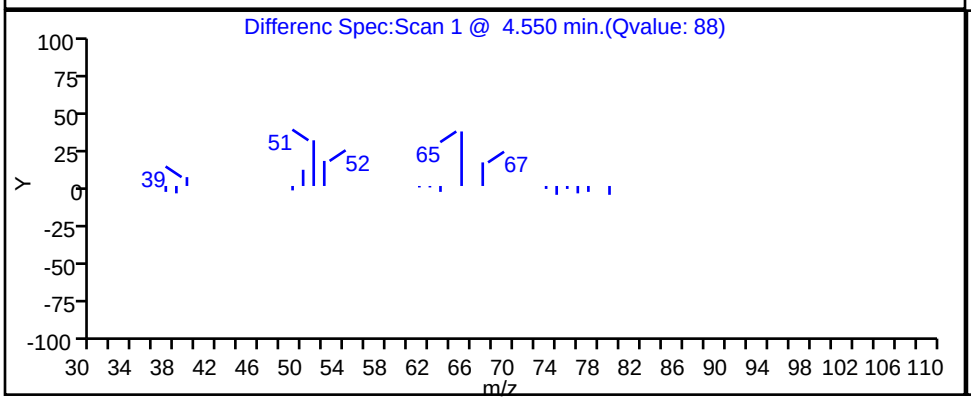


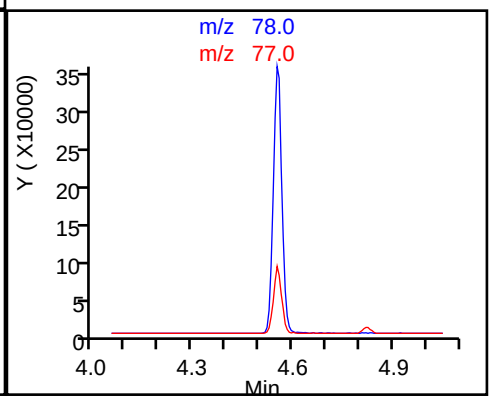












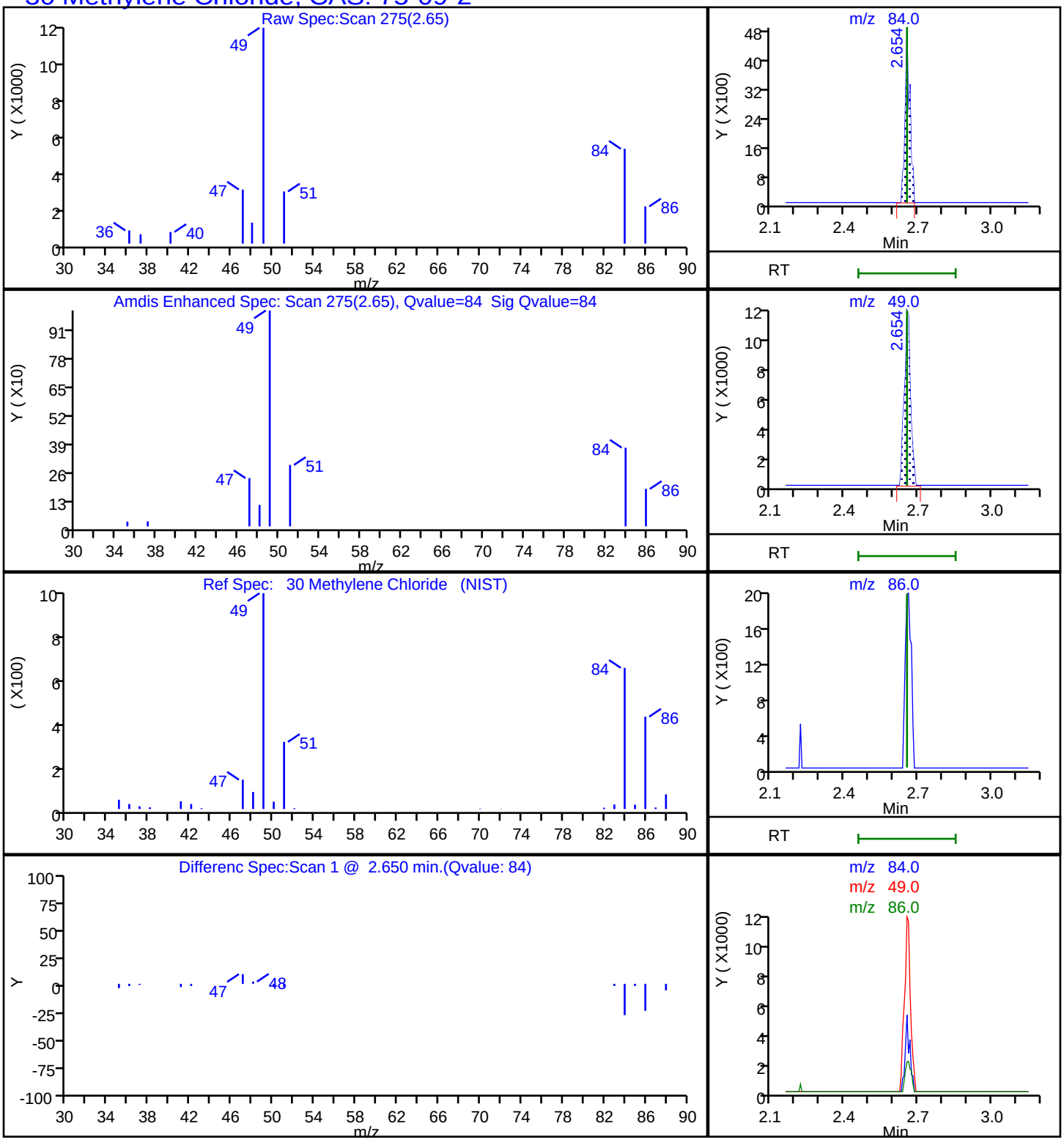
Report Date: 31-Oct-2024 15:52:59 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d

Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

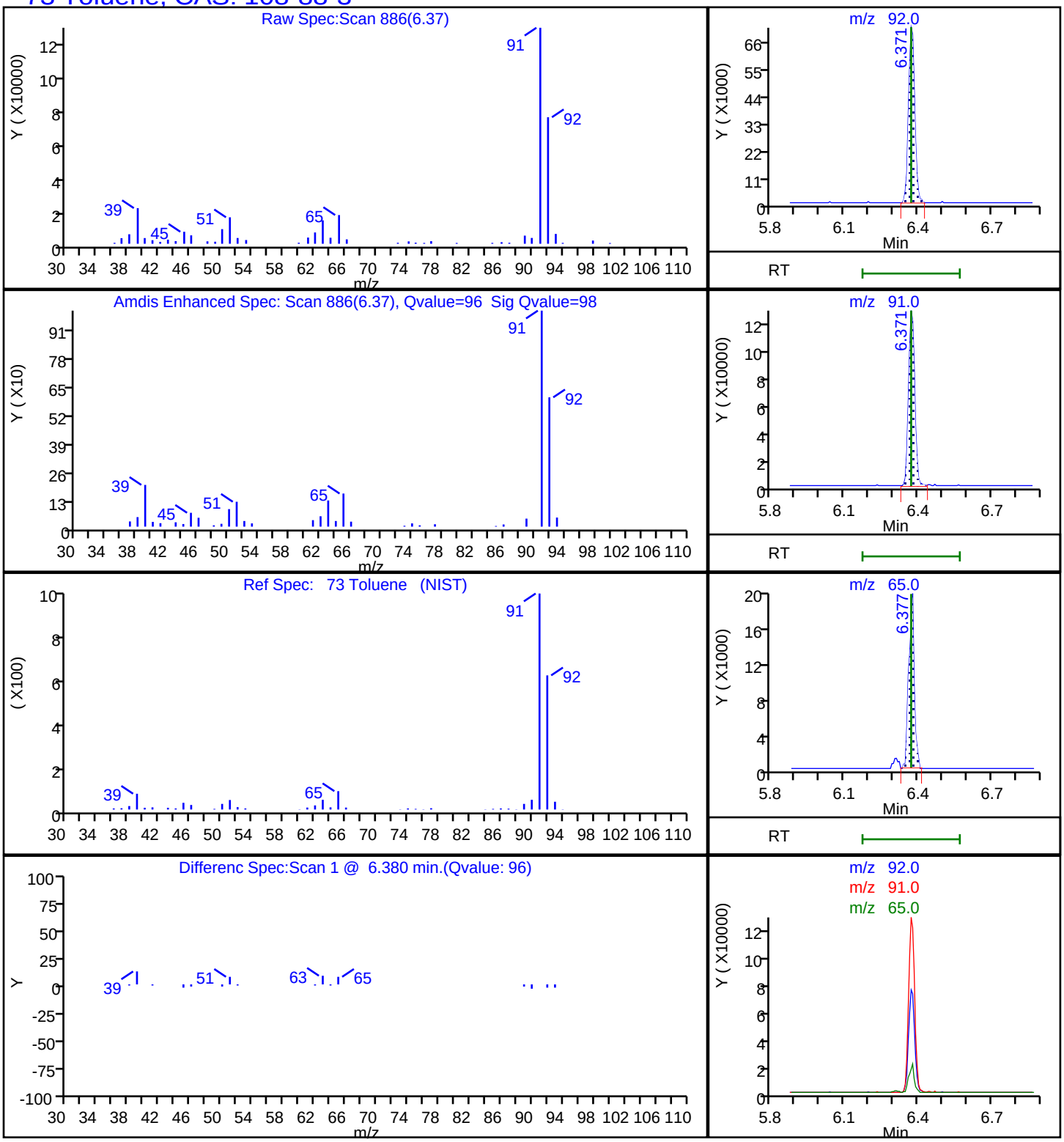
30 Methylene Chloride, CAS: 75-09-2



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d
Injection Date: 31-Oct-2024 06:46:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-9 Lab Sample ID: 480-224869-9
Client ID: MW-BCP-13A-10252024
Operator ID: AD ALS Bottle#: 51 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

73 Toluene, CAS: 108-88-3



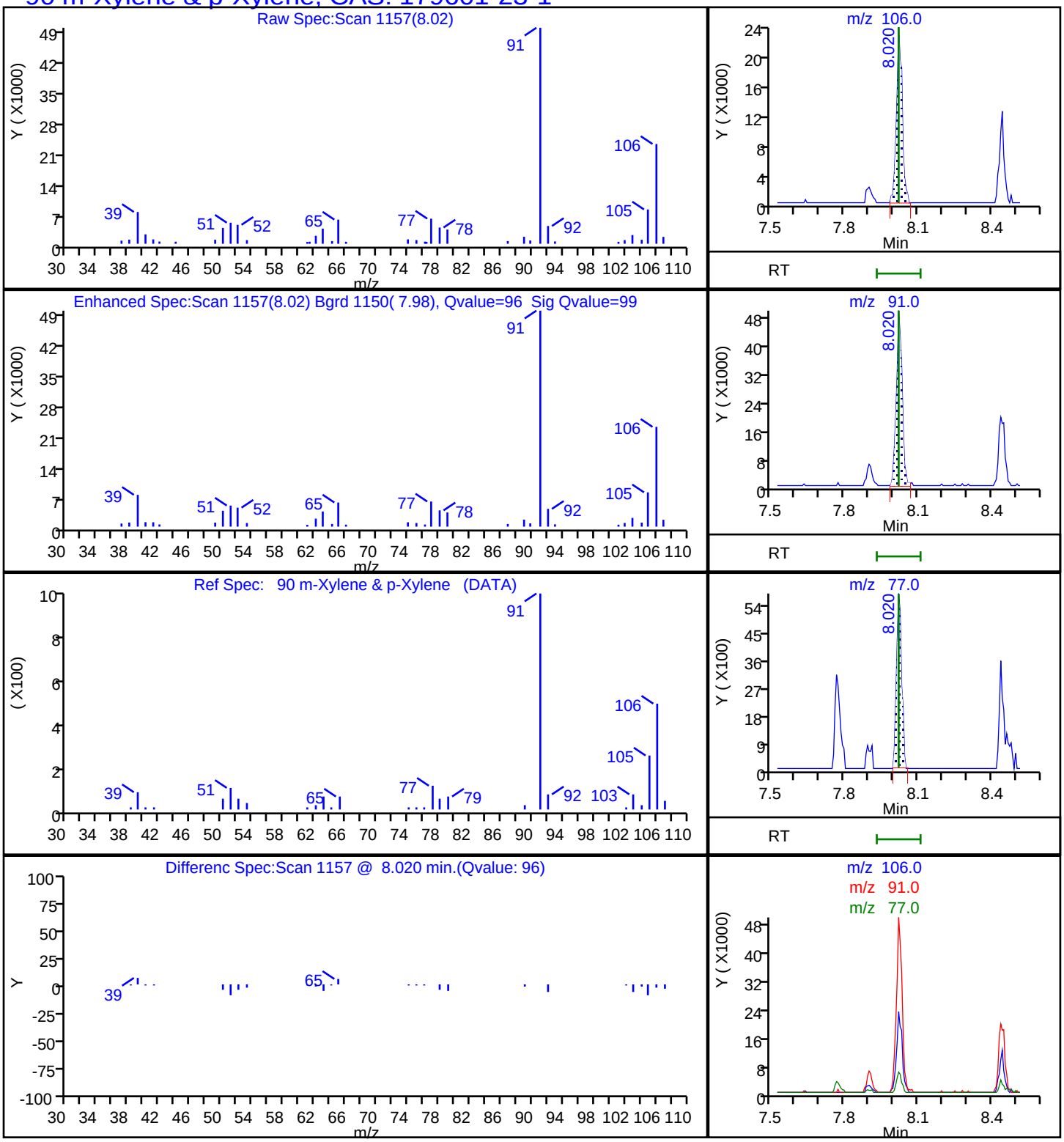
Report Date: 31-Oct-2024 15:52:59 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d

Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

90 m-Xylene & p-Xylene, CAS: 179601-23-1



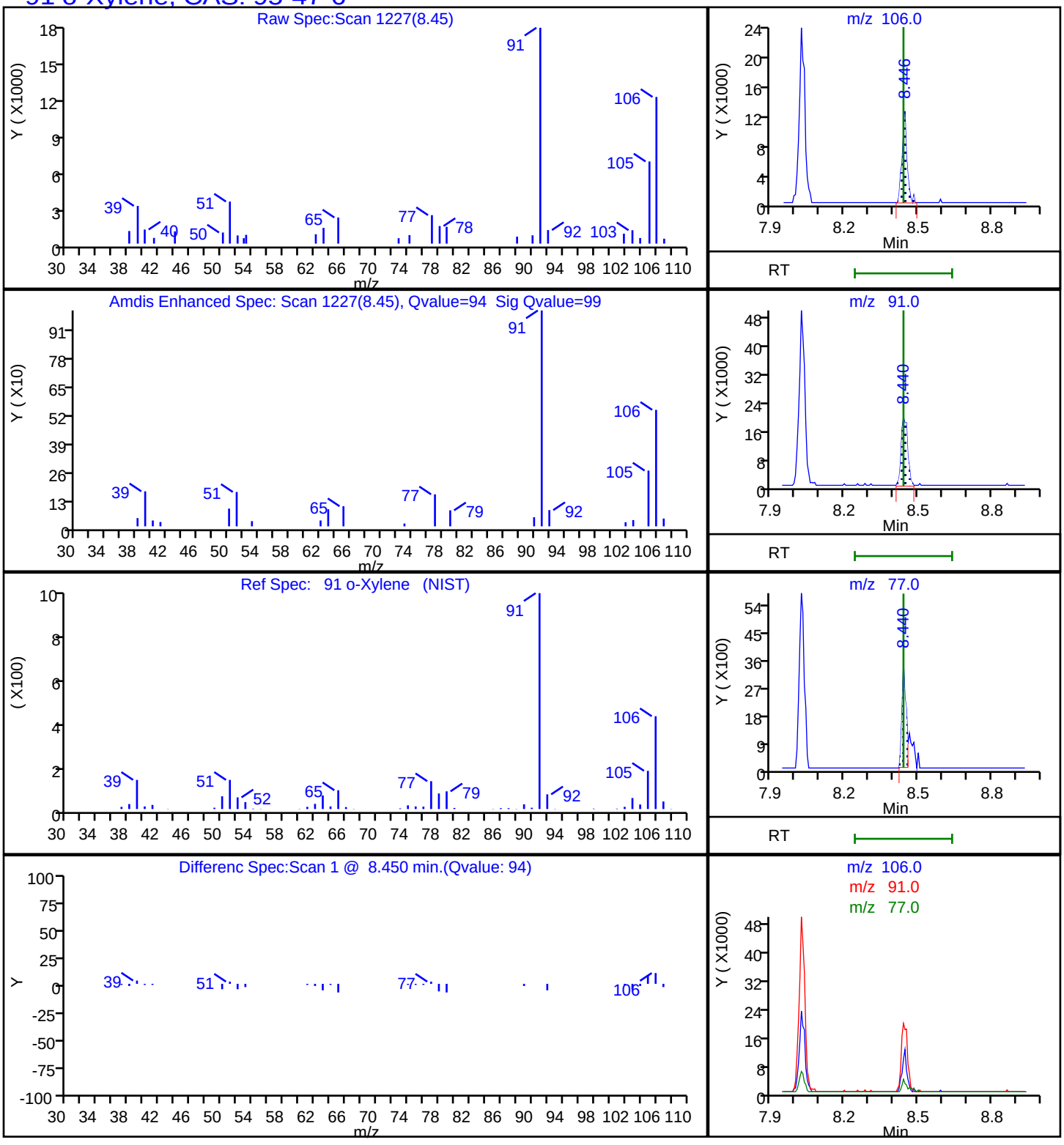
Report Date: 31-Oct-2024 15:52:59 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d

Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9
Client ID:	MW-BCP-13A-10252024		
Operator ID:	AD	ALS Bottle#:	51 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

91 o-Xylene, CAS: 95-47-6



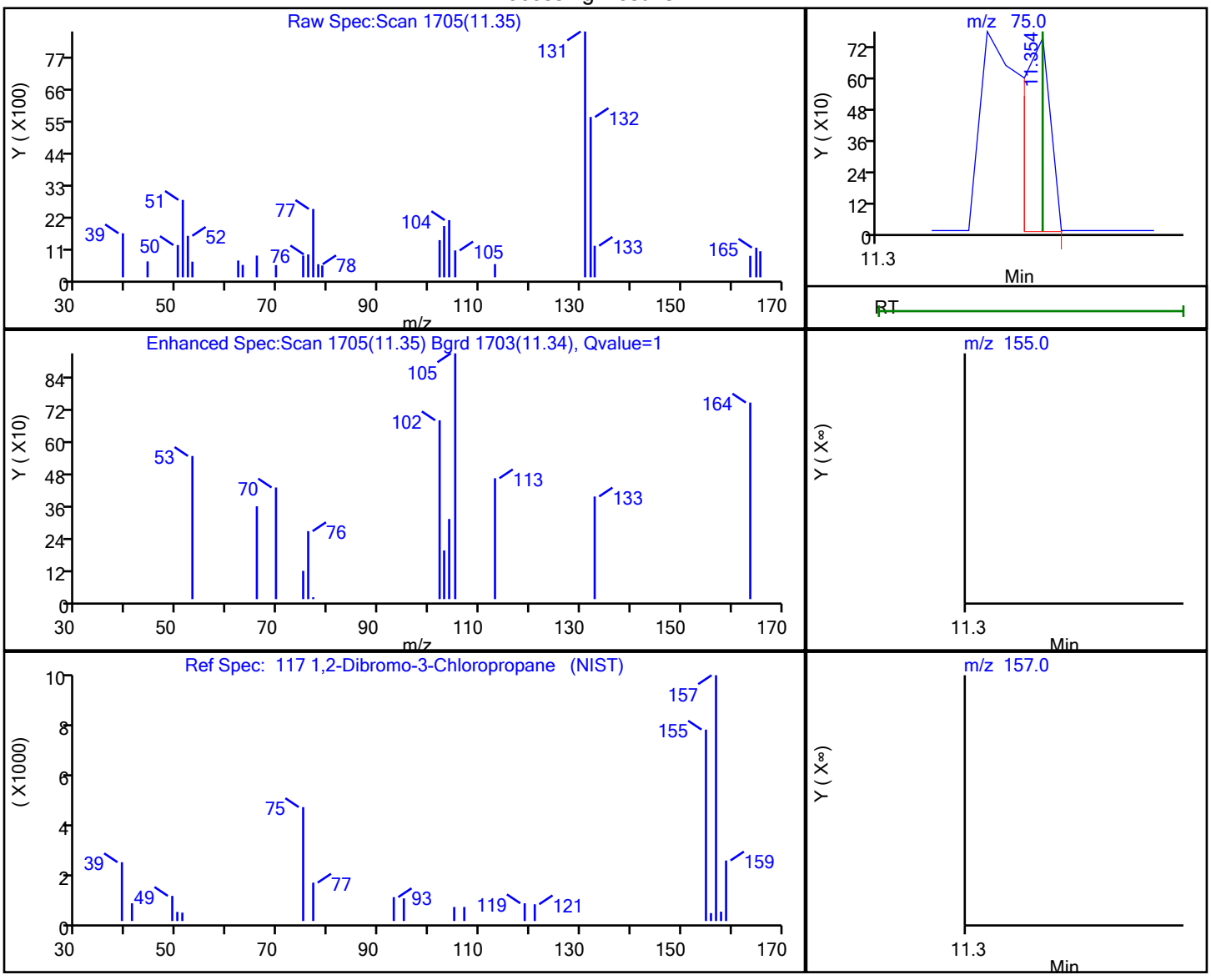
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d				
Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-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	491	0.257817
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 15:52:51 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

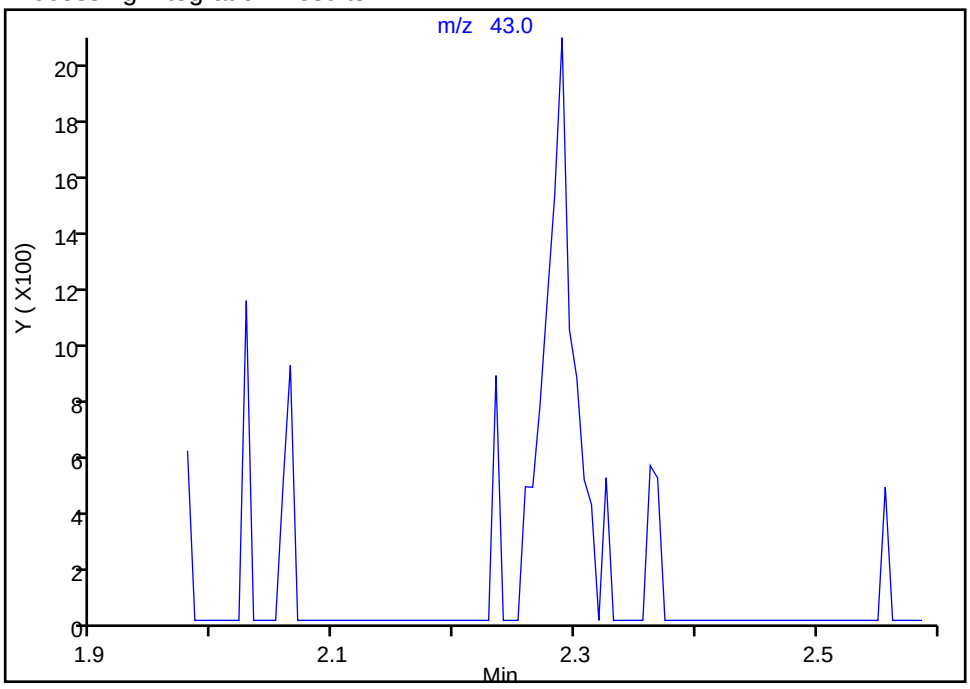
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d				
Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

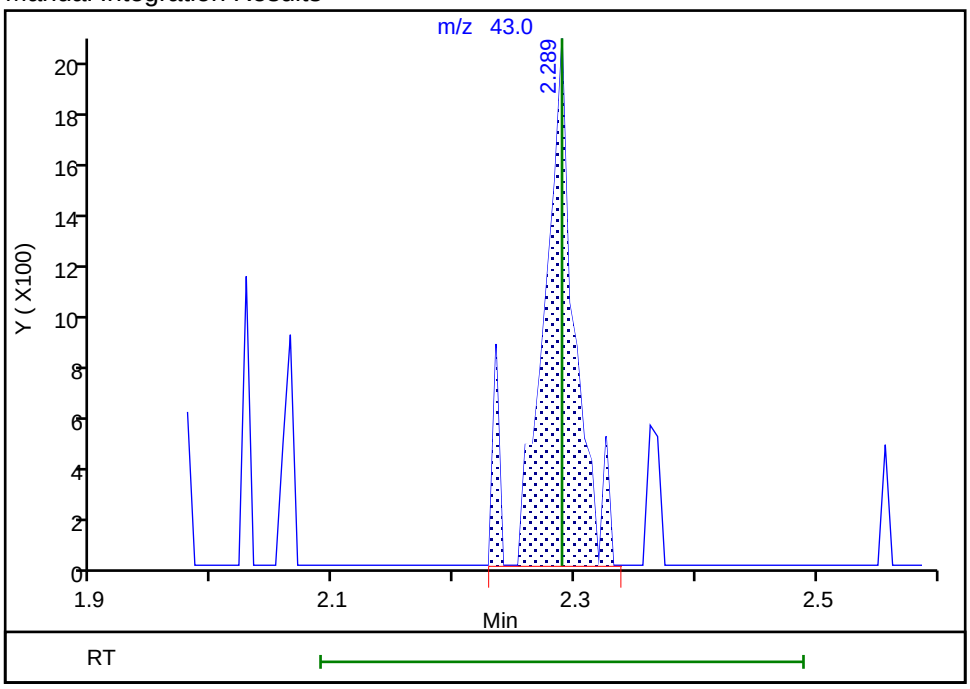
Not Detected
Expected RT: 2.29

Processing Integration Results



Manual Integration Results

RT: 2.29
Area: 3850
Amount: 0.704633
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:52:00 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

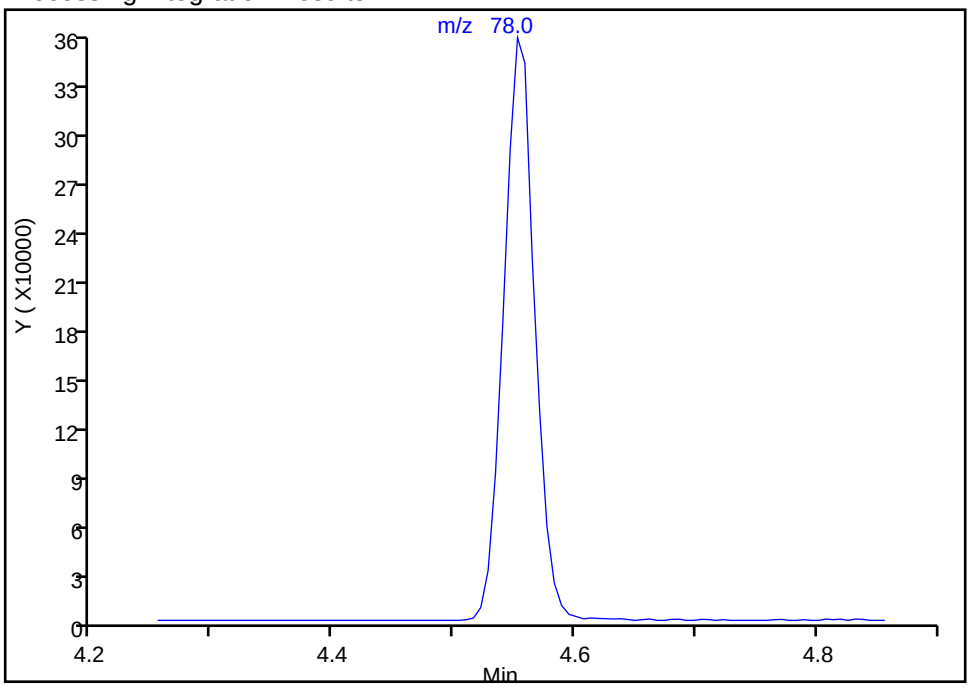
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d				
Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2

Signal: 1

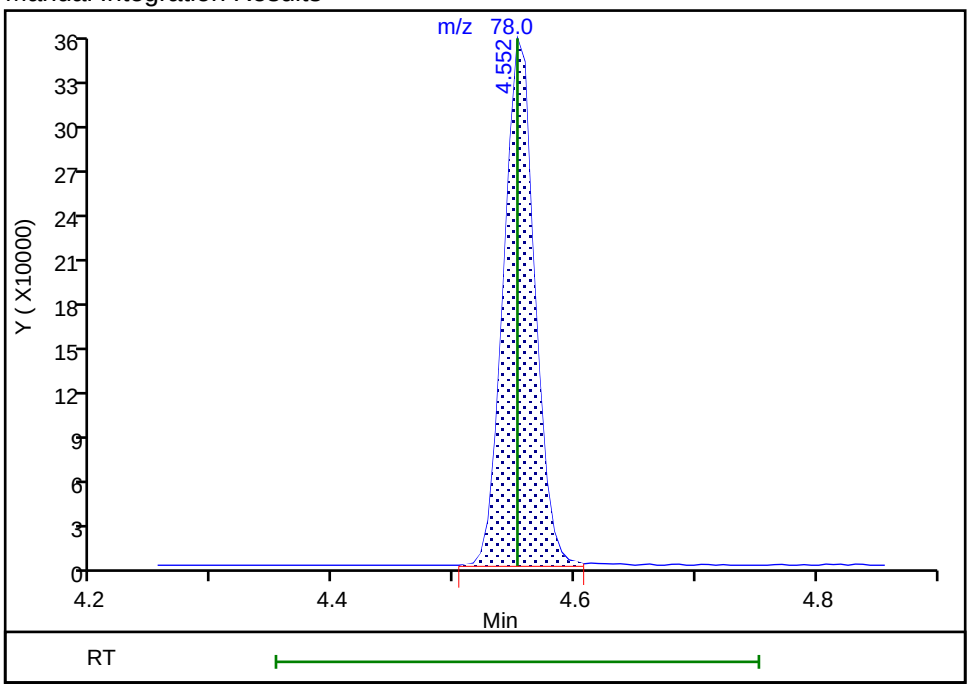
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 629101
Amount: 25.848053
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:52:15 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

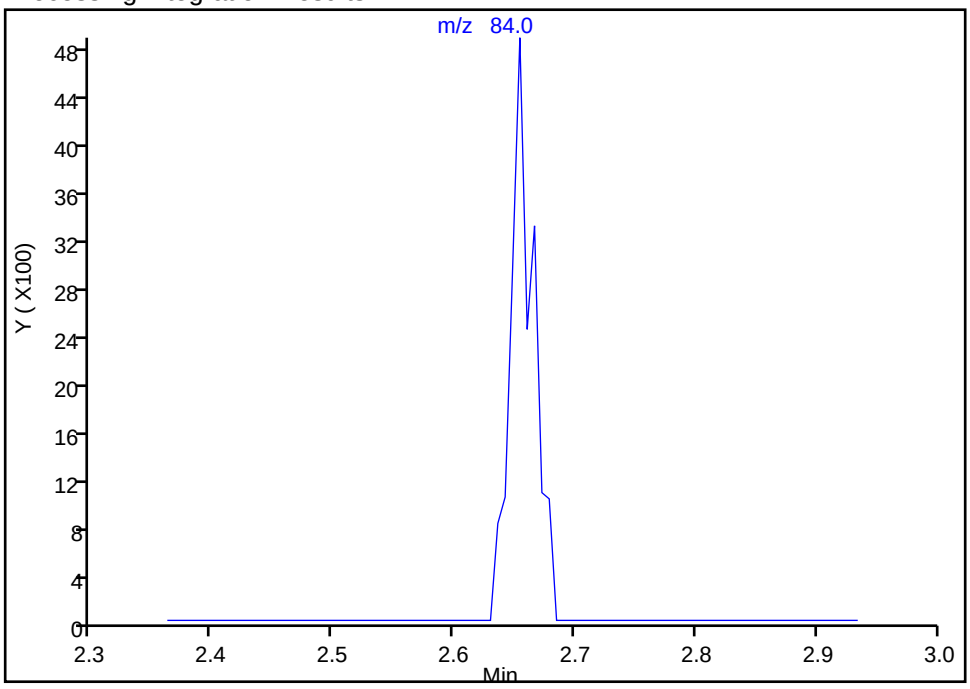
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1251.d				
Injection Date:	31-Oct-2024 06:46:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-9	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	AD	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

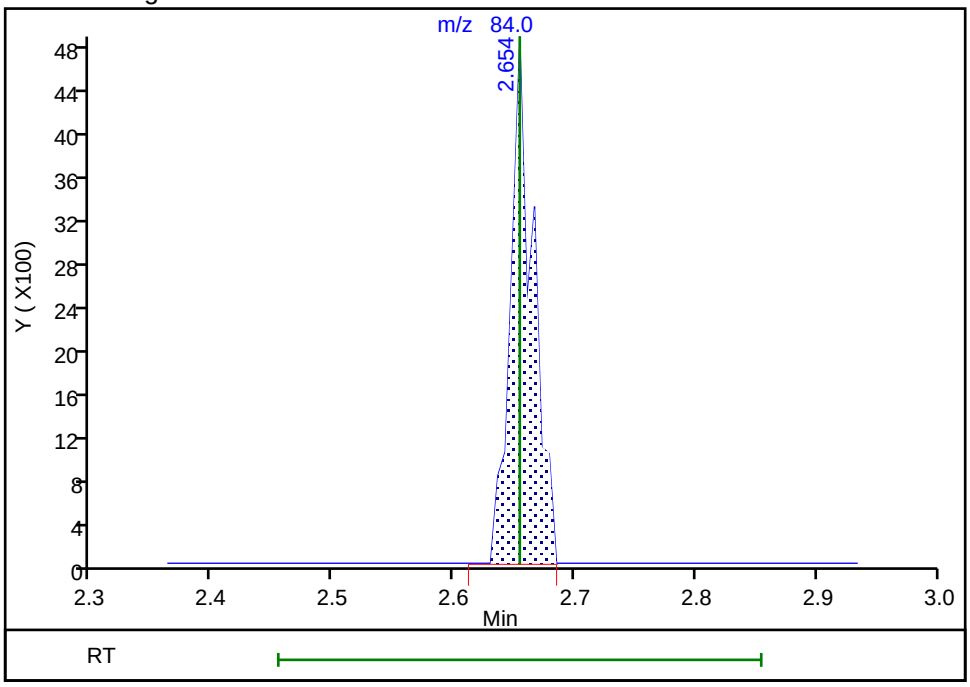
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.65
Area: 6319
Amount: 0.866025
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:52:08 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 | Lab Sample ID: 480-224869-10

Matrix: Water | Lab File ID: N1252.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:10

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 07:08

Soil Aliquot Vol: | Dilution Factor: 2

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
75-34-3	1,1-Dichloroethane	ND		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
591-78-6	2-Hexanone	ND		10	2.5
78-93-3	2-Butanone (MEK)	ND		20	2.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	6.6	J	20	6.0
71-43-2	Benzene	53		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	ND		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 | Lab Sample ID: 480-224869-10

Matrix: Water | Lab File ID: N1252.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:10

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 07:08

Soil Aliquot Vol: | Dilution Factor: 2

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	11		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	2.6		2.0	0.88
100-42-5	Styrene	3.6		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	39		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	100		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d
Lims ID: 480-224869-G-10
Client ID: MW-BCP-13B-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 07:08:30 ALS Bottle#: 52 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 480-224869-G-10
Misc. Info.: 480-0120932-019
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:54:36 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:54:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	98	143390	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	94	499344	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	269166	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	155606	23.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	66	237164	24.5	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	95	548306	24.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	86	200569	27.8	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.283	2.283	-0.006	96	17193	3.31	a
25 Carbon disulfide	76		2.350				ND	7
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.660	2.654	0.006	85	8515	1.29	
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	U
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78	4.552	4.552	0.000	88	609688	26.3	a
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	
73 Toluene	92	6.371	6.365	0.000	97	267824	19.6	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91	7.904	7.898	0.006	98	144047	5.55	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	97	363474	35.5	
91 o-Xylene	106	8.446	8.434	0.006	99	156891	15.3	
92 Styrene	104	8.476	8.476	0.000	85	29869	1.79	a
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105	8.835	8.835	0.006	93	12826	0.4810	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1				0		50.8	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

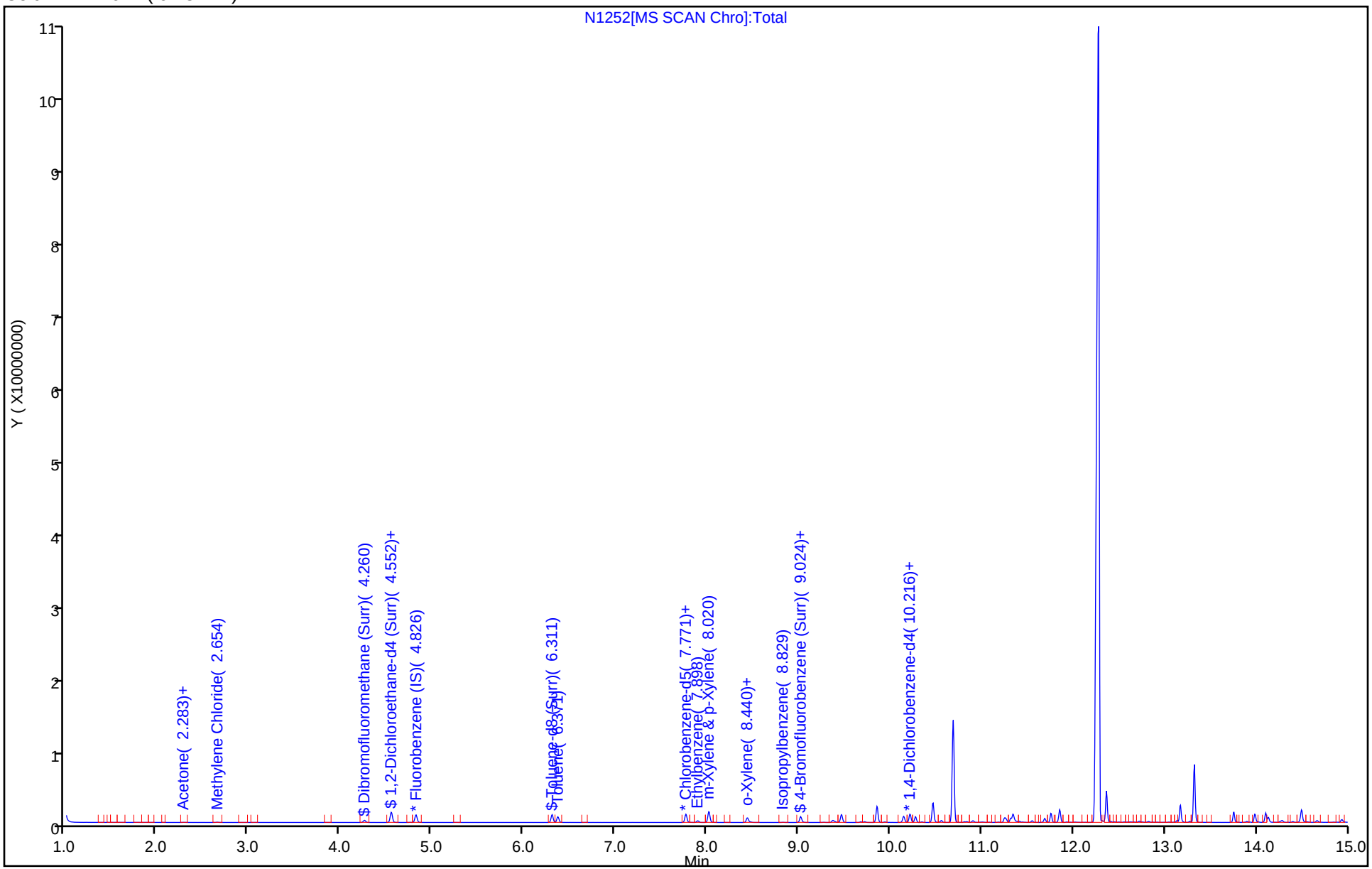
Report Date: 31-Oct-2024 15:54:36 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10	Worklist Smp#:	19
Client ID:	MW-BCP-13B-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	2.0000	ALS Bottle#:	52
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d
Lims ID: 480-224869-G-10
Client ID: MW-BCP-13B-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 07:08:30 ALS Bottle#: 52 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 480-224869-G-10
Misc. Info.: 480-0120932-019
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:54:36 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:54:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.9	95.53
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.5	97.87
$ 6 Toluene-d8 (Surr)	25.0	24.0	95.96
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.8	111.30

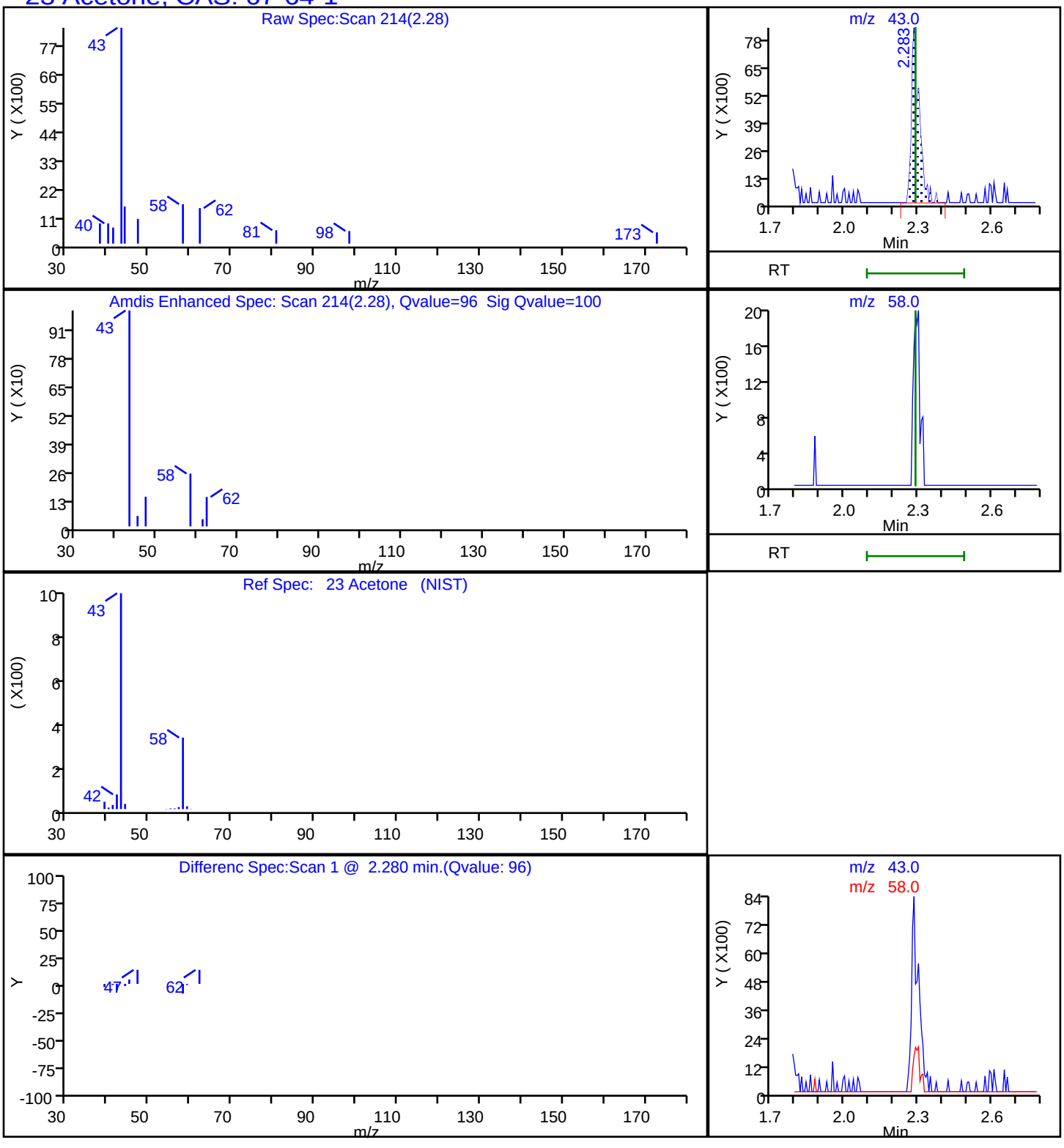
Report Date: 31-Oct-2024 15:54:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

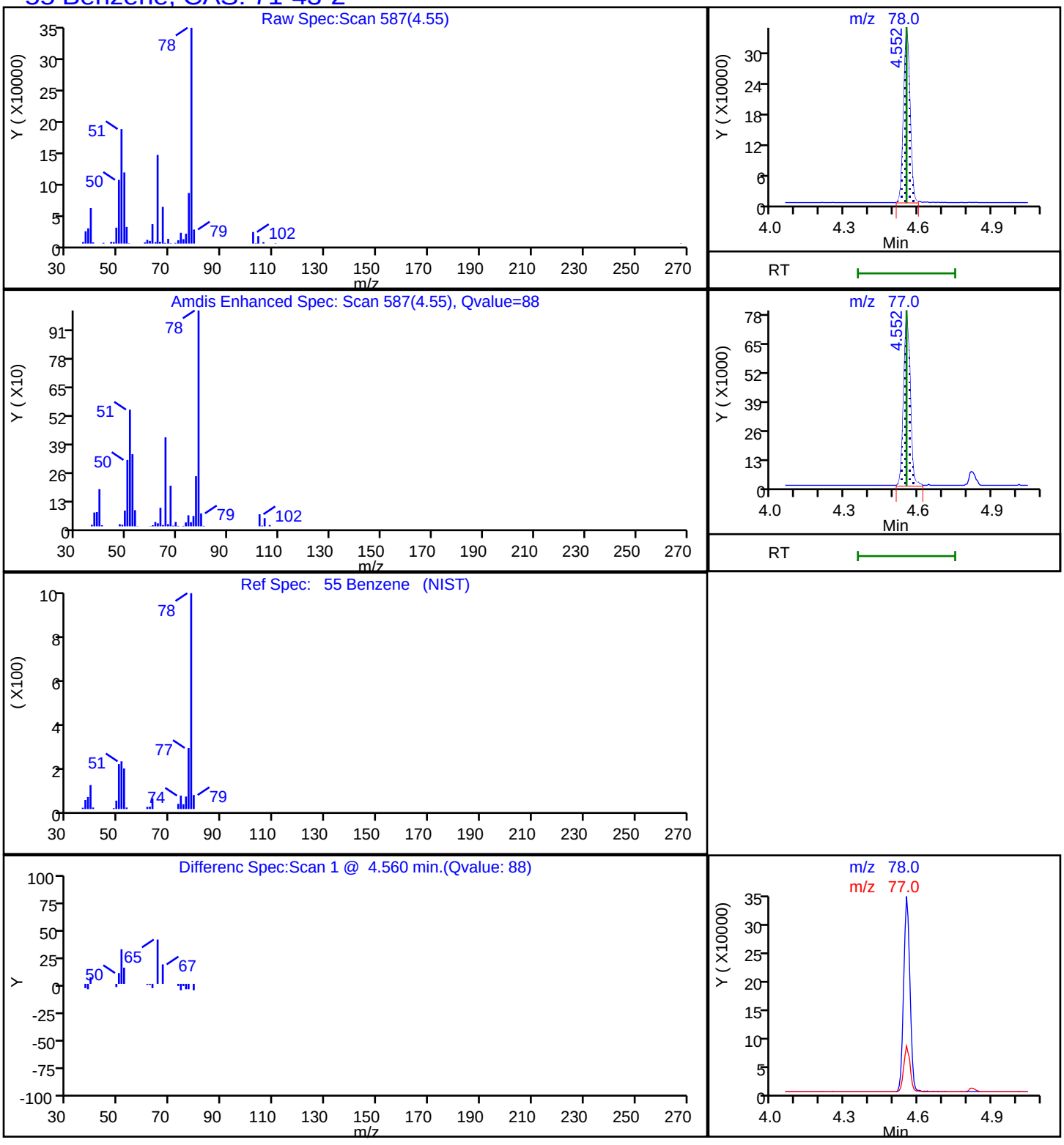


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	AD	ALS Bottle#:	52 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

55 Benzene, CAS: 71-43-2



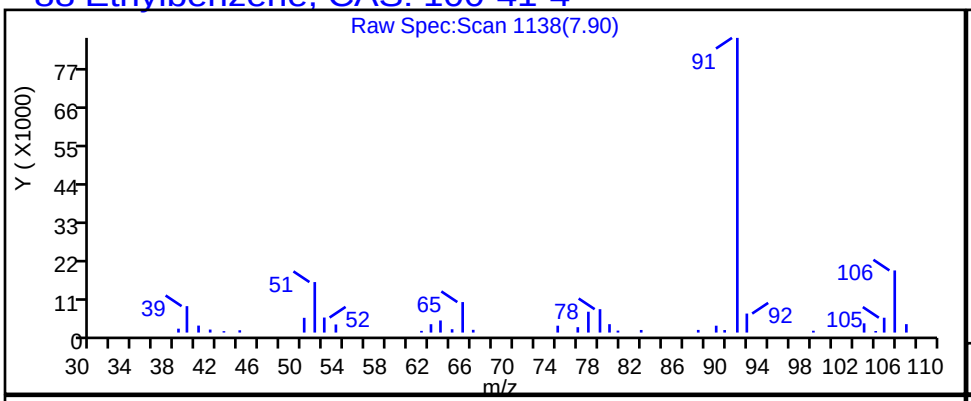
Report Date: 31-Oct-2024 15:54:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

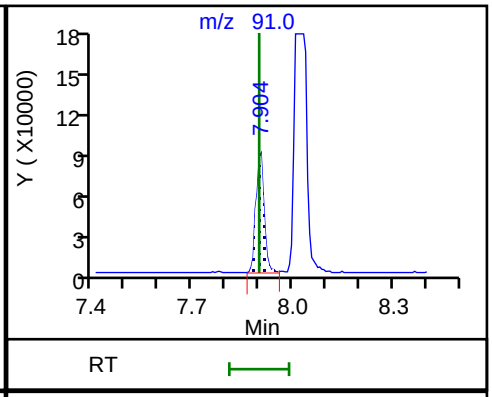
Eurofins Buffalo

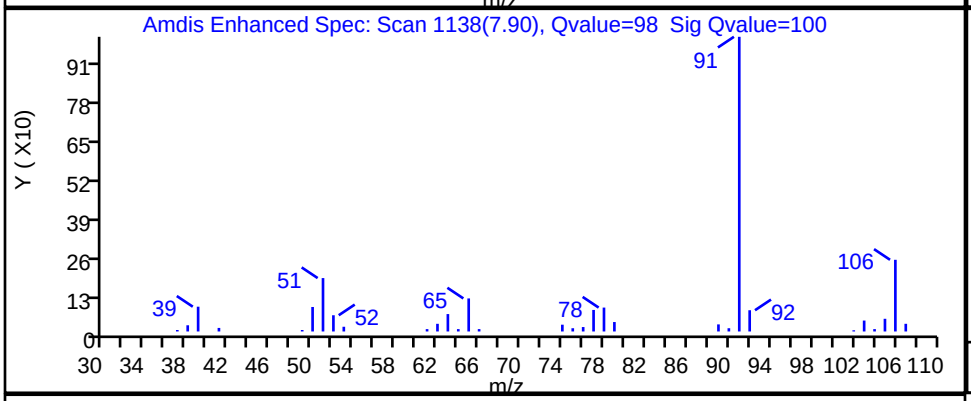
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

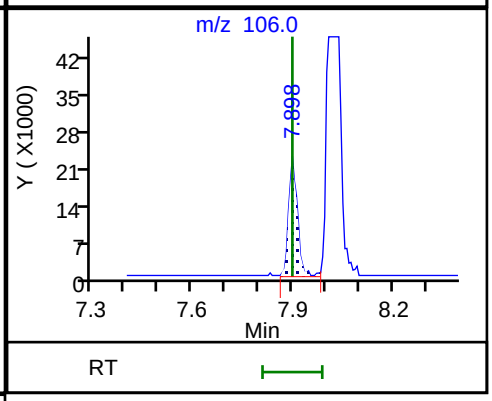
Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

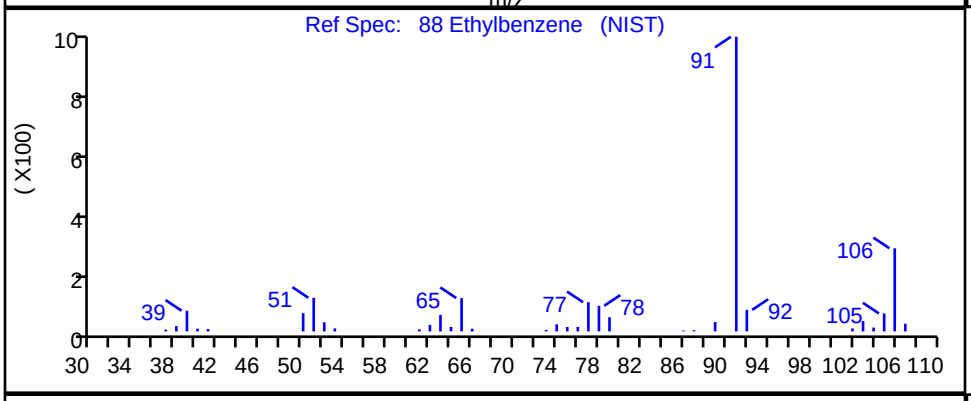
88 Ethylbenzene, CAS: 100-41-4

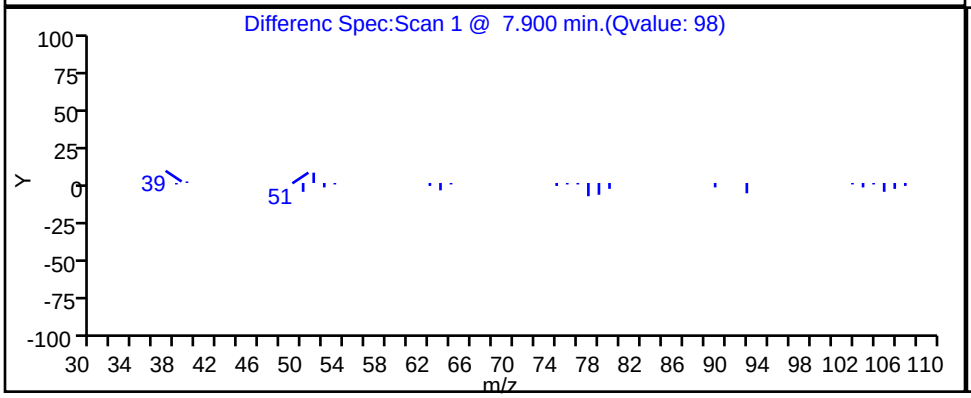


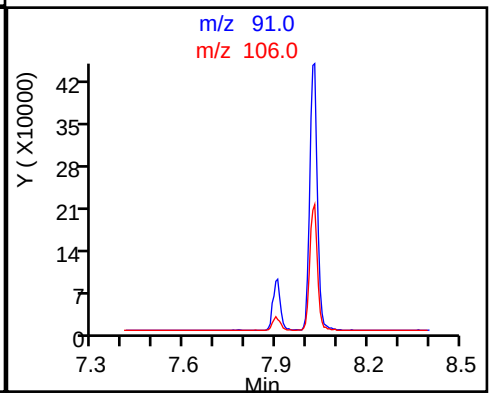












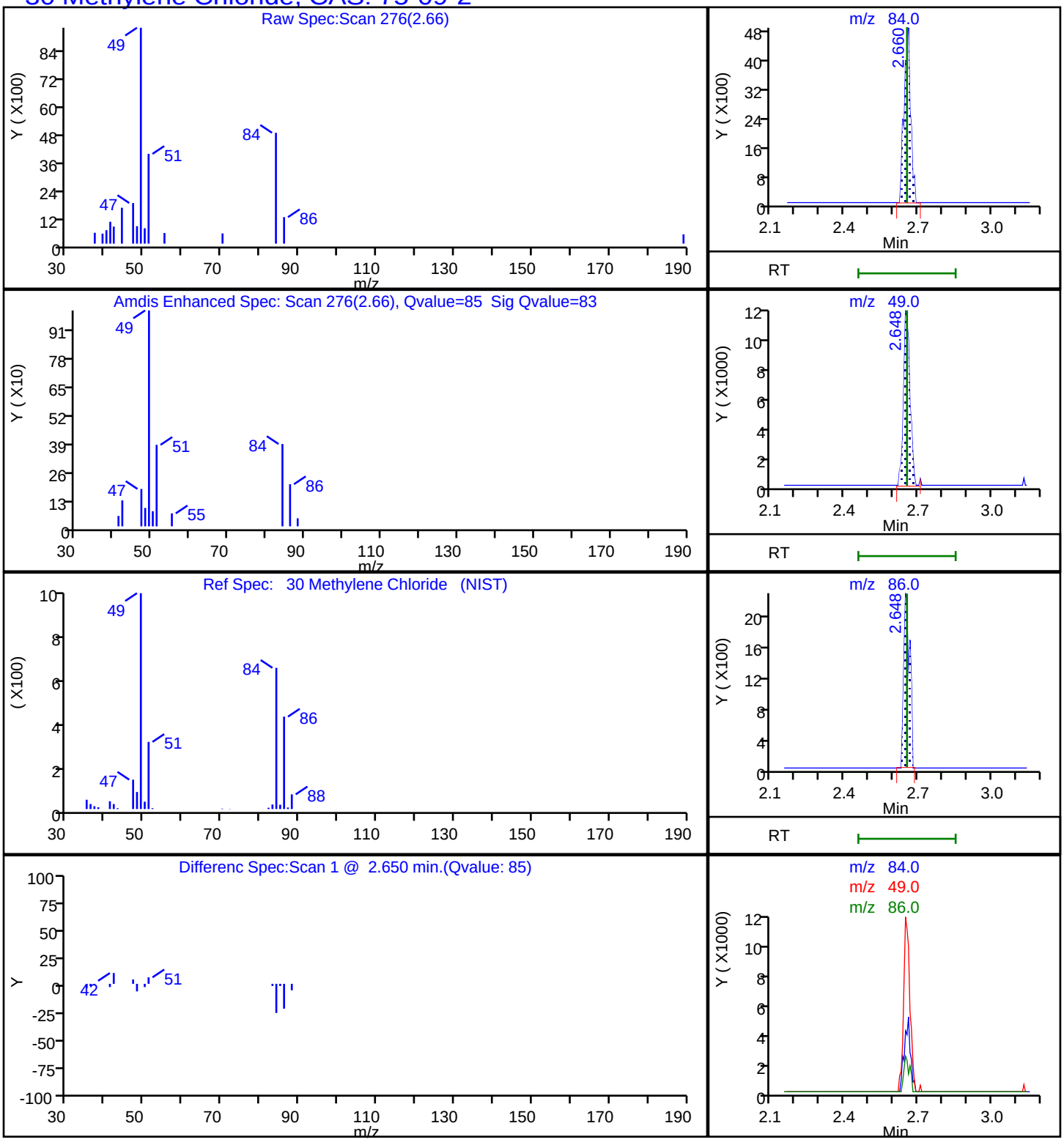
Report Date: 31-Oct-2024 15:54:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	AD	ALS Bottle#:	52 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



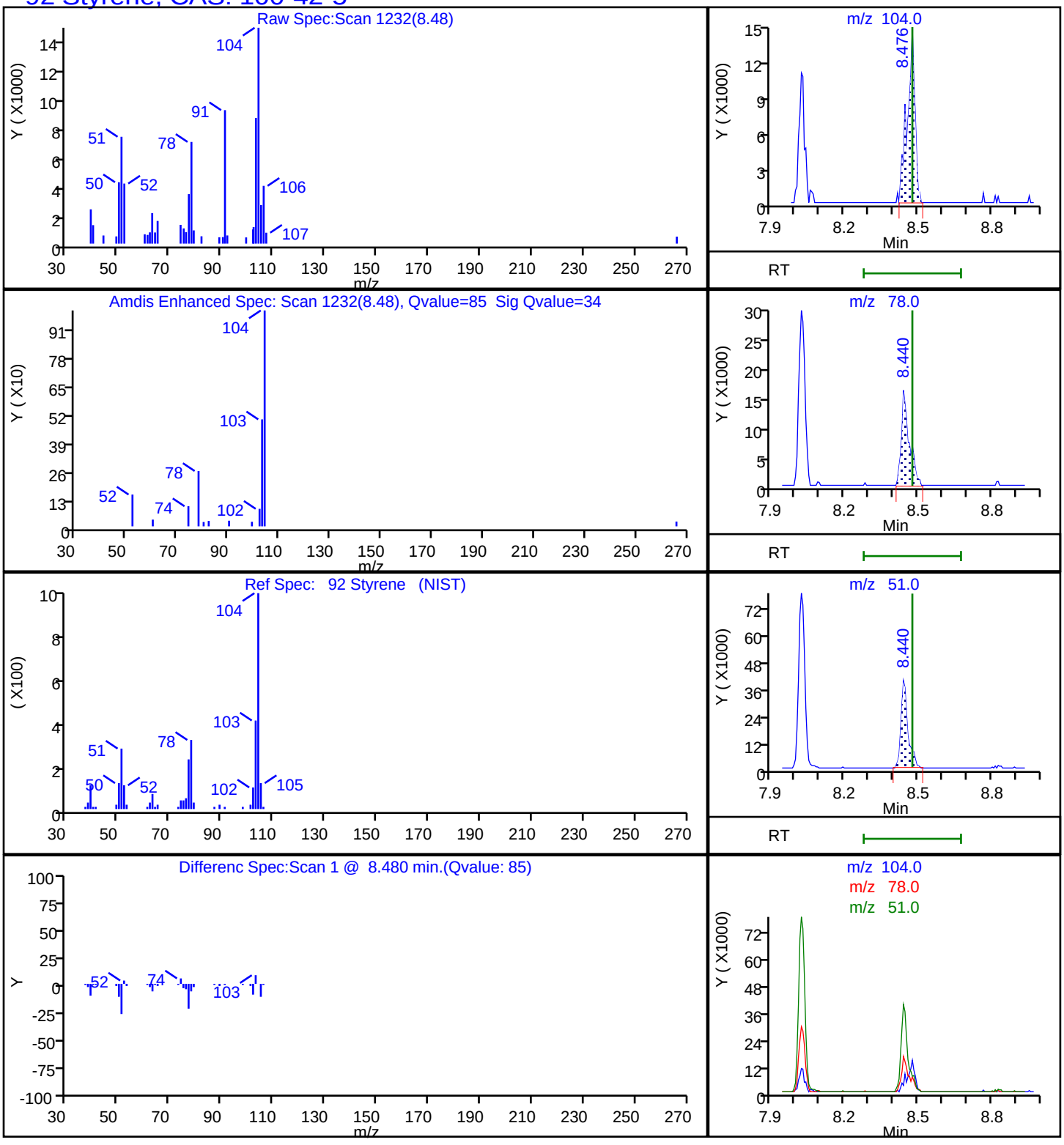
Report Date: 31-Oct-2024 15:54:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	AD	ALS Bottle#:	52 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

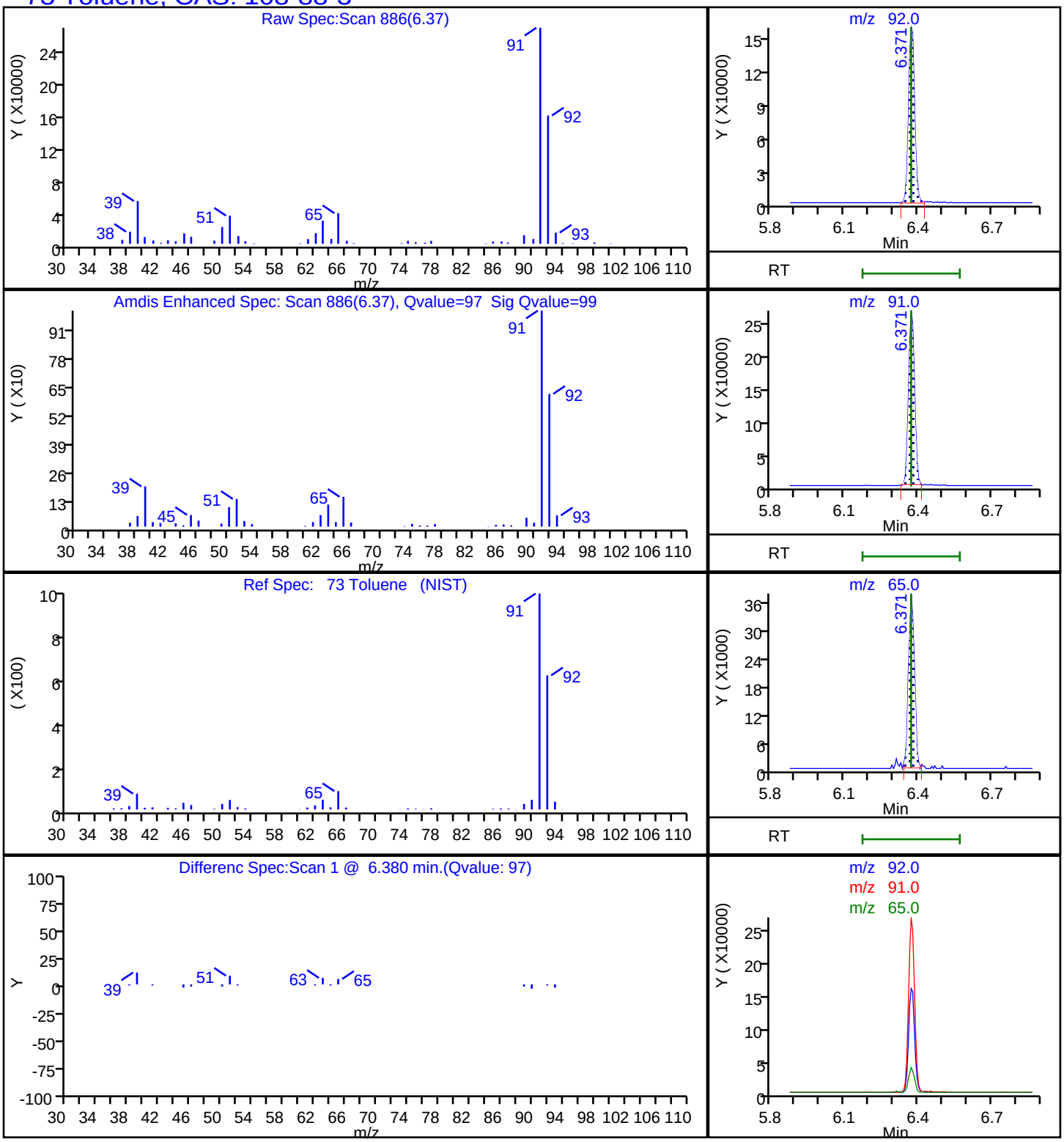
92 Styrene, CAS: 100-42-5



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d
Injection Date: 31-Oct-2024 07:08:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-10 Lab Sample ID: 480-224869-10
Client ID: MW-BCP-13B-10252024
Operator ID: AD ALS Bottle#: 52 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

73 Toluene, CAS: 108-88-3



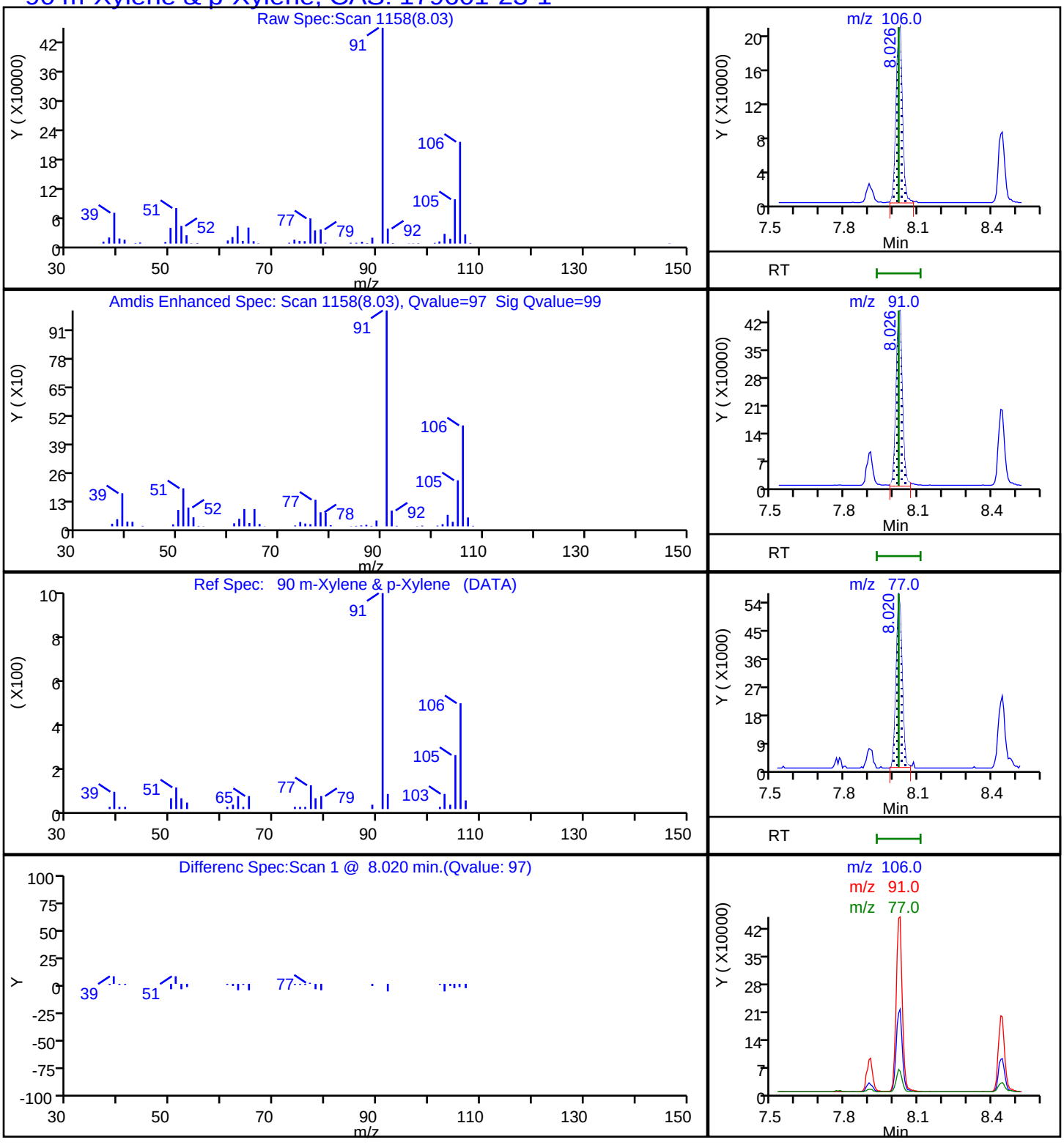
Report Date: 31-Oct-2024 15:54:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

90 m-Xylene & p-Xylene, CAS: 179601-23-1



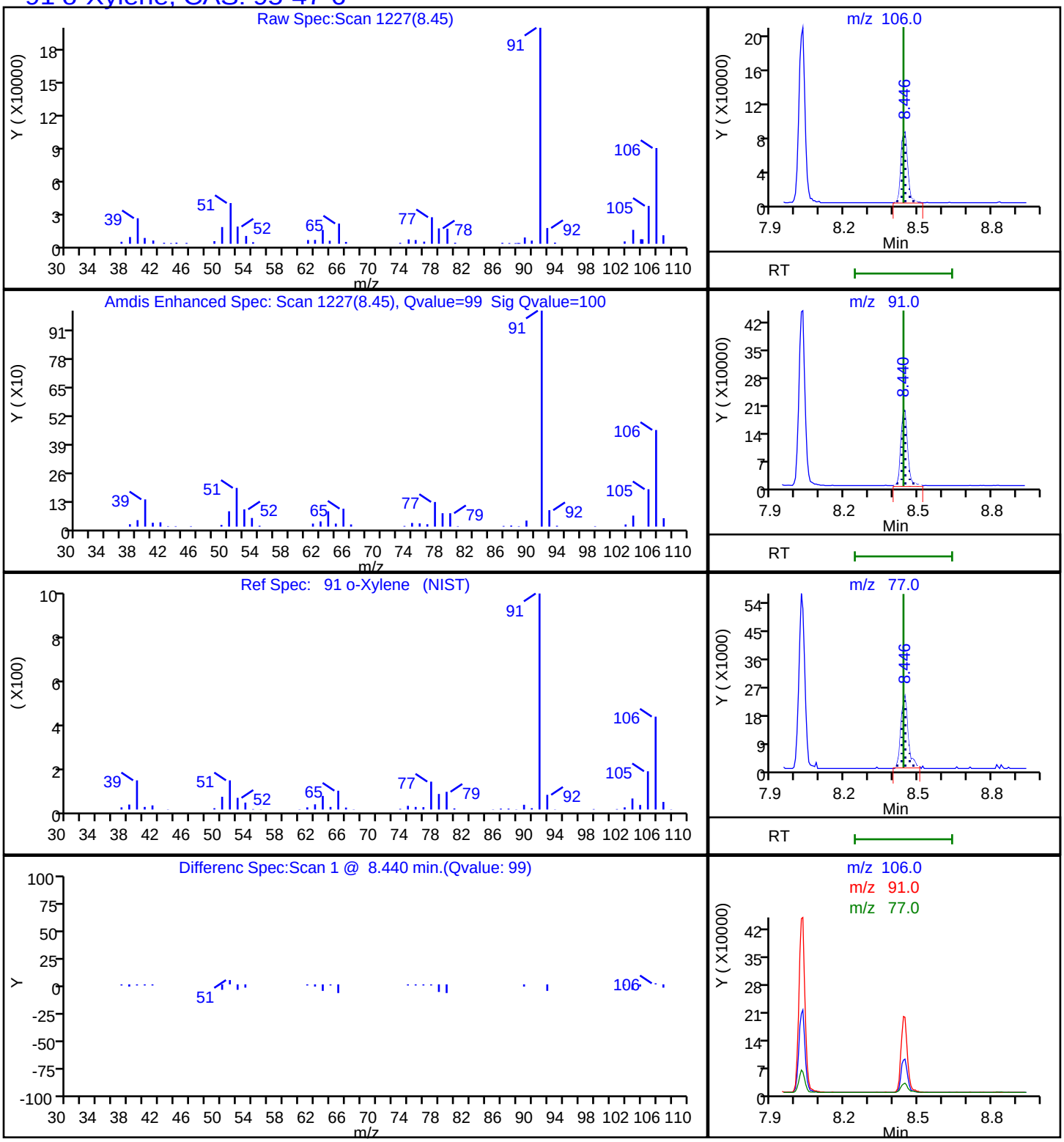
Report Date: 31-Oct-2024 15:54:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d

Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

91 o-Xylene, CAS: 95-47-6



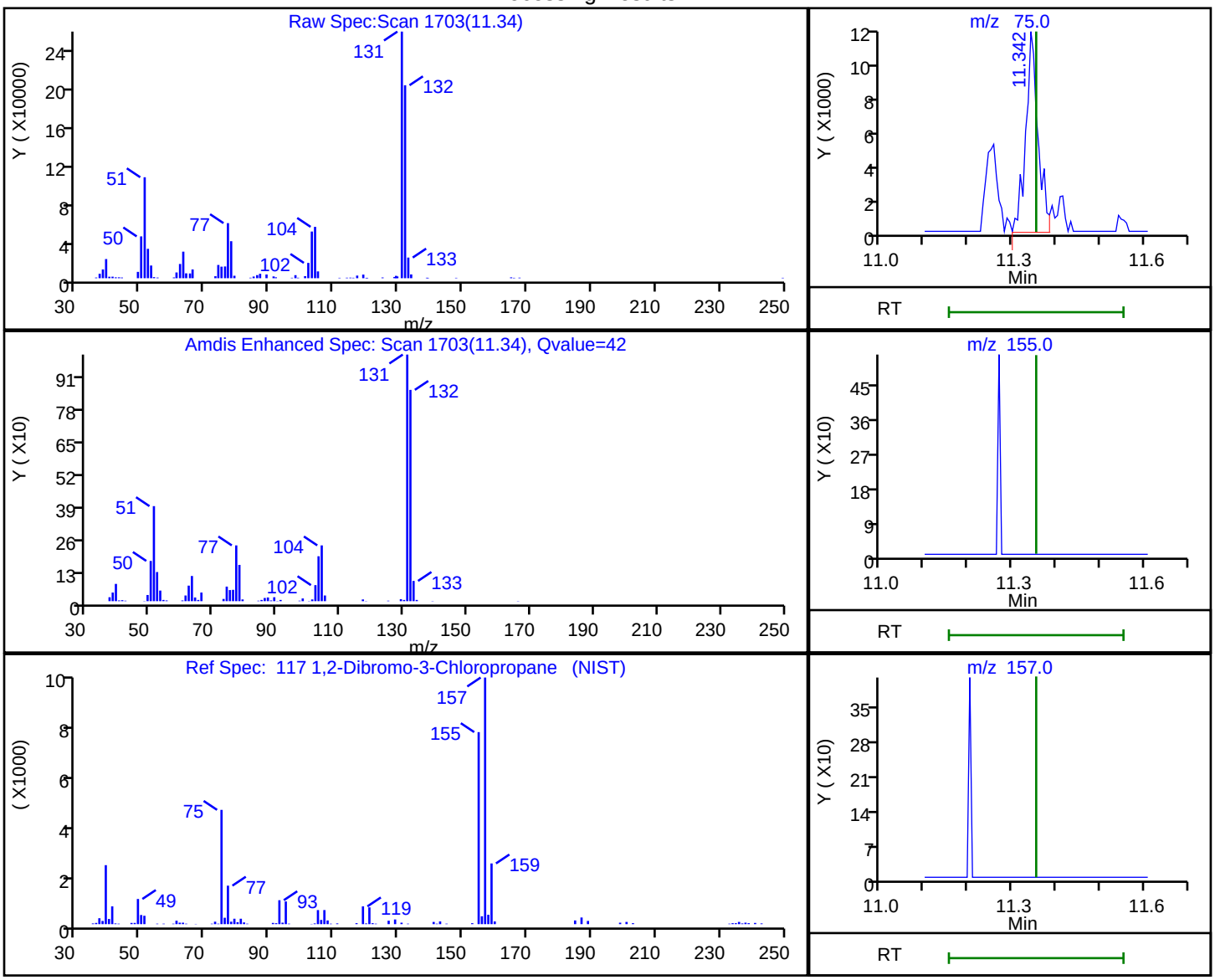
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d				
Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-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
11.34	75.00	23158	12.303121
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 15:54:32 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

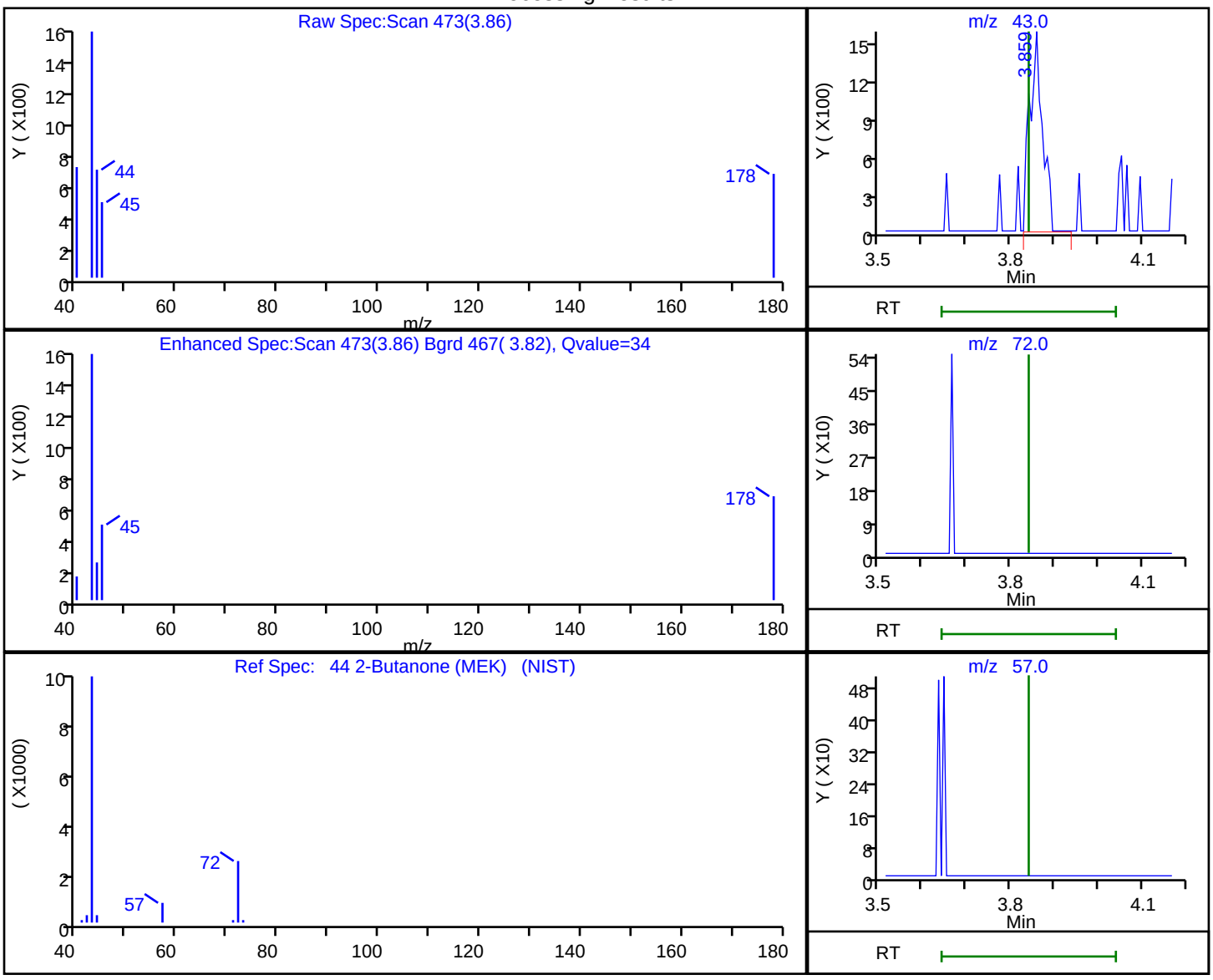
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d				
Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
3.86	43.00	3265	0.384277
3.84	72.00	0	
3.84	57.00	0	

Reviewer: HF3K, 31-Oct-2024 15:53:29 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

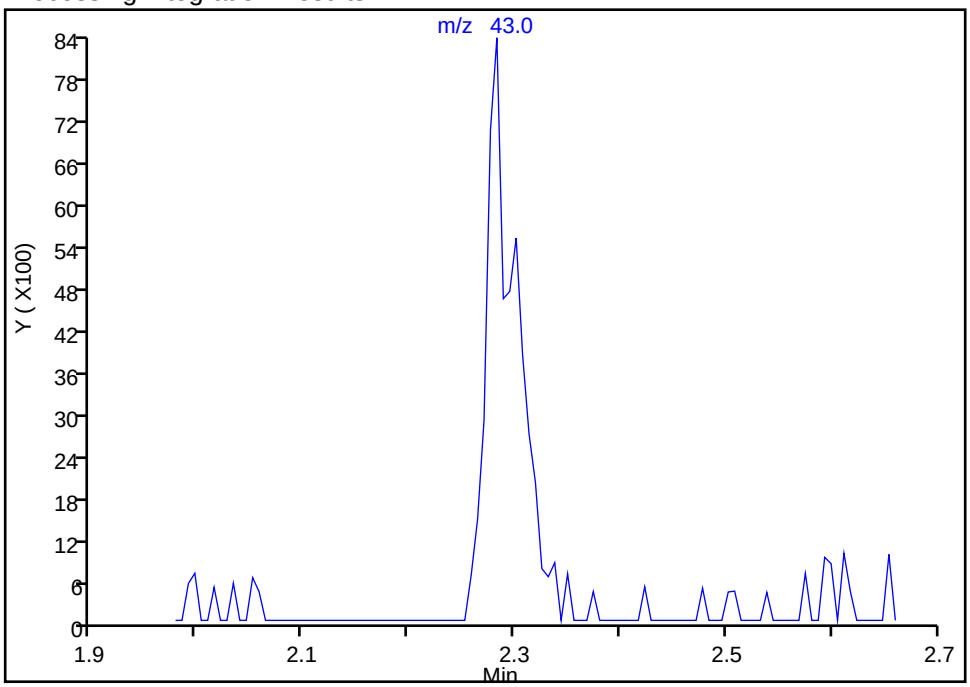
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d				
Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

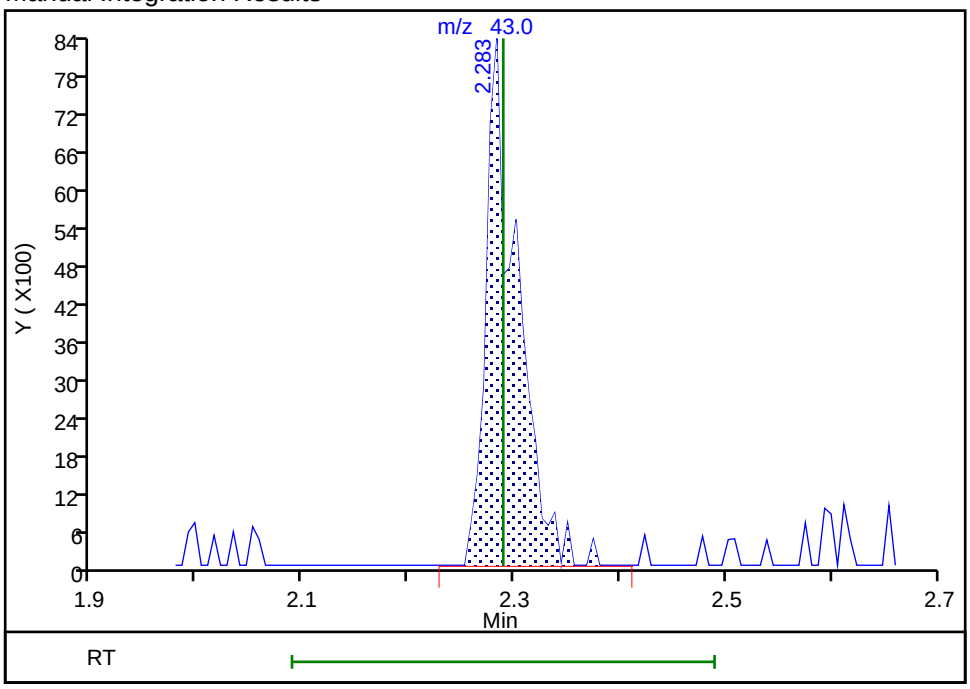
Not Detected
Expected RT: 2.29

Processing Integration Results



Manual Integration Results

RT: 2.28
Area: 17193
Amount: 3.305175
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:53:18 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

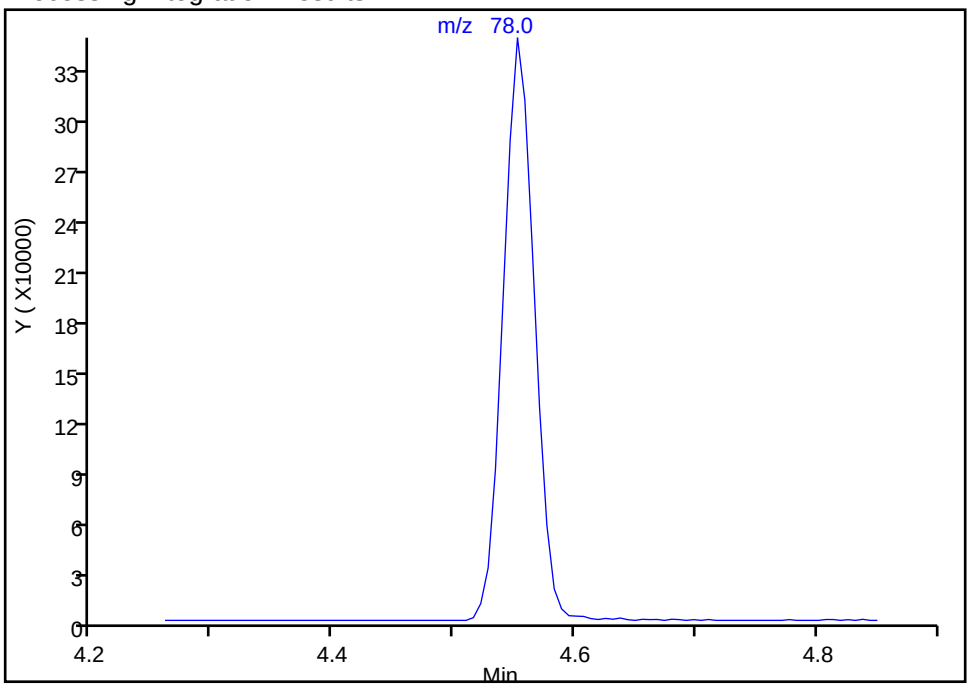
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d				
Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2

Signal: 1

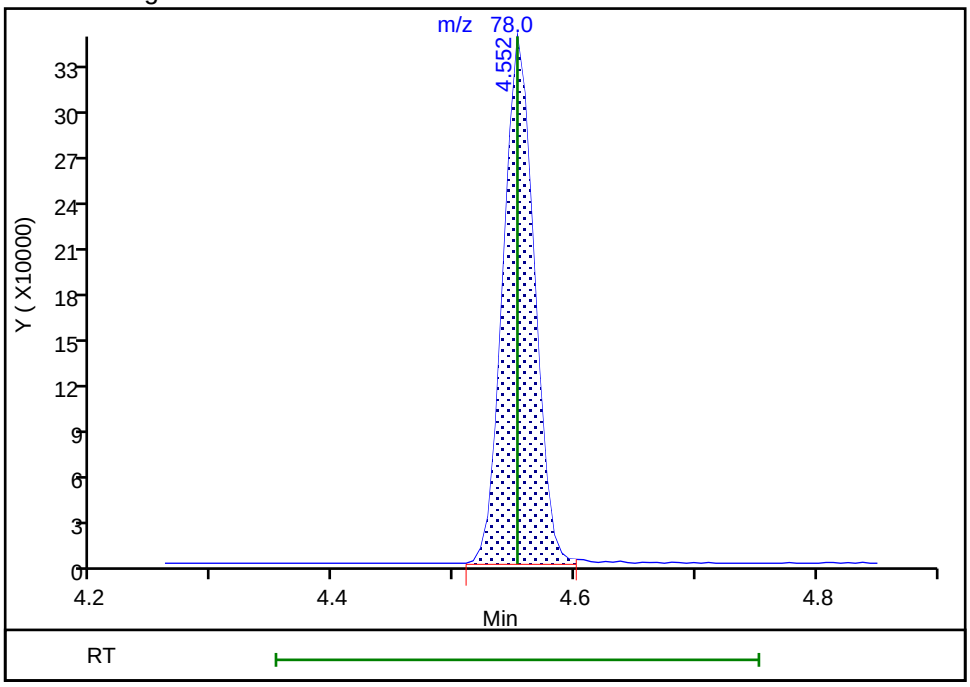
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 609688
Amount: 26.312118
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:53:40 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

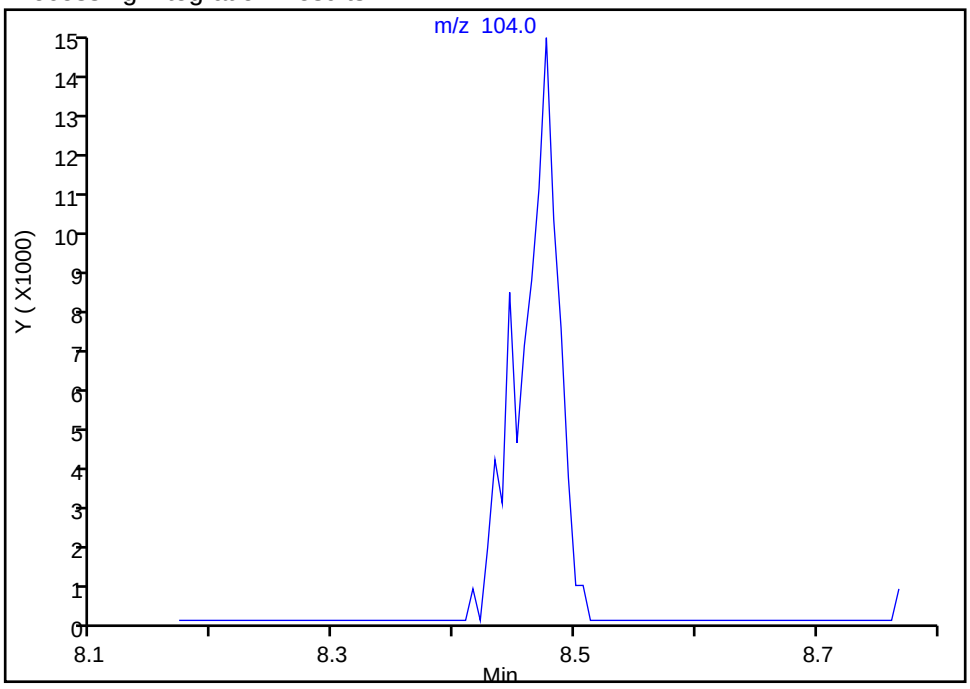
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1252.d				
Injection Date:	31-Oct-2024 07:08:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-10	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	AD	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

92 Styrene, CAS: 100-42-5

Signal: 1

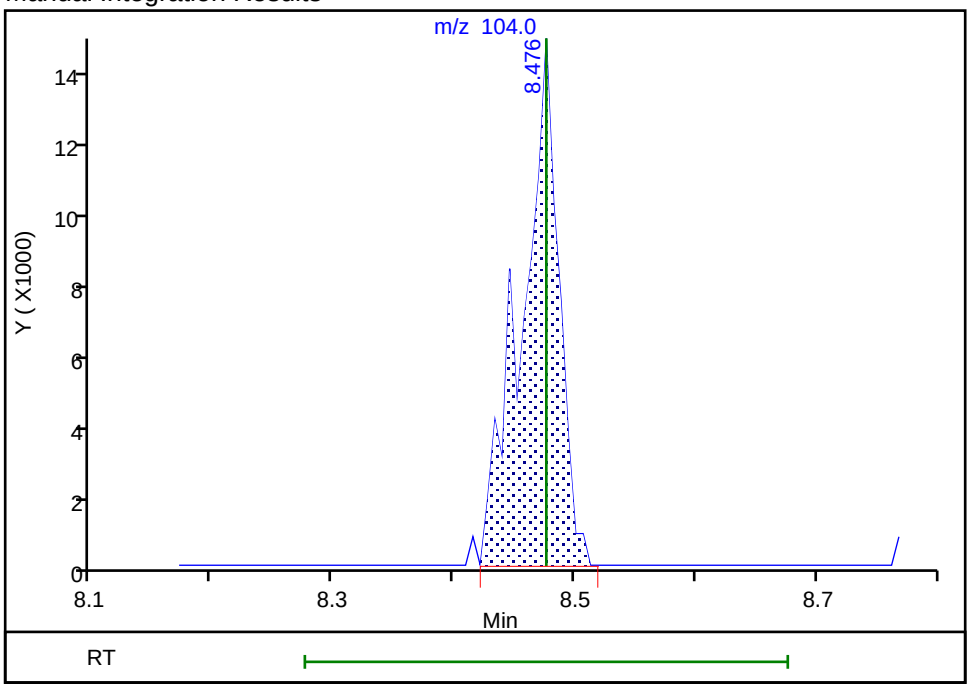
Not Detected
Expected RT: 8.48

Processing Integration Results



Manual Integration Results

RT: 8.48
Area: 29869
Amount: 1.791431
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:54:20 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-24A-10252024 | Lab Sample ID: 480-224869-11

Matrix: Water | Lab File ID: N1253.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 07:31

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-24A-10252024 | Lab Sample ID: 480-224869-11

Matrix: Water | Lab File ID: N1253.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 07:31

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	0.16	J	1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1253.d
Lims ID: 480-224869-G-11
Client ID: MW-BCP-24A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 07:31:30 ALS Bottle#: 53 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-11
Misc. Info.: 480-0120932-020
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:55:39 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:55:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	140060	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	471186	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	264604	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	90	156621	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.558	4.552	0.006	96	241228	25.5	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	96	543406	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	86	184964	27.2	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.295	2.283	0.006	30	4239	0.8343	
25 Carbon disulfide	76		2.350				ND	
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.654	2.654	0.000	83	2781	0.3307	Ma
32 Methyl tert-butyl ether	73	2.849	2.849	0.000	19	3365	0.1623	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78		4.552				ND	
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	
73 Toluene	92		6.371				ND	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91		7.898				ND	
90 m-Xylene & p-Xylene	106		8.020				ND	
91 o-Xylene	106		8.440				ND	
92 Styrene	104		8.476				ND	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

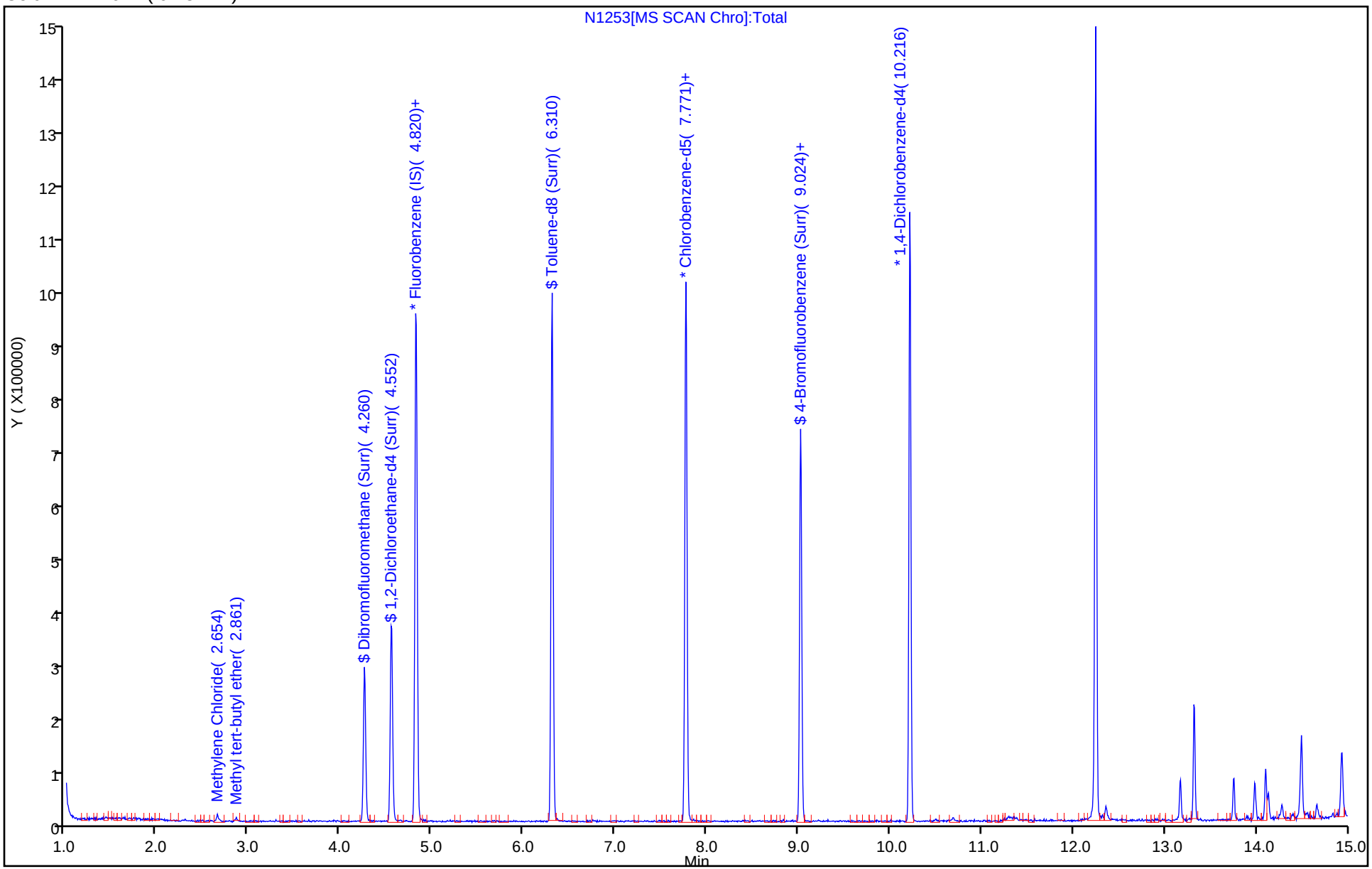
Report Date: 31-Oct-2024 15:55:39 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1253.d

Injection Date:	31-Oct-2024 07:31:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-11	Lab Sample ID:	480-224869-11	Worklist Smp#:	20
Client ID:	MW-BCP-24A-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	53
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1253.d
Lims ID: 480-224869-G-11
Client ID: MW-BCP-24A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 07:31:30 ALS Bottle#: 53 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-11
Misc. Info.: 480-0120932-020
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:55:39 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:55:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.6	98.44
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.5	101.92
$ 6 Toluene-d8 (Surr)	25.0	25.2	100.79
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.2	108.77

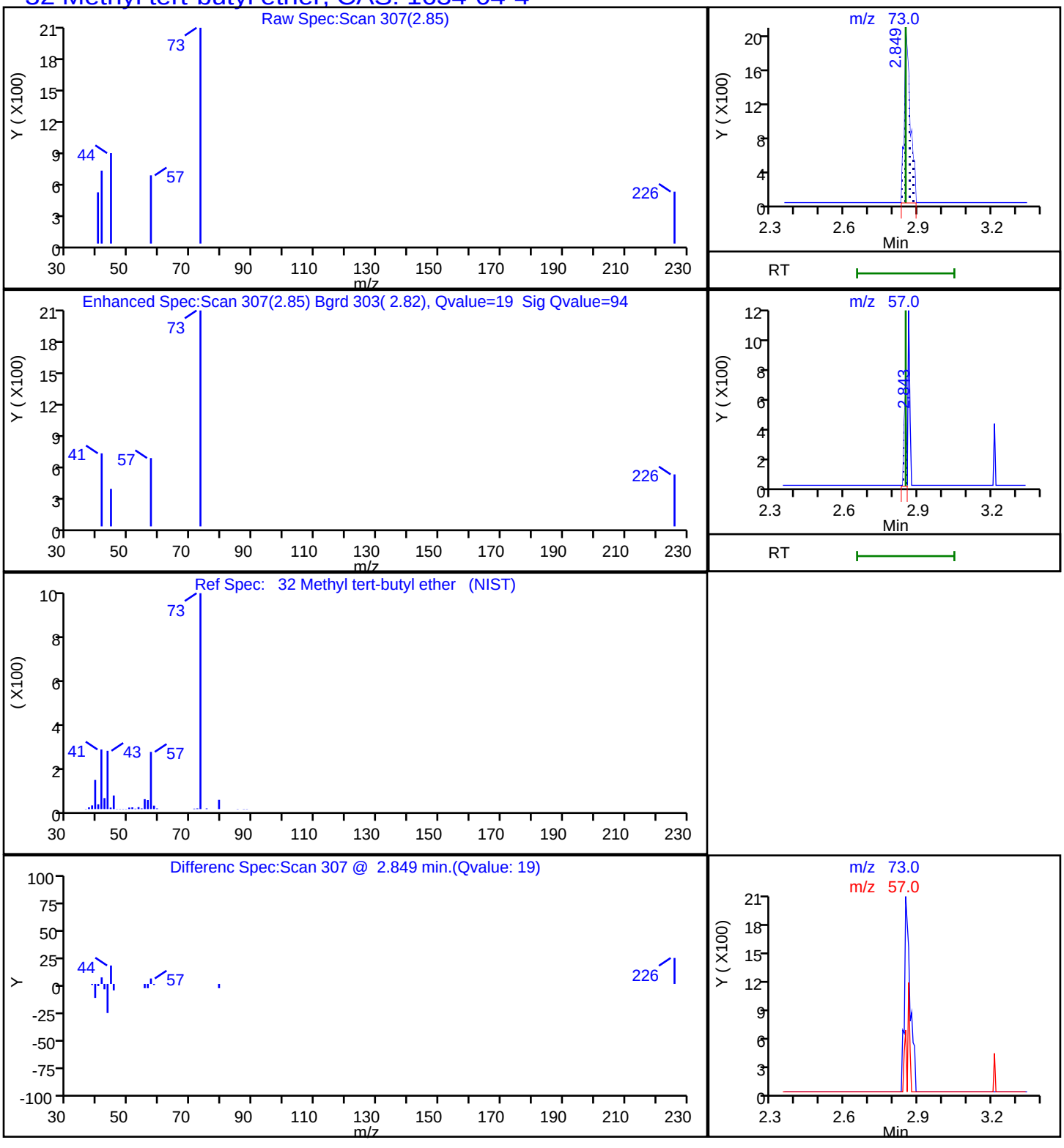
Report Date: 31-Oct-2024 15:55:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1253.d

Injection Date:	31-Oct-2024 07:31:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-11	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	AD	ALS Bottle#:	53	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

32 Methyl tert-butyl ether, CAS: 1634-04-4



Manual Integration/User Assign Peak Report

Eurofins Buffalo

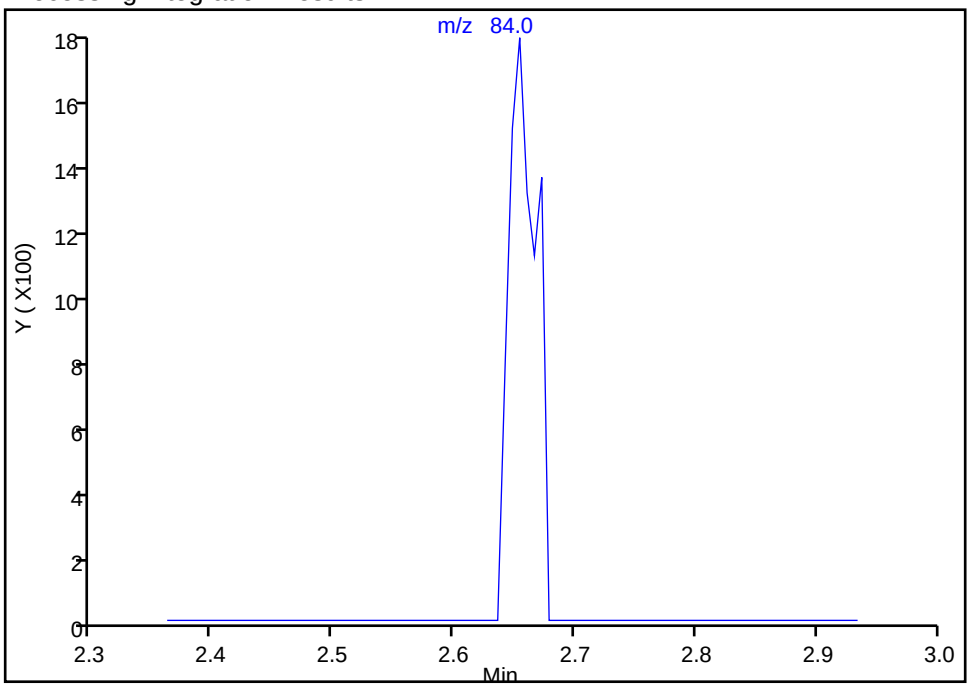
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1253.d				
Injection Date:	31-Oct-2024 07:31:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-11	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	AD	ALS Bottle#:	53	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

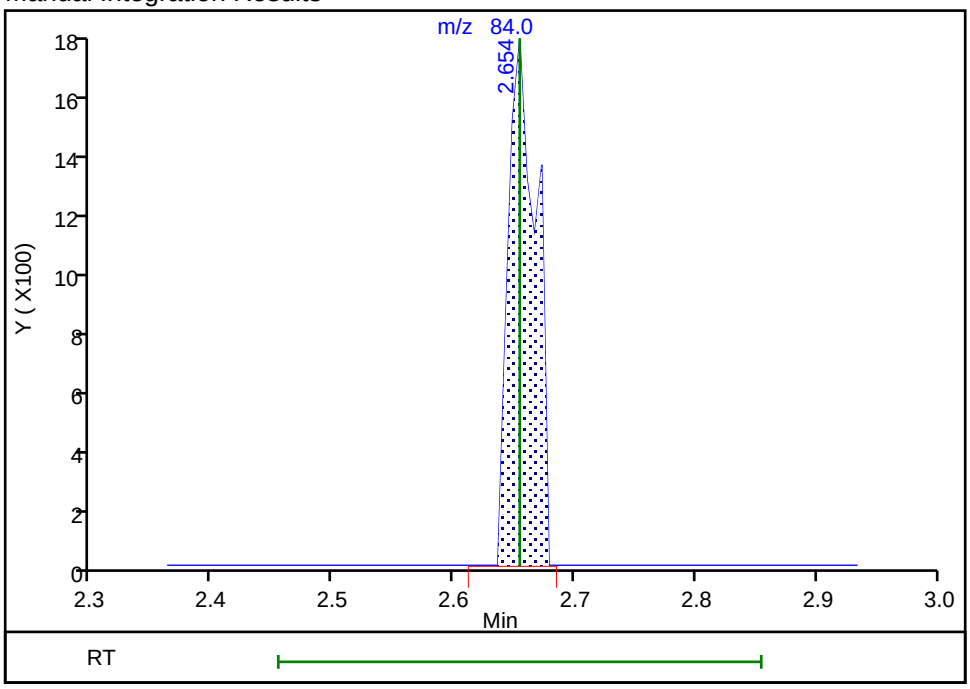
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.65
Area: 2781
Amount: 0.330723
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:55:21 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-25A-10252024 | Lab Sample ID: 480-224869-12

Matrix: Water | Lab File ID: N1254.d

Analysis Method: 8260C | Date Collected: 10/25/2024 02:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 07:54

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-25A-10252024 | Lab Sample ID: 480-224869-12

Matrix: Water | Lab File ID: N1254.d

Analysis Method: 8260C | Date Collected: 10/25/2024 02:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 07:54

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.46	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d
Lims ID: 480-224869-G-12
Client ID: MW-BCP-25A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 07:54:30 ALS Bottle#: 54 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-12
Misc. Info.: 480-0120932-021
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:56:35 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:56:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	96	139577	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	461209	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	94	266619	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	154567	24.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	239370	25.4	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	96	540754	25.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	86	178561	26.8	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.289	2.289	0.000	80	14228	2.81	a
25 Carbon disulfide	76		2.350				ND	7
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.648	2.648	-0.006	84	3511	0.4591	a
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78		4.552				ND	
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	U
73 Toluene	92		6.371				ND	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91		7.898				ND	
90 m-Xylene & p-Xylene	106		8.020				ND	
91 o-Xylene	106		8.440				ND	
92 Styrene	104		8.476				ND	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	7
113 1,4-Dichlorobenzene	146		10.240				ND	7
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

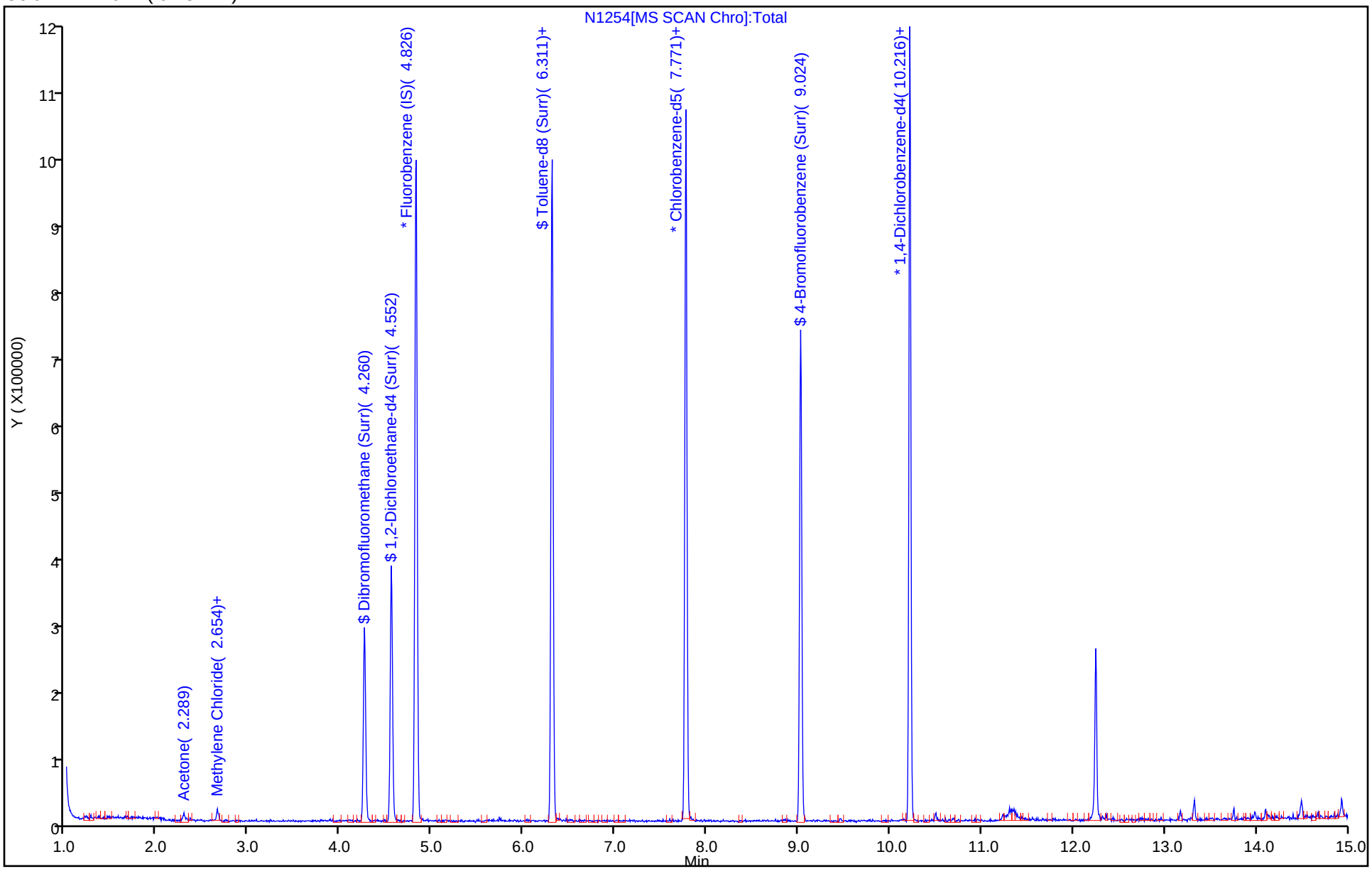
Report Date: 31-Oct-2024 15:56:35 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d

Injection Date:	31-Oct-2024 07:54:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-12	Lab Sample ID:	480-224869-12	Worklist Smp#:	21
Client ID:	MW-BCP-25A-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	54
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d
Lims ID: 480-224869-G-12
Client ID: MW-BCP-25A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 07:54:30 ALS Bottle#: 54 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-12
Misc. Info.: 480-0120932-021
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:56:35 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:56:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.4	97.48
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.4	101.48
$ 6 Toluene-d8 (Surr)	25.0	25.6	102.46
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.8	107.28

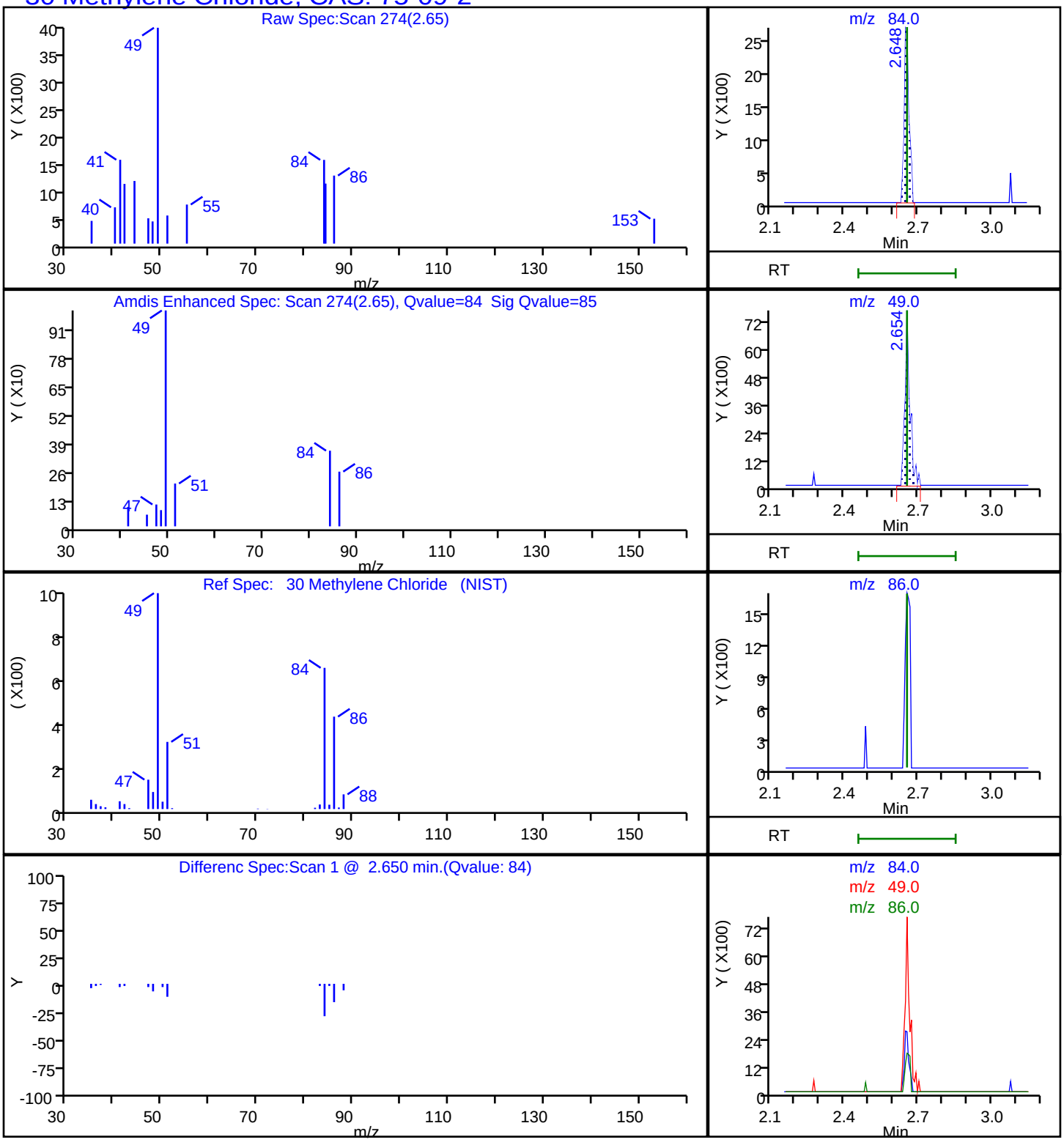
Report Date: 31-Oct-2024 15:56:35 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d

Injection Date:	31-Oct-2024 07:54:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-12	Lab Sample ID:	480-224869-12
Client ID:	MW-BCP-25A-10252024		
Operator ID:	AD	ALS Bottle#:	54 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



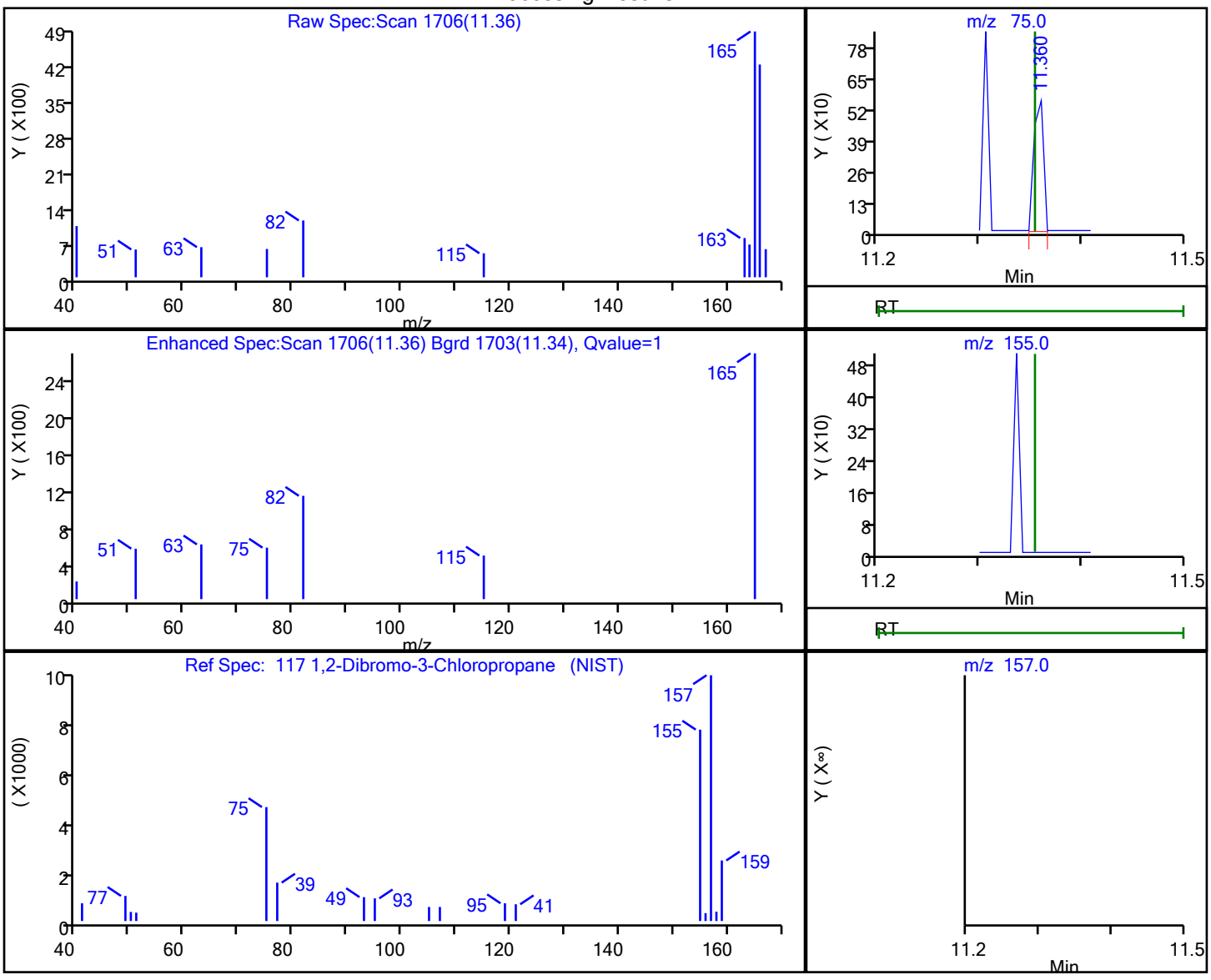
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d				
Injection Date:	31-Oct-2024 07:54:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-12	Lab Sample ID:	480-224869-12		
Client ID:	MW-BCP-25A-10252024				
Operator ID:	AD	ALS Bottle#:	54	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-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
11.36	75.00	368	0.197375
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 15:56:31 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

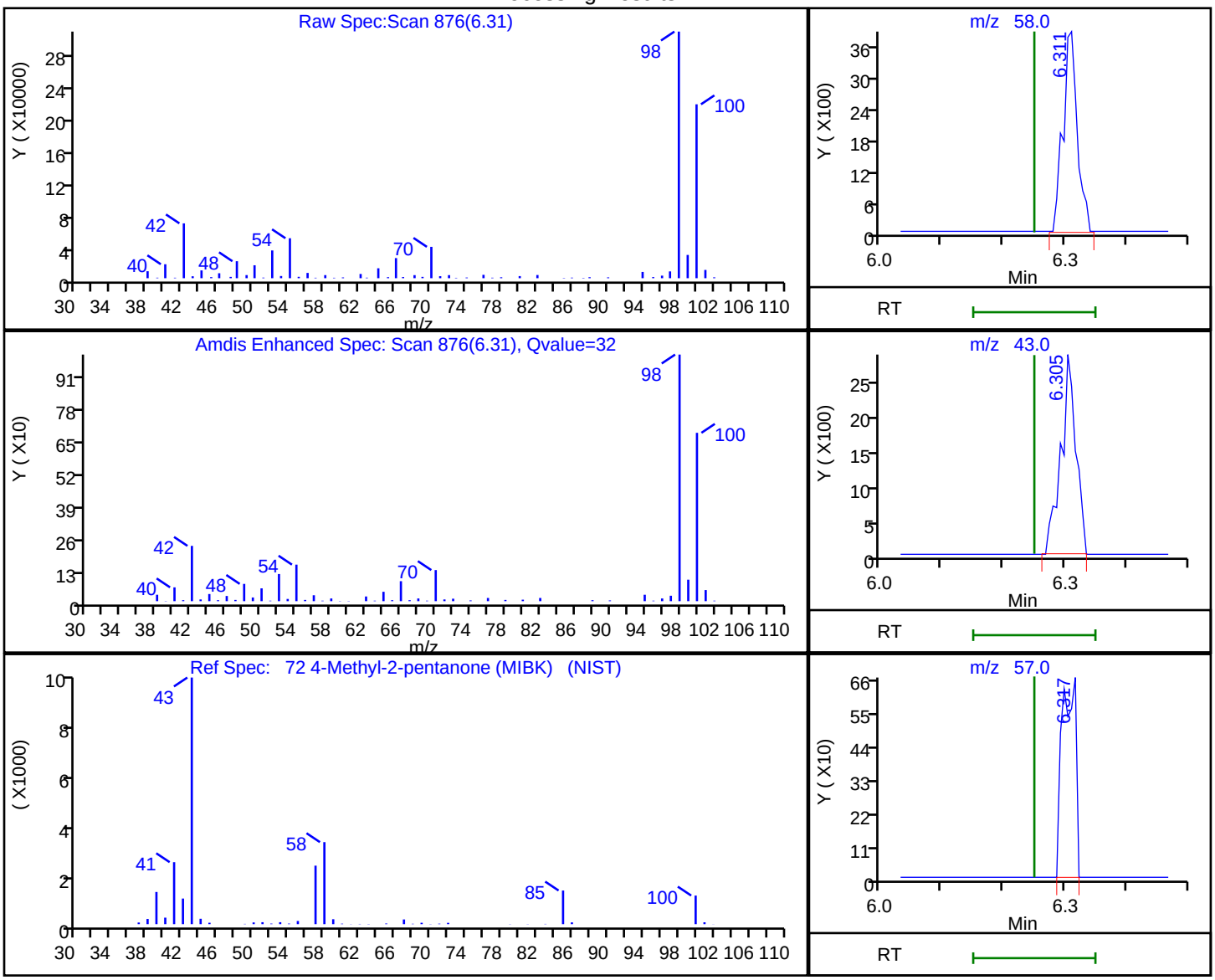
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d				
Injection Date:	31-Oct-2024 07:54:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-12	Lab Sample ID:	480-224869-12		
Client ID:	MW-BCP-25A-10252024				
Operator ID:	AD	ALS Bottle#:	54	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.31	58.00	6255	1.232588
6.30	43.00	4892	
6.32	57.00	1052	

Reviewer: HF3K, 31-Oct-2024 15:56:19 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

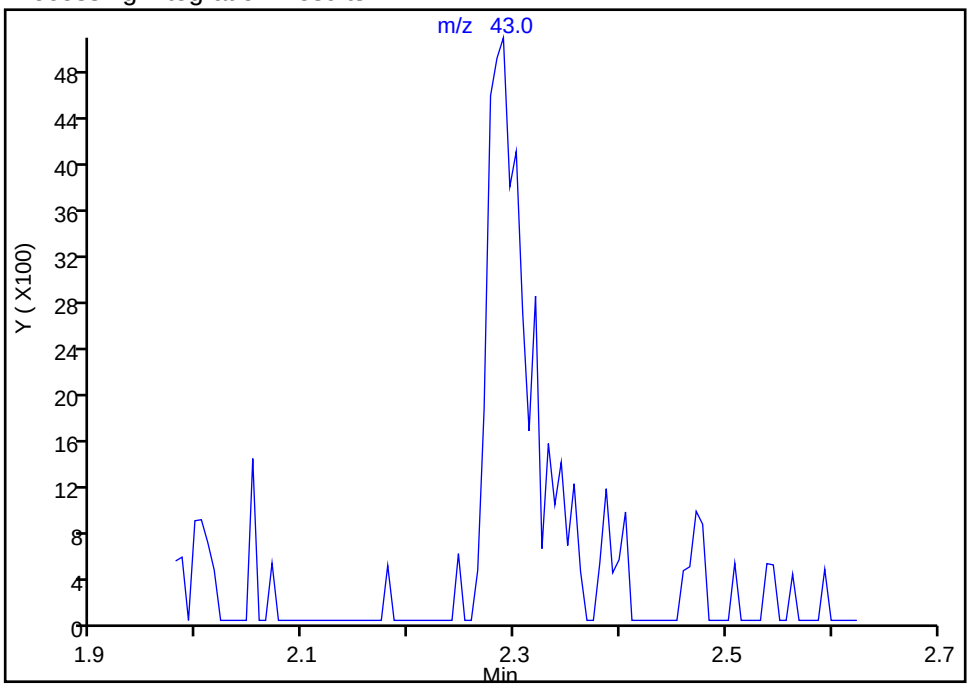
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d				
Injection Date:	31-Oct-2024 07:54:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-12	Lab Sample ID:	480-224869-12		
Client ID:	MW-BCP-25A-10252024				
Operator ID:	AD	ALS Bottle#:	54	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

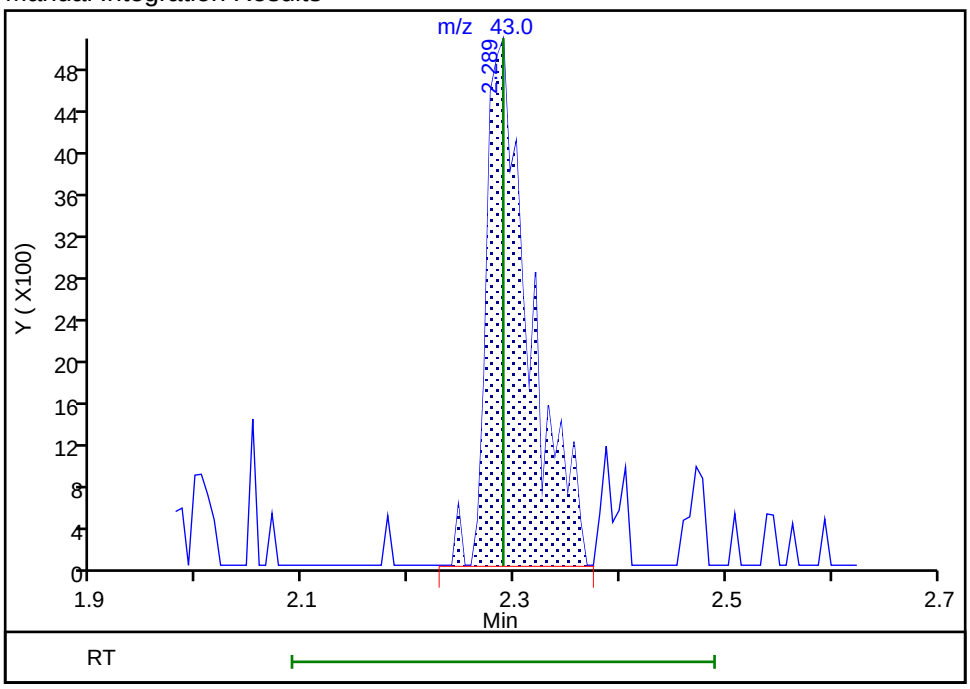
Not Detected
Expected RT: 2.29

Processing Integration Results



Manual Integration Results

RT: 2.29
Area: 14228
Amount: 2.809905
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:55:56 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

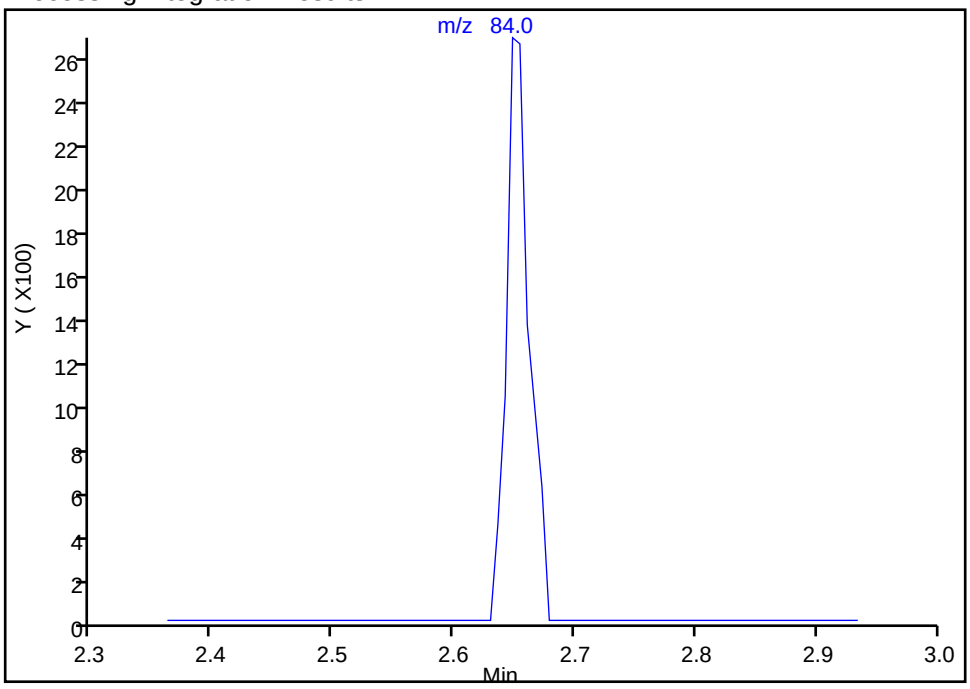
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1254.d				
Injection Date:	31-Oct-2024 07:54:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-12	Lab Sample ID:	480-224869-12		
Client ID:	MW-BCP-25A-10252024				
Operator ID:	AD	ALS Bottle#:	54	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

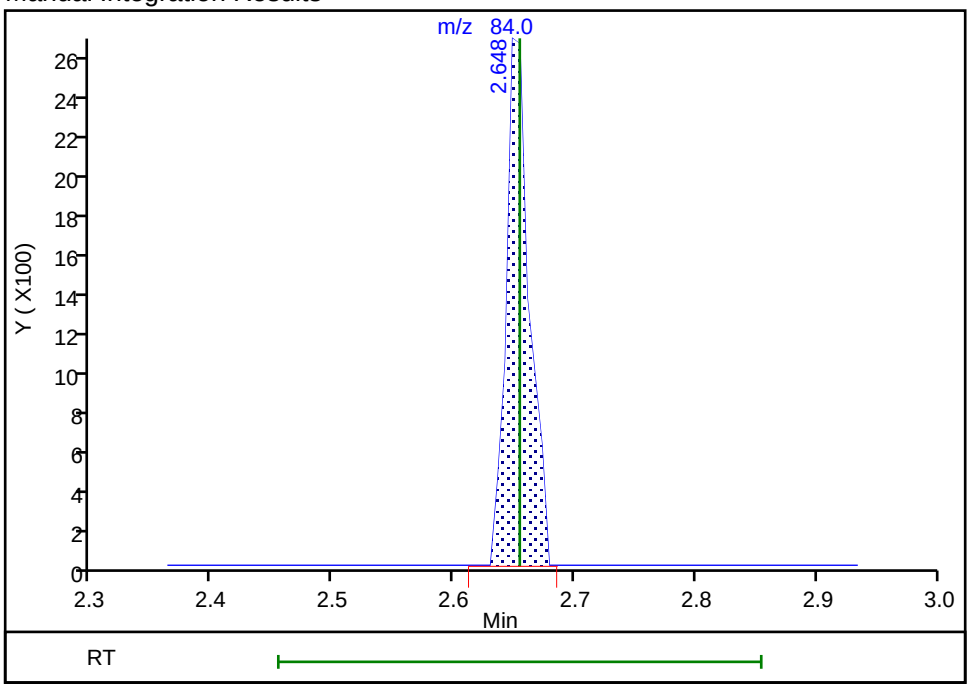
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.65
Area: 3511
Amount: 0.459071
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:56:04 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 | Lab Sample ID: 480-224869-13

Matrix: Water | Lab File ID: N1255.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 08:16

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	3.0		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	0.21	J	1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 | Lab Sample ID: 480-224869-13

Matrix: Water | Lab File ID: N1255.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 08:16

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	1.4		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	0.24	J	1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	2.4		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	6.0		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d
Lims ID: 480-224869-E-13
Client ID: MW-BCP-19B-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 08:16:30 ALS Bottle#: 55 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-E-13
Misc. Info.: 480-0120932-022
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:58:40 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:58:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	143533	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	481949	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	254741	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	156958	24.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	94	242057	24.9	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	95	542384	24.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	87	189797	27.3	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.295	2.289	0.006	97	9087	1.75	
25 Carbon disulfide	76	2.356	2.356	0.006	67	3665	0.2068	Ma
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.660	2.660	0.006	86	2516	0.2744	a
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	7
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78	4.552	4.552	0.000	52	70337	3.03	a
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.258	5.258	-0.012	81	2326	0.2386	Ma
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	
73 Toluene	92	6.377	6.365	0.006	98	30970	2.35	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91	7.904	7.898	0.006	98	35188	1.40	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	97	23961	2.43	
91 o-Xylene	106	8.446	8.434	0.006	97	35797	3.62	
92 Styrene	104	8.470	8.470	-0.006	1	3146	0.1955	a
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105	8.835	8.835	0.006	92	8606	0.3410	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	7
113 1,4-Dichlorobenzene	146		10.240				ND	7
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1				0		6.05	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

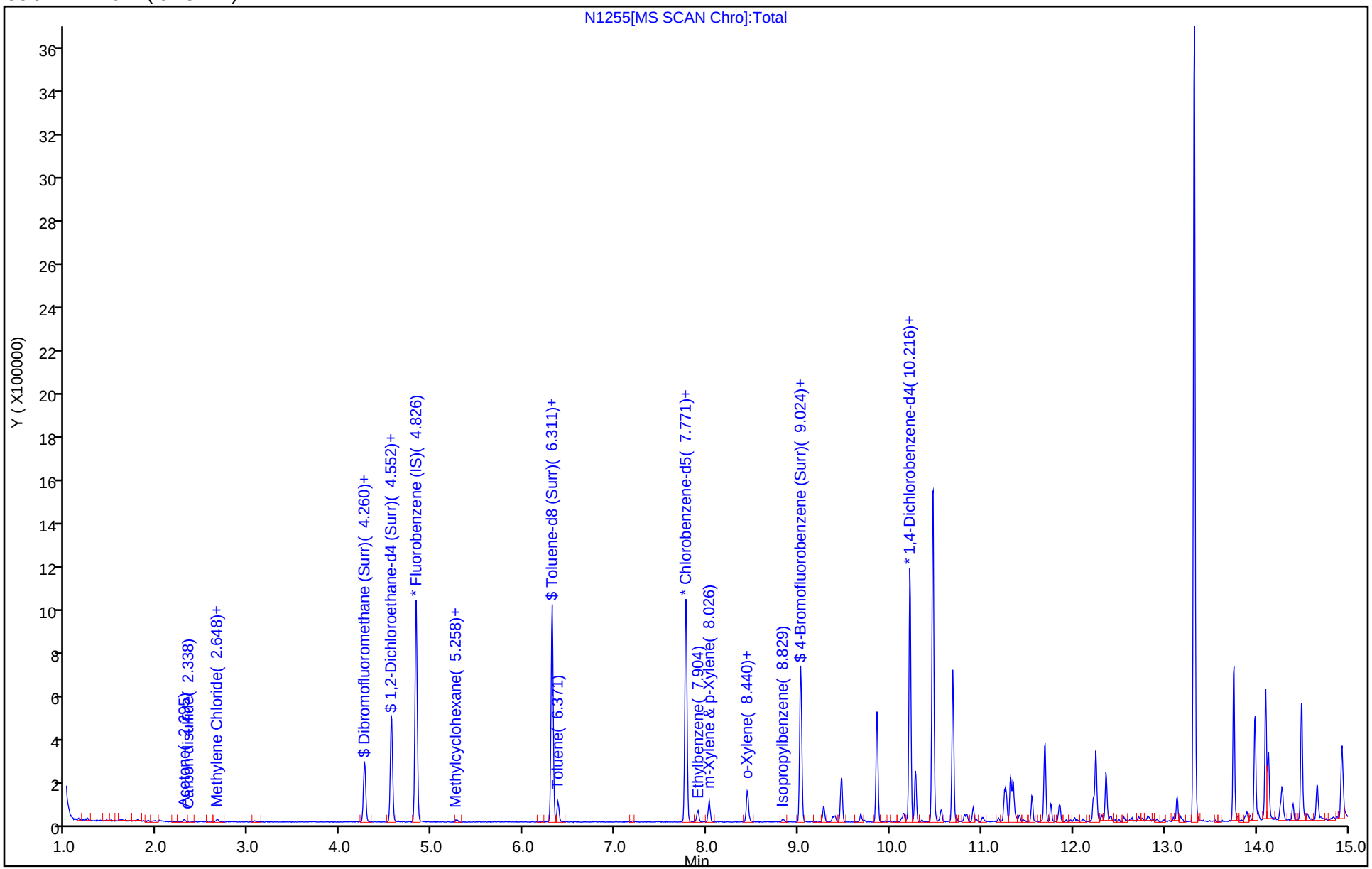
Report Date: 31-Oct-2024 15:58:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13	Worklist Smp#:	22
Client ID:	MW-BCP-19B-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	55
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d
Lims ID: 480-224869-E-13
Client ID: MW-BCP-19B-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 08:16:30 ALS Bottle#: 55 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-E-13
Misc. Info.: 480-0120932-022
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:58:40 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:58:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.1	96.26
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.9	99.79
$ 6 Toluene-d8 (Surr)	25.0	24.6	98.35
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.3	109.12

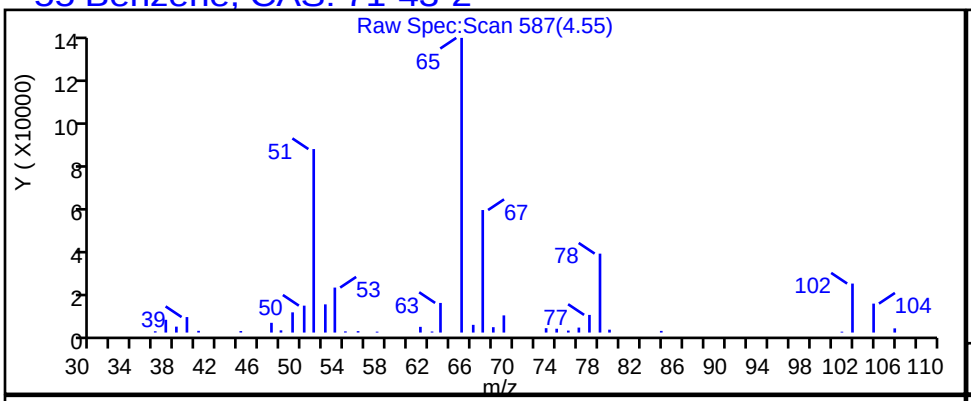
Report Date: 31-Oct-2024 15:58:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

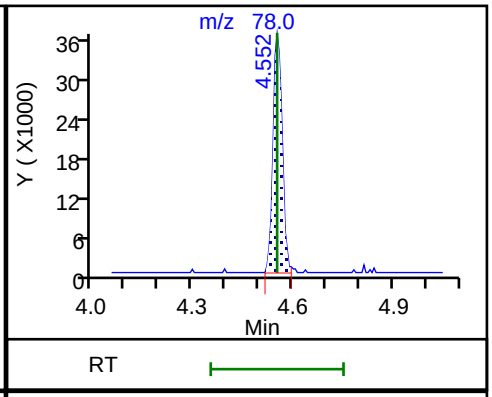
Eurofins Buffalo

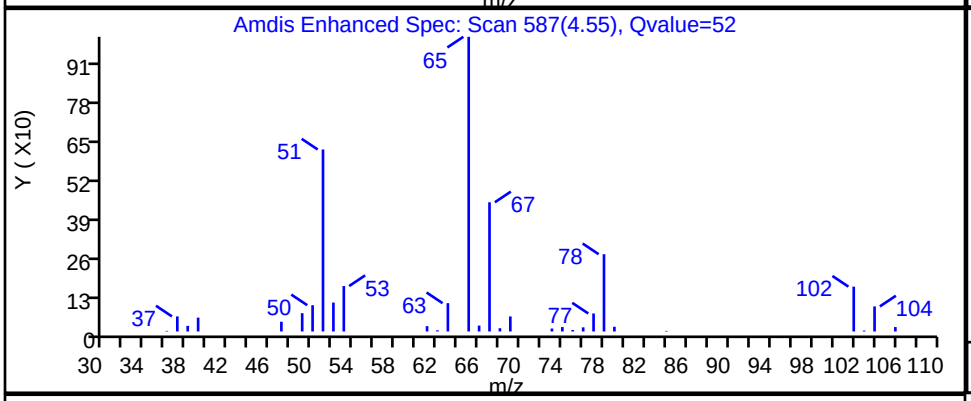
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

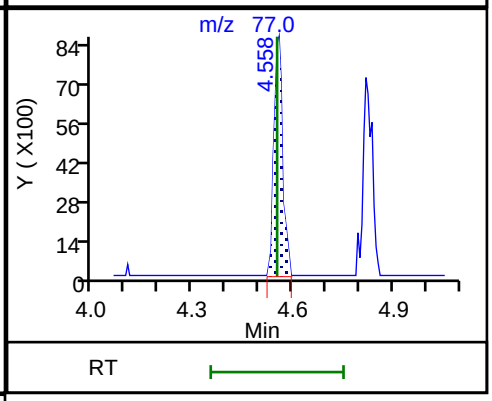
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

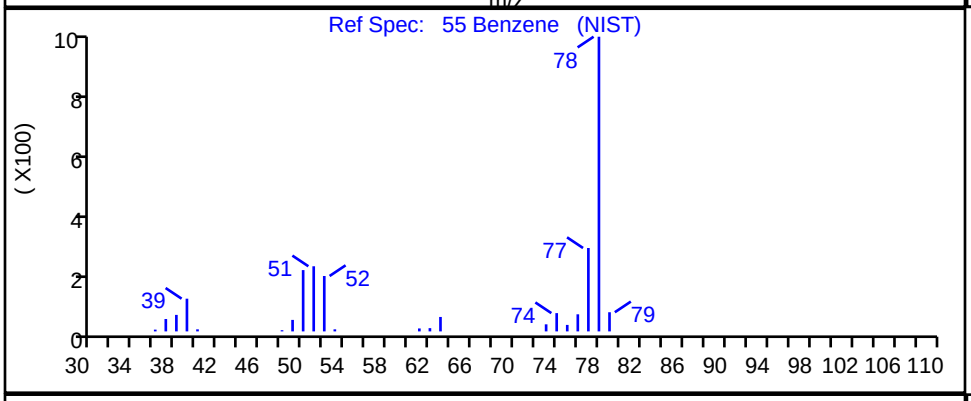
55 Benzene, CAS: 71-43-2

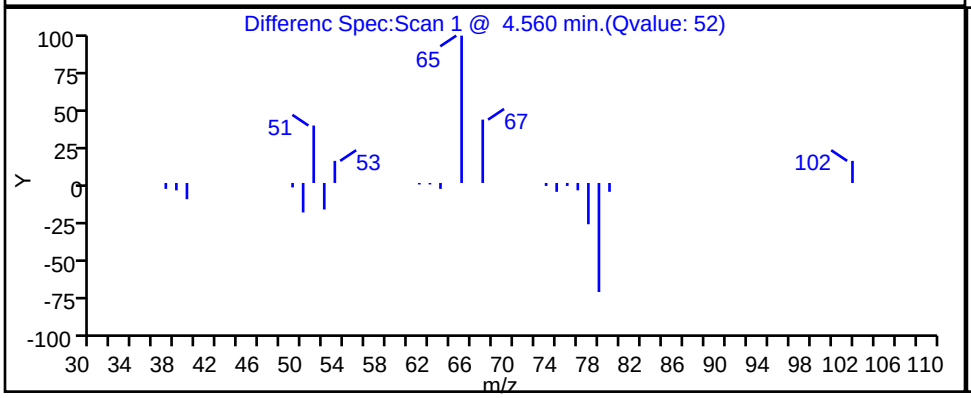


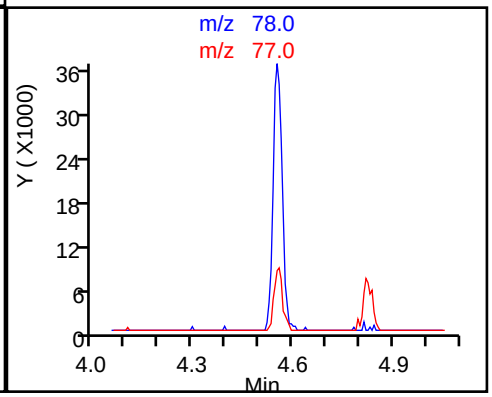










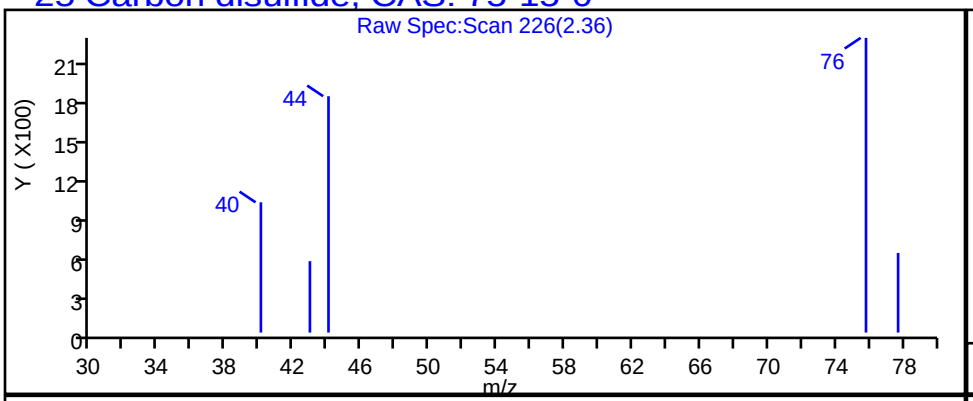


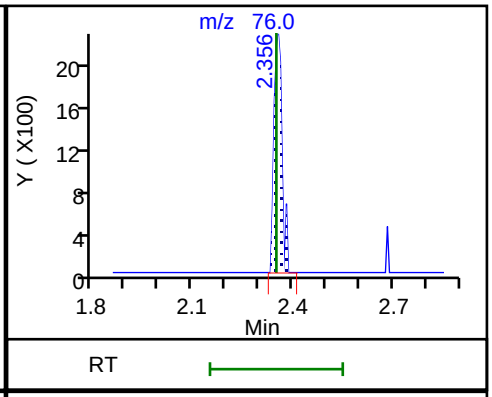
Eurofins Buffalo

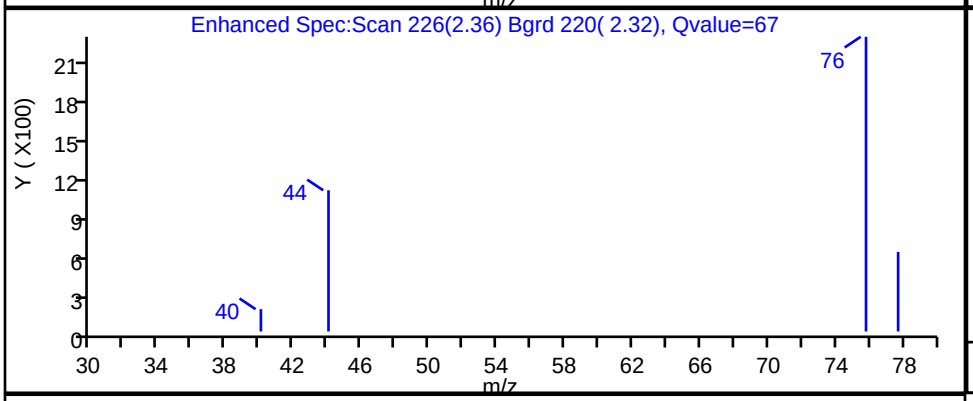
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

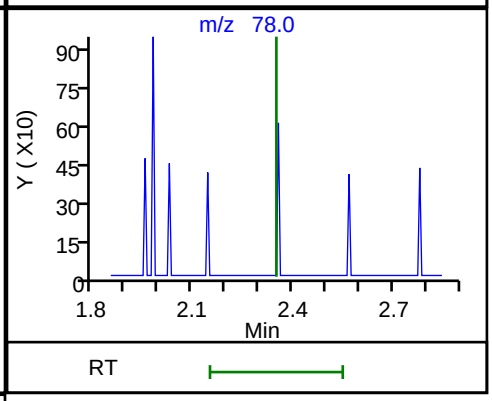
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

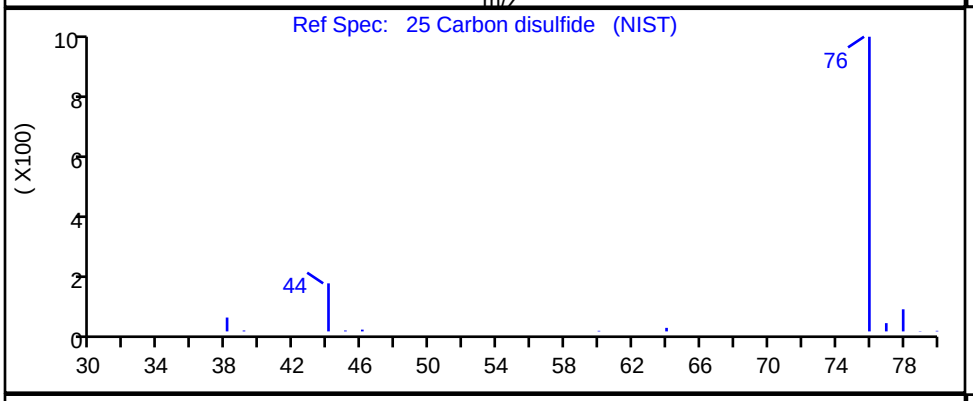
25 Carbon disulfide, CAS: 75-15-0

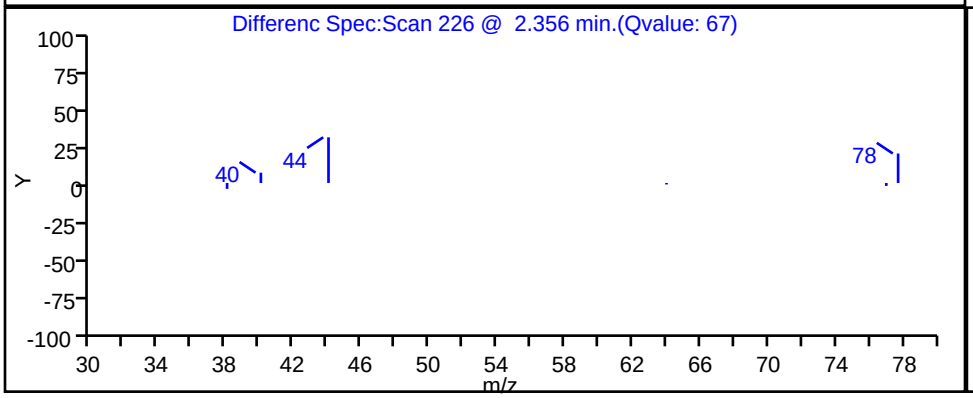


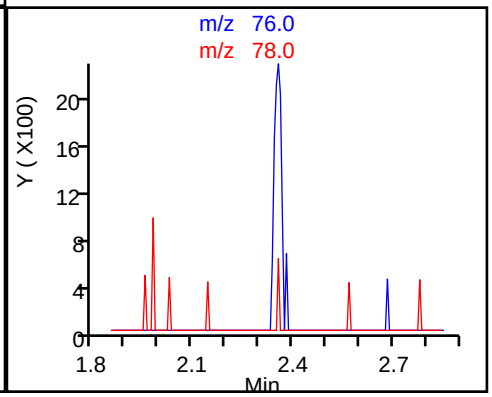












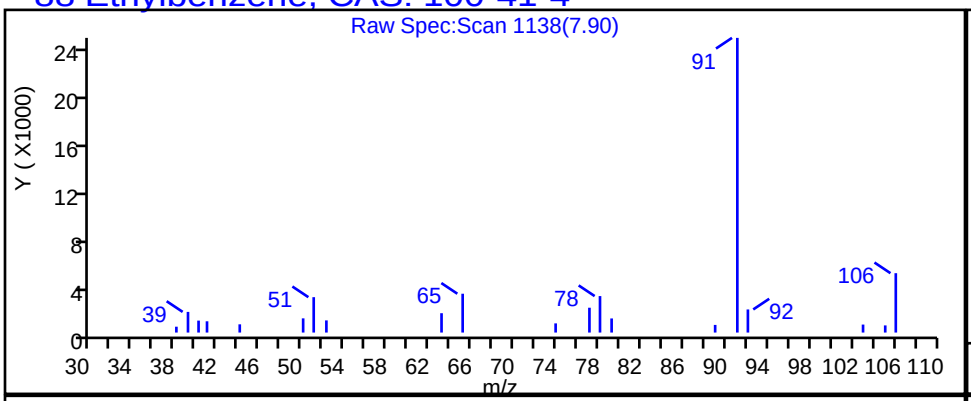
Report Date: 31-Oct-2024 15:58:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

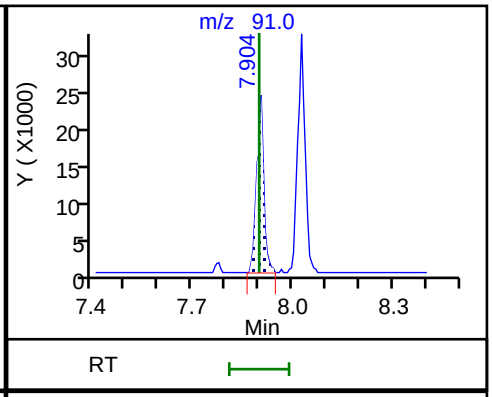
Eurofins Buffalo

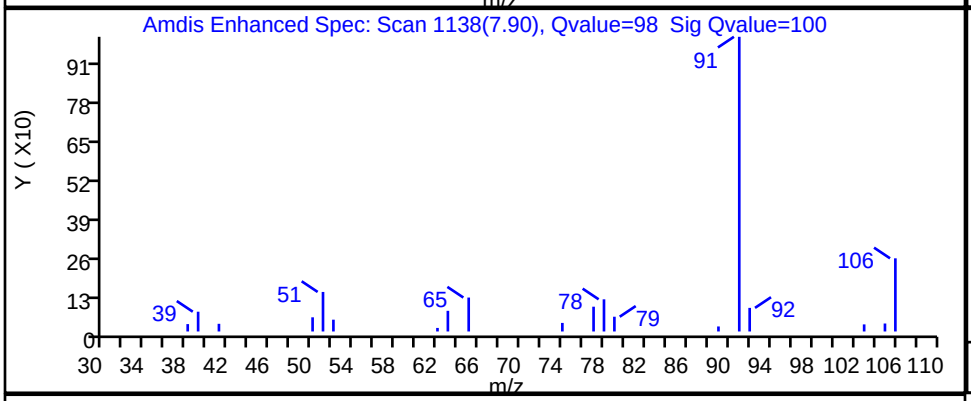
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

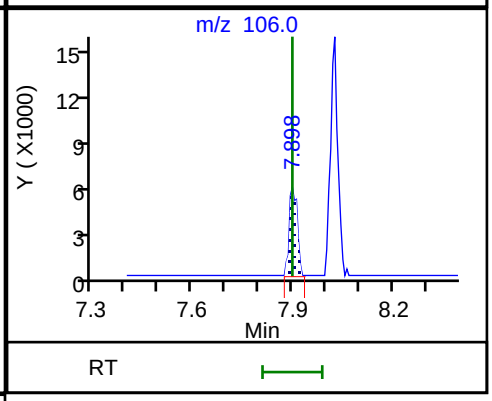
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

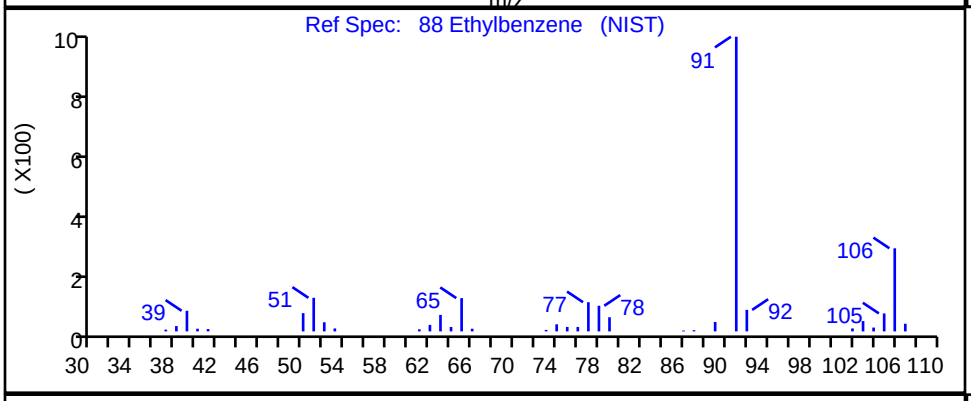
88 Ethylbenzene, CAS: 100-41-4

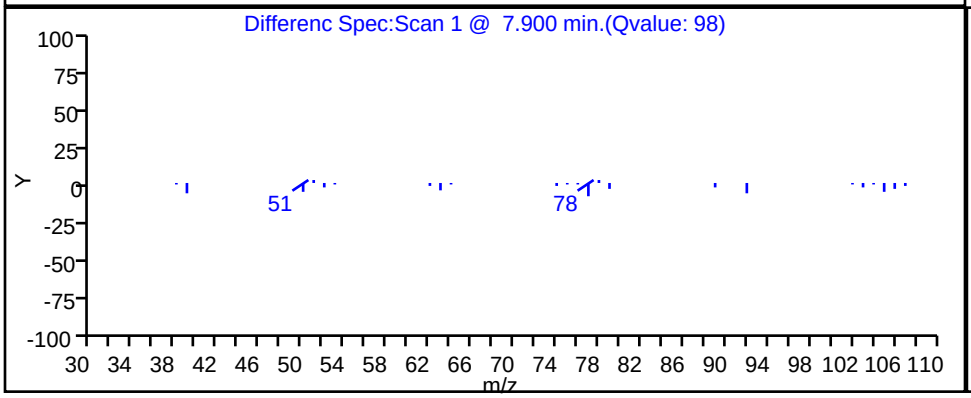


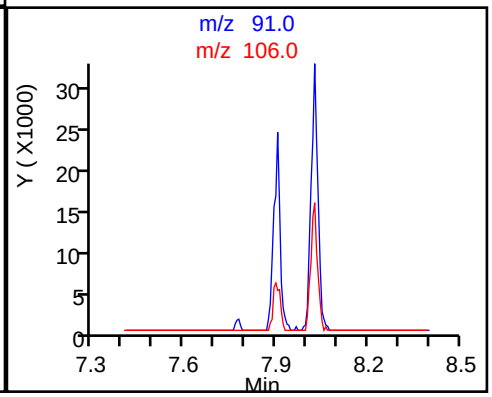












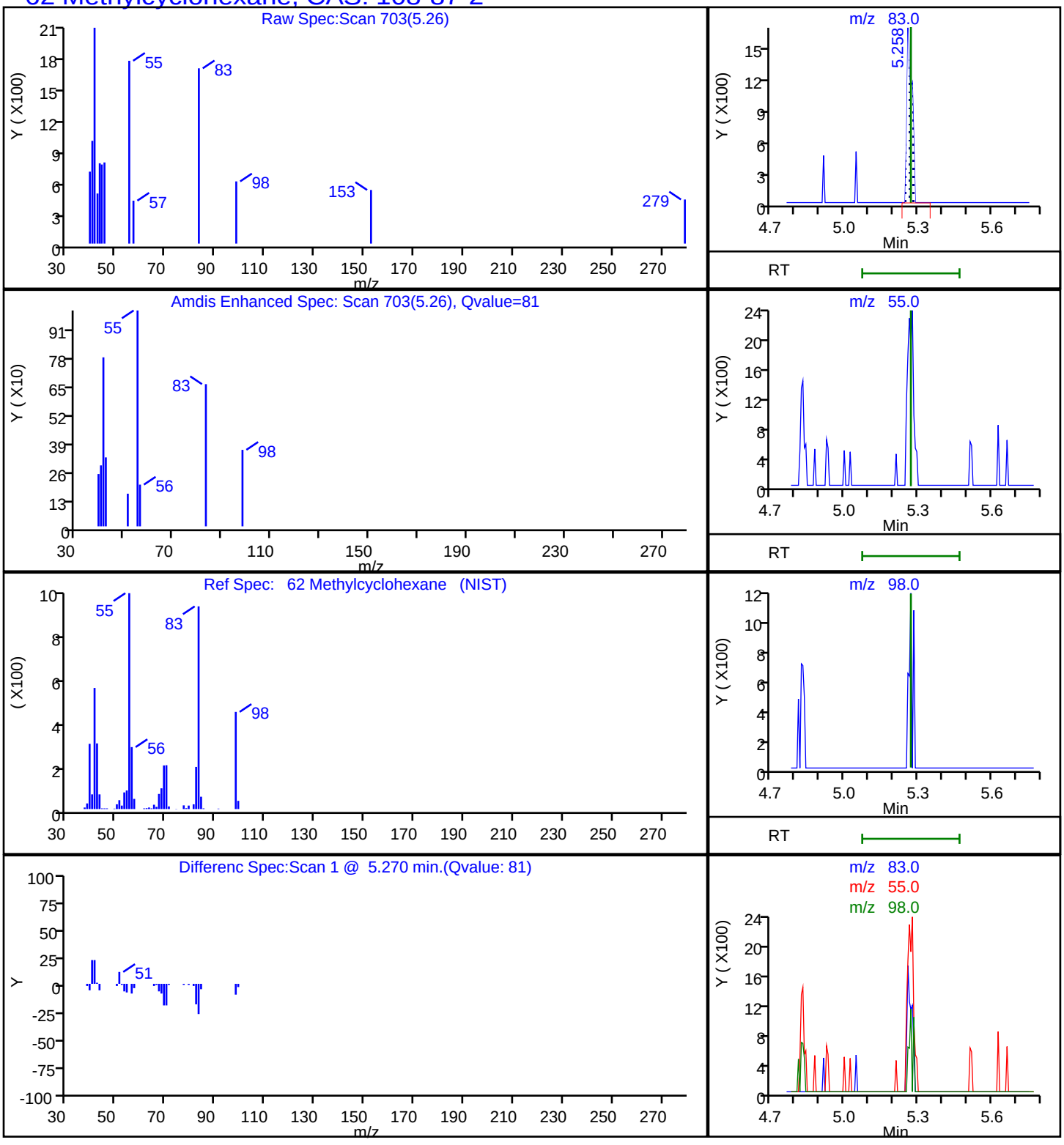
Report Date: 31-Oct-2024 15:58:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Methylcyclohexane, CAS: 108-87-2



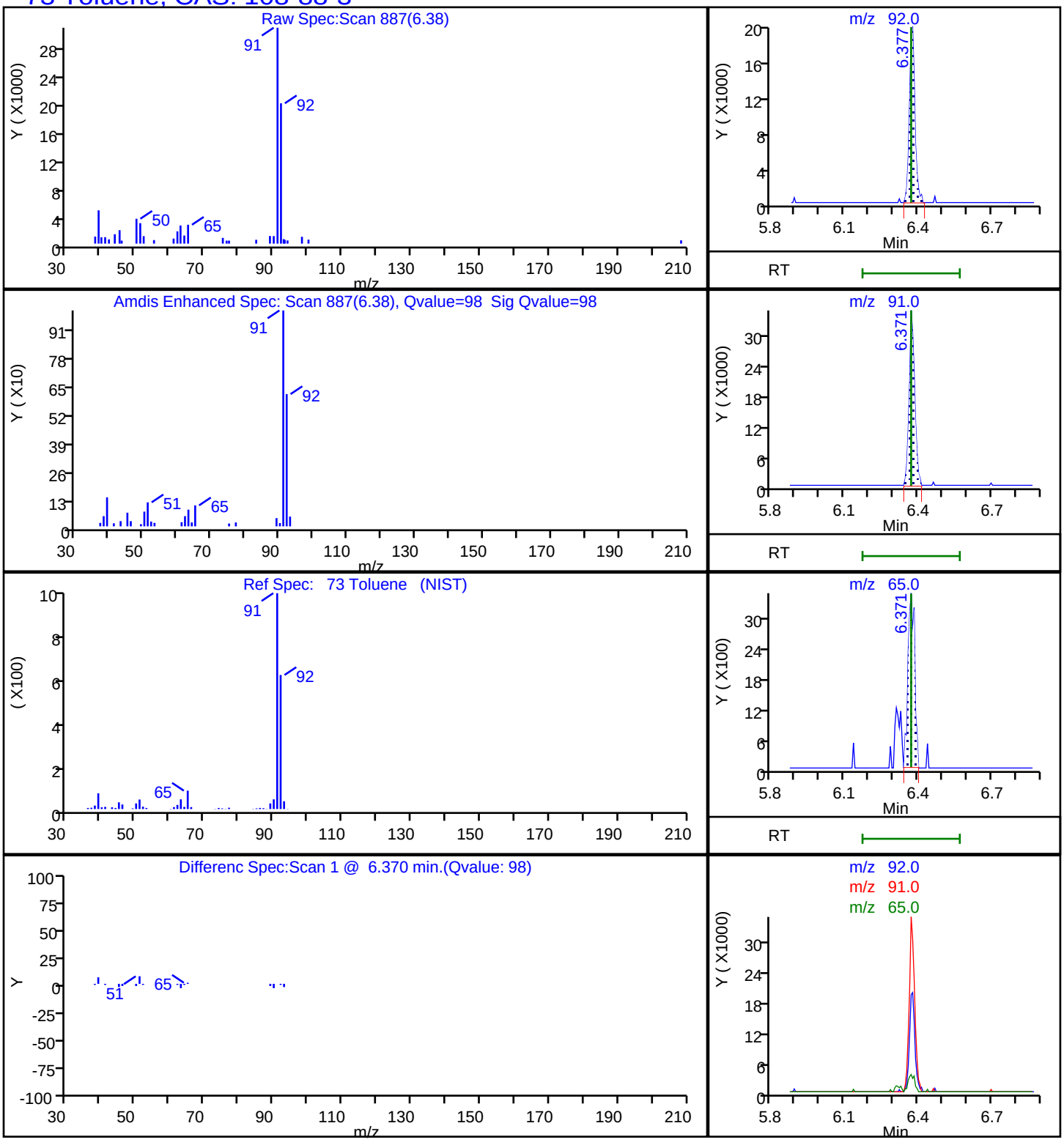
Report Date: 31-Oct-2024 15:58:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

73 Toluene, CAS: 108-88-3



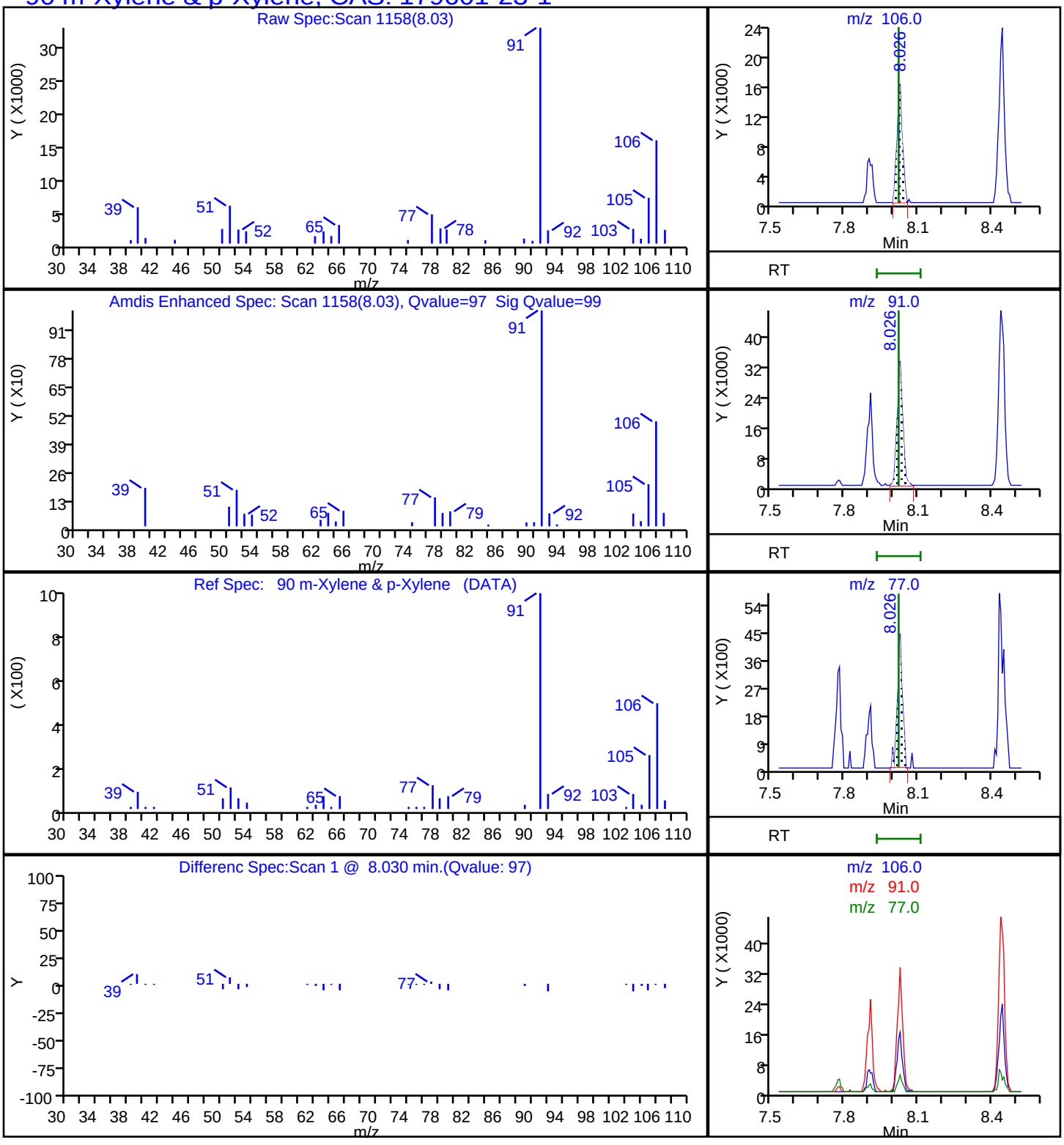
Report Date: 31-Oct-2024 15:58:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

90 m-Xylene & p-Xylene, CAS: 179601-23-1



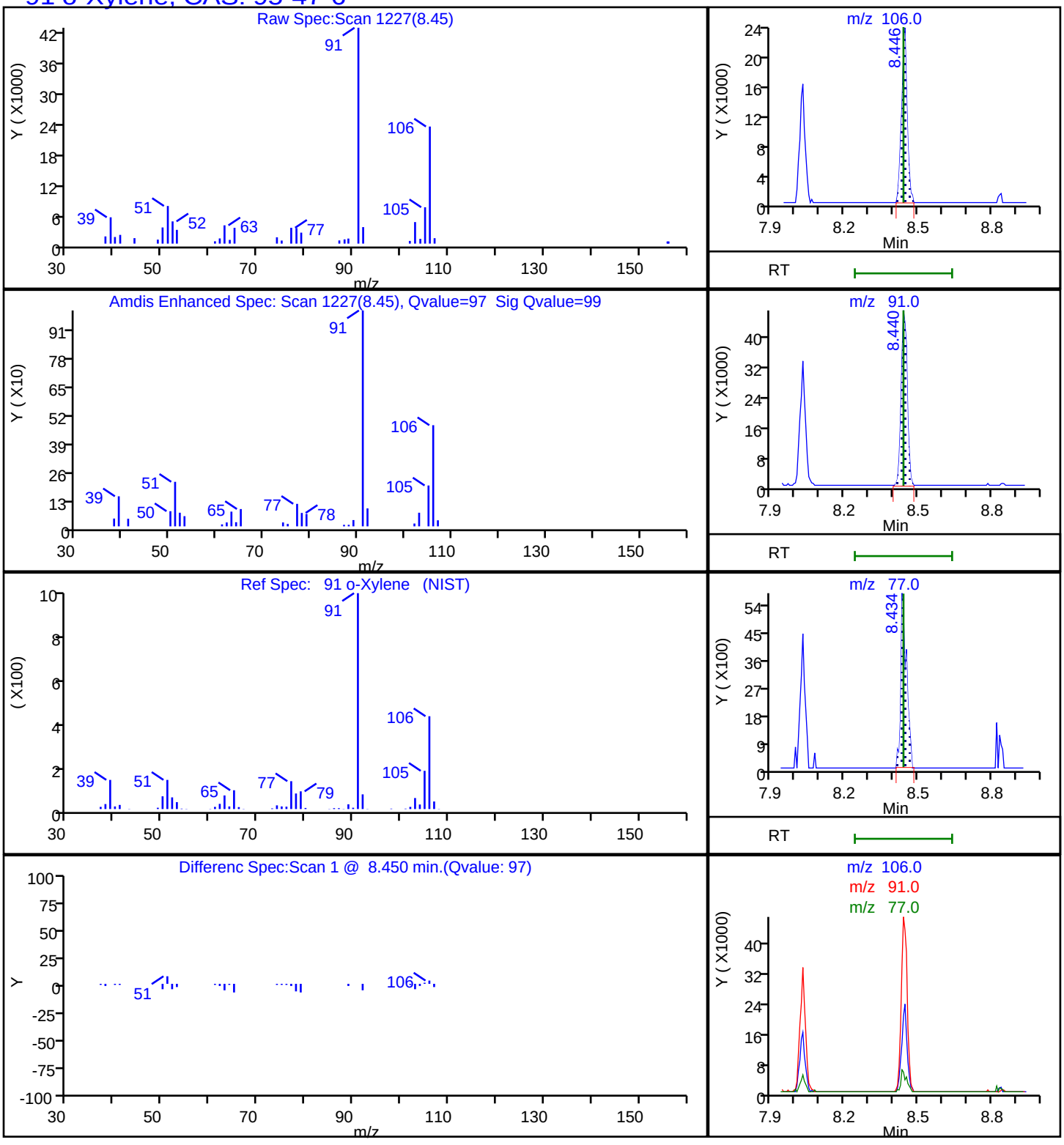
Report Date: 31-Oct-2024 15:58:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d

Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

91 o-Xylene, CAS: 95-47-6



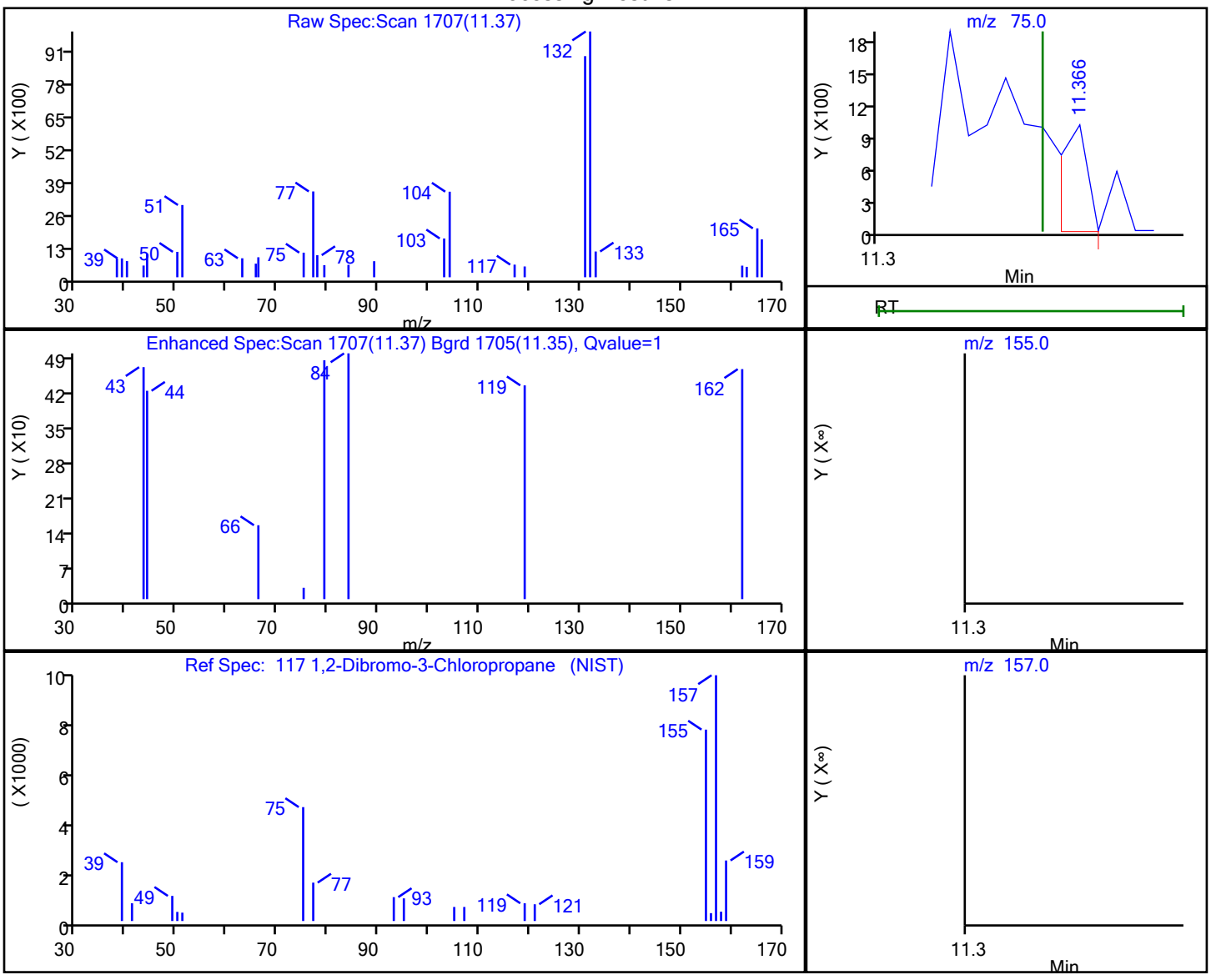
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d				
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-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
11.37	75.00	619	0.347477
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 15:58:32 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

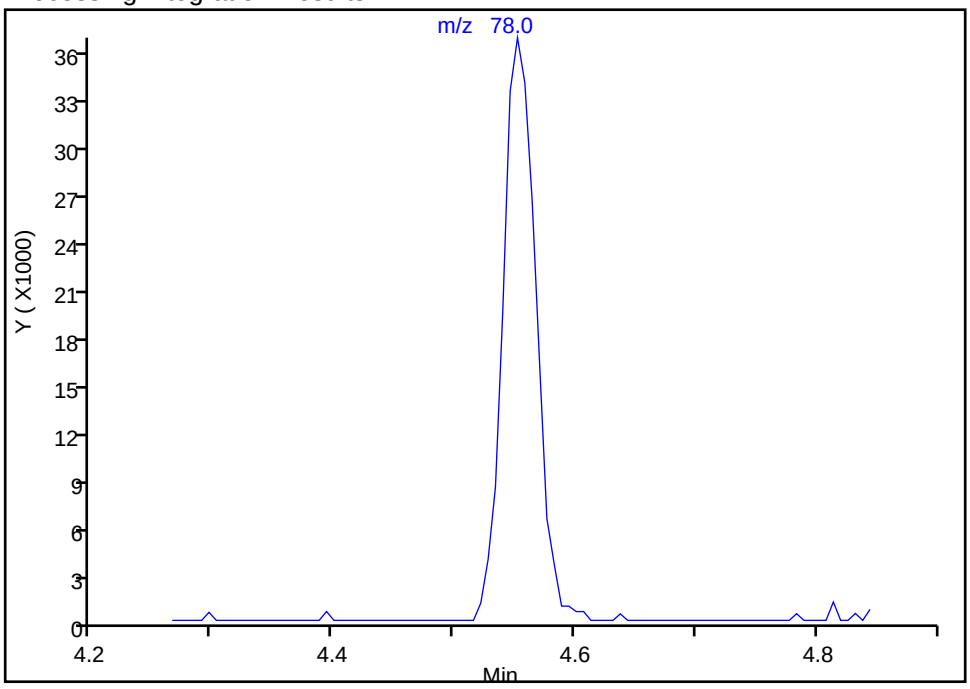
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d				
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2

Signal: 1

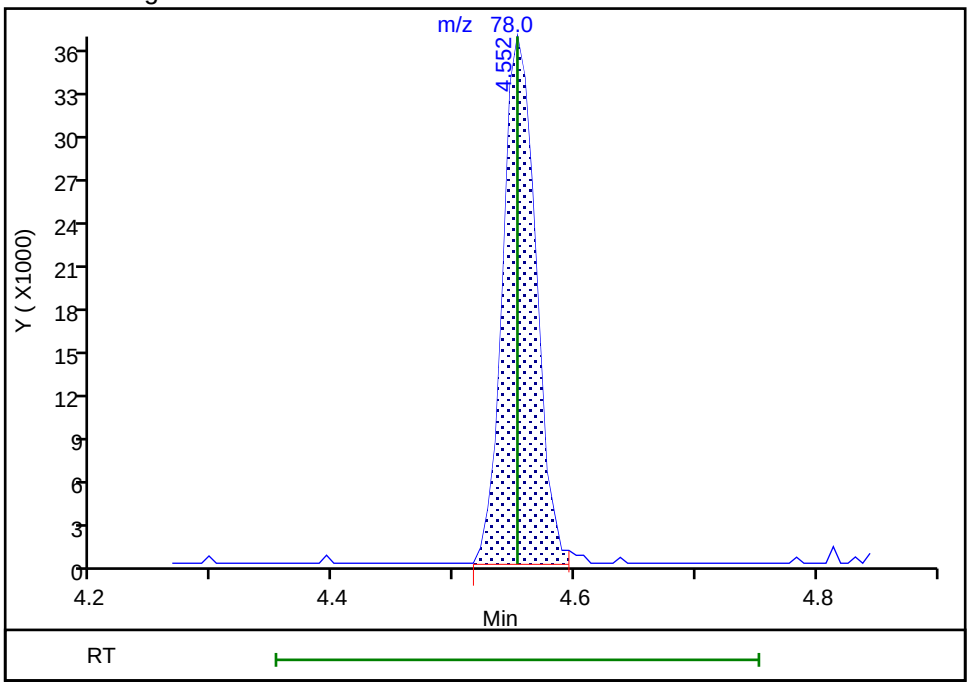
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 70337
Amount: 3.032488
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:57:39 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

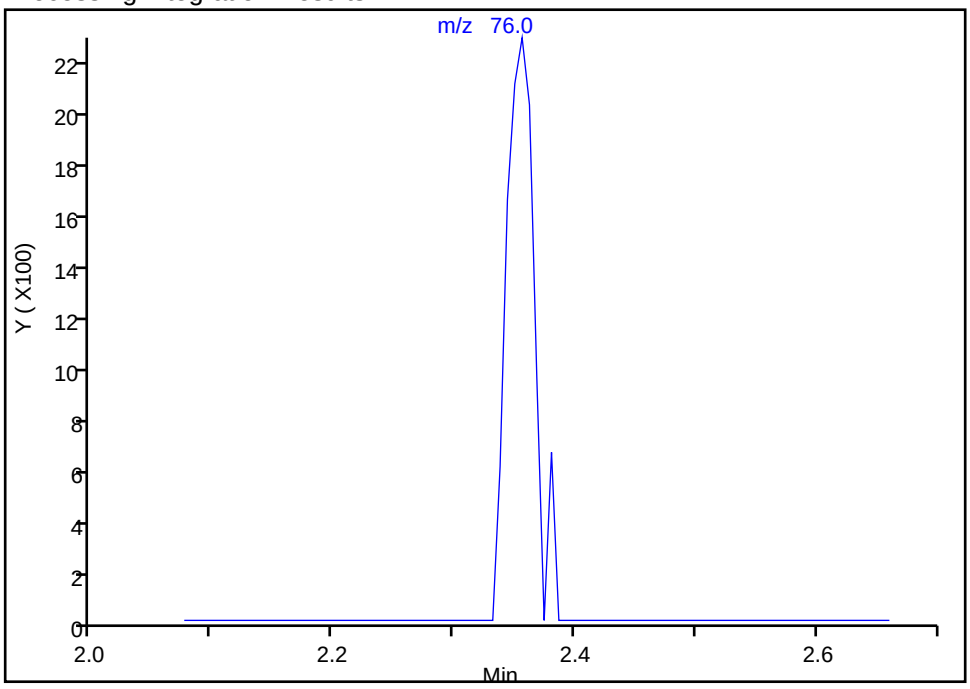
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d				
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

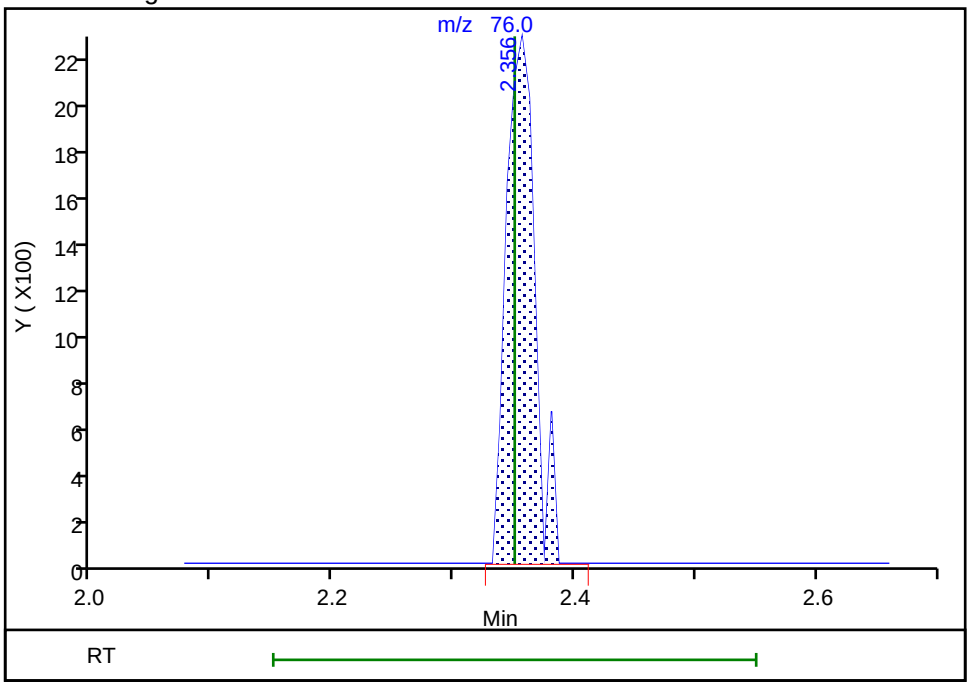
Not Detected
Expected RT: 2.35

Processing Integration Results



Manual Integration Results

RT: 2.36
Area: 3665
Amount: 0.206765
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:57:16 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

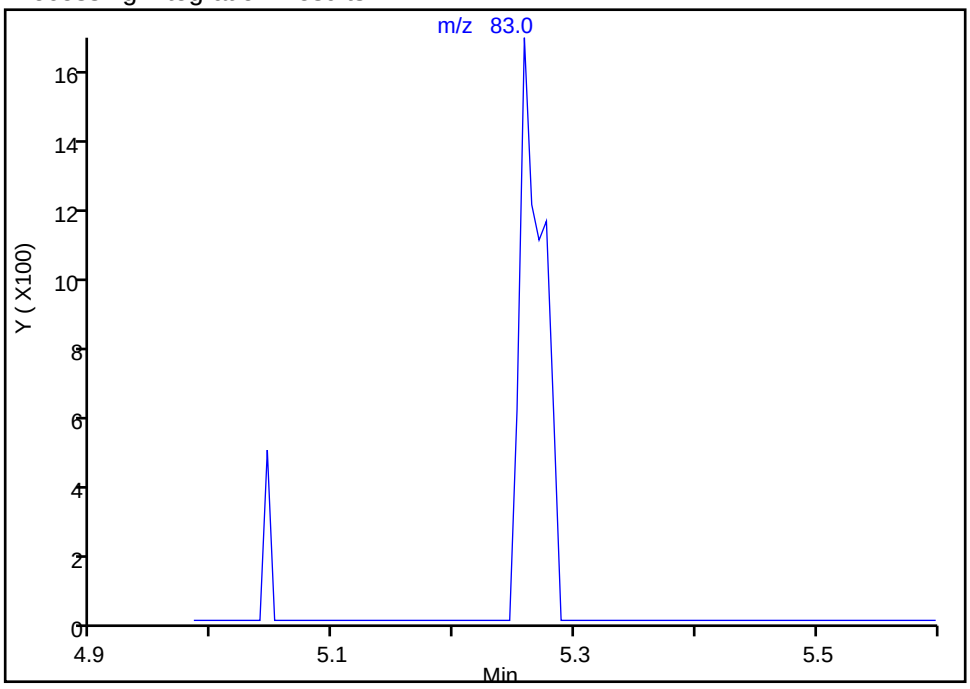
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d				
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Methylcyclohexane, CAS: 108-87-2

Signal: 1

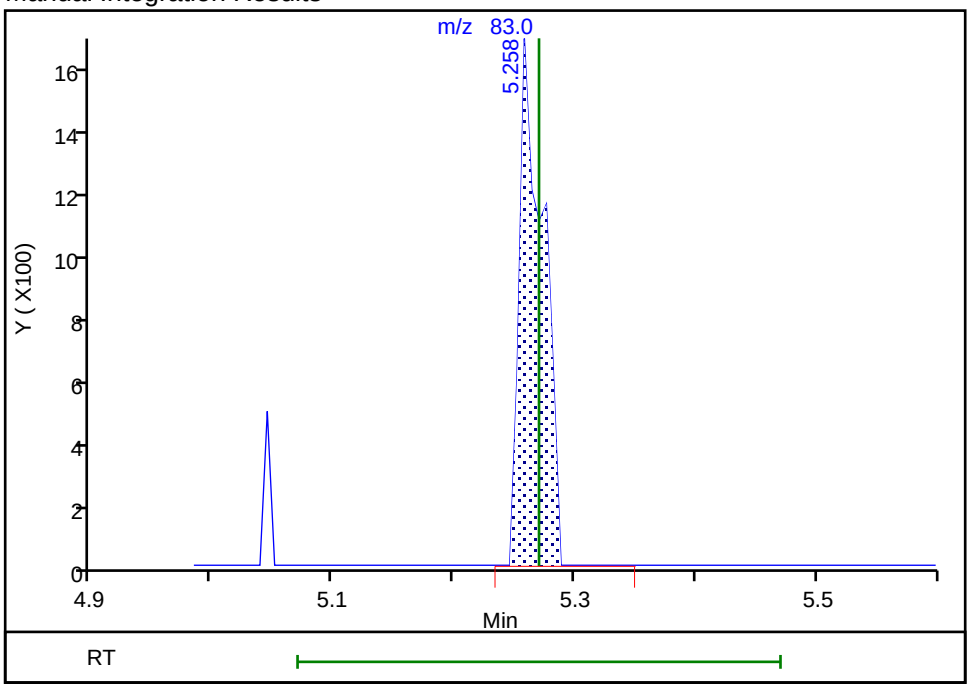
Not Detected
Expected RT: 5.27

Processing Integration Results



Manual Integration Results

RT: 5.26
Area: 2326
Amount: 0.238579
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:57:48 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

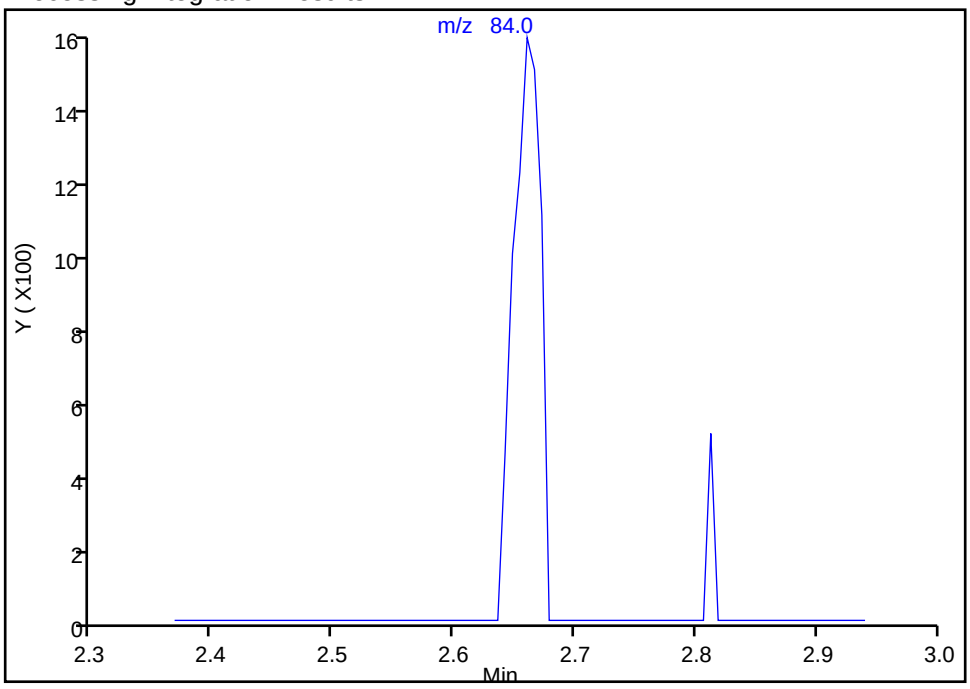
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d				
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

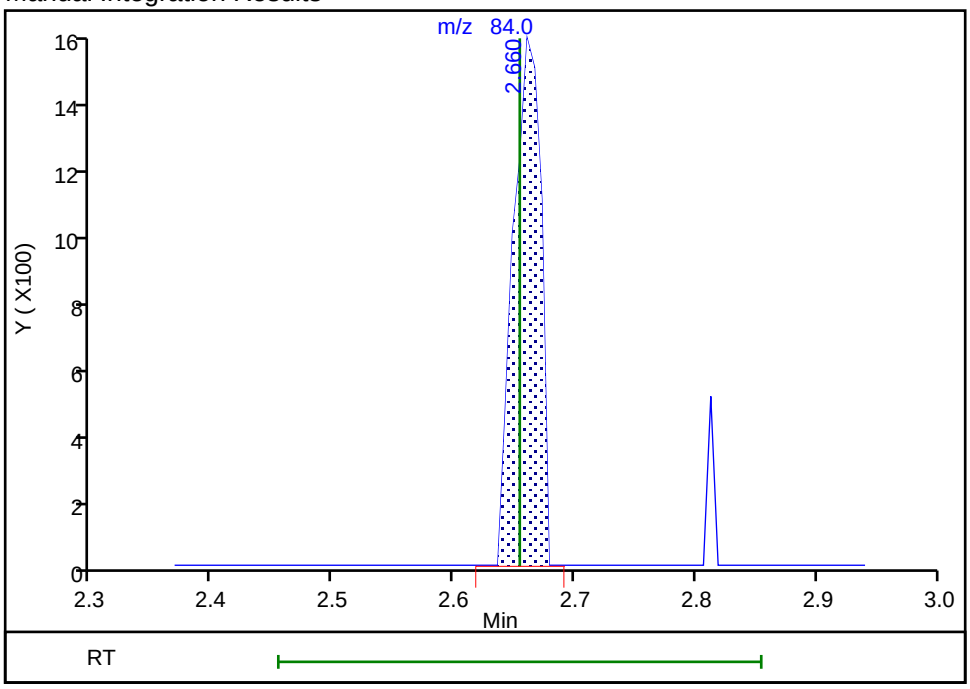
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.66
Area: 2516
Amount: 0.274365
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:57:23 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

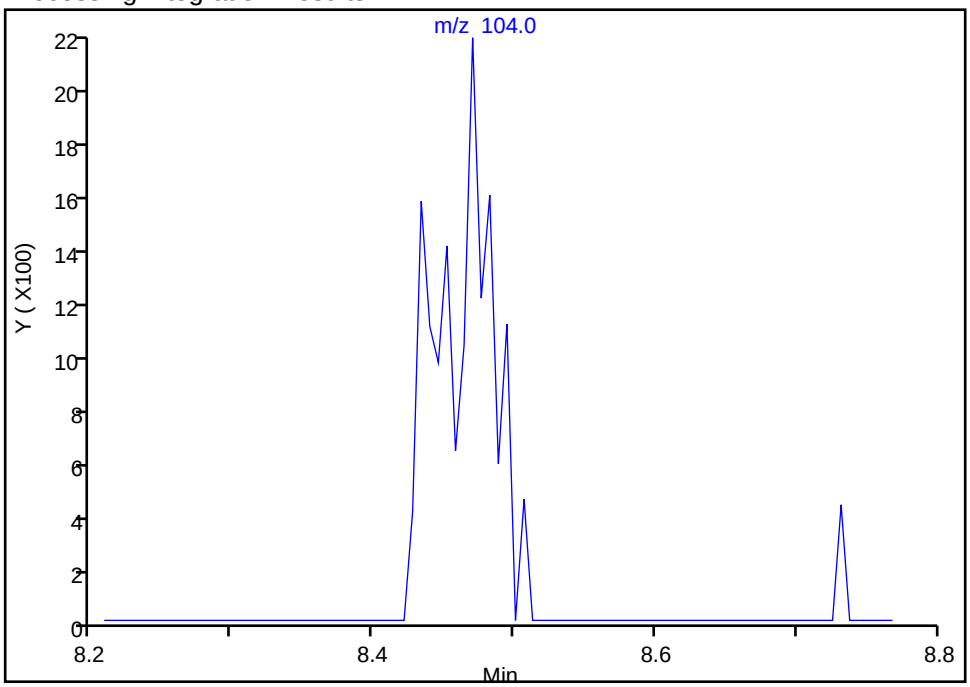
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1255.d				
Injection Date:	31-Oct-2024 08:16:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-13	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	AD	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

92 Styrene, CAS: 100-42-5

Signal: 1

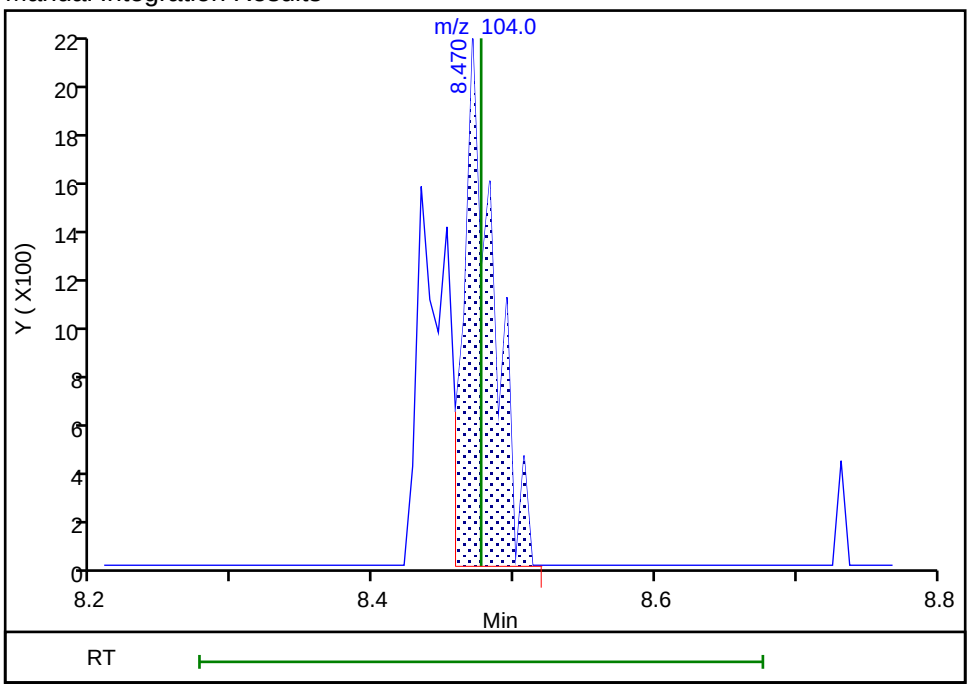
Not Detected
Expected RT: 8.48

Processing Integration Results



Manual Integration Results

RT: 8.47
Area: 3146
Amount: 0.195496
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:58:19 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-21A-10252024 | Lab Sample ID: 480-224869-18

Matrix: Water | Lab File ID: N1256.d

Analysis Method: 8260C | Date Collected: 10/25/2024 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 08:39

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.2	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-21A-10252024 | Lab Sample ID: 480-224869-18

Matrix: Water | Lab File ID: N1256.d

Analysis Method: 8260C | Date Collected: 10/25/2024 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 08:39

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	0.69	J	1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	92		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d
Lims ID: 480-224869-G-18
Client ID: MW-BCP-21A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 08:39:30 ALS Bottle#: 56 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-18
Misc. Info.: 480-0120932-023
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:59:34 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:59:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	141790	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	92	469049	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	255954	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	148047	23.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	95	227426	23.7	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	97	532077	24.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	175605	25.9	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.289	2.289	0.000	95	16545	3.22	a
25 Carbon disulfide	76	2.362	2.356	0.012	67	3126	0.1785	
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.648	2.648	-0.006	86	2778	0.3243	a
32 Methyl tert-butyl ether	73	2.855	2.849	0.006	94	14527	0.6919	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83		4.108				ND	
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78		4.552				ND	
57 1,2-Dichloroethane	62		4.619				ND	
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.270				ND	
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	U
73 Toluene	92		6.371				ND	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91		7.898				ND	
90 m-Xylene & p-Xylene	106		8.020				ND	
91 o-Xylene	106		8.440				ND	
92 Styrene	104		8.476				ND	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	7
113 1,4-Dichlorobenzene	146		10.240				ND	7
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

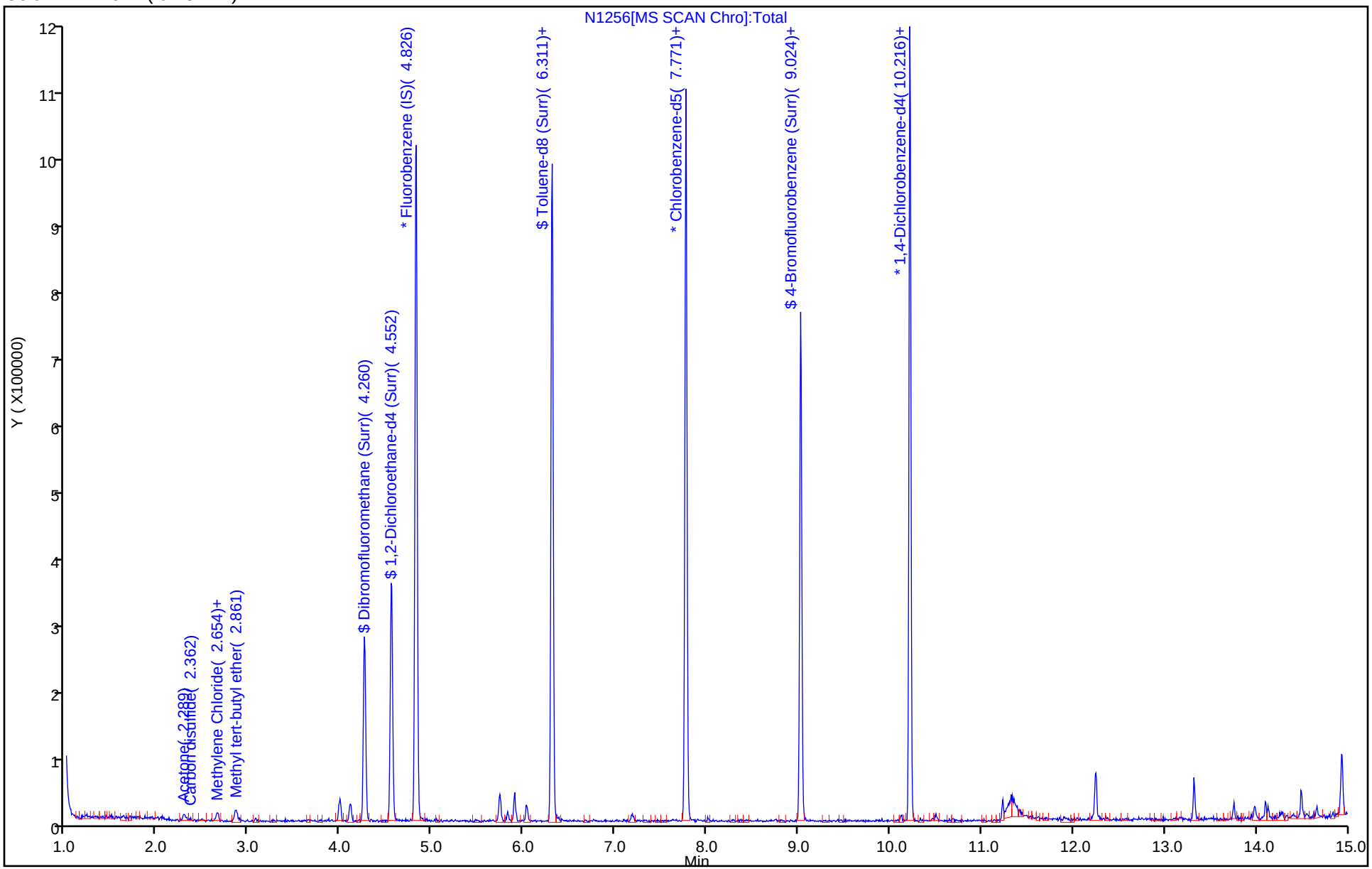
Report Date: 31-Oct-2024 15:59:35 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d

Injection Date:	31-Oct-2024 08:39:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-18	Lab Sample ID:	480-224869-18	Worklist Smp#:	23
Client ID:	MW-BCP-21A-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	56
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d
Lims ID: 480-224869-G-18
Client ID: MW-BCP-21A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 08:39:30 ALS Bottle#: 56 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224869-G-18
Misc. Info.: 480-0120932-023
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 15:59:34 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 15:59:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.0	91.91
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.7	94.91
$ 6 Toluene-d8 (Surr)	25.0	24.8	99.13
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.9	103.74

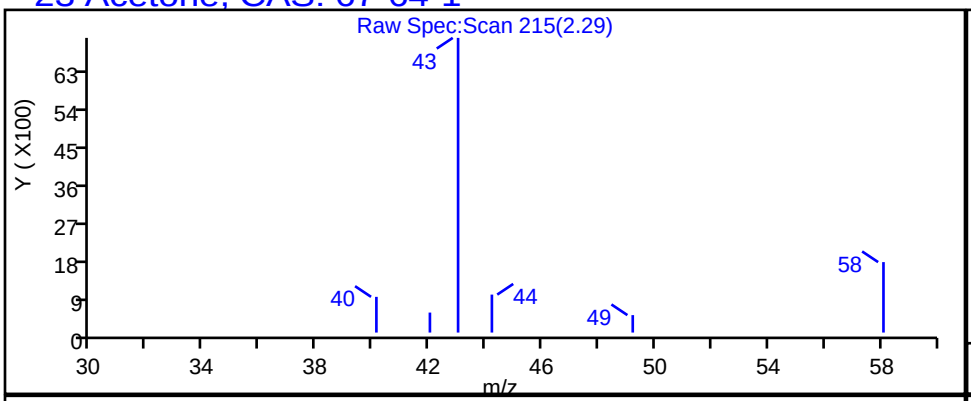
Report Date: 31-Oct-2024 15:59:35 Chrom Revision: 2.3 24-Sep-2024 15:19:46

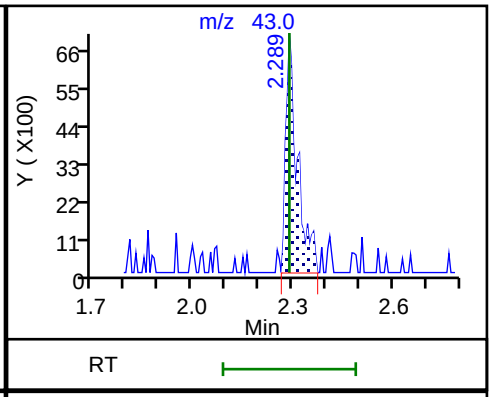
Eurofins Buffalo

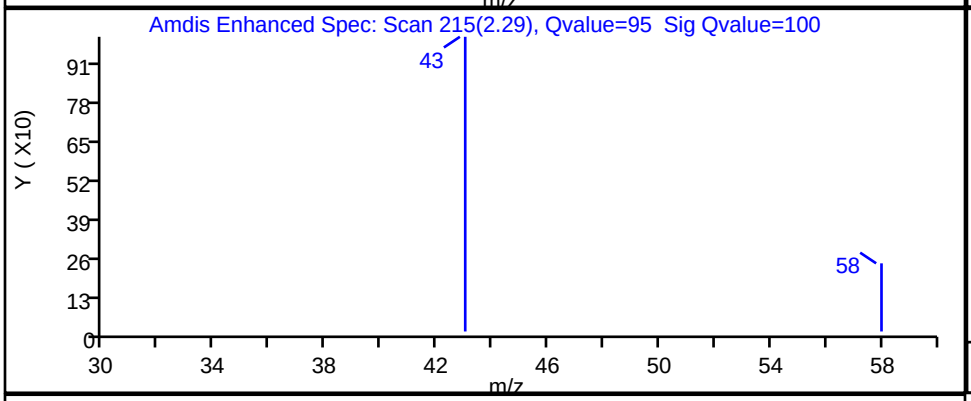
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d

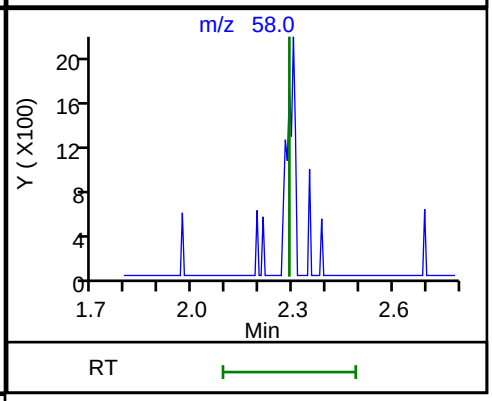
Injection Date:	31-Oct-2024 08:39:30	Instrument ID:	HP5973N
Lims ID:	480-224869-G-18	Lab Sample ID:	480-224869-18
Client ID:	MW-BCP-21A-10252024		
Operator ID:	AD	ALS Bottle#:	56 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

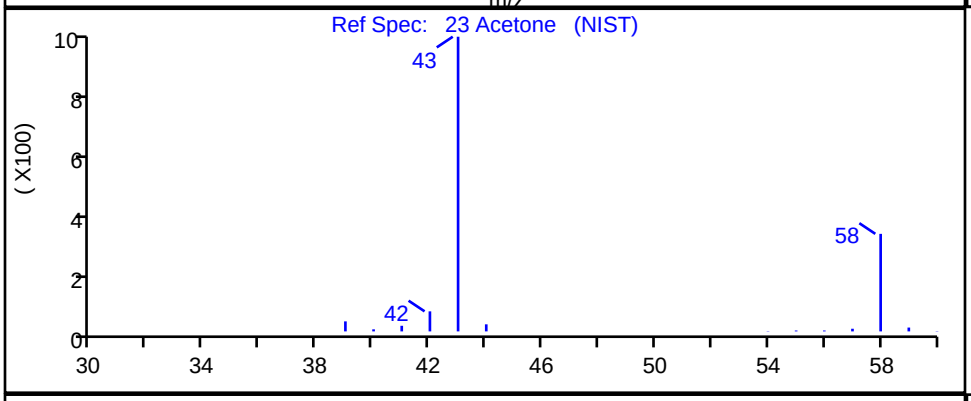
23 Acetone, CAS: 67-64-1

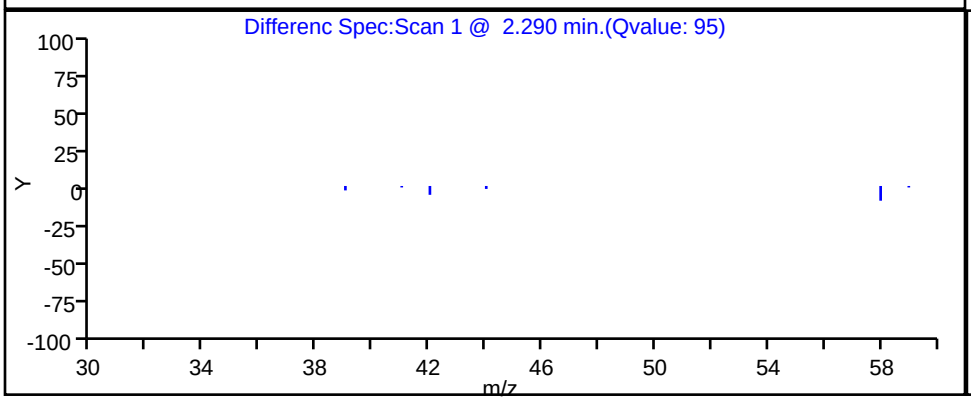


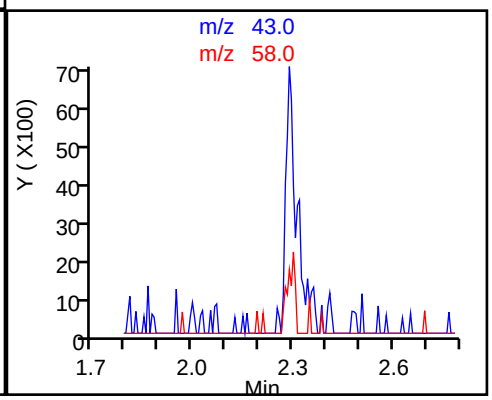












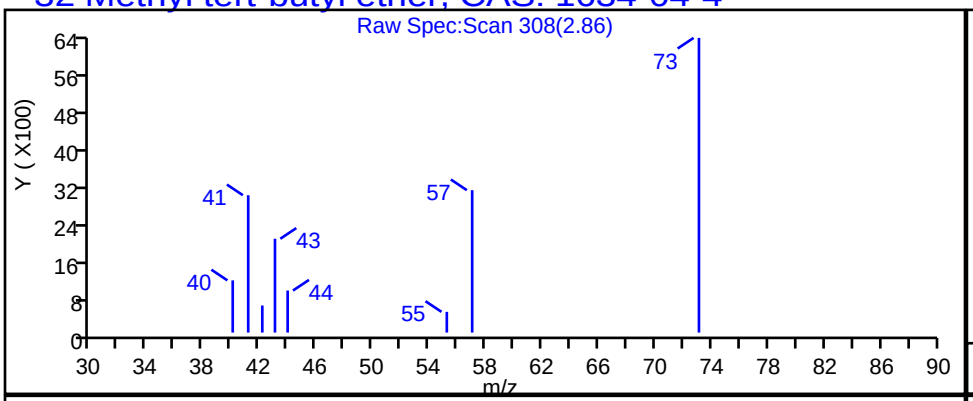
Report Date: 31-Oct-2024 15:59:35 Chrom Revision: 2.3 24-Sep-2024 15:19:46

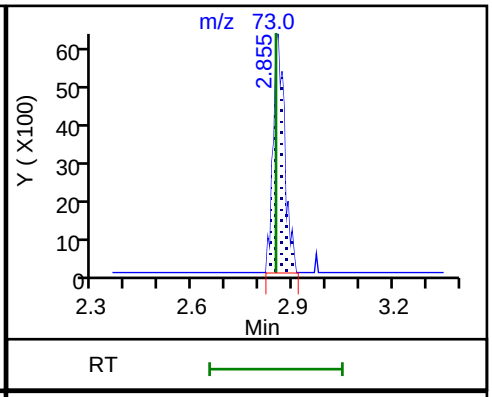
Eurofins Buffalo

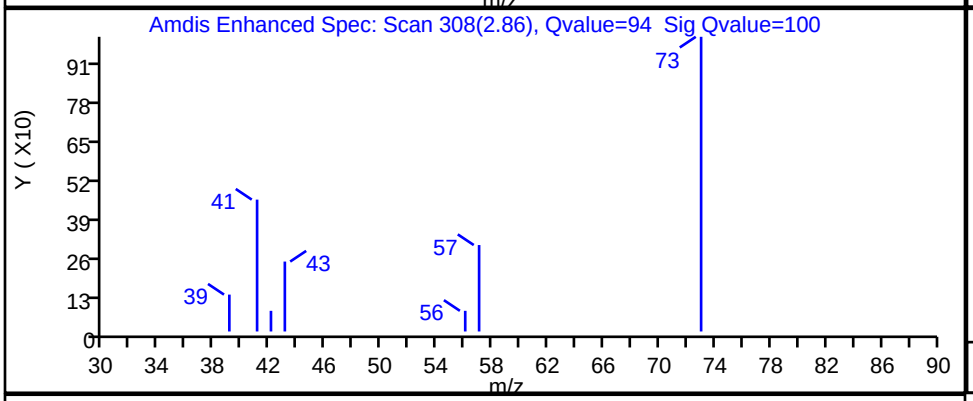
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d

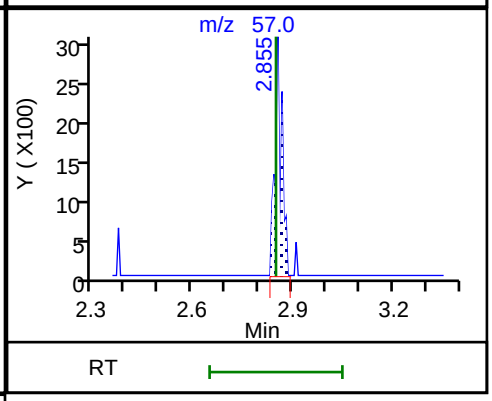
Injection Date:	31-Oct-2024 08:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-18	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	AD	ALS Bottle#:	56	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

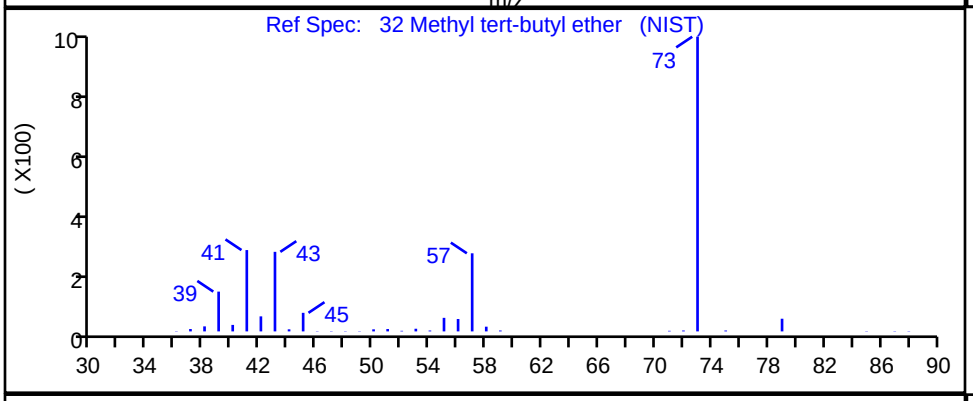
32 Methyl tert-butyl ether, CAS: 1634-04-4

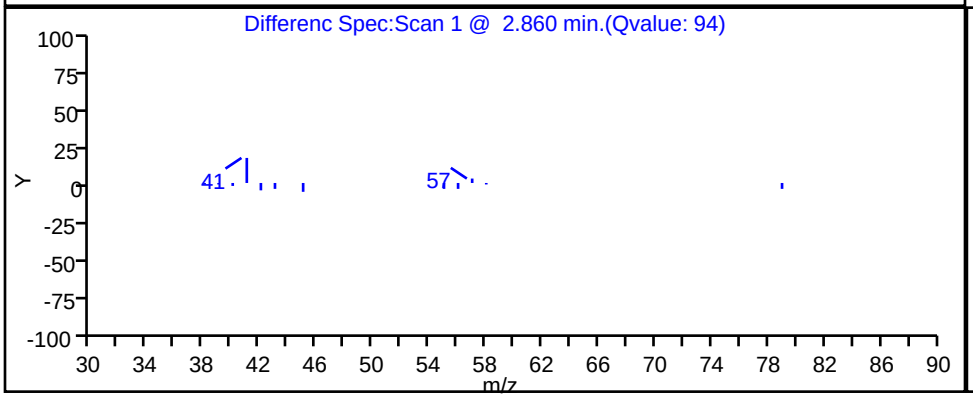


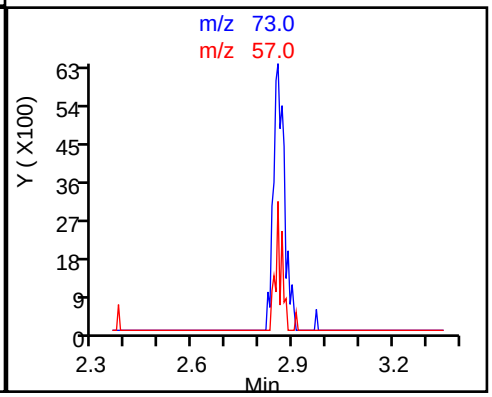












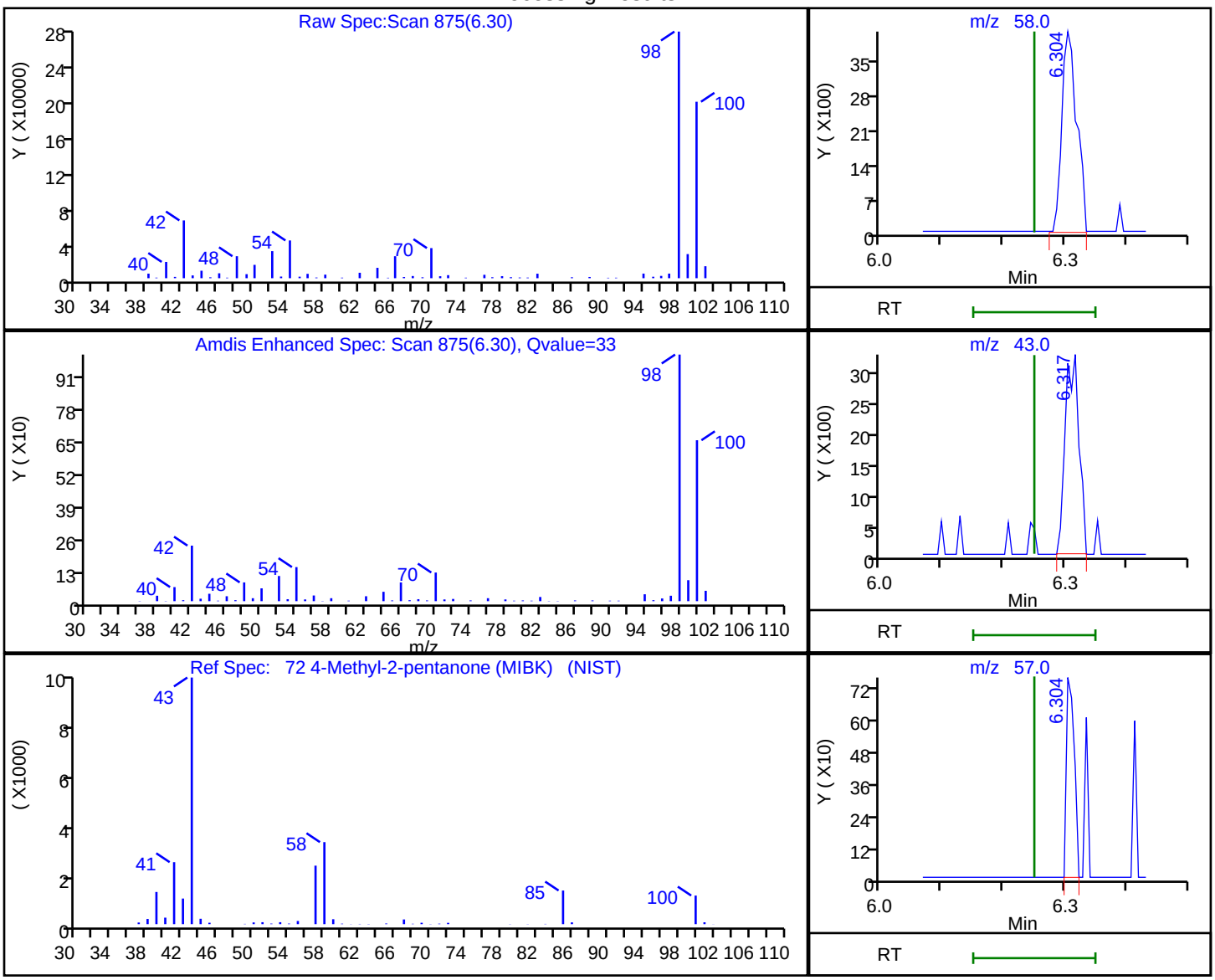
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d				
Injection Date:	31-Oct-2024 08:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-18	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	AD	ALS Bottle#:	56	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.30	58.00	6820	1.321462
6.32	43.00	5166	
6.30	57.00	677	

Reviewer: HF3K, 31-Oct-2024 15:59:25 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

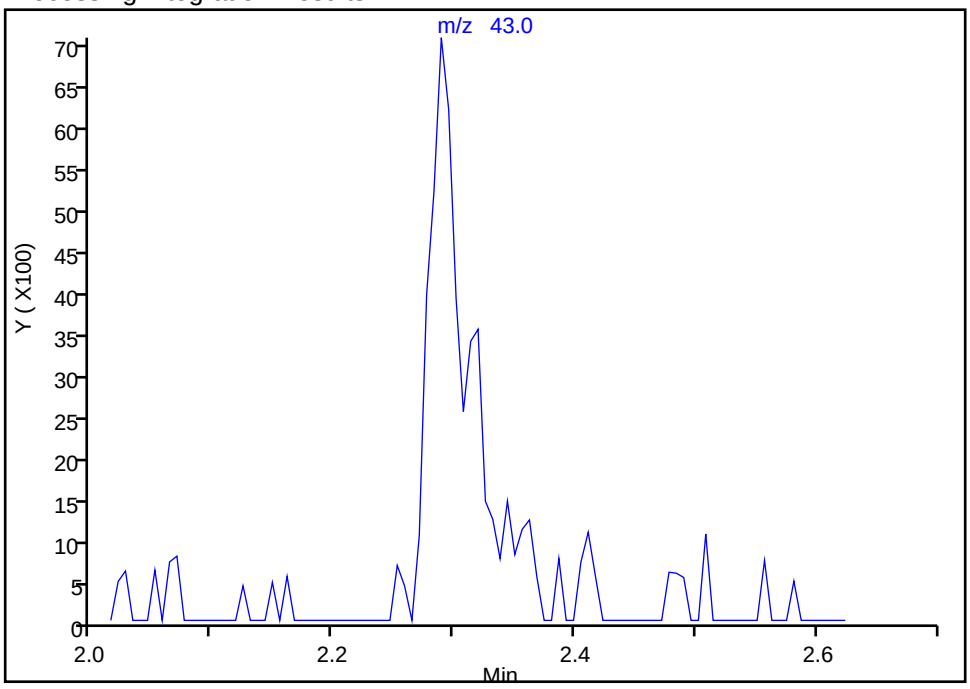
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d				
Injection Date:	31-Oct-2024 08:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-18	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	AD	ALS Bottle#:	56	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

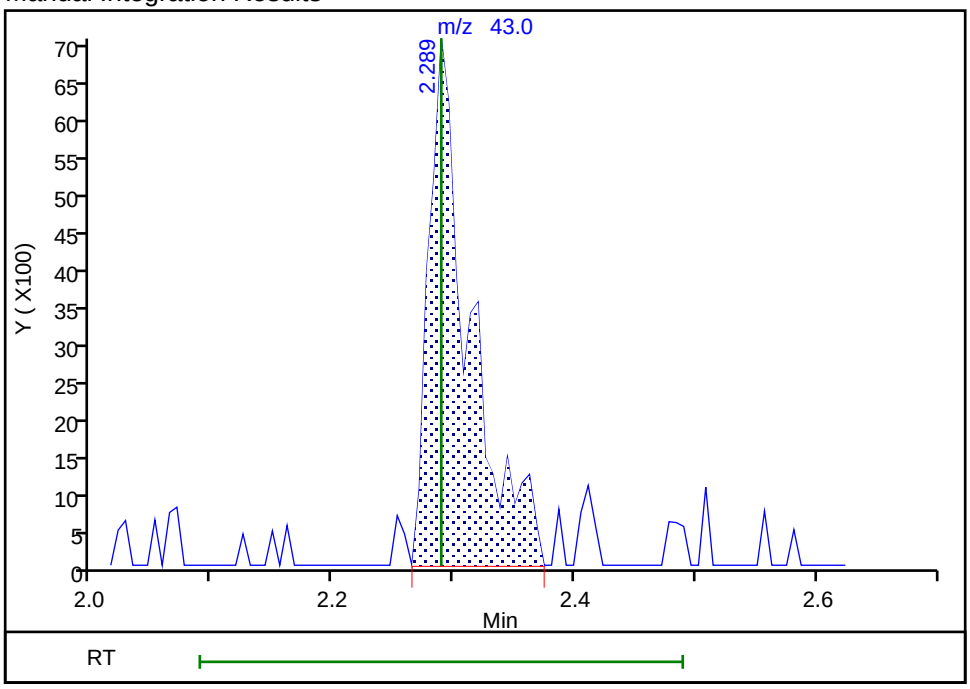
Not Detected
Expected RT: 2.29

Processing Integration Results



Manual Integration Results

RT: 2.29
Area: 16545
Amount: 3.216495
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:59:01 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

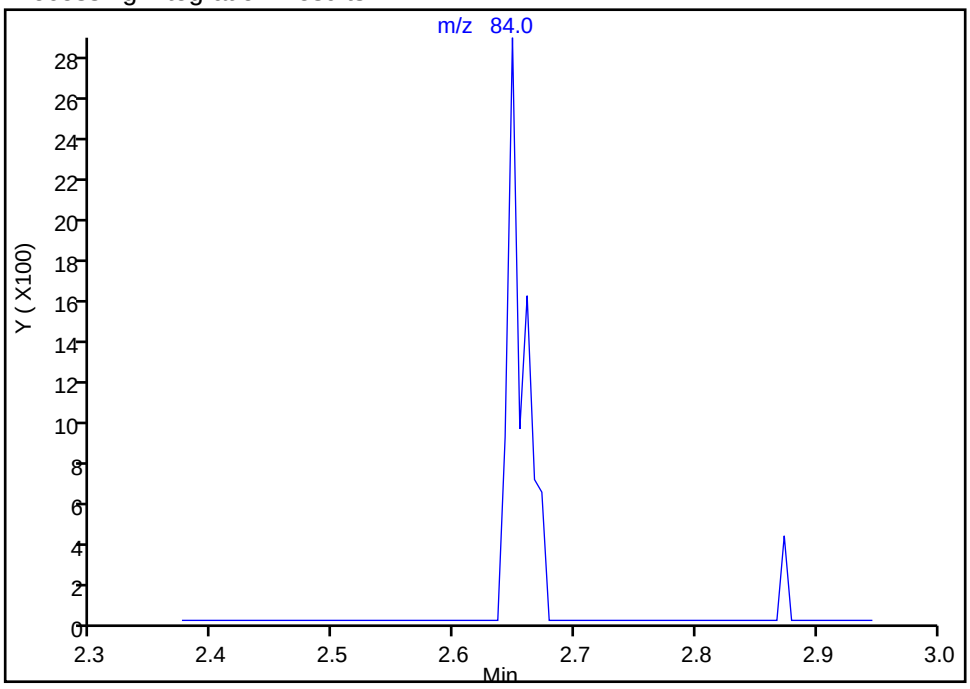
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1256.d				
Injection Date:	31-Oct-2024 08:39:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-G-18	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	AD	ALS Bottle#:	56	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

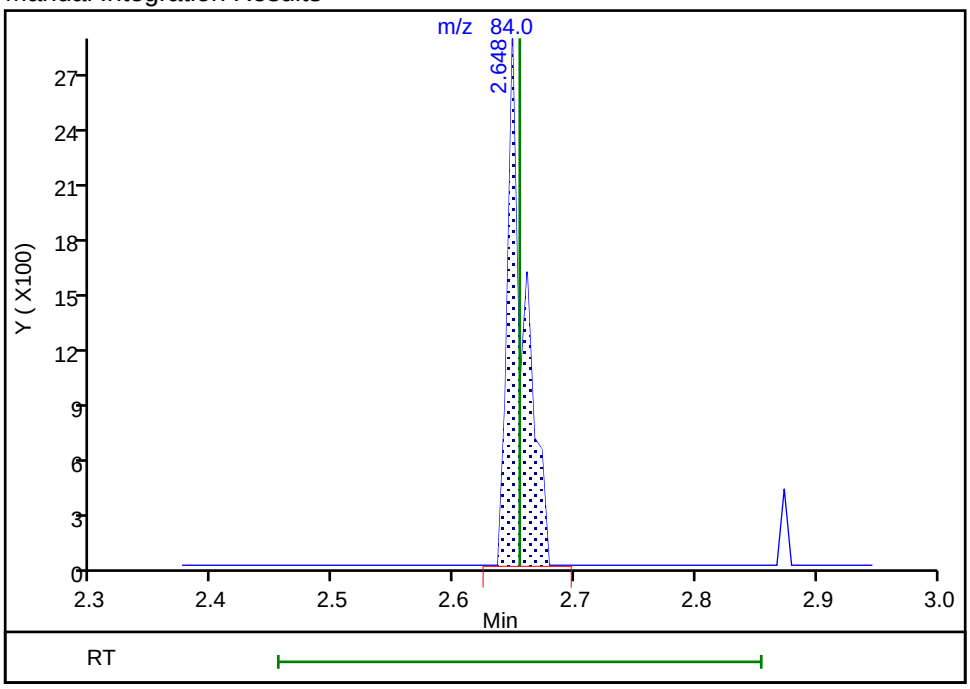
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.65
Area: 2778
Amount: 0.324342
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 15:59:16 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19A-10252024 | Lab Sample ID: 480-224869-19

Matrix: Water | Lab File ID: N1257.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 09:01

Soil Aliquot Vol: | Dilution Factor: 8

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		8.0	6.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		8.0	1.7
79-00-5	1,1,2-Trichloroethane	ND		8.0	1.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5
75-34-3	1,1-Dichloroethane	ND		8.0	3.0
75-35-4	1,1-Dichloroethene	ND		8.0	2.3
120-82-1	1,2,4-Trichlorobenzene	ND		8.0	3.3
96-12-8	1,2-Dibromo-3-Chloropropane	ND		8.0	3.1
106-93-4	1,2-Dibromoethane	ND		8.0	5.8
95-50-1	1,2-Dichlorobenzene	ND		8.0	6.3
107-06-2	1,2-Dichloroethane	ND		8.0	1.7
78-87-5	1,2-Dichloropropane	ND		8.0	5.8
541-73-1	1,3-Dichlorobenzene	ND		8.0	6.2
106-46-7	1,4-Dichlorobenzene	ND		8.0	6.7
591-78-6	2-Hexanone	ND		40	9.9
78-93-3	2-Butanone (MEK)	ND		80	11
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		40	17
67-64-1	Acetone	ND		80	24
71-43-2	Benzene	180		8.0	3.3
75-27-4	Bromodichloromethane	ND		8.0	3.1
75-25-2	Bromoform	ND		8.0	2.1
74-83-9	Bromomethane	ND		8.0	5.5
75-15-0	Carbon disulfide	ND		8.0	1.5
56-23-5	Carbon tetrachloride	ND		8.0	2.2
108-90-7	Chlorobenzene	ND		8.0	6.0
124-48-1	Dibromochloromethane	ND		8.0	2.6
75-00-3	Chloroethane	ND		8.0	2.6
67-66-3	Chloroform	ND		8.0	2.7
74-87-3	Chloromethane	ND		8.0	2.8
156-59-2	cis-1,2-Dichloroethene	ND		8.0	6.5
10061-01-5	cis-1,3-Dichloropropene	ND		8.0	2.9
110-82-7	Cyclohexane	ND		8.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19A-10252024 | Lab Sample ID: 480-224869-19

Matrix: Water | Lab File ID: N1257.d

Analysis Method: 8260C | Date Collected: 10/25/2024 09:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 09:01

Soil Aliquot Vol: | Dilution Factor: 8

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		8.0	5.4
100-41-4	Ethylbenzene	9.6		8.0	5.9
98-82-8	Isopropylbenzene	ND		8.0	6.3
79-20-9	Methyl acetate	ND		20	10
1634-04-4	Methyl tert-butyl ether	ND		8.0	1.3
108-87-2	Methylcyclohexane	ND		8.0	1.3
75-09-2	Methylene Chloride	12		8.0	3.5
100-42-5	Styrene	ND		8.0	5.8
127-18-4	Tetrachloroethene	ND		8.0	2.9
108-88-3	Toluene	56		8.0	4.1
156-60-5	trans-1,2-Dichloroethene	ND		8.0	7.2
10061-02-6	trans-1,3-Dichloropropene	ND		8.0	3.0
79-01-6	Trichloroethene	ND		8.0	3.7
75-69-4	Trichlorofluoromethane	ND		8.0	7.0
75-01-4	Vinyl chloride	ND		8.0	7.2
1330-20-7	Xylenes, Total	220		16	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	89		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d
Lims ID: 480-224869-E-19
Client ID: MW-BCP-19A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 09:01:30 ALS Bottle#: 57 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 8.0000
Sample Info: 480-224869-E-19
Misc. Info.: 480-0120932-024
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 16:01:07 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 16:01:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	146074	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	479555	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	276710	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	90	148202	22.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.558	4.552	0.006	68	227170	23.0	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.000	97	550862	25.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.030	9.024	0.006	88	191496	27.7	
11 Dichlorodifluoromethane	85		1.048				ND	
13 Chloromethane	50		1.188				ND	
14 Vinyl chloride	62		1.261				ND	
15 Bromomethane	94		1.511				ND	
16 Chloroethane	64		1.565				ND	
18 Trichlorofluoromethane	101		1.742				ND	
22 1,1-Dichloroethene	96		2.174				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180				ND	
23 Acetone	43	2.289	2.289	0.000	67	12118	2.29	
25 Carbon disulfide	76	2.356	2.356	0.006	65	2978	0.1651	
28 Methyl acetate	43		2.563				ND	
30 Methylene Chloride	84	2.654	2.648	0.000	88	9604	1.44	
32 Methyl tert-butyl ether	73		2.849				ND	
33 trans-1,2-Dichloroethene	96		2.867				ND	
36 1,1-Dichloroethane	63		3.263				ND	
43 cis-1,2-Dichloroethene	96		3.798				ND	
44 2-Butanone (MEK)	43		3.841				ND	
50 Chloroform	83	4.108	4.108	0.000	1	1588	0.1406	a
51 1,1,1-Trichloroethane	97		4.206				ND	
52 Cyclohexane	56		4.212				ND	
53 Carbon tetrachloride	117		4.339				ND	
55 Benzene	78	4.552	4.552	0.000	88	519888	22.0	a
57 1,2-Dichloroethane	62		4.619				ND	U
60 Trichloroethene	95		5.155				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.270	5.270	0.000	1	625	0.0630	a
63 1,2-Dichloropropane	63		5.386				ND	
67 Dichlorobromomethane	83		5.684				ND	
71 cis-1,3-Dichloropropene	75		6.098				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250				ND	U
73 Toluene	92	6.371	6.365	0.000	96	92114	7.04	
75 trans-1,3-Dichloropropene	75		6.663				ND	
78 1,1,2-Trichloroethane	83		6.846				ND	
79 Tetrachloroethene	166		6.895				ND	
82 2-Hexanone	43		7.083				ND	
83 Chlorodibromomethane	129		7.229				ND	
84 Ethylene Dibromide	107		7.326				ND	
85 Chlorobenzene	112		7.801				ND	
88 Ethylbenzene	91	7.904	7.898	0.006	96	30071	1.21	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	97	92751	9.43	
91 o-Xylene	106	8.446	8.434	0.006	98	170737	17.4	
92 Styrene	104	8.446	8.470	-0.030	52	11244	0.7022	
93 Bromoform	173		8.714				ND	
95 Isopropylbenzene	105		8.829				ND	
98 1,1,2,2-Tetrachloroethane	83		9.261				ND	
110 1,3-Dichlorobenzene	146		10.149				ND	
113 1,4-Dichlorobenzene	146		10.240				ND	
116 1,2-Dichlorobenzene	146		10.599				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354				ND	U
119 1,2,4-Trichlorobenzene	180		12.035				ND	
S 126 Xylenes, Total	1				0		26.8	

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

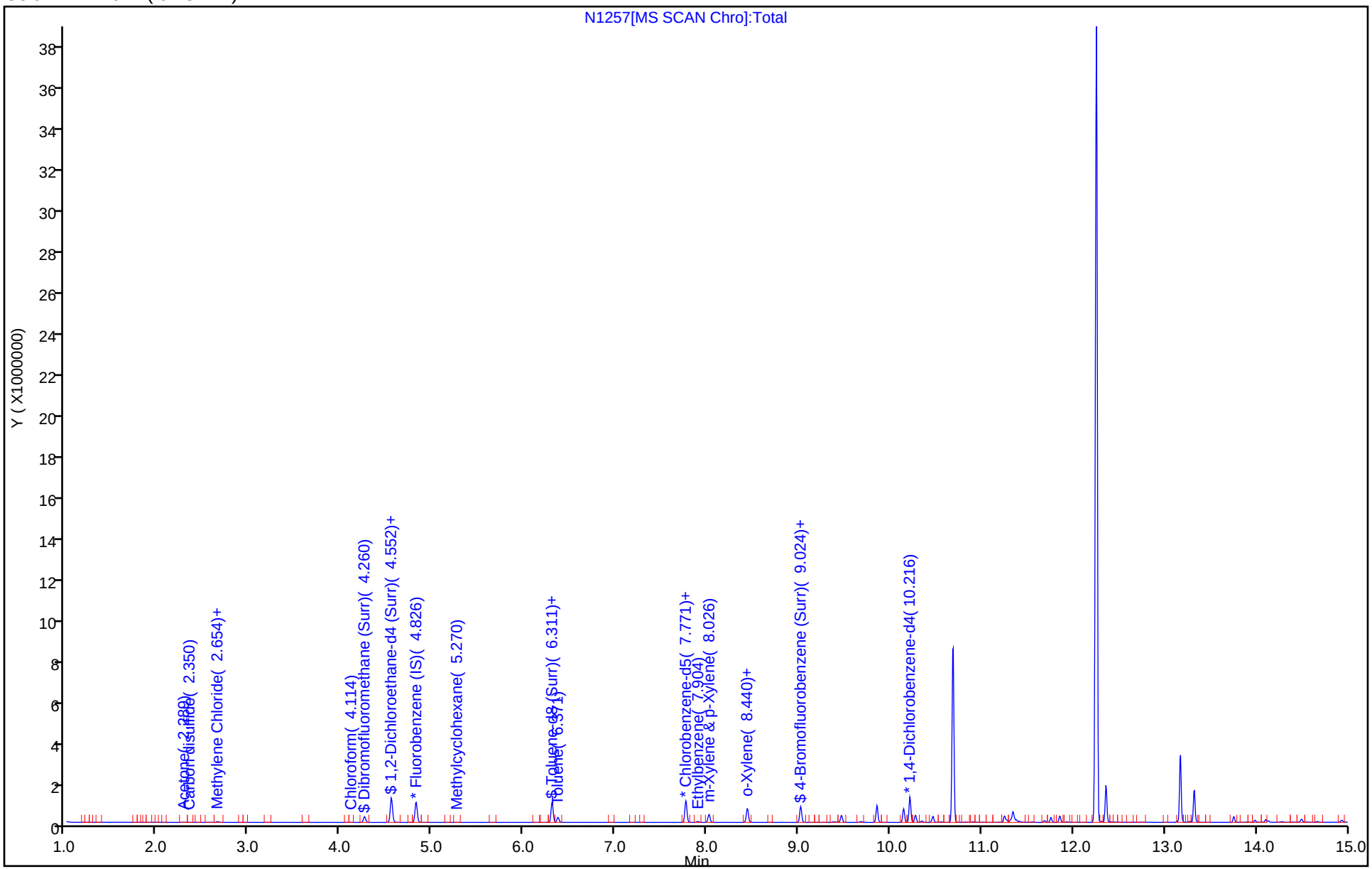
Report Date: 31-Oct-2024 16:01:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19	Worklist Smp#:	24
Client ID:	MW-BCP-19A-10252024				
Purge Vol:	5.000 mL	Dil. Factor:	8.0000	ALS Bottle#:	57
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d
Lims ID: 480-224869-E-19
Client ID: MW-BCP-19A-10252024
Sample Type: Client
Inject. Date: 31-Oct-2024 09:01:30 ALS Bottle#: 57 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 8.0000
Sample Info: 480-224869-E-19
Misc. Info.: 480-0120932-024
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 16:01:07 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 16:01:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	22.3	89.31
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.0	92.03
$ 6 Toluene-d8 (Surr)	25.0	25.1	100.39
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.7	110.65

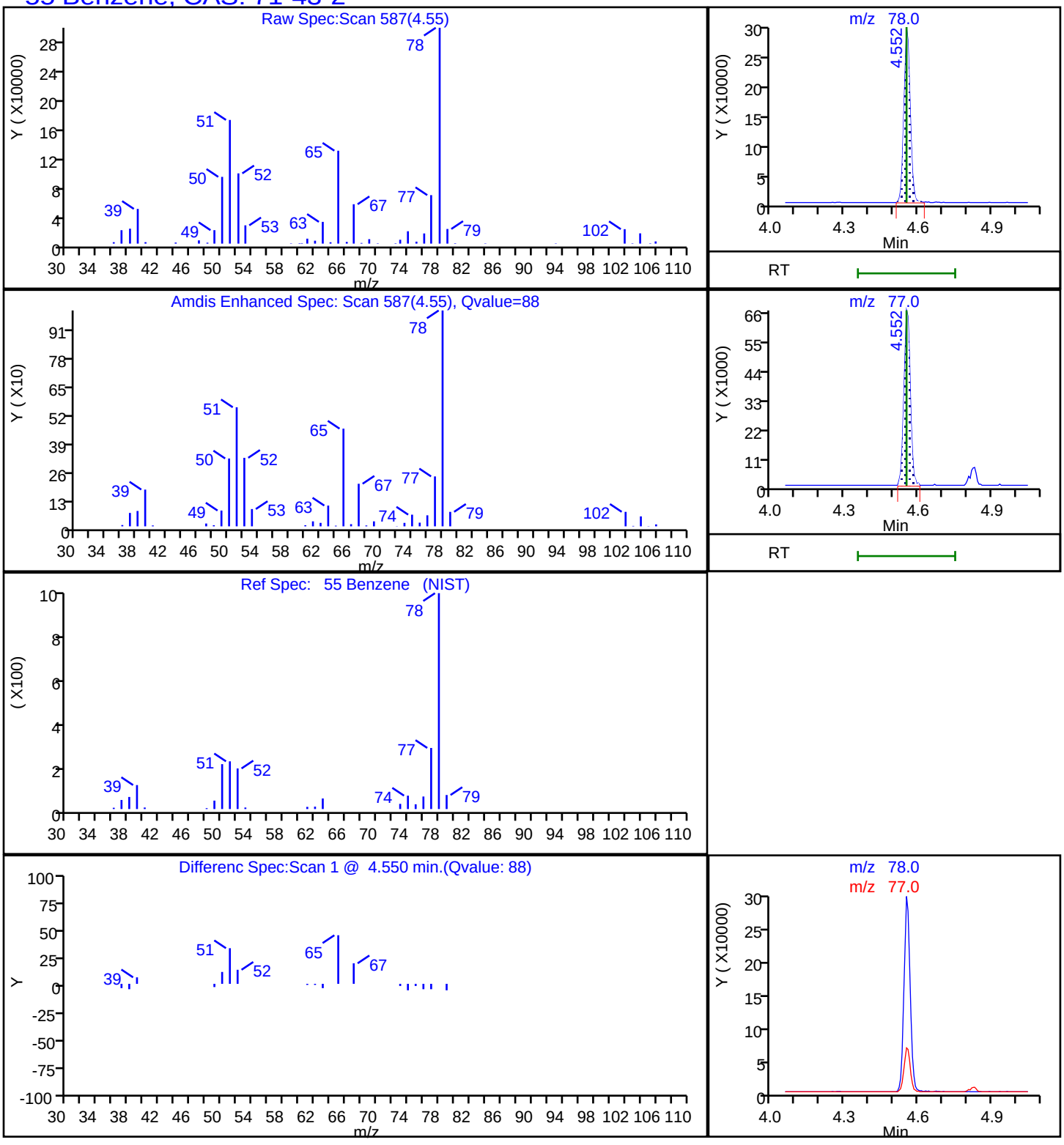
Report Date: 31-Oct-2024 16:01:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2



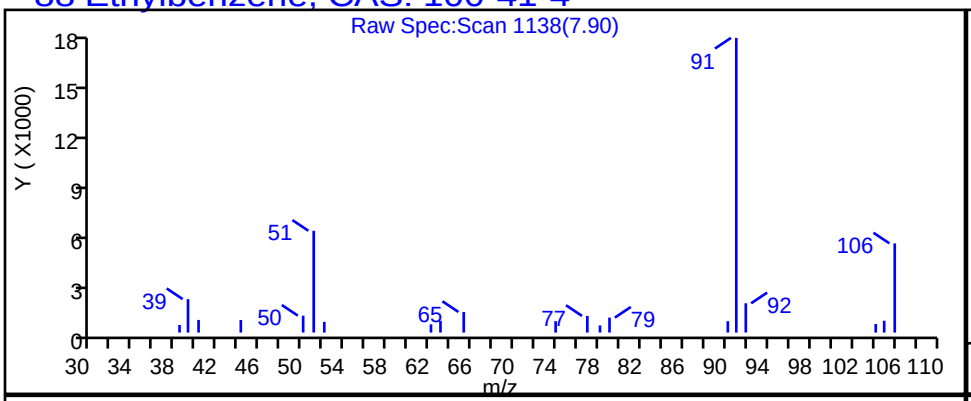
Report Date: 31-Oct-2024 16:01:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

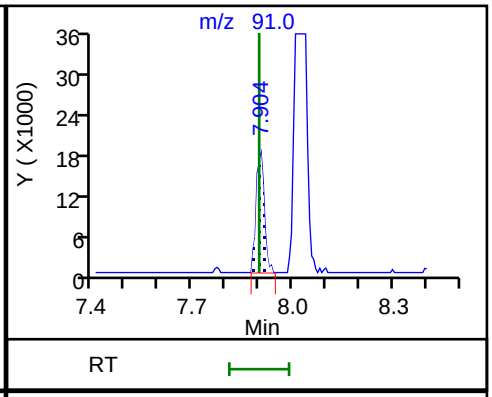
Eurofins Buffalo

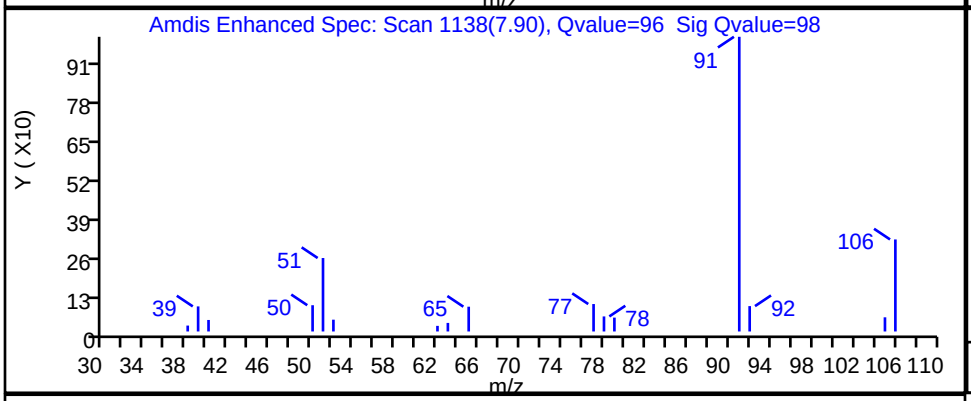
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

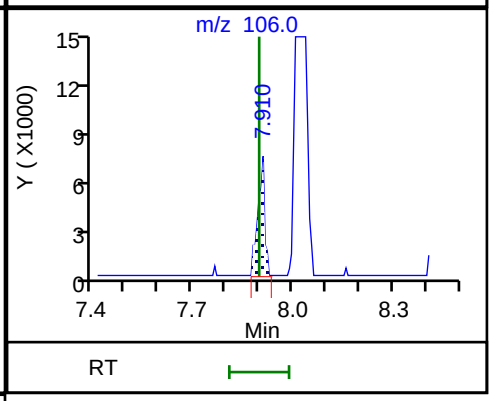
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19
Client ID:	MW-BCP-19A-10252024		
Operator ID:	AD	ALS Bottle#:	57 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

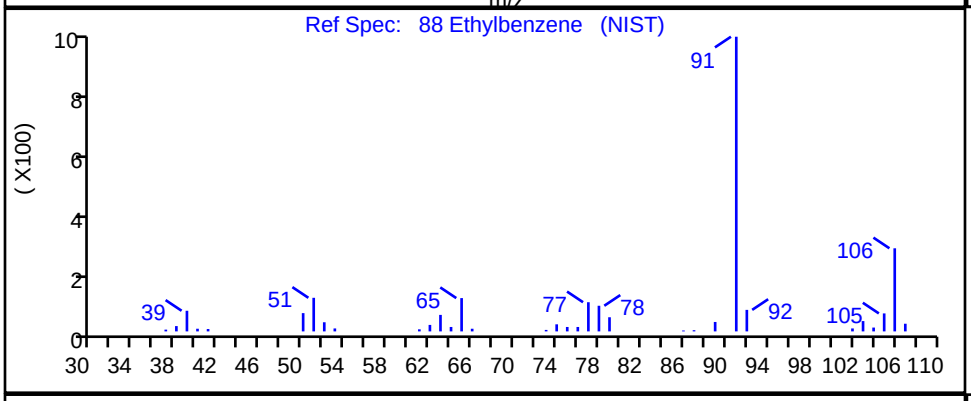
88 Ethylbenzene, CAS: 100-41-4

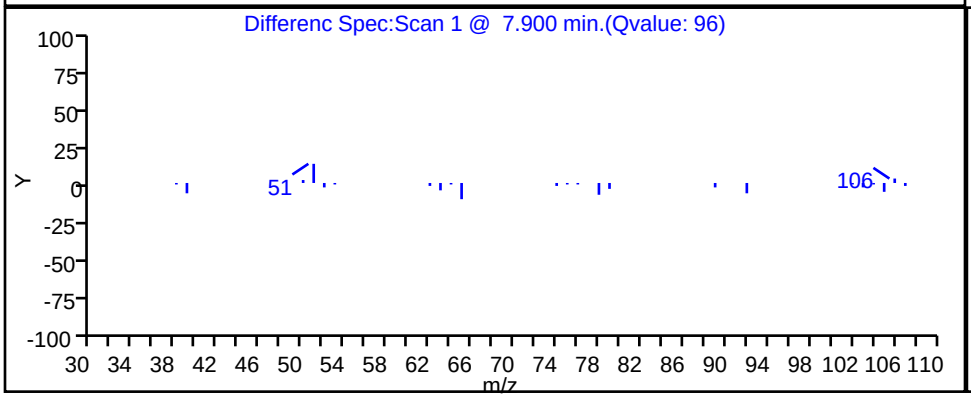


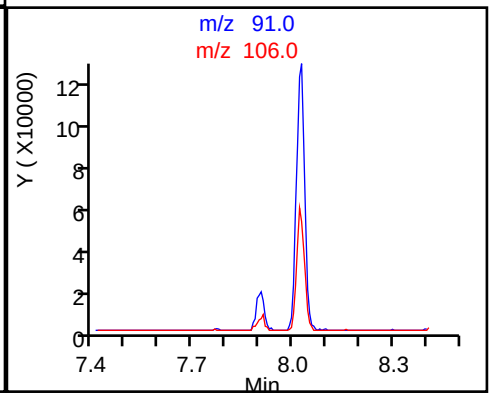












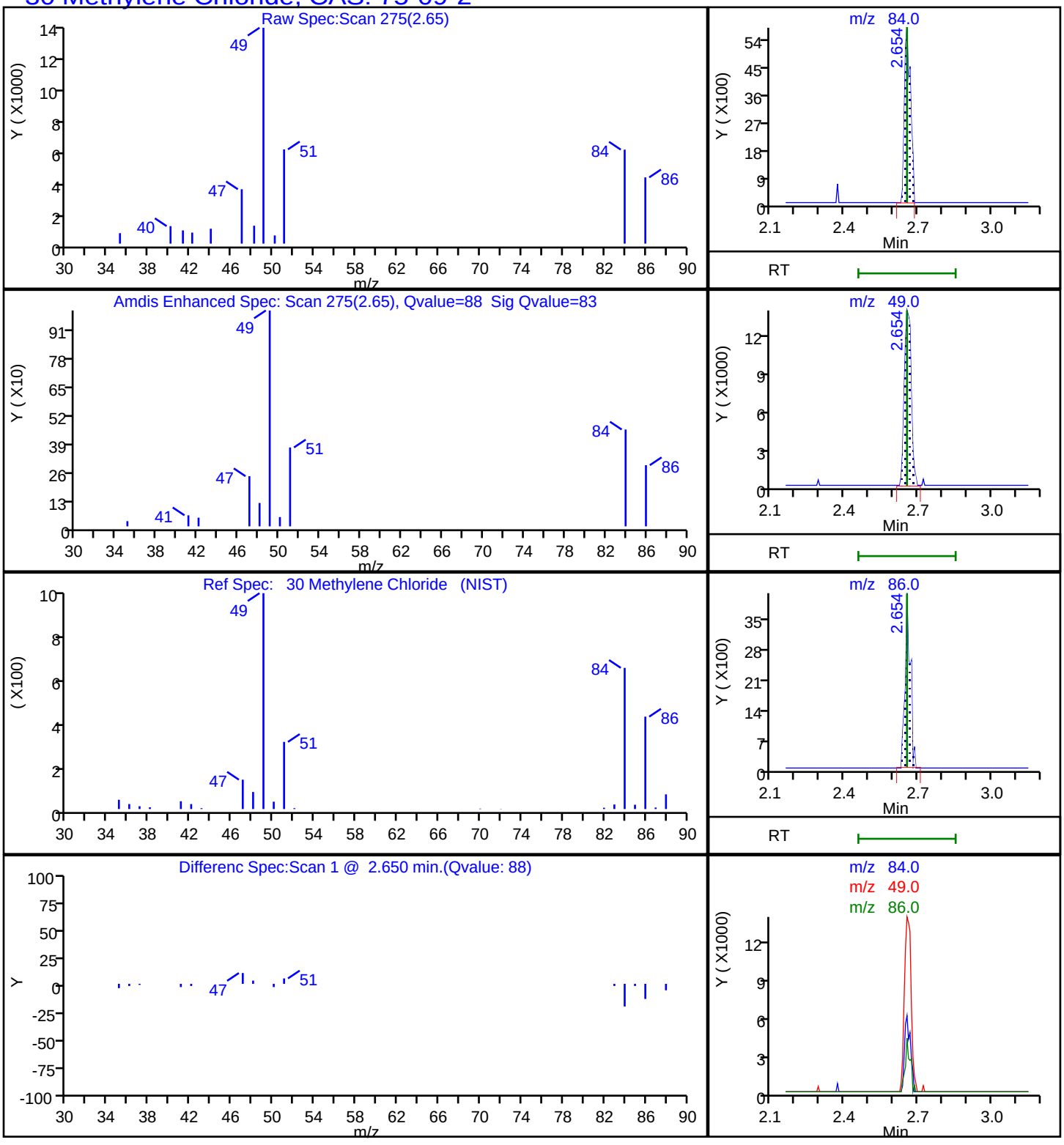
Report Date: 31-Oct-2024 16:01:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19
Client ID:	MW-BCP-19A-10252024		
Operator ID:	AD	ALS Bottle#:	57 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



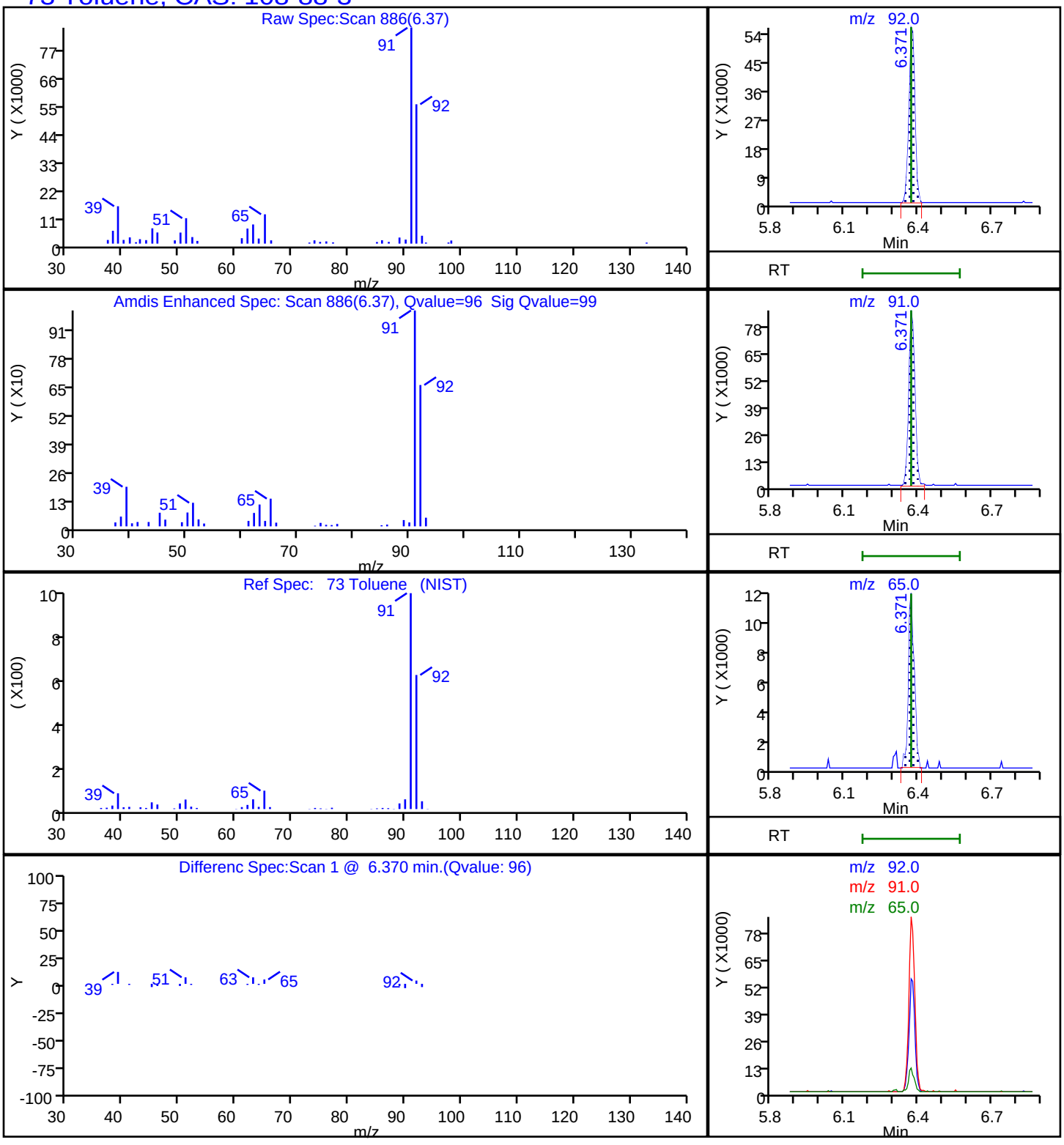
Report Date: 31-Oct-2024 16:01:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

73 Toluene, CAS: 108-88-3



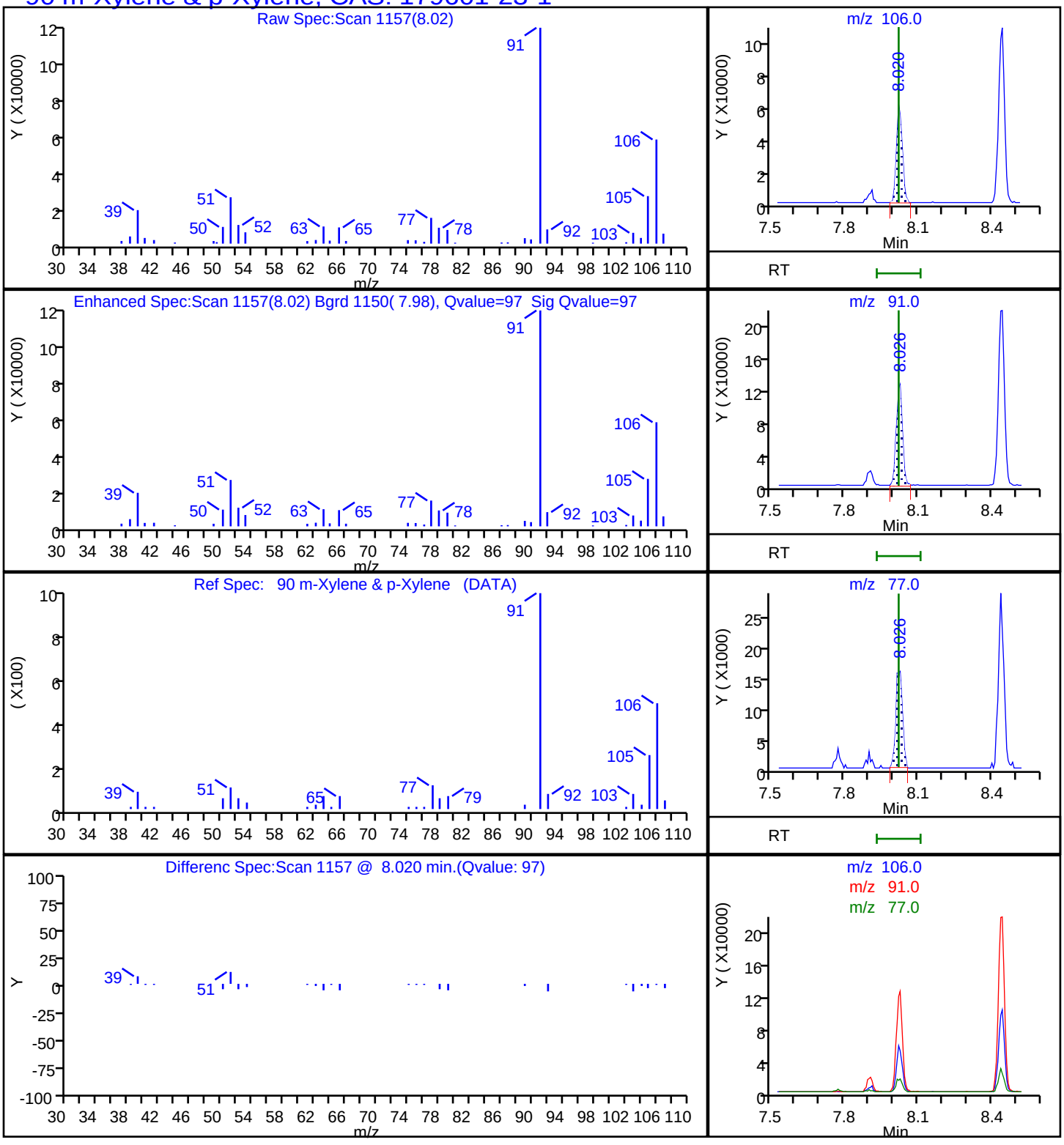
Report Date: 31-Oct-2024 16:01:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19
Client ID:	MW-BCP-19A-10252024		
Operator ID:	AD	ALS Bottle#:	57 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



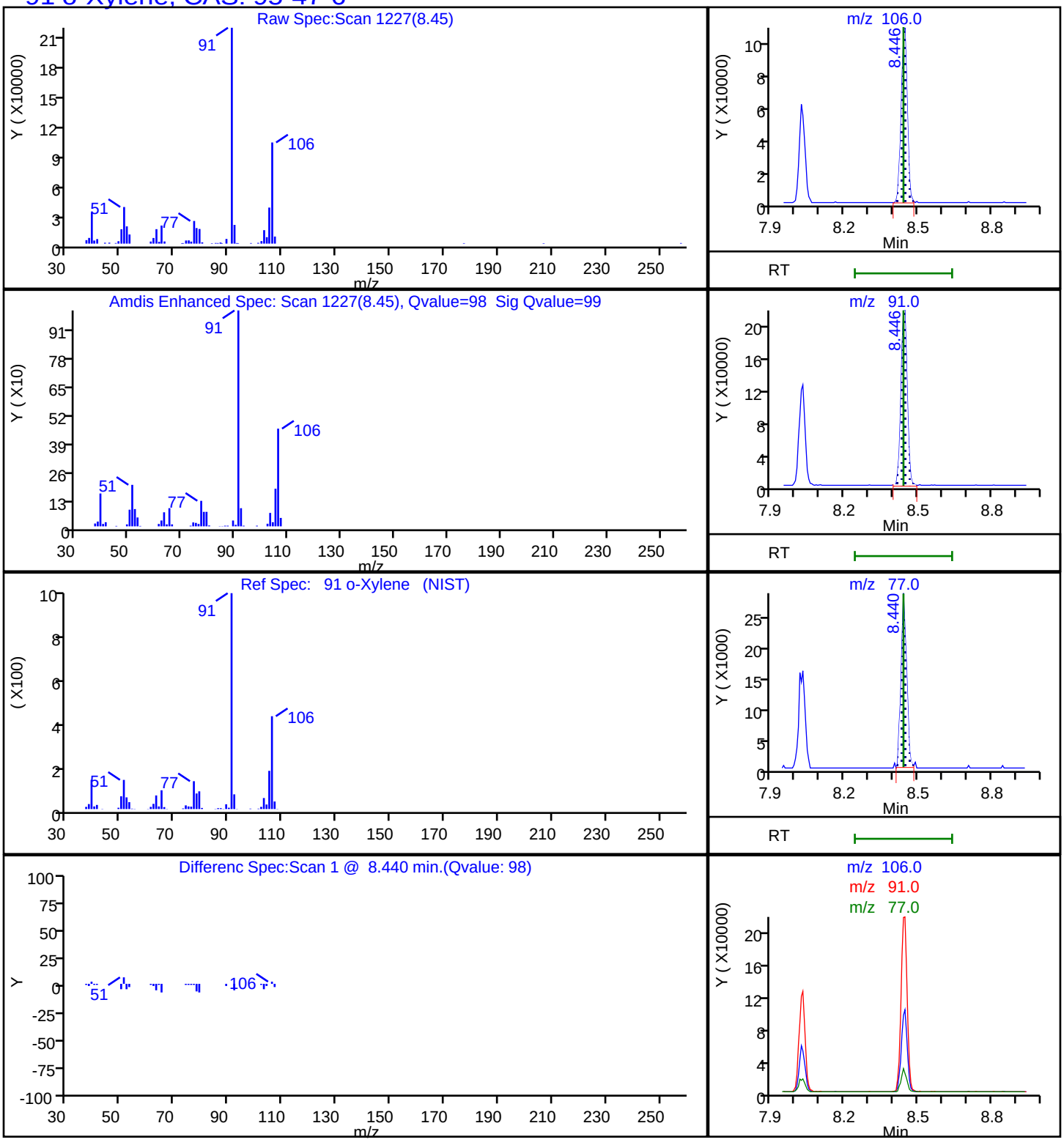
Report Date: 31-Oct-2024 16:01:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d

Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

91 o-Xylene, CAS: 95-47-6



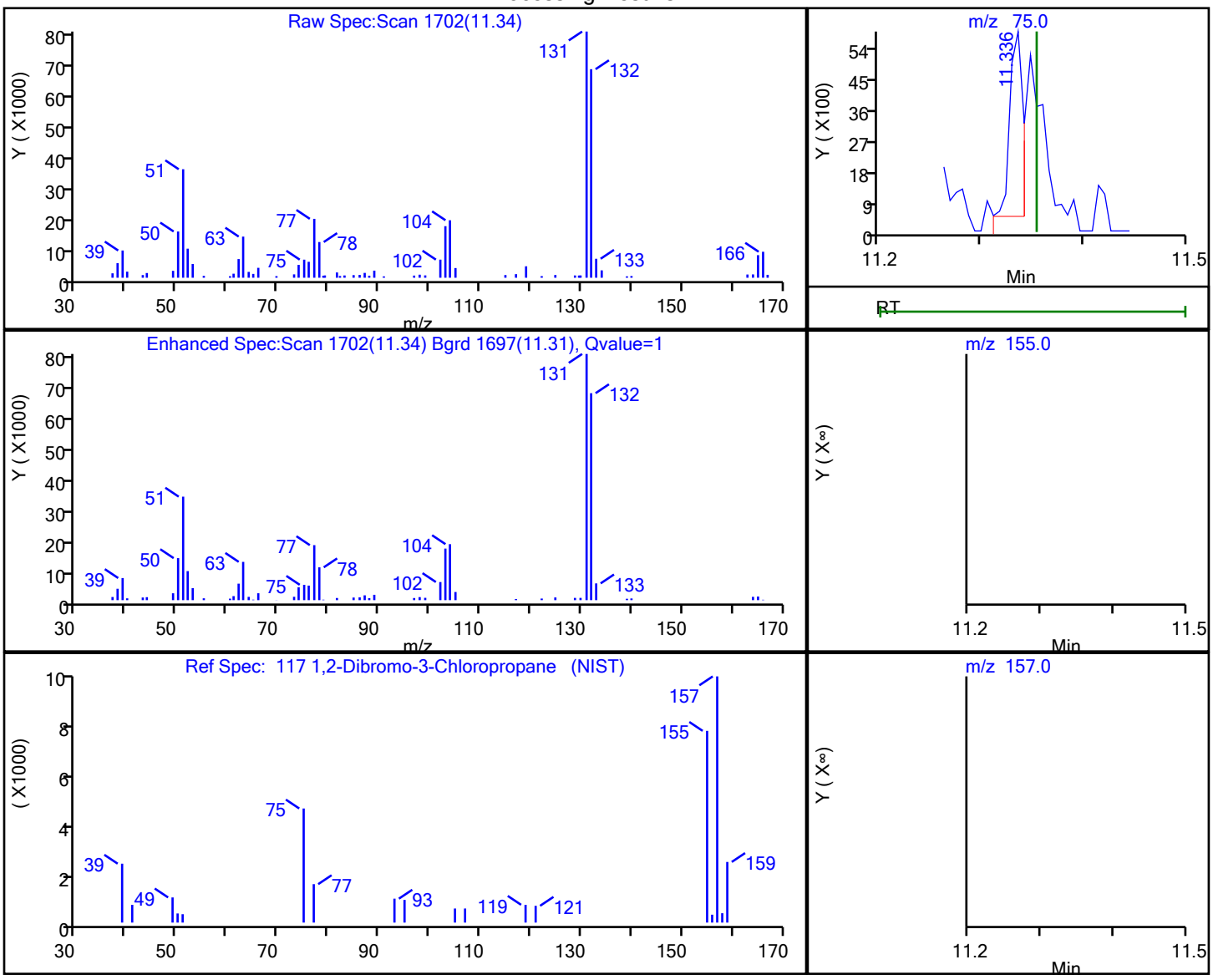
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d				
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-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
11.34	75.00	4905	2.534829
11.35	155.00	0	
11.35	157.00	0	

Reviewer: HF3K, 31-Oct-2024 16:01:02 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

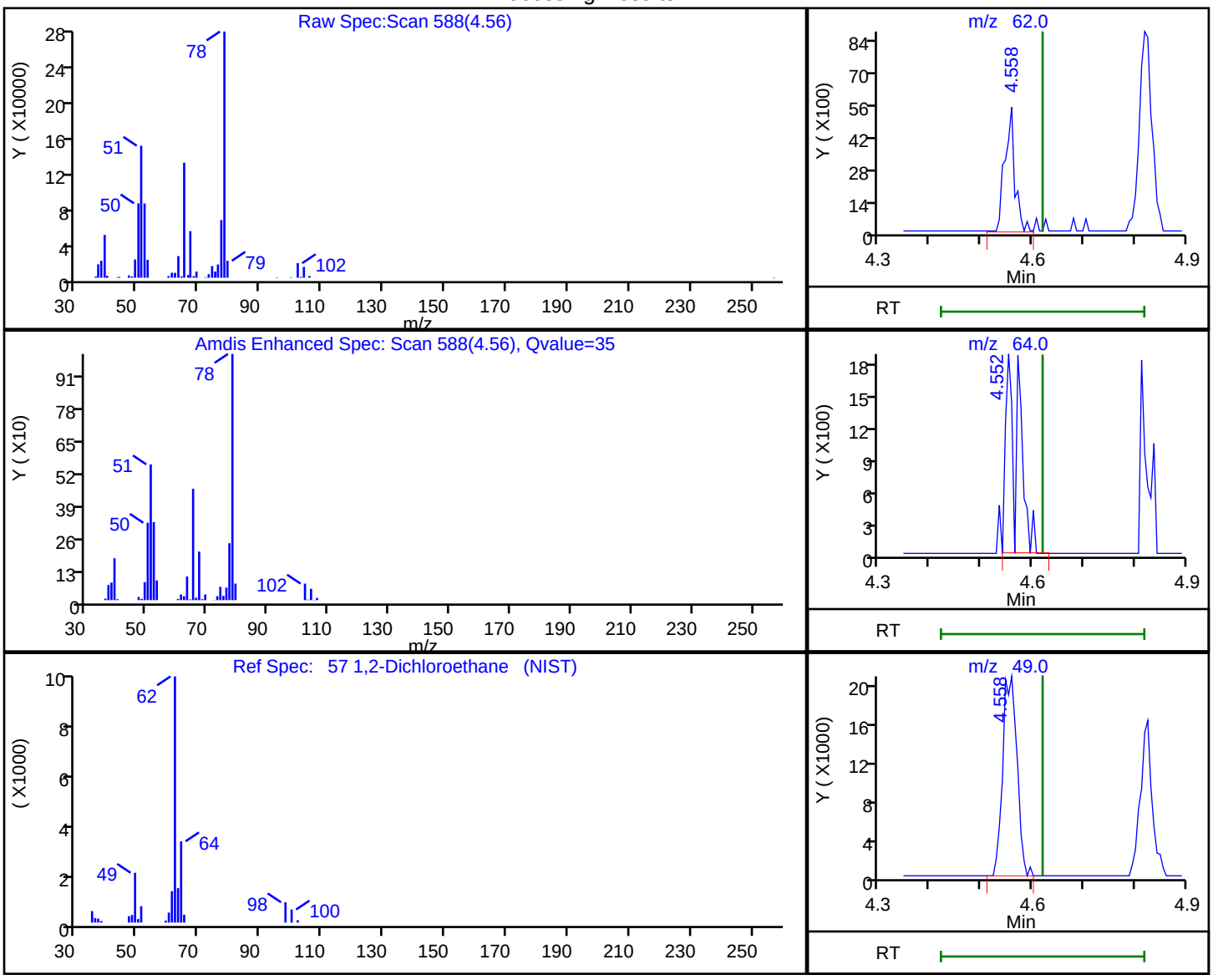
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d				
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.56	62.00	7340	0.604721
4.55	64.00	3285	
4.56	49.00	39577	

Reviewer: HF3K, 31-Oct-2024 16:00:20 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

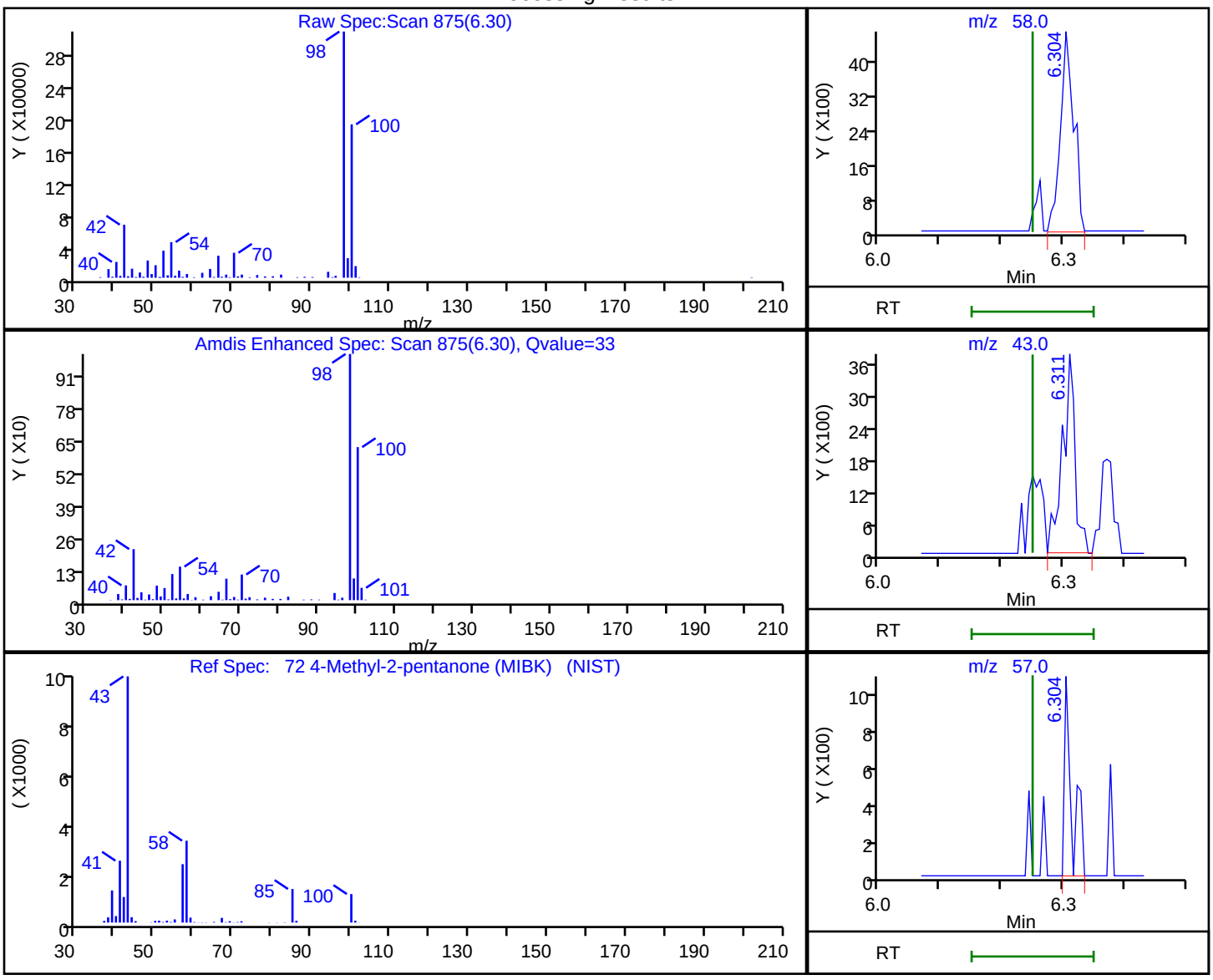
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d				
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.30	58.00	6994	1.325488
6.31	43.00	5307	
6.30	57.00	893	

Reviewer: HF3K, 31-Oct-2024 16:00:37 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

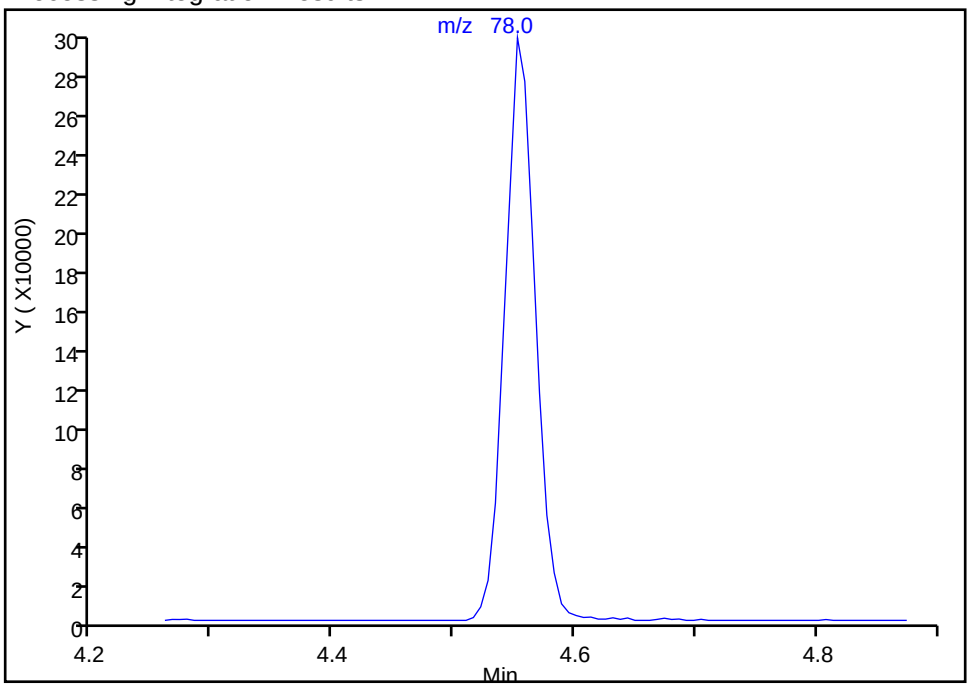
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d				
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Benzene, CAS: 71-43-2

Signal: 1

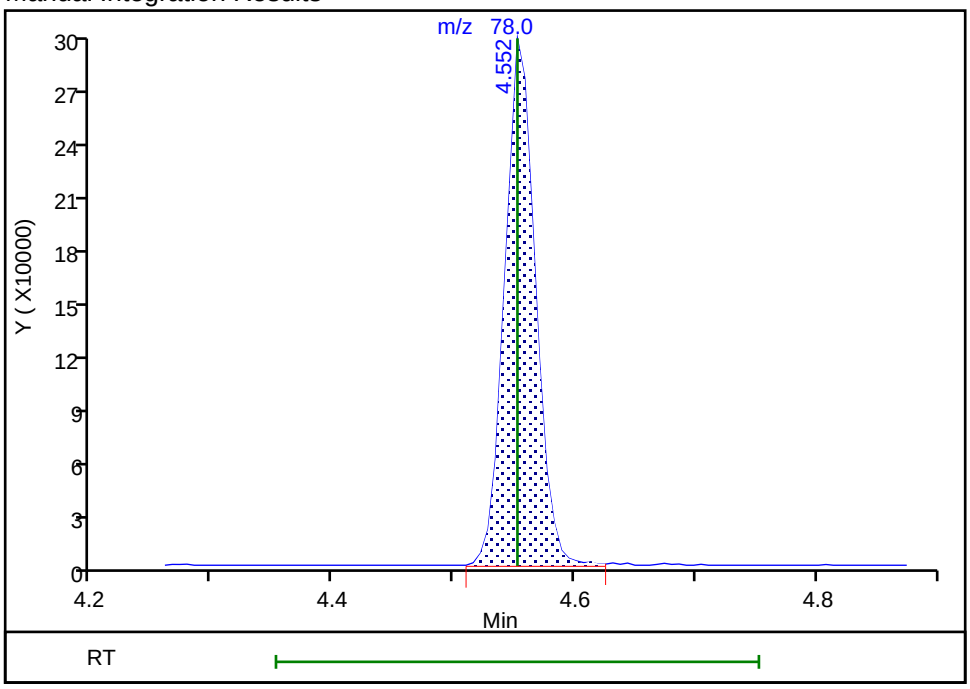
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 519888
Amount: 22.024391
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 16:00:12 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

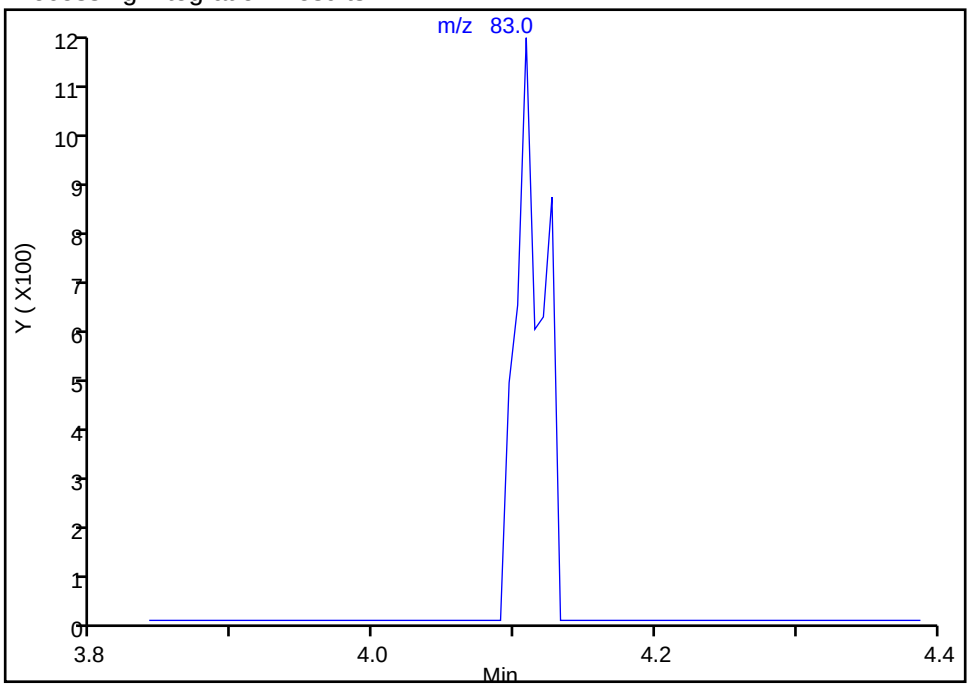
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d				
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3

Signal: 1

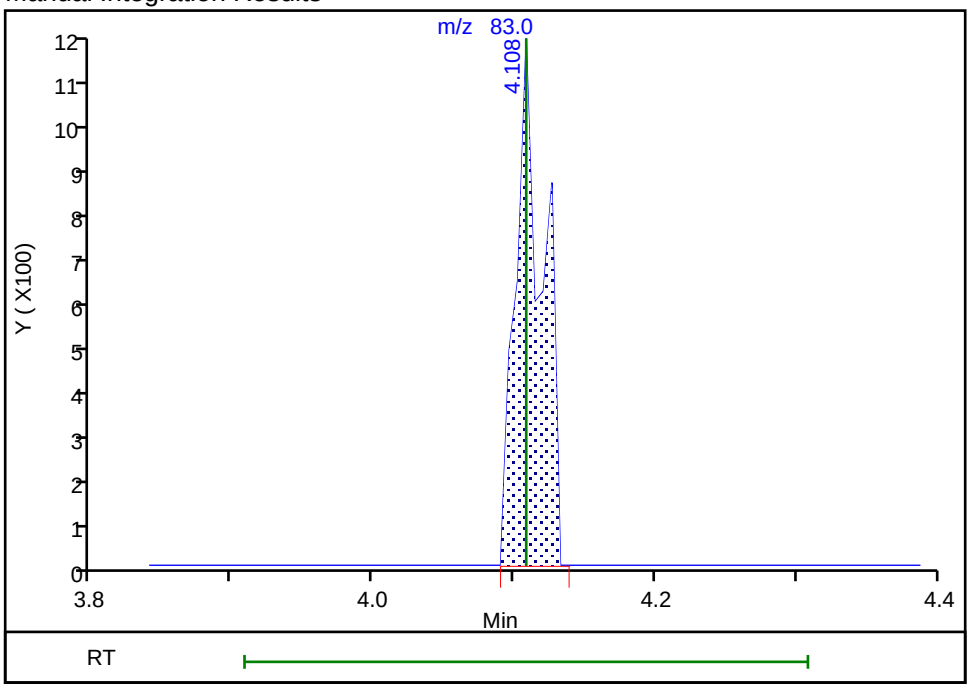
Not Detected
Expected RT: 4.11

Processing Integration Results



Manual Integration Results

RT: 4.11
Area: 1588
Amount: 0.140616
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 16:00:02 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

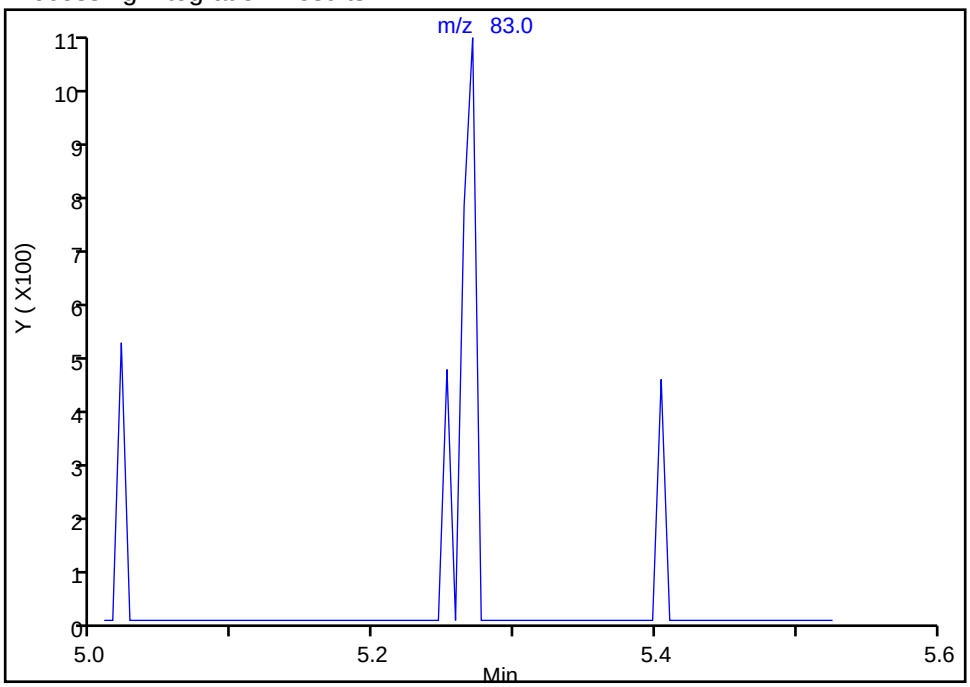
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1257.d				
Injection Date:	31-Oct-2024 09:01:30	Instrument ID:	HP5973N		
Lims ID:	480-224869-E-19	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	AD	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Methylcyclohexane, CAS: 108-87-2

Signal: 1

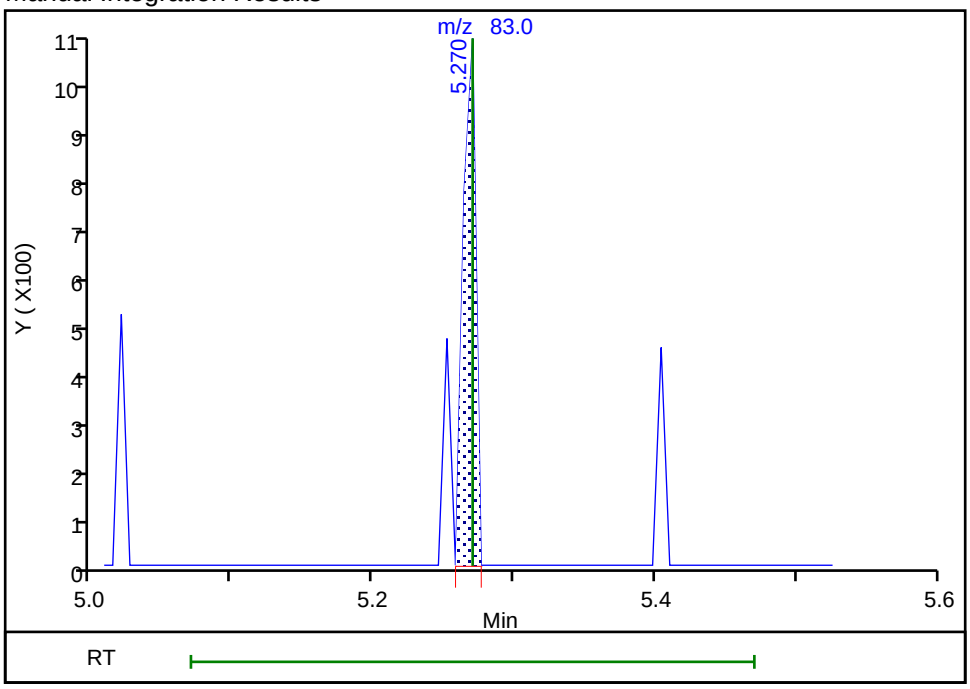
Not Detected
Expected RT: 5.27

Processing Integration Results



Manual Integration Results

RT: 5.27
Area: 625
Amount: 0.062991
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 16:00:28 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-729617/13	N0904.d
Level 2	IC 480-729617/14	N0905.d
Level 3	IC 480-729617/15	N0906.d
Level 4	IC 480-729617/16	N0907.d
Level 5	IC 480-729617/17	N0908.d
Level 6	ICIS 480-729617/18	N0909.d
Level 7	IC 480-729617/19	N0910.d
Level 8	IC 480-729617/20	N0911.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.0770 1.3488	1.2795 1.2594	1.0978 1.1711	1.2262	1.3939	Ave		1.2317			0.1000	9.1		20.0			
Chloromethane	2.5064 2.6708	2.3424 2.4810	2.5295 2.4792	2.5879	2.6572	Ave		2.5318			0.1000	4.2		20.0			
Vinyl chloride	1.3092 1.4435	1.3963 1.3568	1.1209 1.3247	1.3109	1.4268	Ave		1.3361			0.1000	7.6		20.0			
Butadiene	2.1303 2.2689	2.1906 2.1444	1.8644 2.0649	2.0859	2.3519	Ave		2.1376				6.8		20.0			
Bromomethane	+++++ 0.7457	0.7906 0.7037	0.7250 0.6895	0.7581	0.8998	Ave		0.7589			0.1000	9.3		20.0			
Chloroethane	+++++ 0.9094	1.0602 0.8434	1.0319 0.8313	0.9561	0.9247	Ave		0.9367			0.1000	9.3		20.0			
Trichlorofluoromethane	1.4572 1.7896	1.7603 1.6819	1.4701 1.6120	1.5673	1.9001	Ave		1.6548			0.1000	9.5		20.0			
Dichlorofluoromethane	2.2486 2.1476	2.3687 2.0222	1.9831 1.9674	2.0343	2.3307	Ave		2.1378				7.5		20.0			
Ethyl ether	+++++ 1.3272	1.2962 1.2888	1.4831 1.3348	1.3861	1.4179	Ave		1.3620				5.2		20.0			
Acrolein	+++++ 0.1983	0.2362 0.1846	0.2227 0.1928	0.2112	0.2155	Ave		0.2087				8.6		20.0			
1,1-Dichloroethene	+++++ 0.9193	0.8439 0.8594	0.8401 0.8147	0.7831	0.8977	Ave		0.8512			0.1000	5.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.7821 0.9417	0.8467 0.9249	0.9576 0.8425	0.8183	0.8872	Ave		0.8751			0.1000	7.2		20.0			
Acetone	1.0969 0.8428	0.9548 0.7944	0.9862 0.7988	0.9133	0.8683	Ave		0.9069			0.1000	11.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	1.4092 1.7080	1.4792 1.6240	1.6529 1.6173	1.6421	1.7657	Ave		1.6123				7.2		20.0			
Carbon disulfide	2.5652 3.2621	3.2839 3.1484	3.3918 2.9871	2.8316	3.2287	Ave		3.0873			0.1000	8.9		20.0			
Allyl chloride	3.6684 3.6133	3.2845 3.4581	4.0951 3.4068	3.5093	3.7119	Ave		3.5934				6.9		20.0			
Methyl acetate	2.8057 2.2527	2.7036 2.1923	2.5602 2.2361	2.3082	2.3581	Ave		2.4271			0.1000	9.6		20.0			
Methylene Chloride	1.2135 1.0707	1.1035 1.0211	1.2215 1.0194	1.0071	1.2002	Lin1	0.1551	1.0321			0.1000	10.0			0.9980		0.9900
2-Methyl-2-propanol	0.2282 0.2279	0.2381 0.2001	0.2409 0.2346	0.2331	0.2579	Ave		0.2326				7.0		20.0			
Methyl tert-butyl ether	4.0562 3.6325	3.4641 3.5503	3.8510 3.6175	3.4549	3.9888	Ave		3.7019			0.1000	6.3		20.0			
trans-1,2-Dichloroethene	1.0192 1.0951	0.9470 1.0198	1.0835 1.0158	0.9601	1.1079	Ave		1.0310			0.1000	5.8		20.0			
Acrylonitrile	1.1217 1.0874	1.1825 1.0543	1.1094 1.0716	1.1491	1.1302	Ave		1.1133				3.8		20.0			
Hexane	+++++ 2.4997	1.9908 2.4804	2.3616 2.2673	2.2168	2.3162	Ave		2.3047				7.5		20.0			
1,1-Dichloroethane	1.9605 2.4629	2.3158 2.3732	2.4907 2.4217	2.5458	2.5535	Ave		2.3905			0.2000	8.0		20.0			
Vinyl acetate	4.8423 4.7079	4.5728 4.8008	4.6752 4.9281	4.6783	4.5245	Ave		4.7162				2.9		20.0			
2,2-Dichloropropane	+++++ 1.5183	1.2649 1.4584	1.5751 1.3790	1.3058	1.5433	Ave		1.4350				8.4		20.0			
cis-1,2-Dichloroethene	1.0067 1.1223	1.1809 1.1356	1.1846 1.0943	1.1312	1.1865	Ave		1.1303			0.1000	5.3		20.0			
2-Butanone (MEK)	1.7246 1.3997	1.3771 1.3606	1.6885 1.3945	1.5429	1.3630	Ave		1.4814			0.1000	10.2		20.0			
Chlorobromomethane	+++++ 0.5978	0.4734 0.5693	0.5476 0.5778	0.5419	0.6118	Ave		0.5600				8.1		20.0			
Tetrahydrofuran	+++++ 1.0001	1.3171 0.9417	1.1990 0.9561	1.1302	1.0371	Ave		1.0830				12.8		20.0			
Chloroform	+++++ 1.8617	2.2469 1.7985	2.0703 1.8082	1.7656	1.9784	Ave		1.9328			0.2000	9.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	1.2168 1.6803	1.5787 1.6091	1.6954 1.6142	1.5821	1.7392	Ave		1.5895			0.1000	10.1		20.0			
Cyclohexane	+++++ 3.1409	2.6688 3.0725	2.9753 2.9274	2.6904	3.2164	Ave		2.9560			0.1000	7.2		20.0			
Carbon tetrachloride	+++++ 1.5642	1.2270 1.5769	1.5228 1.5293	1.3725	1.5975	Ave		1.4843			0.1000	9.1		20.0			
1,1-Dichloropropene	1.1083 1.4660	1.2514 1.4364	1.4481 1.3611	1.3453	1.3808	Ave		1.3497				8.8		20.0			
Benzene	3.4114 4.1717	4.1918 4.0071	4.3188 4.0134	3.9793	4.2259	Ave		4.0399			0.5000	7.0		20.0			
Isobutyl alcohol	+++++ 0.1251	0.1318 0.1243	0.1416 0.1300	0.1376	0.1319	Ave		0.1317				4.7		20.0			
1,2-Dichloroethane	2.2330 2.0682	1.9726 1.9870	2.2420 2.0316	2.0306	2.0536	Ave		2.0773			0.1000	5.0		20.0			
n-Heptane	+++++ 2.9535	3.1092 3.0684	3.0705 2.7780	2.8960	2.9410	Ave		2.9738				3.9		20.0			
Trichloroethene	+++++ 1.0610	1.0671 1.0312	1.0915 1.0397	1.0005	0.9997	Ave		1.0415			0.2000	3.3		20.0			
Methylcyclohexane	+++++ 1.8438	1.4953 1.8181	1.6559 1.7228	1.5103	1.8405	Ave		1.6981			0.1000	8.8		20.0			
1,2-Dichloropropane	1.1552 1.3113	1.2074 1.3088	1.3034 1.2840	1.3449	1.3341	Ave		1.2811			0.1000	5.1		20.0			
Dibromomethane	0.7214 0.6903	0.8971 0.6767	0.7990 0.6846	0.7380	0.6738	Ave		0.7351			0.1000	10.6		20.0			
1,4-Dioxane	+++++ 0.0034	0.0025 0.0029	0.0021 0.0030	0.0032	0.0030	Ave		0.0029				14.6		20.0			
Bromodichloromethane	1.0773 1.3501	1.1577 1.3204	1.2907 1.3456	1.1879	1.3071	Ave		1.2546			0.2000	8.0		20.0			
2-Chloroethyl vinyl ether	+++++ 0.9332	0.7539 0.9292	0.9245 0.9229	0.9076	0.8665	Ave		0.8911				7.3		20.0			
cis-1,3-Dichloropropene	1.6163 1.7076	1.4312 1.7222	1.7329 1.7285	1.7036	1.6614	Ave		1.6630			0.2000	6.1		20.0			
4-Methyl-2-pentanone (MIBK)	0.3006 0.2725	0.2763 0.2628	0.2922 0.2644	0.2643	0.2675	Ave		0.2751			0.1000	5.1		20.0			
Toluene	0.6439 0.7253	0.5962 0.7041	0.6998 0.7102	0.7011	0.6791	Ave		0.6825			0.4000	6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
trans-1,3-Dichloropropene	0.3799 0.4476	0.3779 0.4445	0.4264 0.4625	0.4627	0.3996	Ave		0.4252			0.1000	8.2		20.0			
Ethyl methacrylate	0.3809 0.4337	0.4377 0.4200	0.4302 0.4403	0.4233	0.4250	Ave		0.4239				4.4		20.0			
1,1,2-Trichloroethane	+++++ 0.2160	0.1815 0.2139	0.2353 0.2130	0.2273	0.2005	Ave		0.2125			0.1000	8.3		20.0			
Tetrachloroethene	0.2338 0.3029	0.2781 0.3025	0.3086 0.2869	0.2922	0.2825	Ave		0.2859			0.2000	8.3		20.0			
1,3-Dichloropropane	0.3970 0.4436	0.4781 0.4291	0.4952 0.4441	0.4018	0.4136	Ave		0.4378				8.0		20.0			
2-Hexanone	0.6700 0.6075	0.6502 0.5825	0.6028 0.5899	0.6269	0.5977	Ave		0.6159			0.1000	5.0		20.0			
Dibromochloromethane	0.2379 0.3000	0.2574 0.2932	0.3074 0.3140	0.2699	0.2600	Ave		0.2800			0.1000	9.8		20.0			
1,2-Dibromoethane	0.2664 0.2906	0.2931 0.2803	0.2685 0.2864	0.2852	0.2713	Ave		0.2802				3.7		20.0			
Chlorobenzene	0.6585 0.7729	0.7186 0.7732	0.7885 0.7791	0.7494	0.7275	Ave		0.7460			0.5000	5.8		20.0			
Ethylbenzene	1.2143 1.3723	1.2296 1.3486	1.3124 1.3389	1.2850	1.3022	Ave		1.3004			0.1000	4.3		20.0			
1,1,1,2-Tetrachloroethane	0.2314 0.3028	0.2359 0.3028	0.3291 0.3074	0.2792	0.2993	Ave		0.2860				12.3		20.0			
m,p-Xylene	0.4988 0.5461	0.4348 0.5329	0.5608 0.5184	0.4838	0.5245	Ave		0.5125			0.1000	7.8		20.0			
o-Xylene	0.4235 0.5524	0.4768 0.5404	0.5641 0.5265	0.5008	0.5165	Ave		0.5126			0.3000	8.9		20.0			
Styrene	0.8047 0.8858	0.7670 0.8589	0.8624 0.8699	0.8109	0.8184	Ave		0.8348			0.3000	4.9		20.0			
Bromoform	0.1801 0.1927	0.1559 0.2027	0.1670 0.2166	0.1631	0.1845	Ave		0.1828			0.1000	11.3		20.0			
Isopropylbenzene	+++++ 2.6009	2.3561 2.5525	2.5500 2.4274	2.3758	2.4737	Ave		2.4766			0.1000	3.8		20.0			
Bromobenzene	0.5379 0.6675	0.6411 0.6519	0.6366 0.6645	0.6711	0.6459	Ave		0.6396				6.7		20.0			
1,1,2,2-Tetrachloroethane	0.9651 0.7509	0.7628 0.7788	0.8419 0.7420	0.7512	0.7581	Ave		0.7939			0.3000	9.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	2.3840 3.1235	2.8480 3.1204	3.0767 3.0251	2.9054	3.0585	Ave		2.9427				8.4		20.0			
1,2,3-Trichloropropane	0.3226 0.2634	0.2613 0.2502	0.2557 0.2473	0.2877	0.2588	Ave		0.2684				9.4		20.0			
trans-1,4-Dichloro-2-butene	0.4336 0.4473	0.3629 0.4470	0.4343 0.4692	0.4028	0.4033	Ave		0.4251				7.9		20.0			
2-Chlorotoluene	0.5140 0.6347	0.5927 0.6285	0.6593 0.6108	0.6419	0.6437	Ave		0.6157				7.5		20.0			
1,3,5-Trimethylbenzene	1.8828 2.3575	1.8163 2.3771	2.3304 2.2424	2.1766	2.2425	Ave		2.1782				9.8		20.0			
4-Chlorotoluene	+++++ 2.1734	1.9370 2.1753	2.2085 2.1130	2.1332	2.0370	Ave		2.1110				4.5		20.0			
tert-Butylbenzene	0.4864 0.5159	0.3349 0.5099	0.4492 0.4765	0.4821	0.4601	Ave		0.4644				12.3		20.0			
1,2,4-Trimethylbenzene	2.2232 2.3896	2.3167 2.3879	2.3862 2.3136	2.1865	2.3142	Ave		2.3147				3.3		20.0			
sec-Butylbenzene	+++++ 2.9751	2.4685 2.9692	2.5950 2.7866	2.6763	2.8024	Ave		2.7533				6.8		20.0			
1,3-Dichlorobenzene	1.0963 1.2186	1.0234 1.2189	1.2340 1.2169	1.2104	1.2302	Ave		1.1811			0.6000	6.6		20.0			
4-Isopropyltoluene	+++++ 2.6211	2.1338 2.6507	2.4882 2.4884	2.3616	2.5048	Ave		2.4641				7.1		20.0			
1,4-Dichlorobenzene	1.0114 1.2562	1.2127 1.2345	1.3659 1.2169	1.1897	1.2399	Ave		1.2159			0.5000	8.1		20.0			
n-Butylbenzene	1.9395 2.2306	1.9504 2.2526	2.1937 2.1178	2.0912	2.1563	Ave		2.1165				5.6		20.0			
1,2-Dichlorobenzene	1.2003 1.2121	1.1218 1.2226	1.2488 1.1668	1.1574	1.2439	Ave		1.1967			0.4000	3.7		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1954	0.1538 0.1870	0.1745 0.1929	0.1574	0.1629	Ave		0.1748			0.0500	9.9		20.0			
1,2,4-Trichlorobenzene	0.7656 0.8908	0.7612 0.8908	0.9285 0.8431	0.8549	0.9454	Ave		0.8600			0.2000	8.0		20.0			
Hexachlorobutadiene	+++++ 0.4619	0.3756 0.4366	0.4566 0.3868	0.4481	0.4380	Ave		0.4291				7.9		20.0			
Naphthalene	2.8746 2.6824	2.4668 2.6395	2.6427 2.6970	2.5880	2.7293	Ave		2.6650				4.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	0.8896 0.8532	0.7790 0.8226	0.7875 0.8254	0.8356	0.8996	Ave		0.8366				5.2		20.0			
Dibromofluoromethane (Surr)	1.1051 1.1310	1.1264 1.1199	1.1229 1.1217	1.1519	1.2089	Ave		1.1360				2.8		20.0			
1,2-Dichloroethane-d4 (Surr)	1.6577 1.6244	1.6508 1.6493	1.8069 1.6979	1.6979	1.7346	Ave		1.6899				3.5		20.0			
Toluene-d8 (Surr)	1.1076 1.1530	1.1431 1.1507	1.1778 1.1624	1.1351	1.1245	Ave		1.1443				1.9		20.0			
4-Bromofluorobenzene (Surr)	0.3506 0.3696	0.3598 0.3572	0.3620 0.3714	0.3673	0.3491	Ave		0.3609				2.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-729617/13	N0904.d
Level 2	IC 480-729617/14	N0905.d
Level 3	IC 480-729617/15	N0906.d
Level 4	IC 480-729617/16	N0907.d
Level 5	IC 480-729617/17	N0908.d
Level 6	ICIS 480-729617/18	N0909.d
Level 7	IC 480-729617/19	N0910.d
Level 8	IC 480-729617/20	N0911.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	3952 251012	9727 488483	16011 903763	46077	96382	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	9197 497018	17807 962289	36891 1913196	97247	183733	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	4804 268638	10615 526230	16348 1022288	49260	98657	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	7817 422226	16653 831712	27191 1593481	78382	162626	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	+++++ 138778	6010 272920	10573 532093	28489	62218	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	+++++ 169238	8060 327123	15049 641496	35926	63936	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	5347 333030	13382 652357	21440 1243999	58896	131384	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	8251 399652	18007 784330	28922 1518252	76444	161159	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	+++++ 246991	9854 499893	21630 1030037	52085	98041	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	+++++ 184490	8978 357947	16238 743794	39686	74494	+++++ 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	+++++ 171087	6415 333346	12253 628725	29427	62074	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2870 175238	6437 358744	13966 650169	30749	61348	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	20126 784172	36293 1540528	71916 3081995	171606	300200	2.50 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	5171 317849	11245 629877	24106 1248048	61704	122090	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	9413	24964	49468	106403	223251	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.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			607056	1221153	2305151			25.0	50.0	100		
Allyl chloride	FB	Ave	13461 672422	24969 1341274	59724 2628995	131870	256664	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	20591 838419	41106 1700632	74679 3451168	173469	326100	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	4453 199246	8389 396030	17815 786705	37843	82986	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	8374 424094	18104 776030	35132 1810451	87581	178352	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	14884 675986	26334 1377010	56164 2791657	129825	275810	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	3740 203794	7199 395525	15802 783924	36077	76604	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	41159 2023564	89895 4089079	161797 8269562	431814	781512	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	+++++ 465177	15134 962042	34442 1749657	83303	160159	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	7194 458342	17605 920482	36326 1868833	95665	176561	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	35537 1752232	69525 3724054	136369 7606066	351595	625705	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 282542	9616 565646	22972 1064188	49068	106712	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	3694 208862	8977 440470	17277 844506	42507	82044	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	31642 1302348	52345 2638672	123126 5380853	289882	471218	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	+++++ 111241	3599 220813	7987 445906	20364	42303	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	+++++ 372213	20025 730520	34973 1475644	84941	143419	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	+++++ 346456	17081 697554	30194 1395356	66345	136800	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	4465 312704	12001 624110	24726 1245700	59452	120262	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	+++++ 584505	20288 1191716	43393 2259065	101099	222402	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 291098	9328 611598	22209 1180134	51576	110464	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	4067 272826	9513 557140	21119 1050394	50551	95480	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	12518 776339	31866 1554209	62987 3097127	149531	292204	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	+++++ 581981	25043 1205375	51621 2508225	129268	227933	+++++ 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	8194 384893	14996 770684	32698 1567767	76305	142001	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	+++++ 549643	23636 1190100	44782 2143788	108824	203360	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	+++++ 197452	8112 399961	15919 802329	37597	69122	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	+++++ 343124	11367 705179	24151 1329501	56753	127266	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	4239 244028	9179 507625	19010 990874	50536	92249	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2647 128459	6820 262484	11653 528308	27731	46588	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZd5	Ave	+++++ 43482	1306 80075	2223 165143	8574	15206	+++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	3953 251255	8801 512121	18824 1038383	44639	90382	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 173672	5731 360414	13483 712216	34106	59916	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	5931 317778	10880 667988	25274 1333909	64018	114880	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZd5	Ave	19269 878639	36258 1797400	75840 3613599	179831	335660	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZd5	Ave	8254 467790	15649 962946	36322 1941330	95403	170448	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZd5	Ave	4870 288704	9921 607974	22131 1264234	62967	100297	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZd5	Ave	4882 279688	11490 574397	22330 1203486	57600	106669	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZd5	Ave	+++++ 139338	4764 292554	12211 582206	30926	50328	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZd5	Ave	2997	7299	16016	39758	70889	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.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			195343	413702	784158			25.0	50.0	100		
1,3-Dichloropropane	CBNZd5	Ave	5089 286068	12549 586951	25705 1214069	54683	103810	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZd5	Ave	42944 1959122	85337 3983242	156444 8062514	426559	750027	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZd5	Ave	3049 193508	6758 401023	15953 858364	36723	65247	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZd5	Ave	3415 187423	7693 383415	13937 782843	38806	68089	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZd5	Ave	8441 498469	18862 1057529	40926 2129680	101981	182576	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZd5	Ave	15565 885059	32278 1844552	68119 3659980	174871	326816	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	2966 195298	6193 414133	17082 840227	37991	75124	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZd5	Ave	6394 352200	11413 728897	29108 1417186	65839	131636	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZd5	Ave	5428 356241	12517 739181	29281 1439285	68148	129636	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZd5	Ave	10315 571283	20133 1174737	44761 2378101	110352	205407	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZd5	Ave	2309 124305	4092 277249	8668 592065	22195	46309	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd4	Ave	+++++ 867730	31887 1761960	67834 3434984	163430	315908	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd4	Ave	3548 222712	8677 449970	16934 940341	46166	82490	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd4	Ave	6366 250522	10324 537624	22396 1049963	51676	96817	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd4	Ave	15725 1042109	38545 2153985	81845 4280804	199860	390582	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd4	Ave	2128	3536	6802	19791	33055	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.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			87879	172687	349977			25.0	50.0	100		
trans-1,4-Dichloro-2-butene	DCBd4	Ave	2860 149225	4911 308530	11553 663989	27711	51508	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd4	Ave	3390 211759	8021 433827	17537 864334	44158	82199	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd4	Ave	12419 786527	24582 1640902	61991 3173148	149724	286373	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd4	Ave	+++++ 725107	26215 1501538	58748 2990117	146740	260130	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd4	Ave	3208 172113	4532 352003	11950 674298	33164	58761	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd4	Ave	14664 797239	31354 1648316	63477 3273916	150405	295529	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd4	Ave	+++++ 992582	33408 2049587	69031 3943300	184099	357878	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd4	Ave	7231 406581	13850 841390	32826 1722029	83263	157097	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd4	Ave	+++++ 874490	28879 1829741	66189 3521306	162451	319869	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dichlorobenzene	DCBd4	Ave	6671 419121	16413 852155	36334 1721961	81835	158347	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd4	Ave	12793 744208	26396 1554916	58355 2996787	143850	275364	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd4	Ave	7917 404393	15182 843927	33220 1651055	79614	158853	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	+++++ 65193	2081 129051	4643 272899	10827	20800	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd4	Ave	5050 297211	10302 614881	24699 1192991	58807	120727	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd4	Ave	+++++ 154110	5083 301347	12146 547369	30824	55929	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd4	Ave	18961 894930	33386 1821995	70298 3816424	178024	348547	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd4	Ave	5868 284643	10543 567826	20948 1168002	57483	114880	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	202752 210471	214078 217189	204704 216413	216420	208978	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	304138 302301	313731 319857	329398 327568	319011	299845	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZd5	Ave	709871	750165	764142	772367	705530	25.0	25.0	25.0	25.0	25.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			743629	786930	794383			25.0	25.0	25.0		
4-Bromofluorobenzene (Surr)	CBNZd 5	Ave	224695	236117	234894	249929	219057	25.0	25.0	25.0	25.0	25.0
			238347	244279	253835			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.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-729617/13	N0904.d
Level 2	IC 480-729617/14	N0905.d
Level 3	IC 480-729617/15	N0906.d
Level 4	IC 480-729617/16	N0907.d
Level 5	IC 480-729617/17	N0908.d
Level 6	ICIS 480-729617/18	N0909.d
Level 7	IC 480-729617/19	N0910.d
Level 8	IC 480-729617/20	N0911.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-12.6						30					
Chloromethane	-1.0						30					
Vinyl chloride	-2.0						30					
Butadiene	-0.3						30					
Bromomethane	+++++	4.2						30				
Chloroethane	+++++	13.2						30				
Trichlorofluoromethane	-11.9						30					
Dichlorofluoromethane	5.2						30					
Ethyl ether	+++++	-4.8						30				
Acrolein	+++++	13.2						30				
1,1-Dichloroethene	+++++	-0.9						30				
1,1,2-Trichloro-1,2,2-trifluoroethane	-10.6						30					
Acetone	21.0						30					
Iodomethane	-12.6						30					
Carbon disulfide	-16.9						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Allyl chloride	2.1						30					
Methyl acetate	15.6						30					
Methylene Chloride	-12.5						30					
2-Methyl-2-propanol	-1.9						30					
Methyl tert-butyl ether	9.6						30					
trans-1,2-Dichloroethene	-1.1						30					
Acrylonitrile	0.8						30					
Hexane	+++++	-13.6						30				
1,1-Dichloroethane	-18.0						30					
Vinyl acetate	2.7						30					
2,2-Dichloropropane	+++++	-11.8						30				
cis-1,2-Dichloroethene	-10.9						30					
2-Butanone (MEK)	16.4						30					
Chlorobromomethane	+++++	-15.5						30				
Tetrahydrofuran	+++++	21.6						30				
Chloroform	+++++	16.3						30				
1,1,1-Trichloroethane	-23.4						30					
Cyclohexane	+++++	-9.7						30				
Carbon tetrachloride	+++++	-17.3						30				
1,1-Dichloropropene	-17.9						30					
Benzene	-15.6						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Isobutyl alcohol	+++++	0.0						30				
1,2-Dichloroethane	7.5						30					
n-Heptane	+++++	4.6						30				
Trichloroethene	+++++	2.5						30				
Methylcyclohexane	+++++	-11.9						30				
1,2-Dichloropropane	-9.8						30					
Dibromomethane	-1.9						30					
1,4-Dioxane	+++++	-13.5						30				
Bromodichloromethane	-14.1						30					
2-Chloroethyl vinyl ether	+++++	-15.4						30				
cis-1,3-Dichloropropene	-2.8						30					
4-Methyl-2-pentanone (MIBK)	9.3						30					
Toluene	-5.6						30					
trans-1,3-Dichloropropene	-10.6						30					
Ethyl methacrylate	-10.1						30					
1,1,2-Trichloroethane	+++++	-14.6						30				
Tetrachloroethene	-18.2						30					
1,3-Dichloropropane	-9.3						30					
2-Hexanone	8.8						30					
Dibromochloromethane	-15.0						30					
1,2-Dibromoethane	-4.9						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 | Calibration End Date: 10/24/2024 17:56 | Calibration ID: 47464

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	-11.7						30					
Ethylbenzene	-6.6						30					
1,1,1,2-Tetrachloroethane	-19.1						30					
m,p-Xylene	-2.7						30					
o-Xylene	-17.4						30					
Styrene	-3.6						30					
Bromoform	-1.5						30					
Isopropylbenzene	+++++	-4.9						30				
Bromobenzene	-15.9						30					
1,1,2,2-Tetrachloroethane	21.6						30					
N-Propylbenzene	-19.0						30					
1,2,3-Trichloropropane	20.2						30					
trans-1,4-Dichloro-2-butene	2.0						30					
2-Chlorotoluene	-16.5						30					
1,3,5-Trimethylbenzene	-13.6						30					
4-Chlorotoluene	+++++	-8.2						30				
tert-Butylbenzene	4.7						30					
1,2,4-Trimethylbenzene	-4.0						30					
sec-Butylbenzene	+++++	-10.3						30				
1,3-Dichlorobenzene	-7.2						30					
4-Isopropyltoluene	+++++	-13.4						30				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 729617

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2024 15:19 Calibration End Date: 10/24/2024 17:56 Calibration ID: 47464

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	-16.8						30					
n-Butylbenzene	-8.4						30					
1,2-Dichlorobenzene	0.3						30					
1,2-Dibromo-3-Chloropropane	+++++	-12.0						30				
1,2,4-Trichlorobenzene	-11.0						30					
Hexachlorobutadiene	+++++	-12.5						30				
Naphthalene	7.9						30					
1,2,3-Trichlorobenzene	6.3						30					
Dibromofluoromethane (Surr)	-2.7						30					
1,2-Dichloroethane-d4 (Surr)	-1.9						30					
Toluene-d8 (Surr)	-3.2						30					
4-Bromofluorobenzene (Surr)	-2.9						30					

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Lims ID: IC 0.5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 24-Oct-2024 15:19:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.5
Misc. Info.: 480-0120783-013
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:09 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:21:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	183473	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.001	91	640920	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	329798	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	202752	25.0	24.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	304138	25.0	24.5	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	94	709871	25.0	24.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	86	224695	25.0	24.3	
11 Dichlorodifluoromethane	85	1.048	1.042	0.006	1	3952	0.5000	0.4372	
13 Chloromethane	50	1.188	1.182	0.006	96	9197	0.5000	0.4950	
14 Vinyl chloride	62	1.255	1.255	0.000	44	4804	0.5000	0.4899	
144 Butadiene	54	1.267	1.267	0.000	91	7817	0.5000	0.4983	
15 Bromomethane	94	1.505	1.504	0.001	21	3769	0.5000	0.6767	
16 Chloroethane	64	1.572	1.565	0.007	34	4262	0.5000	0.6200	M
18 Trichlorofluoromethane	101	1.736	1.742	-0.006	11	5347	0.5000	0.4403	
17 Dichlorofluoromethane	67	1.748	1.742	0.006	37	8251	0.5000	0.5259	a
19 Ethyl ether	59	1.985	1.985	0.000	44	6395	0.5000	0.6398	
20 Acrolein	56	2.149	2.143	0.006	19	6307	2.50	4.12	
22 1,1-Dichloroethene	96	2.186	2.174	0.012	43	2166	0.5000	0.3467	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	0	2870	0.5000	0.4469	M
23 Acetone	43	2.289	2.283	0.006	95	20126	2.50	3.02	a
24 Iodomethane	142	2.320	2.314	0.006	22	5171	0.5000	0.4370	
25 Carbon disulfide	76	2.356	2.350	0.006	95	9413	0.5000	0.4154	
27 3-Chloro-1-propene	41	2.521	2.514	0.007	69	13461	0.5000	0.5104	
28 Methyl acetate	43	2.563	2.563	0.000	98	20591	1.00	1.16	a
30 Methylene Chloride	84	2.654	2.654	0.000	84	4453	0.5000	0.4377	
31 2-Methyl-2-propanol	59	2.837	2.825	0.012	75	8374	5.00	4.91	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	94	14884	0.5000	0.5479	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	43	3740	0.5000	0.4943	a
34 Acrylonitrile	53	2.922	2.922	0.000	89	41159	5.00	5.04	
35 Hexane	57	3.056	3.056	0.000	87	5824	0.5000	0.3443	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.257	3.263	-0.006	1	7194	0.5000	0.4101	
39 Vinyl acetate	43	3.324	3.323	0.001	96	35537	1.00	1.03	
42 2,2-Dichloropropane	77	3.768	3.761	0.007	16	4157	0.5000	0.3947	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	87	3694	0.5000	0.4453	
44 2-Butanone (MEK)	43	3.841	3.834	0.007	95	31642	2.50	2.91	
47 Chlorobromomethane	128	4.023	4.029	-0.006	50	2720	0.5000	0.6619	
49 Tetrahydrofuran	42	4.041	4.041	0.000	84	10512	1.00	1.32	
50 Chloroform	83	4.114	4.108	0.006	86	9471	0.5000	0.6677	
51 1,1,1-Trichloroethane	97	4.212	4.206	0.006	33	4465	0.5000	0.3828	
52 Cyclohexane	56	4.218	4.212	0.006	65	8714	0.5000	0.4017	
53 Carbon tetrachloride	117	4.346	4.339	0.007	34	3729	0.5000	0.3423	
54 1,1-Dichloropropene	75	4.352	4.358	-0.006	71	4067	0.5000	0.4106	
55 Benzene	78	4.552	4.552	0.000	39	12518	0.5000	0.4222	
56 Isobutyl alcohol	43	4.619	4.607	0.012	91	16779	12.5	17.4	
57 1,2-Dichloroethane	62	4.632	4.619	0.013	91	8194	0.5000	0.5375	
59 n-Heptane	43	4.753	4.747	0.006	86	6588	0.5000	0.3019	M
60 Trichloroethene	95	5.167	5.155	0.012	79	2348	0.5000	0.3072	Ma
62 Methylcyclohexane	83	5.264	5.264	0.000	90	4223	0.5000	0.3389	M
63 1,2-Dichloropropane	63	5.392	5.392	0.000	86	4239	0.5000	0.4509	
64 Dibromomethane	93	5.526	5.526	0.000	52	2647	0.5000	0.4906	M
66 1,4-Dioxane	88		5.538				ND	ND	MU
67 Dichlorobromomethane	83	5.684	5.684	0.000	33	3953	0.5000	0.4293	
69 2-Chloroethyl vinyl ether	63	5.976	5.970	0.006	22	2367	0.5000	0.3619	
71 cis-1,3-Dichloropropene	75	6.104	6.098	0.006	82	5931	0.5000	0.4860	M
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	95	19269	2.50	2.73	
73 Toluene	92	6.371	6.371	0.000	95	8254	0.5000	0.4718	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	88	4870	0.5000	0.4468	
77 Ethyl methacrylate	69	6.730	6.724	0.006	76	4882	0.5000	0.4493	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	0	1839	0.5000	0.3376	M
79 Tetrachloroethene	166	6.895	6.894	0.001	43	2997	0.5000	0.4089	
80 1,3-Dichloropropane	76	7.004	6.998	0.006	0	5089	0.5000	0.4534	M
82 2-Hexanone	43	7.089	7.083	0.006	97	42944	2.50	2.72	
83 Chlorodibromomethane	129	7.235	7.229	0.006	23	3049	0.5000	0.4248	
84 Ethylene Dibromide	107	7.321	7.320	0.000	37	3415	0.5000	0.4754	
85 Chlorobenzene	112	7.795	7.801	-0.006	0	8441	0.5000	0.4414	M
88 Ethylbenzene	91	7.898	7.898	0.000	97	15565	0.5000	0.4669	
89 1,1,1,2-Tetrachloroethane	131	7.905	7.904	0.001	46	2966	0.5000	0.4045	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	94	6394	0.5000	0.4866	
91 o-Xylene	106	8.440	8.440	0.000	91	5428	0.5000	0.4130	
92 Styrene	104	8.476	8.476	0.000	92	10315	0.5000	0.4820	
93 Bromoform	173	8.708	8.707	0.001	3	2309	0.5000	0.4926	
95 Isopropylbenzene	105	8.829	8.829	0.000	92	12202	0.5000	0.3735	
97 Bromobenzene	156	9.170	9.170	0.000	81	3548	0.5000	0.4205	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.261	-0.006	50	6366	0.5000	0.6079	
100 N-Propylbenzene	91	9.279	9.273	0.006	97	15725	0.5000	0.4051	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	0	2128	0.5000	0.6011	M
101 trans-1,4-Dichloro-2-butene	53	9.316	9.304	0.012	1	2860	0.5000	0.5101	
102 2-Chlorotoluene	126	9.377	9.377	0.000	92	3390	0.5000	0.4174	
104 1,3,5-Trimethylbenzene	105	9.474	9.468	0.006	95	12419	0.5000	0.4322	
105 4-Chlorotoluene	91	9.492	9.492	0.000	49	8770	0.5000	0.3149	M
106 tert-Butylbenzene	134	9.790	9.796	-0.006	93	3208	0.5000	0.5237	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	94	14664	0.5000	0.4802	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.022	10.021	0.001	91	14113	0.5000	0.3886	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	88	7231	0.5000	0.4641	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	94	11016	0.5000	0.3389	
113 1,4-Dichlorobenzene	146	10.247	10.240	0.007	71	6671	0.5000	0.4159	
115 n-Butylbenzene	91	10.575	10.569	0.006	95	12793	0.5000	0.4582	
116 1,2-Dichlorobenzene	146	10.606	10.599	0.007	94	7917	0.5000	0.5015	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	1	1479	0.5000	0.6413	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	87	5050	0.5000	0.4451	
120 Hexachlorobutadiene	225	12.163	12.157	0.006	73	2021	0.5000	0.3570	
121 Naphthalene	128	12.248	12.248	0.000	96	18961	0.5000	0.5393	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	88	5868	0.5000	0.5317	
S 123 1,3-Dichloropropene, Total	1				0			0.9328	
S 124 1,2-Dichloroethene, Total	1				0			0.9396	
S 125 Total BTEX	1				0			2.26	
S 126 Xylenes, Total	1				0			0.8996	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

8260 CORP mix_00260	Amount Added:	0.50	Units: uL	
GAS CORP mix_00646	Amount Added:	0.50	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

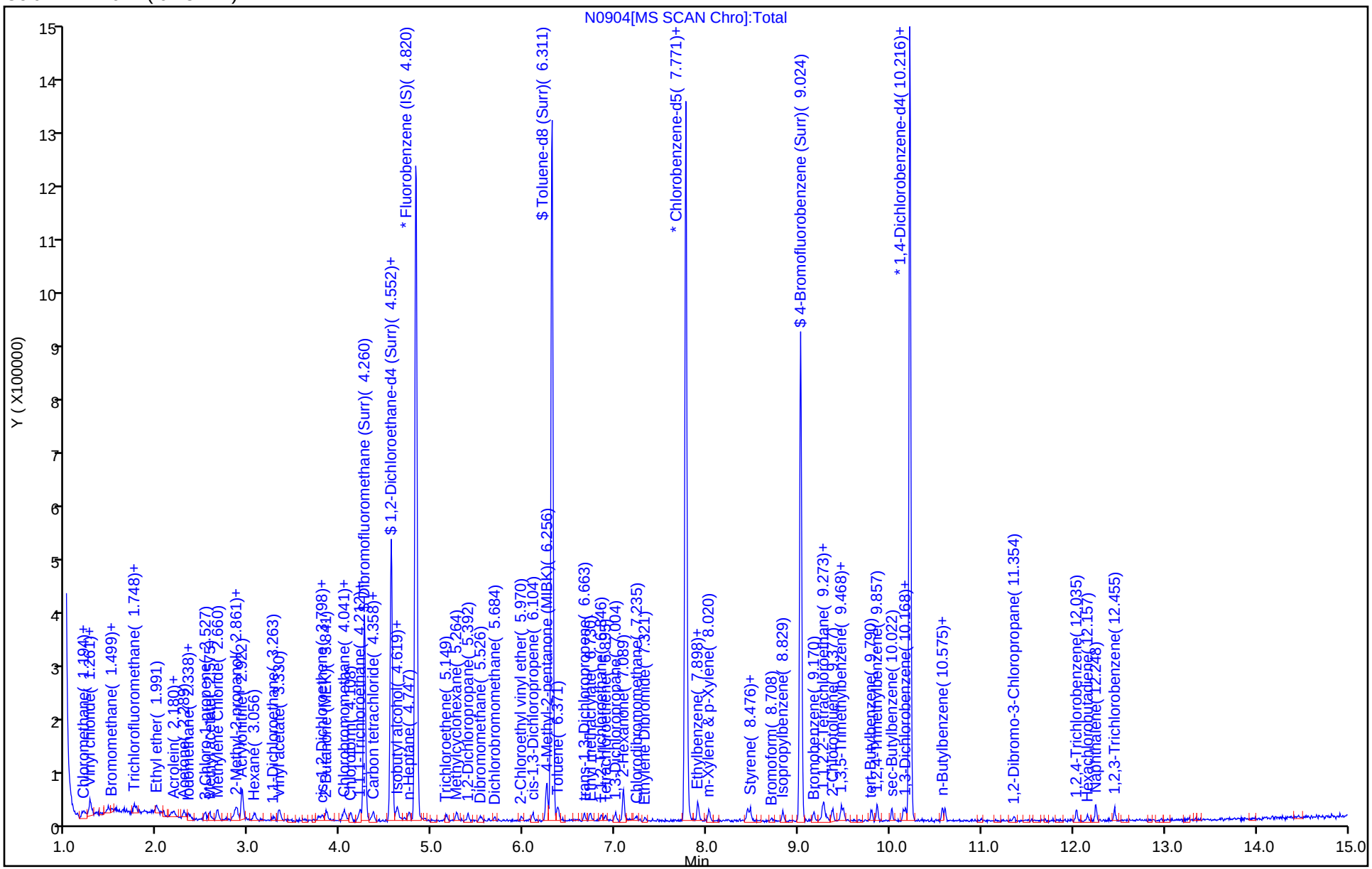
Report Date: 25-Oct-2024 11:16:11 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d

Injection Date:	24-Oct-2024 15:19:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC 0.5			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

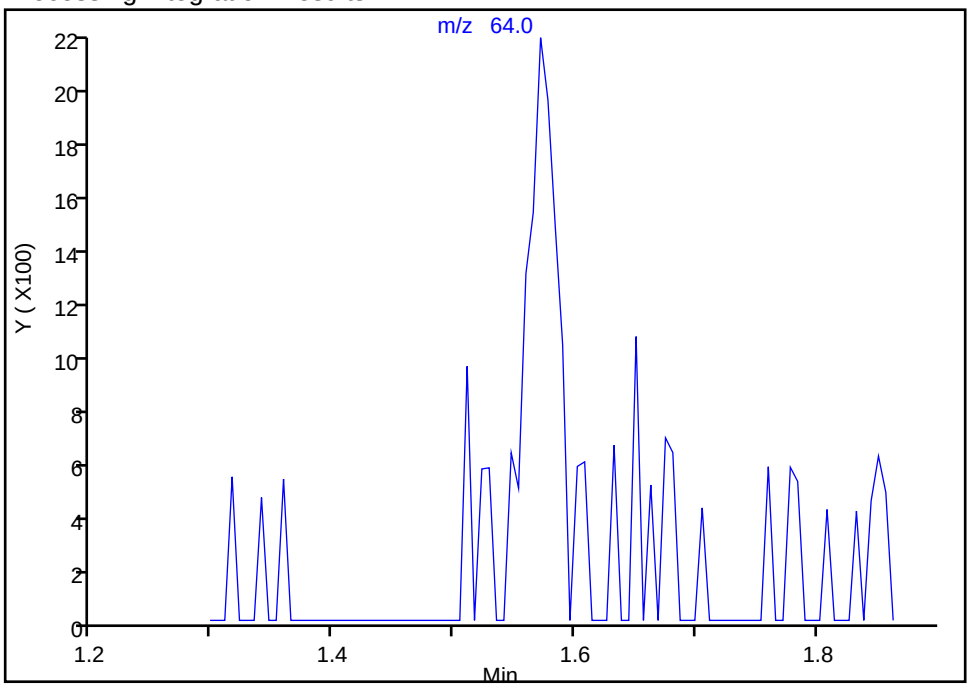
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

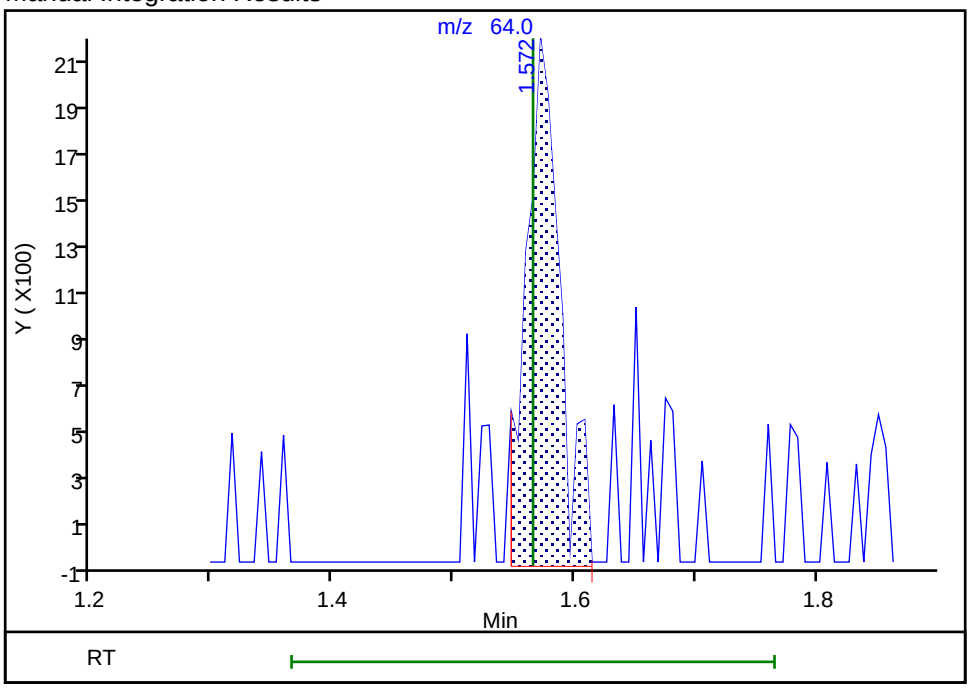
Not Detected
Expected RT: 1.57

Processing Integration Results



Manual Integration Results

RT: 1.57
Area: 4262
Amount: 0.619985
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:17:36 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

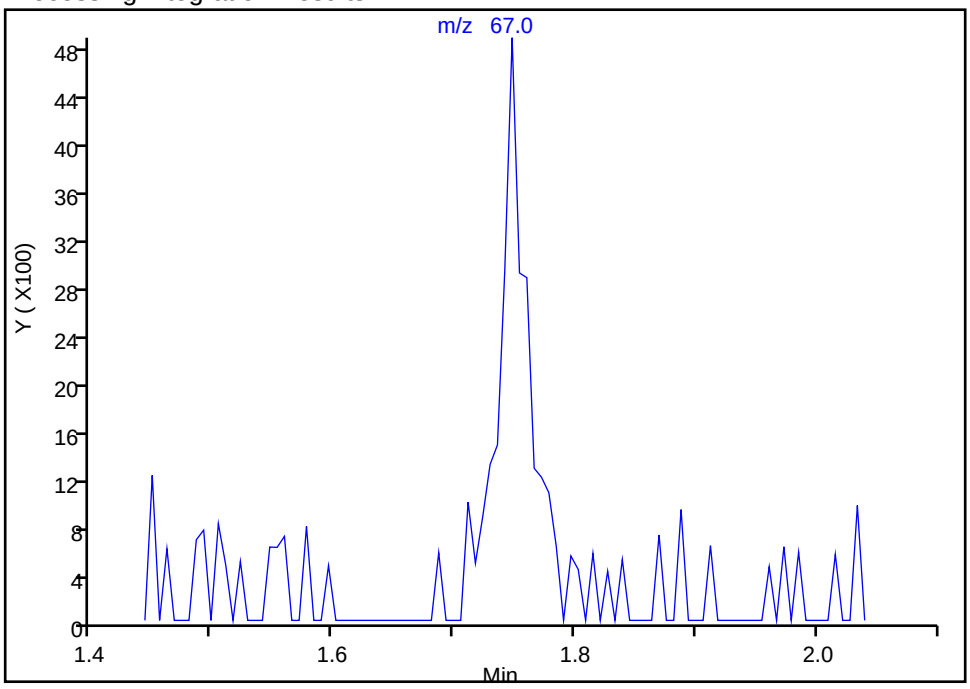
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

17 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

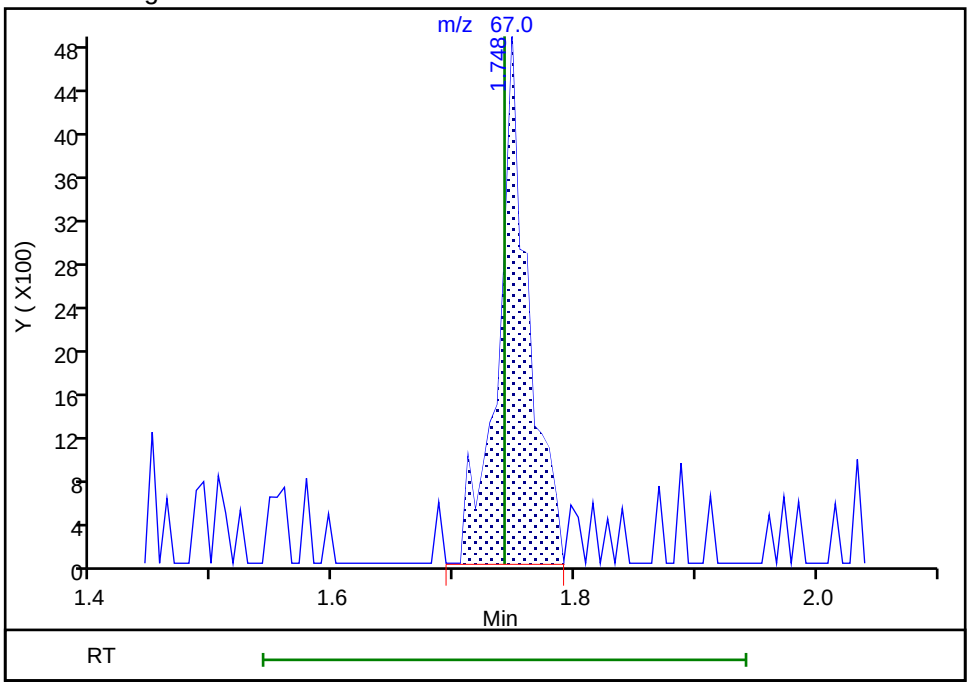
Not Detected
Expected RT: 1.74

Processing Integration Results



Manual Integration Results

RT: 1.75
Area: 8251
Amount: 0.525901
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:17:46 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

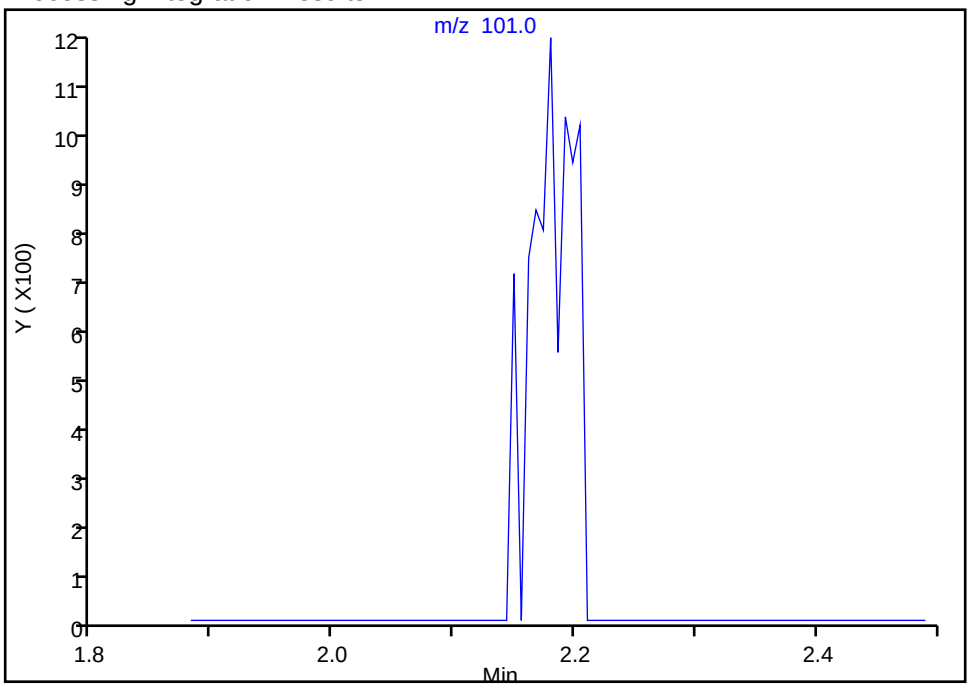
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroe, CAS: 76-13-1

Signal: 1

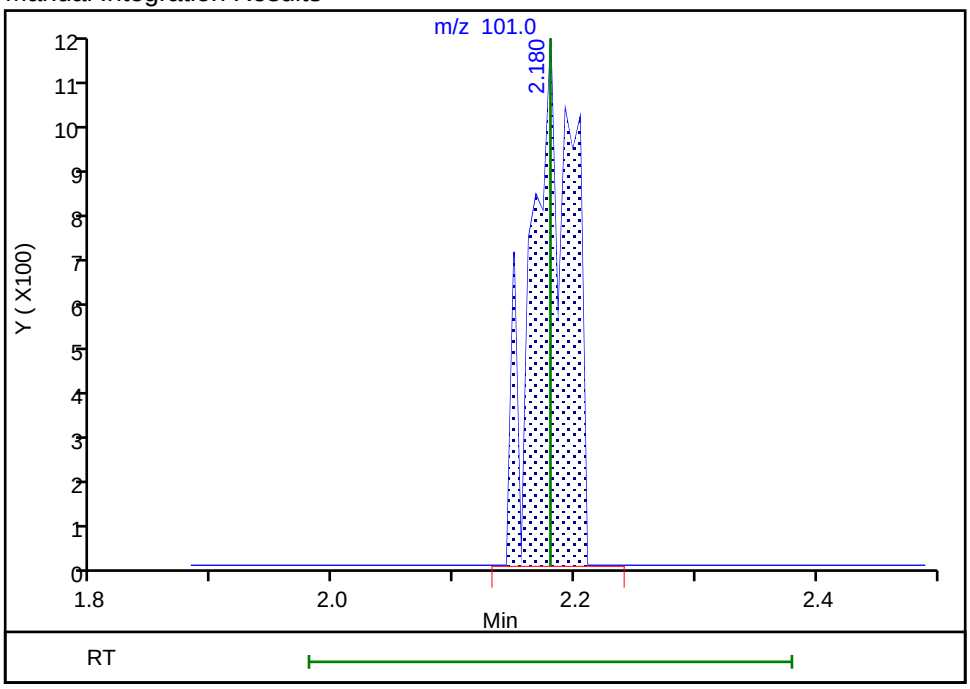
Not Detected
Expected RT: 2.18

Processing Integration Results



Manual Integration Results

RT: 2.18
Area: 2870
Amount: 0.446863
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:18:02 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

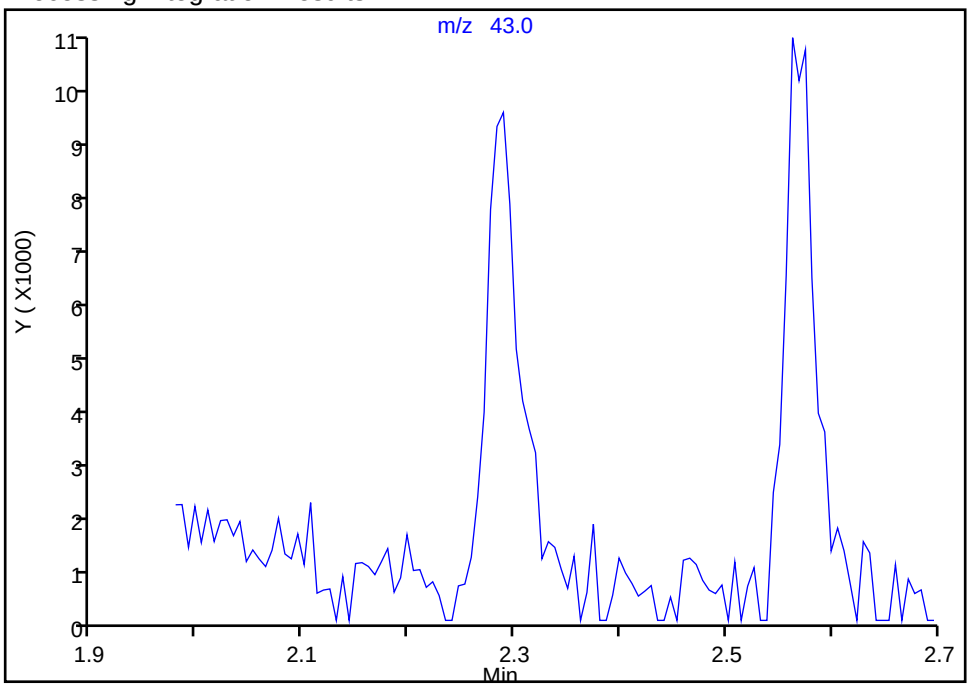
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

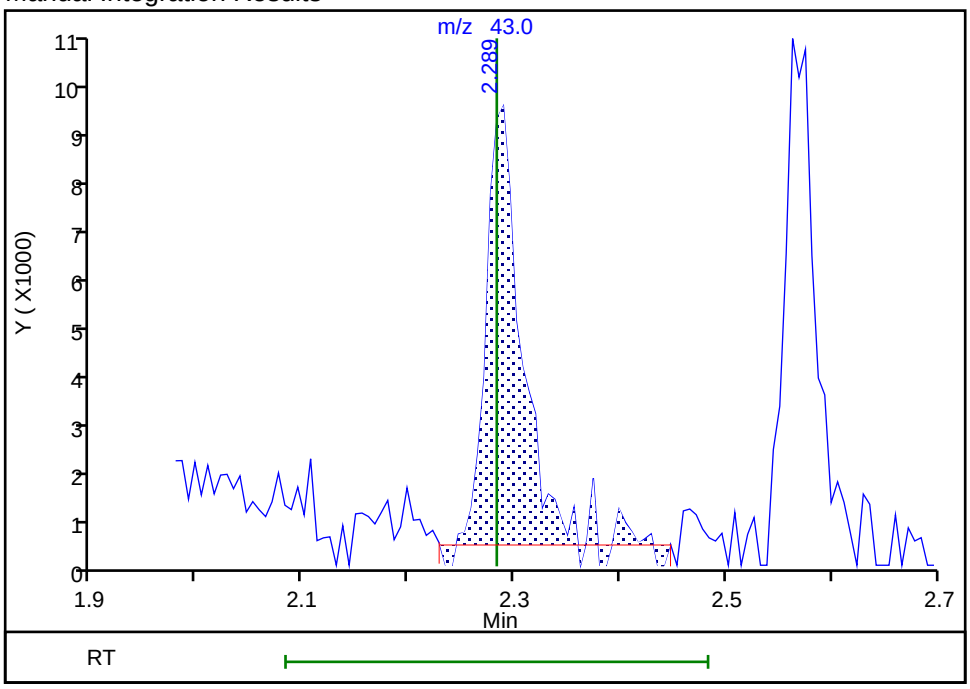
Not Detected
Expected RT: 2.28

Processing Integration Results



Manual Integration Results

RT: 2.29
Area: 20126
Amount: 3.023758
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:18:08 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

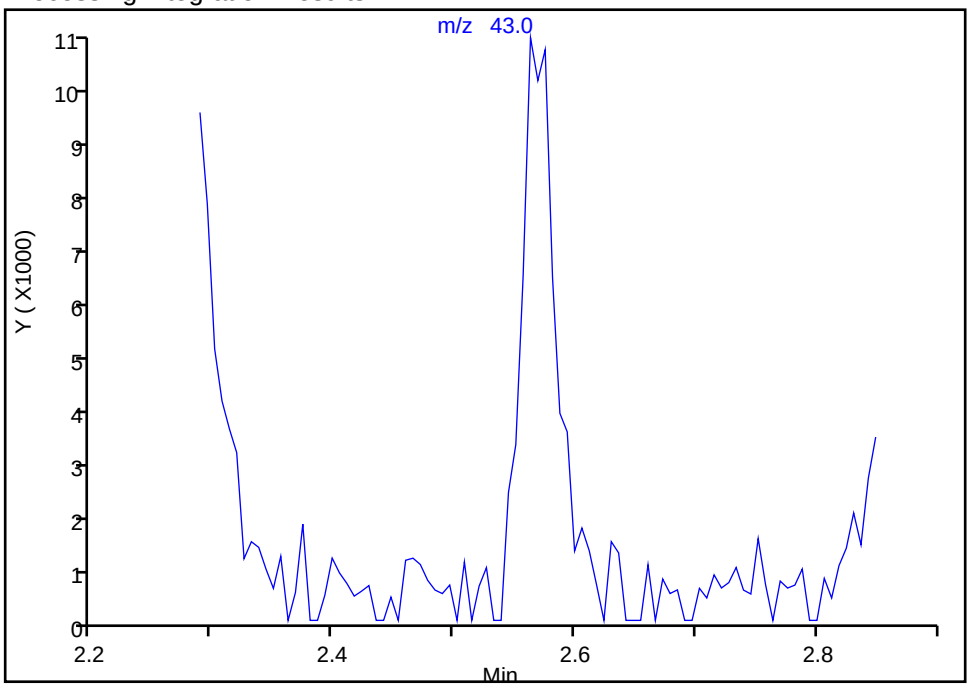
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

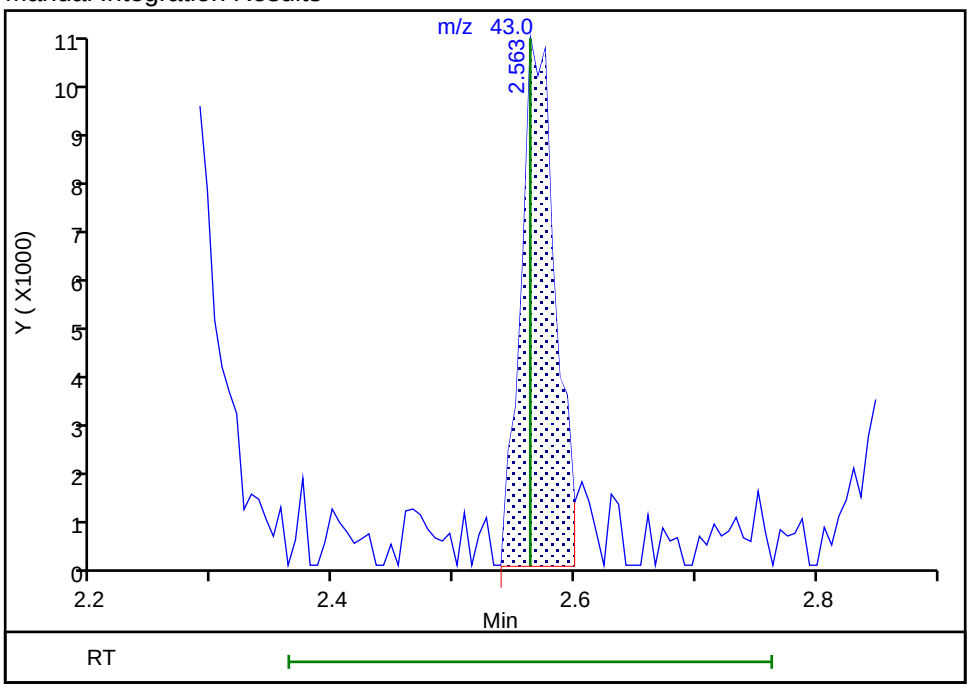
Not Detected
Expected RT: 2.56

Processing Integration Results



Manual Integration Results

RT: 2.56
Area: 20591
Amount: 1.155997
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:18:17 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

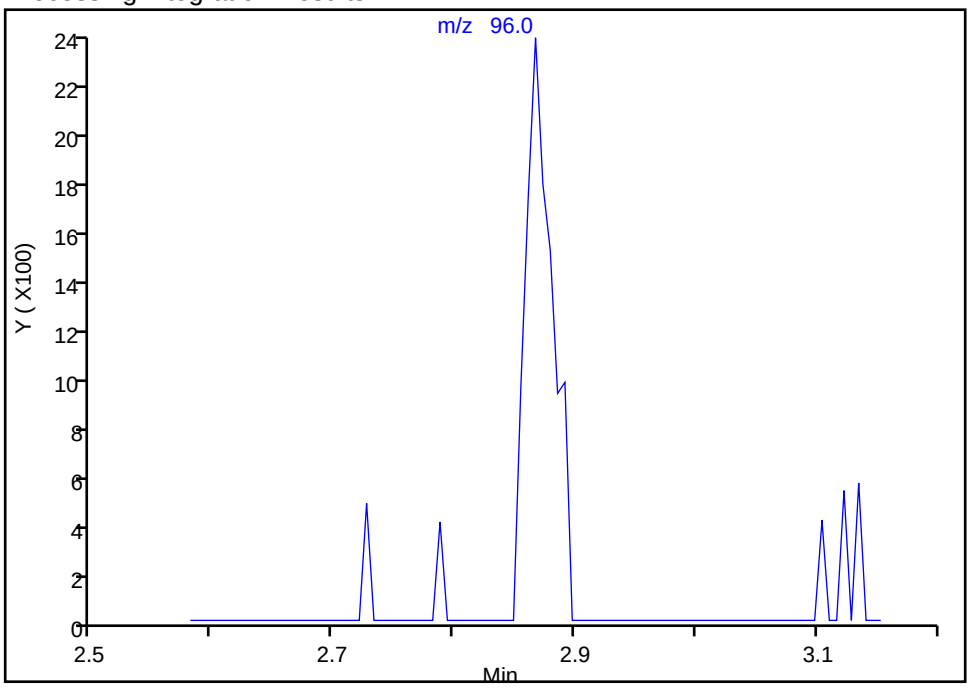
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

33 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

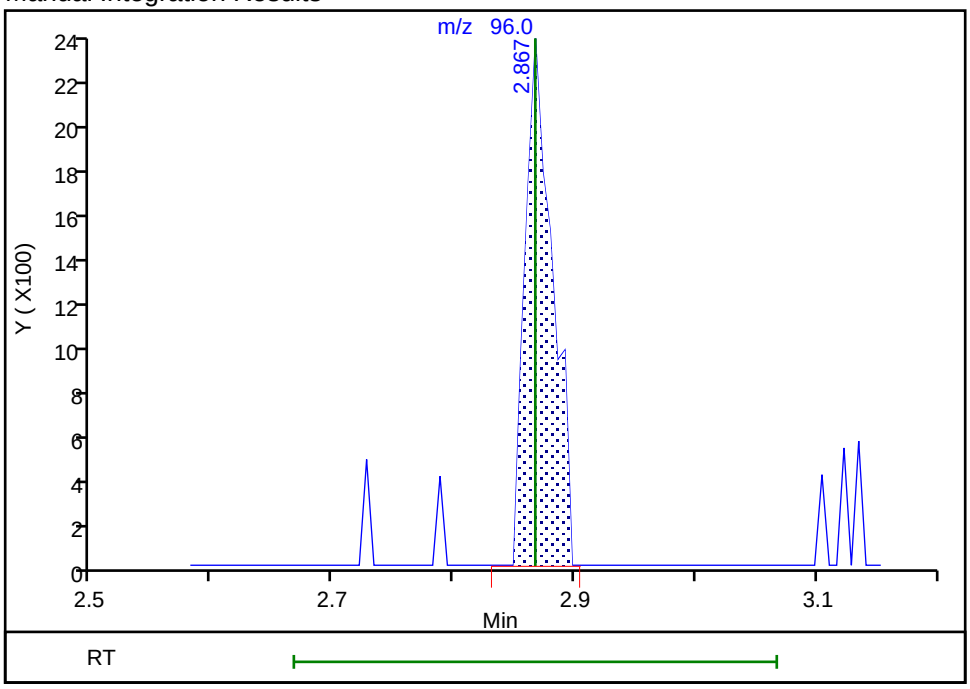
Not Detected
Expected RT: 2.87

Processing Integration Results



Manual Integration Results

RT: 2.87
Area: 3740
Amount: 0.494269
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:18:28 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

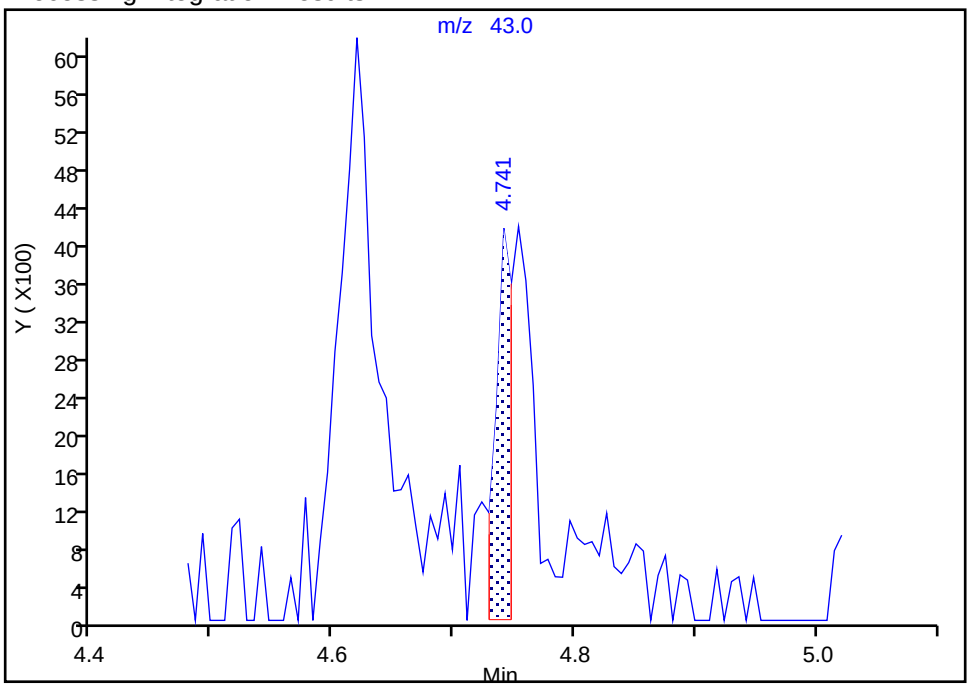
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

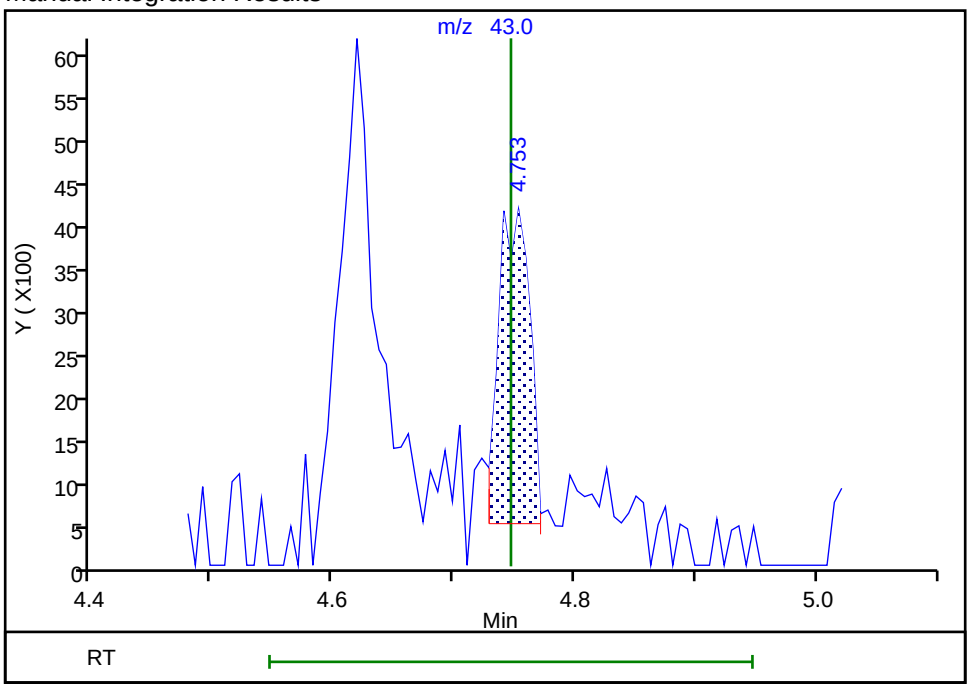
Processing Integration Results

RT: 4.74
Area: 4033
Amount: 0.368054
Amount Units: ug/L



Manual Integration Results

RT: 4.75
Area: 6588
Amount: 0.301862
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:19:07 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

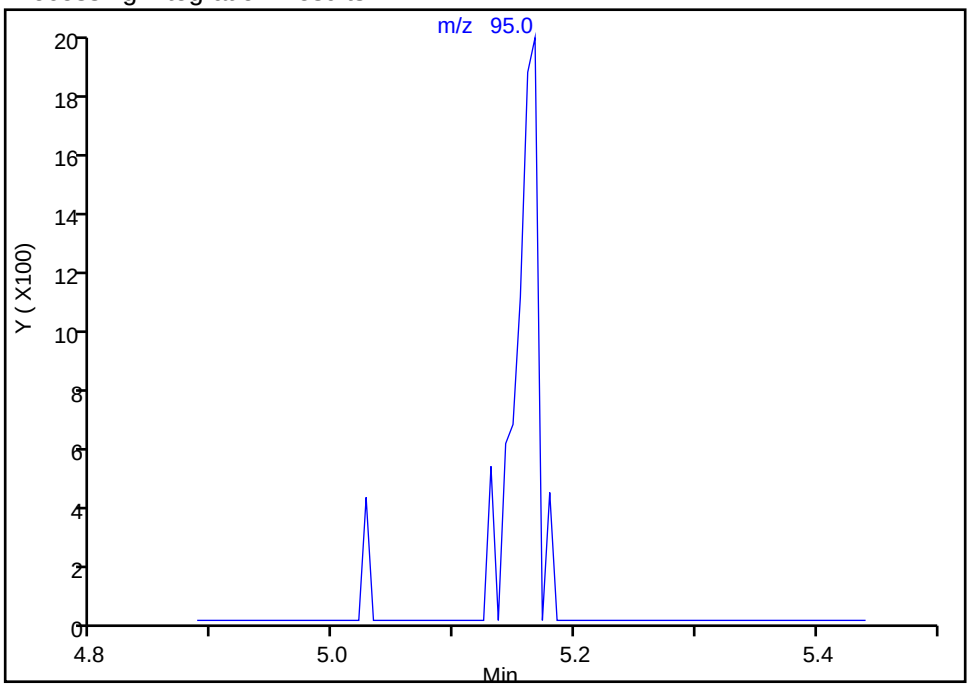
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

60 Trichloroethene, CAS: 79-01-6

Signal: 1

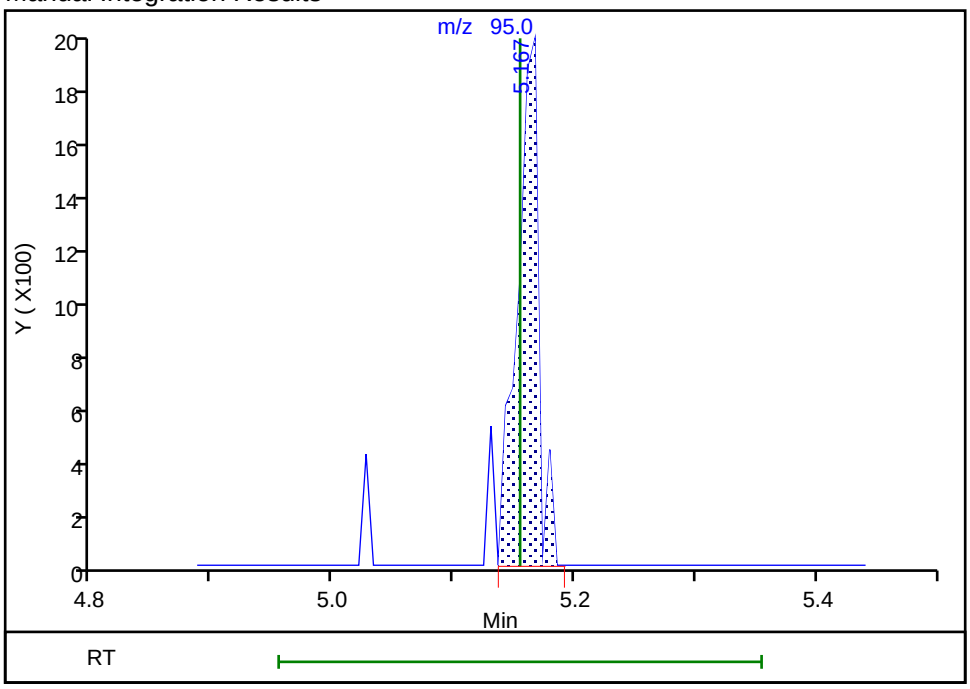
Not Detected
Expected RT: 5.15

Processing Integration Results



Manual Integration Results

RT: 5.17
Area: 2348
Amount: 0.307182
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:19:25 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

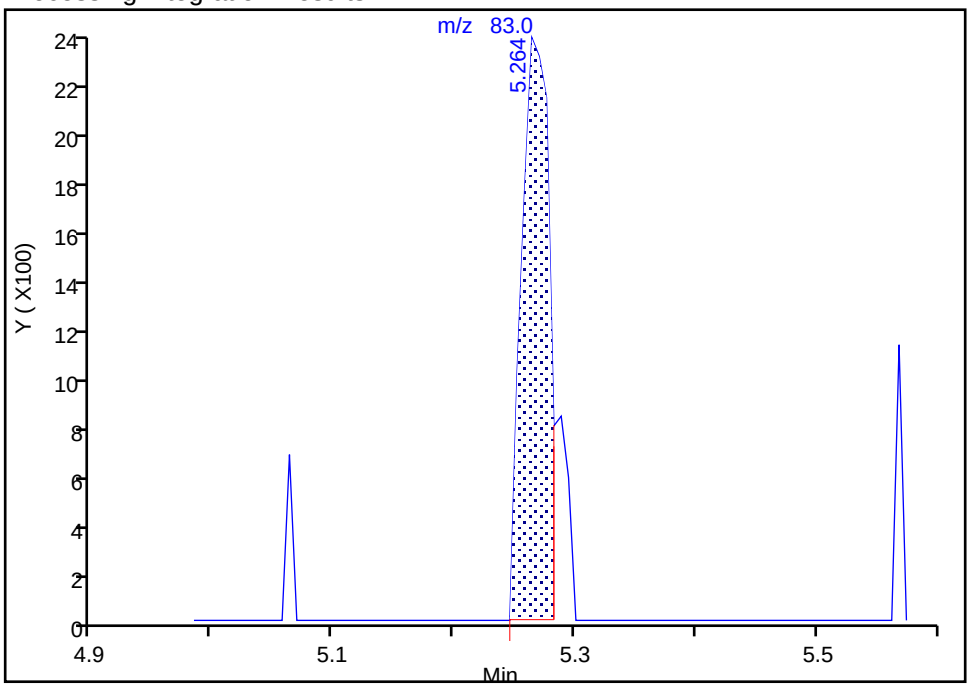
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

62 Methylcyclohexane, CAS: 108-87-2

Signal: 1

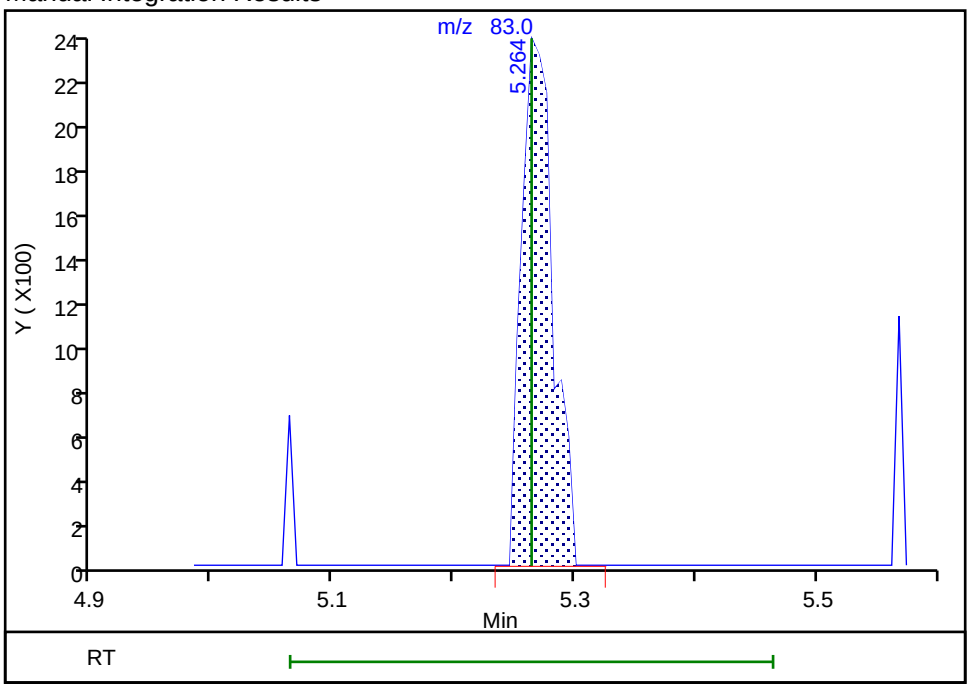
Processing Integration Results

RT: 5.26
Area: 3715
Amount: 0.510034
Amount Units: ug/L



Manual Integration Results

RT: 5.26
Area: 4223
Amount: 0.338862
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:19:36 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

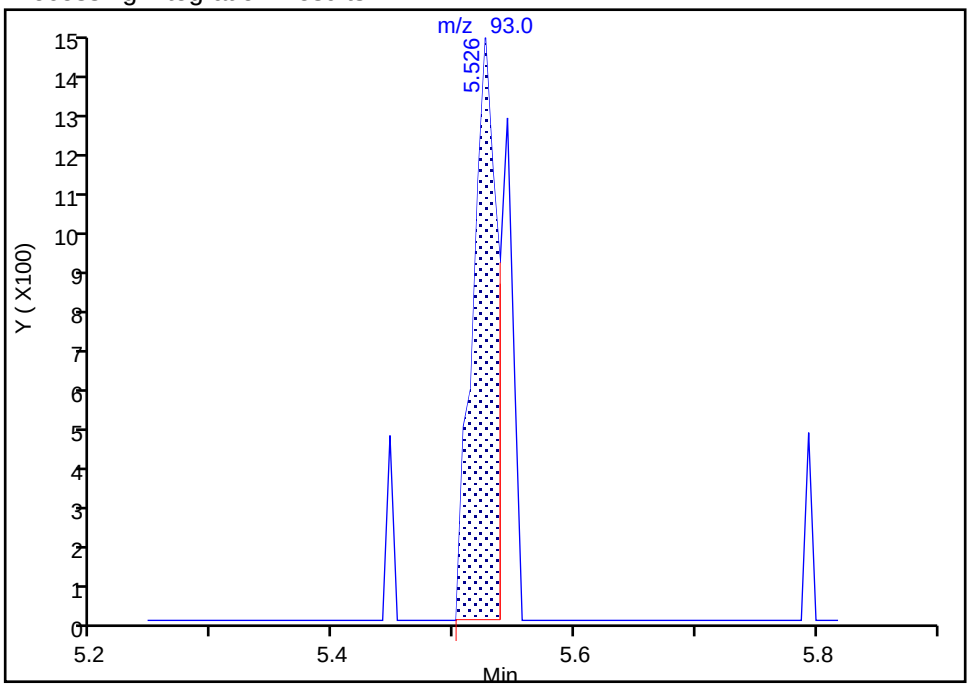
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

64 Dibromomethane, CAS: 74-95-3

Signal: 1

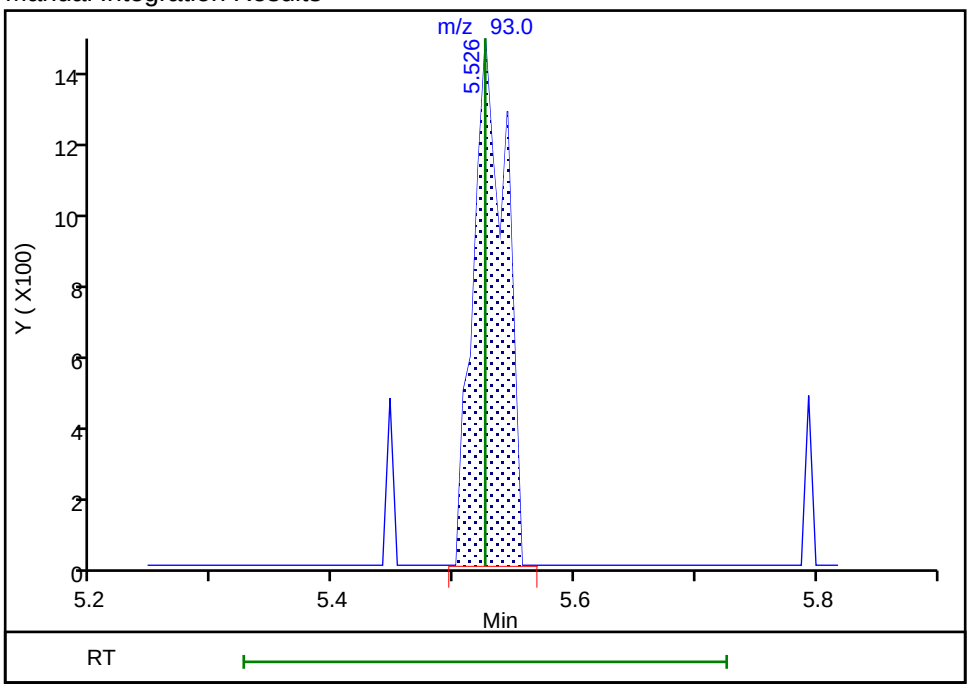
Processing Integration Results

RT: 5.53
Area: 1994
Amount: 0.309293
Amount Units: ug/L



Manual Integration Results

RT: 5.53
Area: 2647
Amount: 0.490649
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:19:45 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

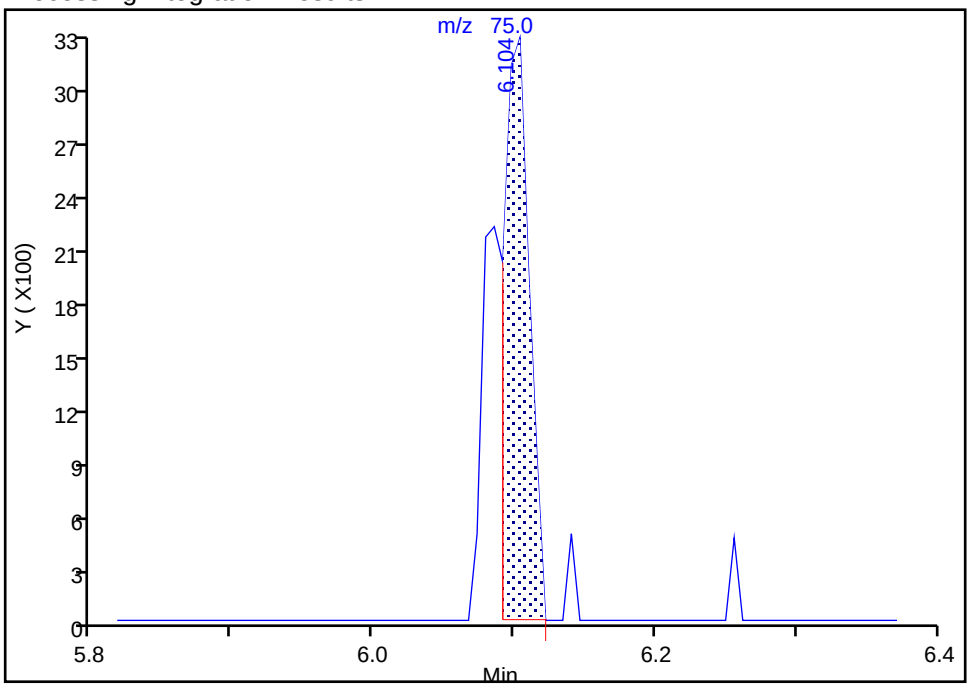
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

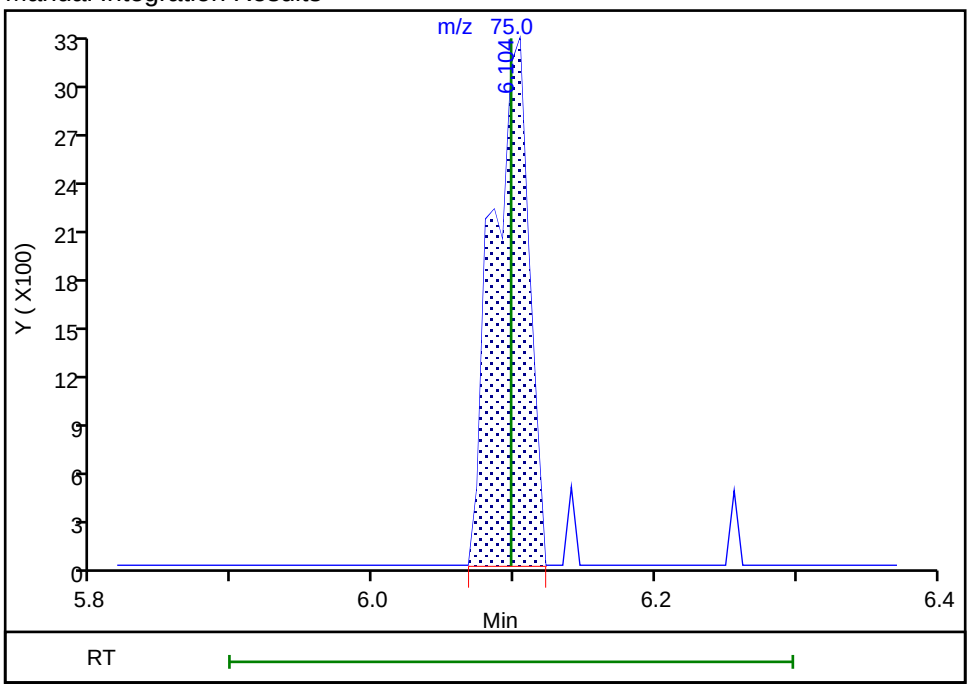
Processing Integration Results

RT: 6.10
Area: 4147
Amount: 0.356918
Amount Units: ug/L



Manual Integration Results

RT: 6.10
Area: 5931
Amount: 0.485968
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:20:05 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

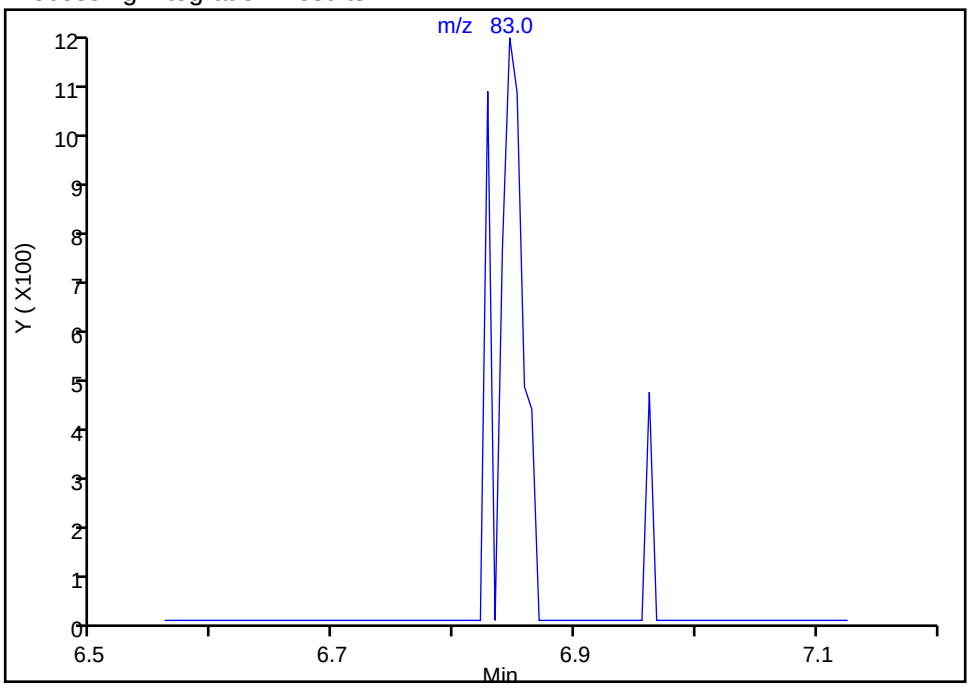
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

78 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

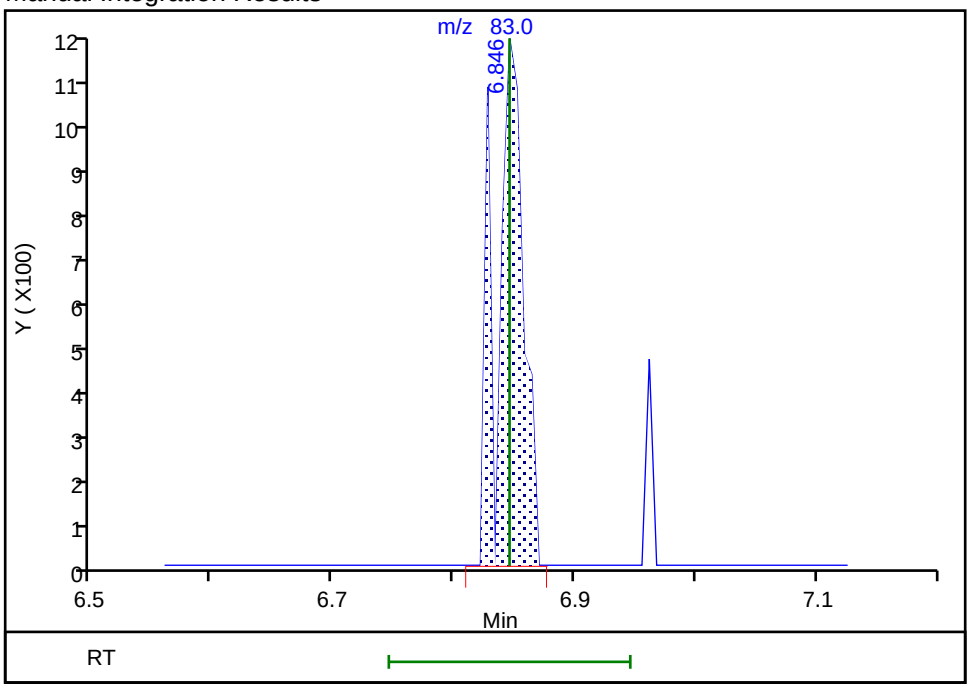
Not Detected
Expected RT: 6.85

Processing Integration Results



Manual Integration Results

RT: 6.85
Area: 1839
Amount: 0.337574
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:20:15 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

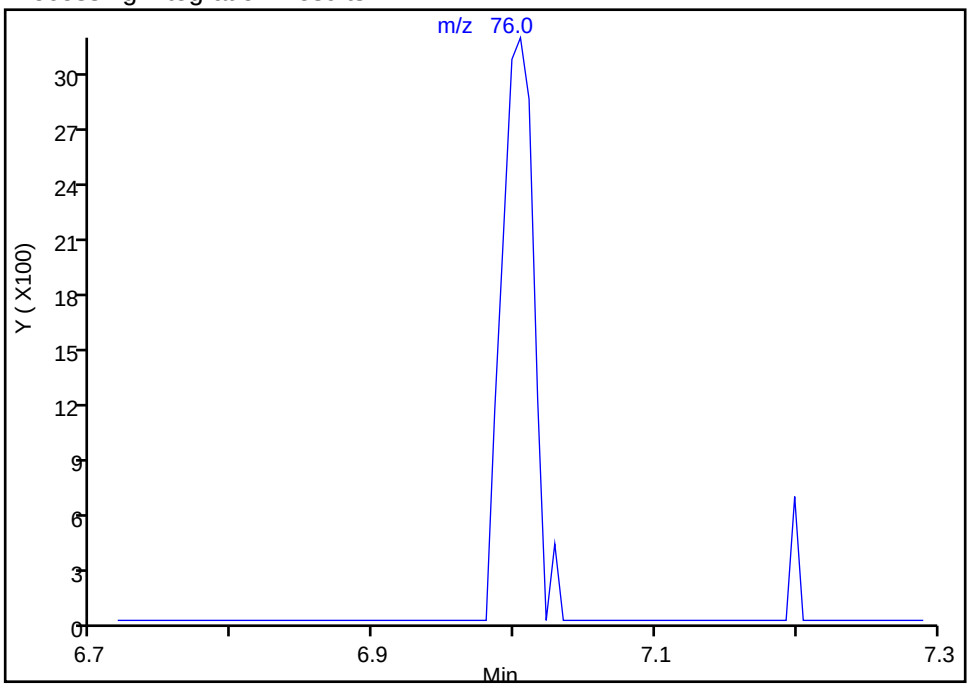
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

80 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

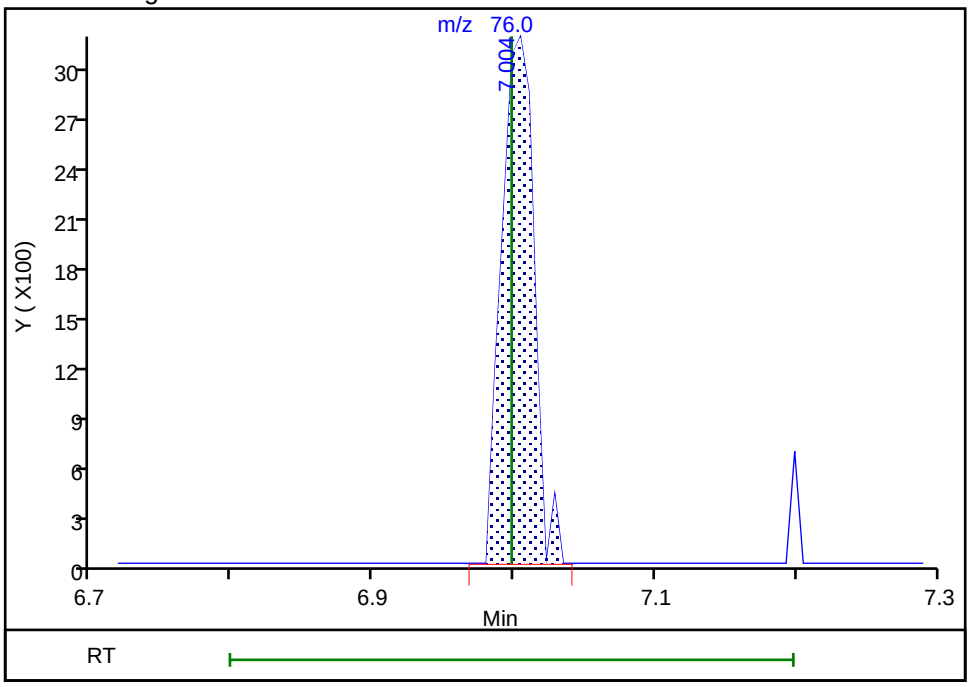
Not Detected
Expected RT: 7.00

Processing Integration Results



Manual Integration Results

RT: 7.00
Area: 5089
Amount: 0.453385
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:20:23 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

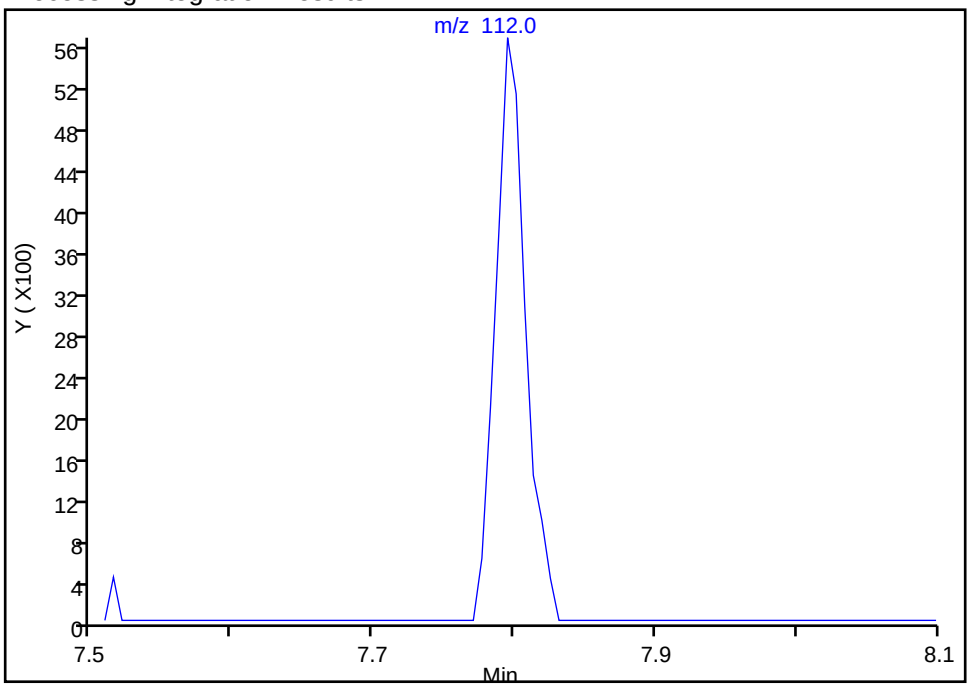
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

85 Chlorobenzene, CAS: 108-90-7

Signal: 1

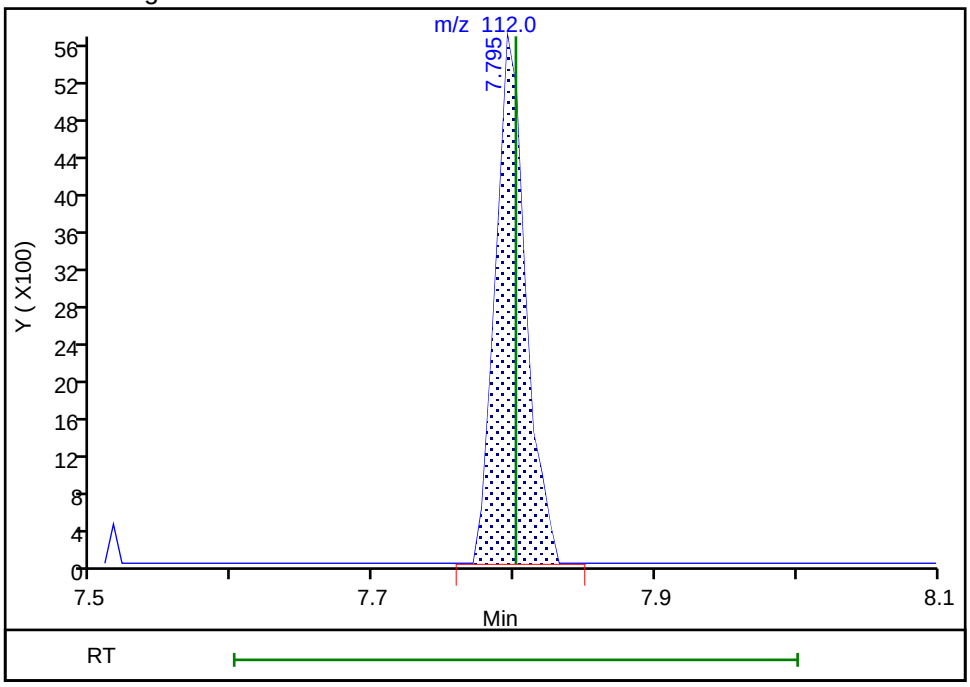
Not Detected
Expected RT: 7.80

Processing Integration Results



Manual Integration Results

RT: 7.80
Area: 8441
Amount: 0.441387
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:20:37 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

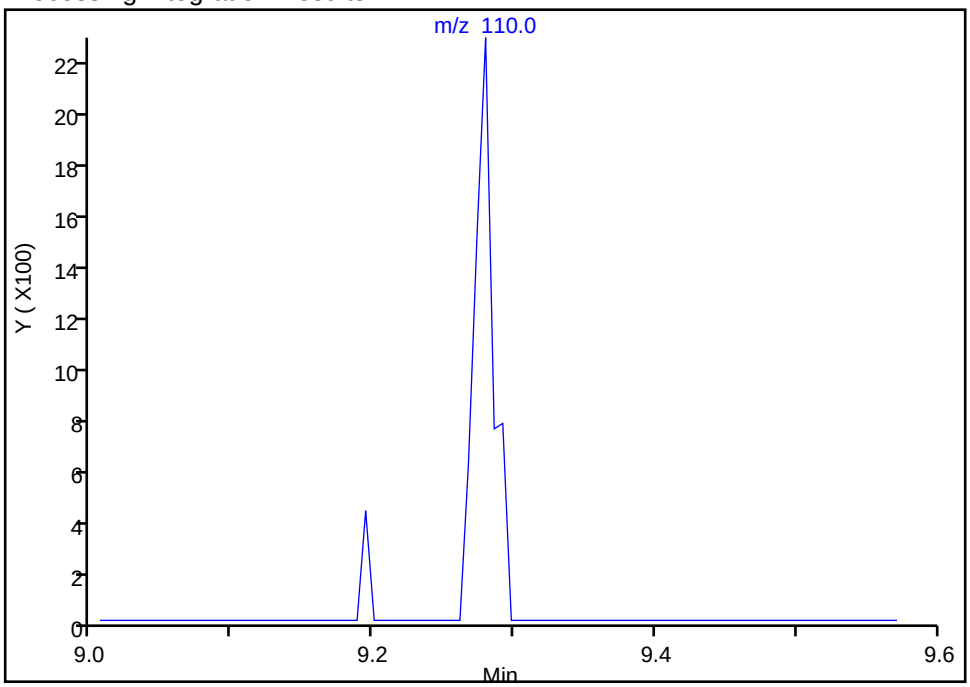
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

99 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

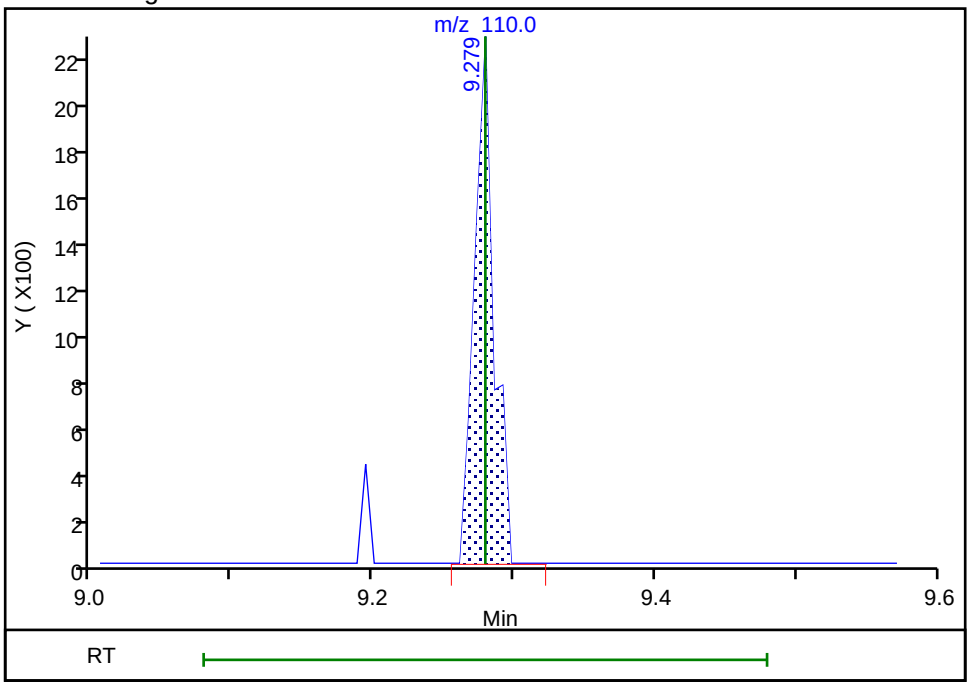
Not Detected
Expected RT: 9.28

Processing Integration Results



Manual Integration Results

RT: 9.28
Area: 2128
Amount: 0.601057
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:20:53 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

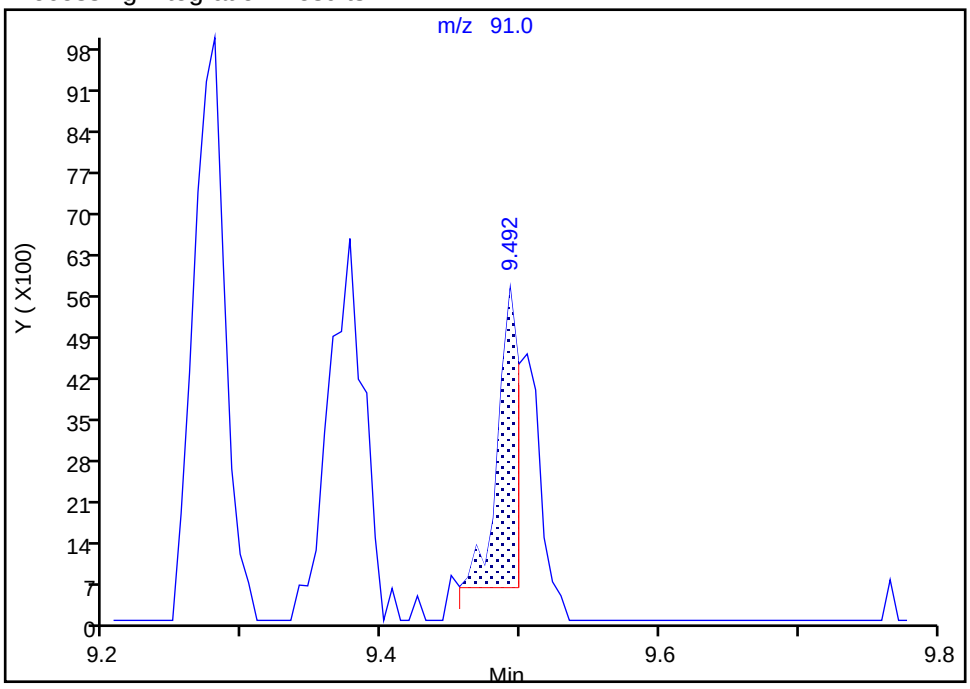
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

105 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

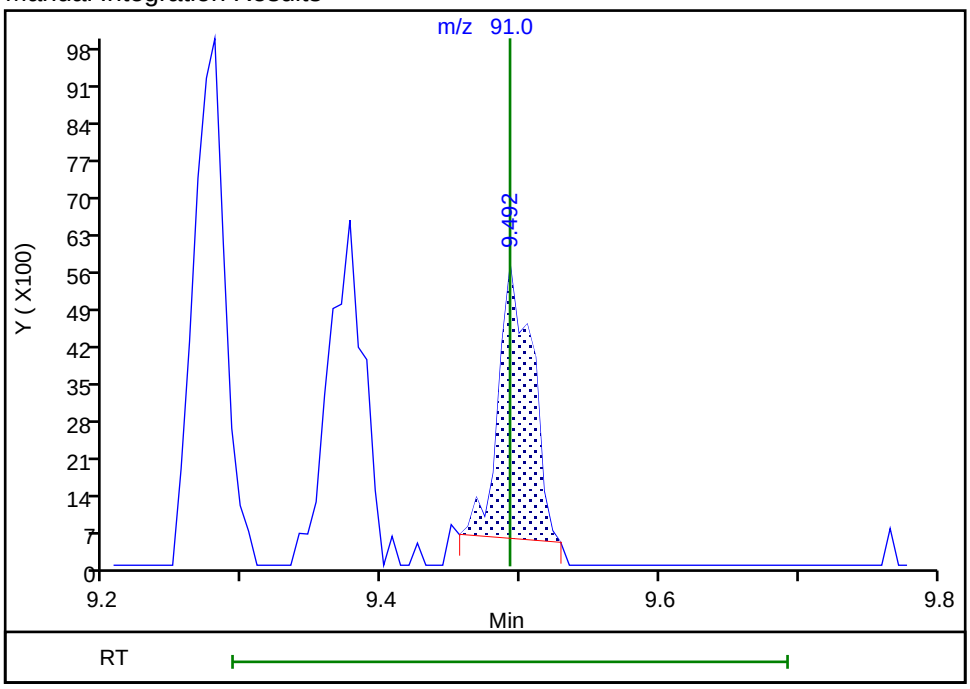
Processing Integration Results

RT: 9.49
Area: 5435
Amount: 0.401799
Amount Units: ug/L



Manual Integration Results

RT: 9.49
Area: 8770
Amount: 0.314917
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:21:07 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

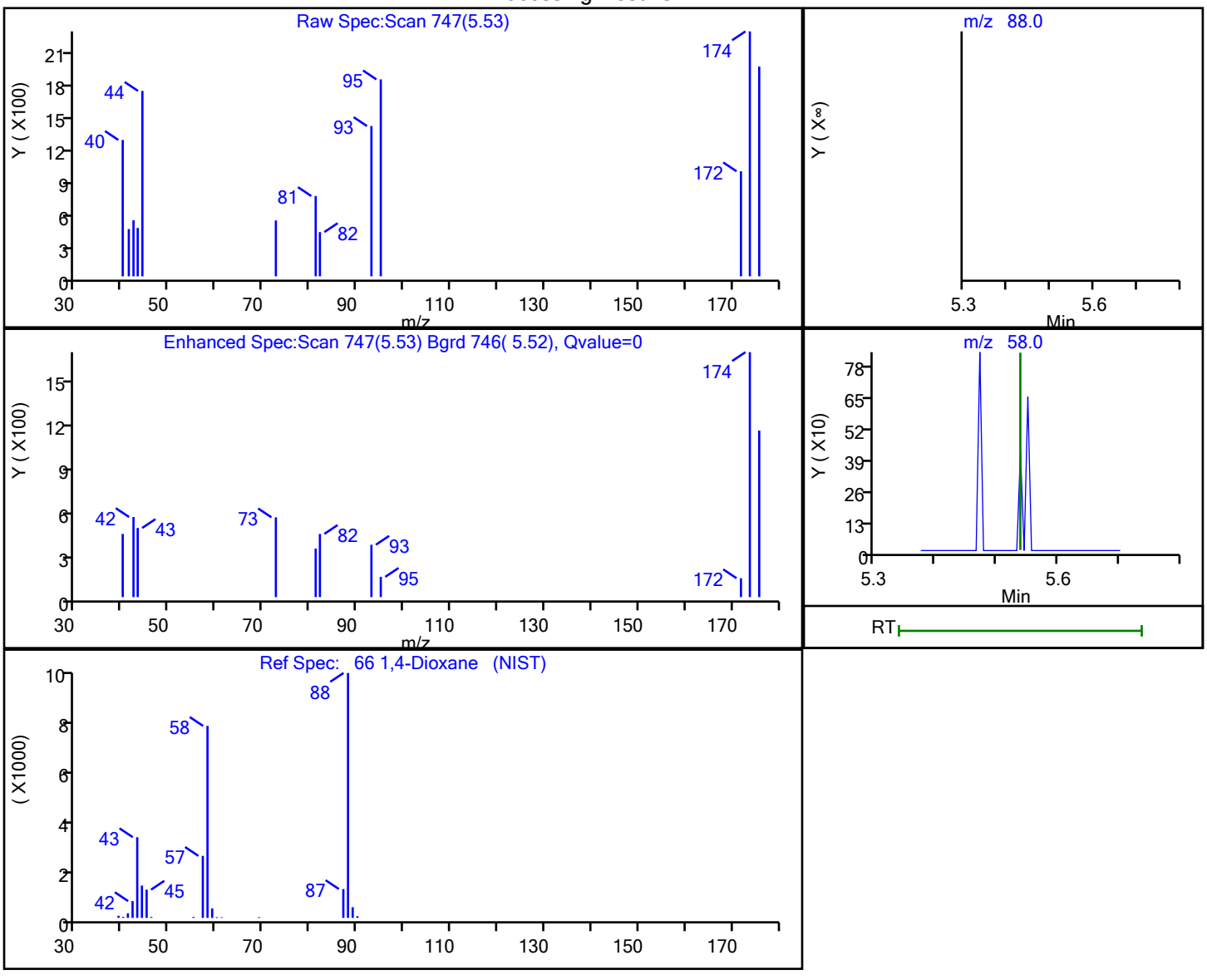
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0904.d
Injection Date: 24-Oct-2024 15:19:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH/AD ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
5.53	88.00	0	
5.54	58.00	0	

Reviewer: WLL8, 24-Oct-2024 18:19:54 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 24-Oct-2024 15:41:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0120783-014
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:18 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:26:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	190051	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.001	91	656244	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	338348	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	214078	25.0	24.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	95	313731	25.0	24.4	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	94	750165	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	87	236117	25.0	24.9	
11 Dichlorodifluoromethane	85	1.042	1.042	0.000	99	9727	1.00	1.04	
13 Chloromethane	50	1.176	1.182	-0.006	97	17807	1.00	0.9252	
14 Vinyl chloride	62	1.249	1.255	-0.006	55	10615	1.00	1.05	
144 Butadiene	54	1.267	1.267	0.000	95	16653	1.00	1.02	
15 Bromomethane	94	1.511	1.504	0.007	41	6010	1.00	1.04	
16 Chloroethane	64	1.559	1.565	-0.006	44	8060	1.00	1.13	
18 Trichlorofluoromethane	101	1.724	1.742	-0.018	69	13382	1.00	1.06	
17 Dichlorofluoromethane	67	1.736	1.742	-0.006	91	18007	1.00	1.11	
19 Ethyl ether	59	1.985	1.985	0.000	88	9854	1.00	0.9517	
20 Acrolein	56	2.137	2.143	-0.006	59	8978	5.00	5.66	M
22 1,1-Dichloroethene	96	2.174	2.174	0.000	91	6415	1.00	0.99	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	59	6437	1.00	0.9676	
23 Acetone	43	2.283	2.283	0.000	99	36293	5.00	5.26	
24 Iodomethane	142	2.314	2.314	0.000	99	11245	1.00	0.9175	
25 Carbon disulfide	76	2.350	2.350	0.000	99	24964	1.00	1.06	
27 3-Chloro-1-propene	41	2.521	2.514	0.007	87	24969	1.00	0.9140	
28 Methyl acetate	43	2.569	2.563	0.006	99	41106	2.00	2.23	a
30 Methylene Chloride	84	2.648	2.654	-0.006	84	8389	1.00	0.9190	
31 2-Methyl-2-propanol	59	2.837	2.825	0.012	90	18104	10.0	10.2	M
32 Methyl tert-butyl ether	73	2.849	2.855	-0.006	83	26334	1.00	0.9358	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	88	7199	1.00	0.9185	
34 Acrylonitrile	53	2.922	2.922	0.000	97	89895	10.0	10.6	
35 Hexane	57	3.056	3.056	0.000	89	15134	1.00	0.8638	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.269	3.263	0.006	95	17605	1.00	0.9688	
39 Vinyl acetate	43	3.324	3.323	0.001	96	69525	2.00	1.94	
42 2,2-Dichloropropane	77	3.768	3.761	0.007	81	9616	1.00	0.8815	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	82	8977	1.00	1.04	
44 2-Butanone (MEK)	43	3.841	3.834	0.007	95	52345	5.00	4.65	
47 Chlorobromomethane	128	4.029	4.029	0.000	85	3599	1.00	0.8455	
49 Tetrahydrofuran	42	4.041	4.041	0.000	89	20025	2.00	2.43	
50 Chloroform	83	4.108	4.108	0.000	95	17081	1.00	1.16	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	86	12001	1.00	0.99	
52 Cyclohexane	56	4.206	4.212	-0.006	92	20288	1.00	0.9028	
53 Carbon tetrachloride	117	4.333	4.339	-0.006	93	9328	1.00	0.8267	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	75	9513	1.00	0.9272	
55 Benzene	78	4.552	4.552	0.000	42	31866	1.00	1.04	
56 Isobutyl alcohol	43	4.607	4.607	0.000	92	25043	25.0	25.0	
57 1,2-Dichloroethane	62	4.625	4.619	0.006	92	14996	1.00	0.9496	
59 n-Heptane	43	4.747	4.747	0.000	89	23636	1.00	1.05	
60 Trichloroethene	95	5.161	5.155	0.006	91	8112	1.00	1.02	
62 Methylcyclohexane	83	5.270	5.264	0.006	90	11367	1.00	0.8805	
63 1,2-Dichloropropane	63	5.386	5.392	-0.006	83	9179	1.00	0.9425	
64 Dibromomethane	93	5.532	5.526	0.006	91	6820	1.00	1.22	
66 1,4-Dioxane	88	5.550	5.538	0.012	27	1306	20.0	17.3	M
67 Dichlorobromomethane	83	5.678	5.684	-0.006	89	8801	1.00	0.9228	
69 2-Chloroethyl vinyl ether	63	5.982	5.970	0.012	76	5731	1.00	0.8460	
71 cis-1,3-Dichloropropene	75	6.092	6.098	-0.006	79	10880	1.00	0.8606	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	96	36258	5.00	5.02	
73 Toluene	92	6.371	6.371	0.000	94	15649	1.00	0.8736	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	89	9921	1.00	0.8890	
77 Ethyl methacrylate	69	6.724	6.724	0.000	86	11490	1.00	1.03	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	0	4764	1.00	0.8541	M
79 Tetrachloroethene	166	6.895	6.894	0.001	89	7299	1.00	0.9725	
80 1,3-Dichloropropane	76	7.004	6.998	0.006	92	12549	1.00	1.09	
82 2-Hexanone	43	7.083	7.083	0.000	97	85337	5.00	5.28	
83 Chlorodibromomethane	129	7.235	7.229	0.006	89	6758	1.00	0.9196	
84 Ethylene Dibromide	107	7.321	7.320	0.000	93	7693	1.00	1.05	
85 Chlorobenzene	112	7.801	7.801	0.000	90	18862	1.00	0.9633	
88 Ethylbenzene	91	7.898	7.898	0.000	97	32278	1.00	0.9456	
89 1,1,1,2-Tetrachloroethane	131	7.905	7.904	0.001	46	6193	1.00	0.8250	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	92	11413	1.00	0.8483	
91 o-Xylene	106	8.440	8.440	0.000	95	12517	1.00	0.9302	
92 Styrene	104	8.476	8.476	0.000	90	20133	1.00	0.9188	
93 Bromoform	173	8.708	8.707	0.001	90	4092	1.00	0.8526	
95 Isopropylbenzene	105	8.829	8.829	0.000	95	31887	1.00	0.9513	
97 Bromobenzene	156	9.170	9.170	0.000	87	8677	1.00	1.00	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	48	10324	1.00	0.9609	
100 N-Propylbenzene	91	9.273	9.273	0.000	98	38545	1.00	0.9678	
99 1,2,3-Trichloropropane	110	9.292	9.279	0.013	56	3536	1.00	0.9735	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	40	4911	1.00	0.8537	M
102 2-Chlorotoluene	126	9.371	9.377	-0.006	93	8021	1.00	0.9626	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	94	24582	1.00	0.8339	
105 4-Chlorotoluene	91	9.498	9.492	0.006	96	26215	1.00	0.9176	
106 tert-Butylbenzene	134	9.803	9.796	0.007	94	4532	1.00	0.7211	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	97	31354	1.00	1.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.016	10.021	-0.005	95	33408	1.00	0.8965	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	91	13850	1.00	0.8665	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	98	28879	1.00	0.8660	
113 1,4-Dichlorobenzene	146	10.241	10.240	0.001	86	16413	1.00	1.00	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	26396	1.00	0.9215	
116 1,2-Dichlorobenzene	146	10.606	10.599	0.007	93	15182	1.00	0.9374	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	80	2081	1.00	0.8795	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	86	10302	1.00	0.8851	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	88	5083	1.00	0.8753	
121 Naphthalene	128	12.242	12.248	-0.006	97	33386	1.00	0.9256	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	89	10543	1.00	0.9312	
S 123 1,3-Dichloropropene, Total	1				0			1.75	
S 124 1,2-Dichloroethene, Total	1				0			1.96	
S 125 Total BTEX	1				0			4.64	
S 126 Xylenes, Total	1				0			1.78	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00260	Amount Added:	1.00	Units: uL	
GAS CORP mix_00646	Amount Added:	1.00	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

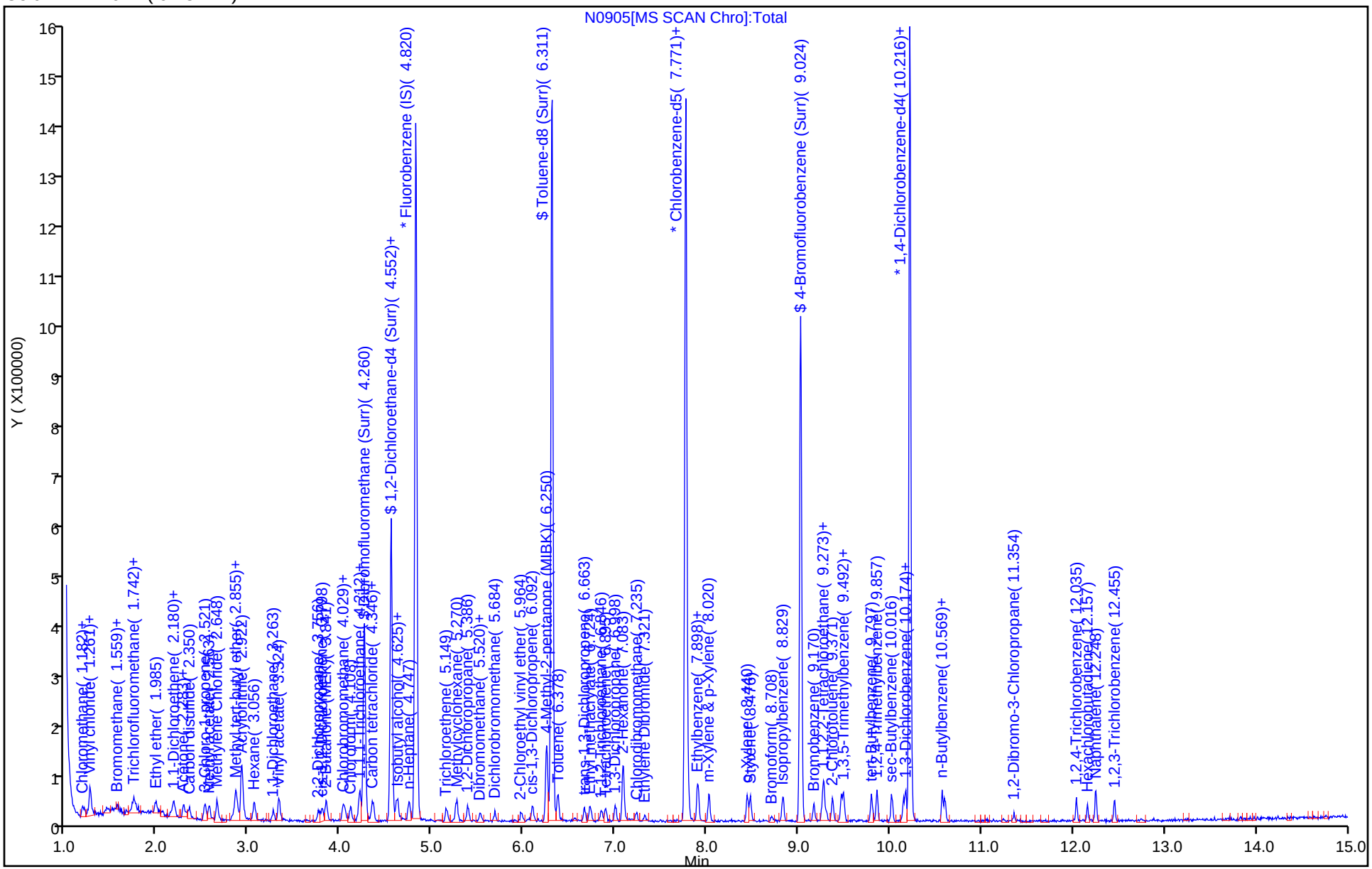
Report Date: 25-Oct-2024 11:16:19 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d

Injection Date:	24-Oct-2024 15:41:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

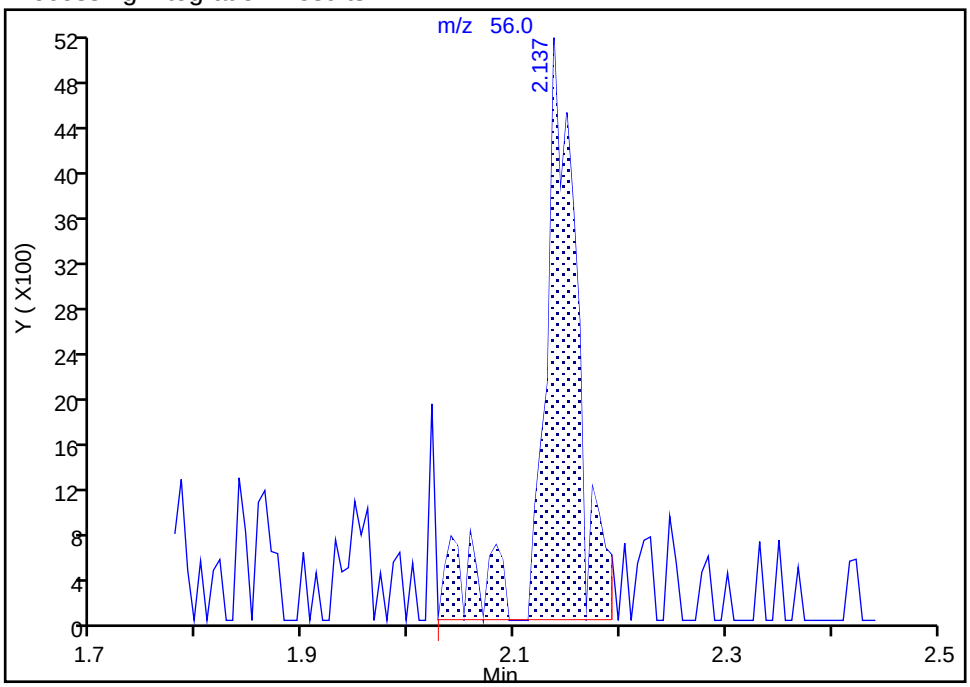
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Injection Date: 24-Oct-2024 15:41:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH/AD ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

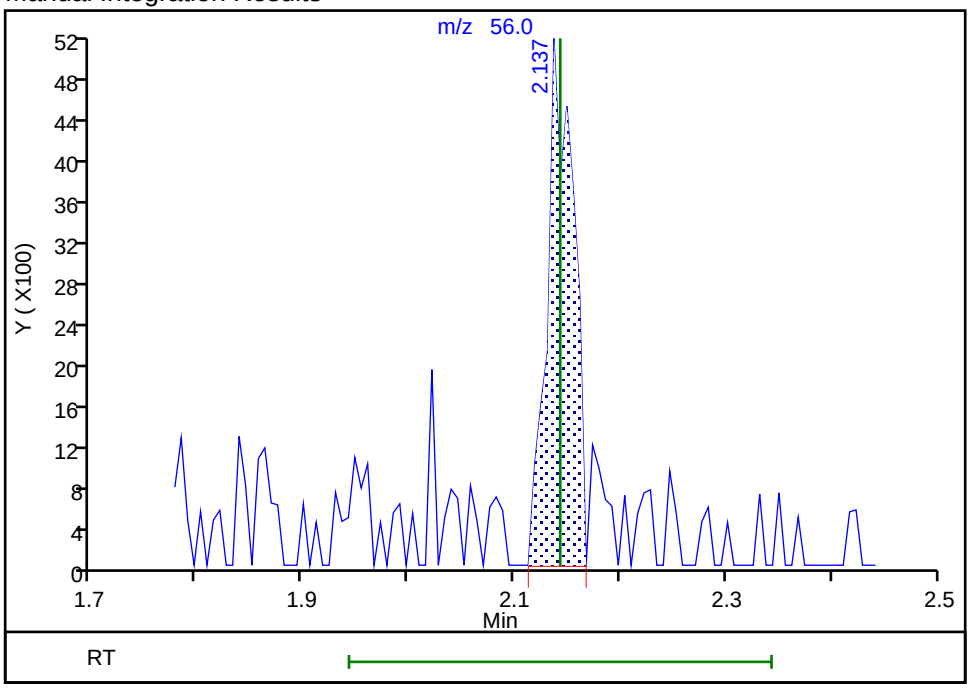
Processing Integration Results

RT: 2.14
Area: 11996
Amount: 12.562299
Amount Units: ug/L



Manual Integration Results

RT: 2.14
Area: 8978
Amount: 5.657733
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:34:20 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

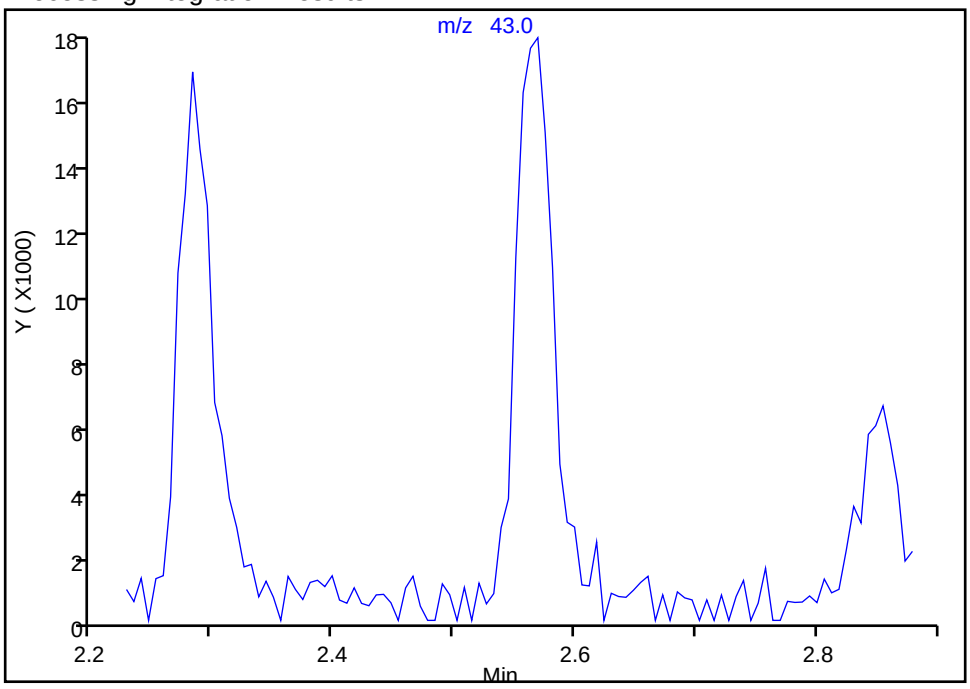
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Injection Date: 24-Oct-2024 15:41:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH/AD ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

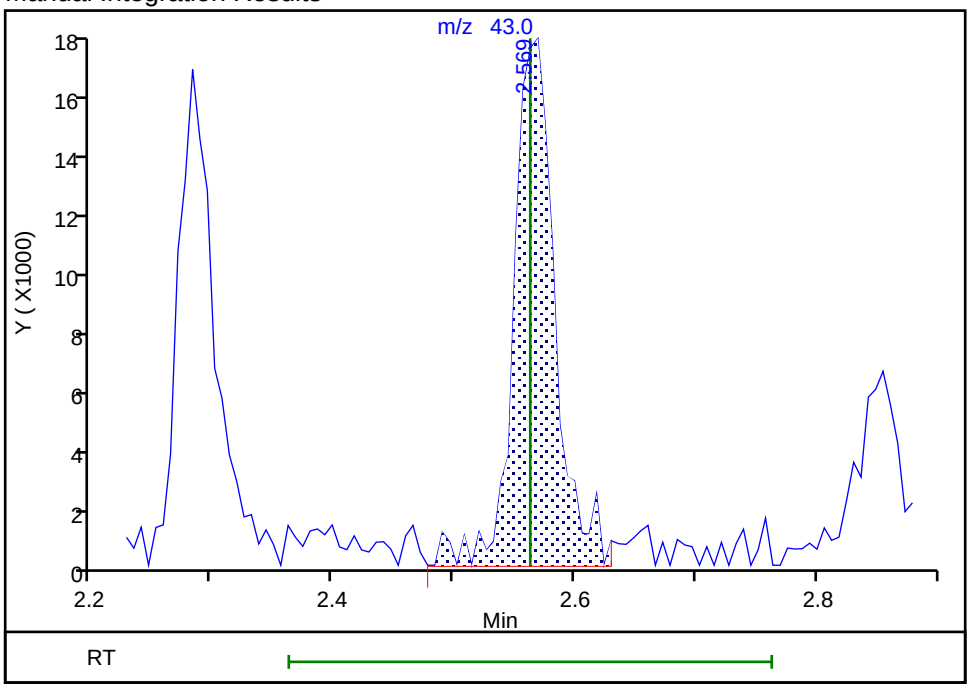
Not Detected
Expected RT: 2.56

Processing Integration Results



Manual Integration Results

RT: 2.57
Area: 41106
Amount: 2.227852
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:22:23 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Buffalo

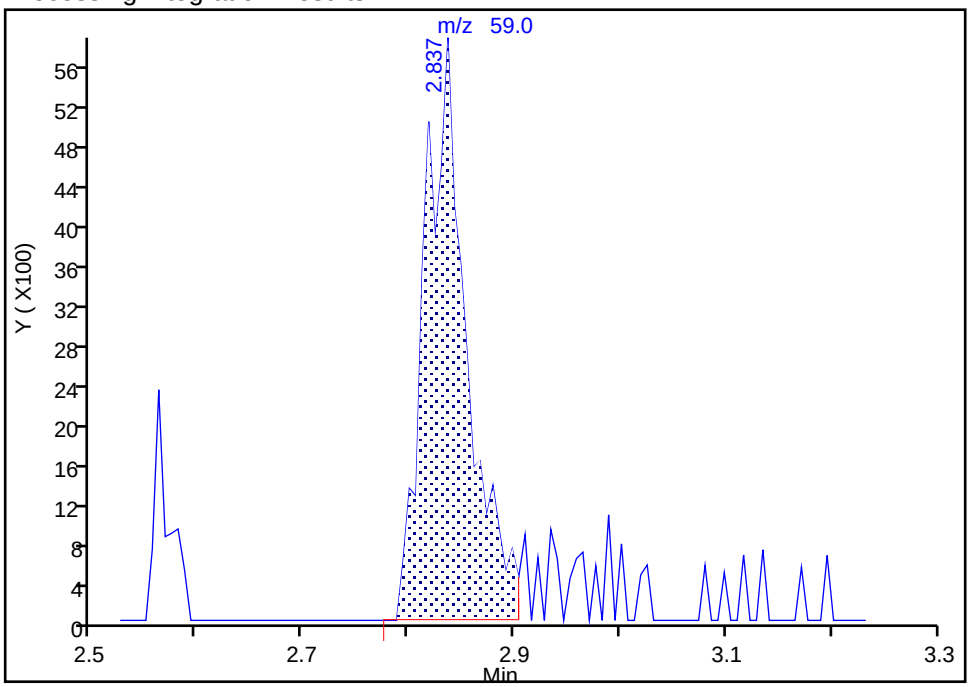
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Injection Date: 24-Oct-2024 15:41:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH/AD ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

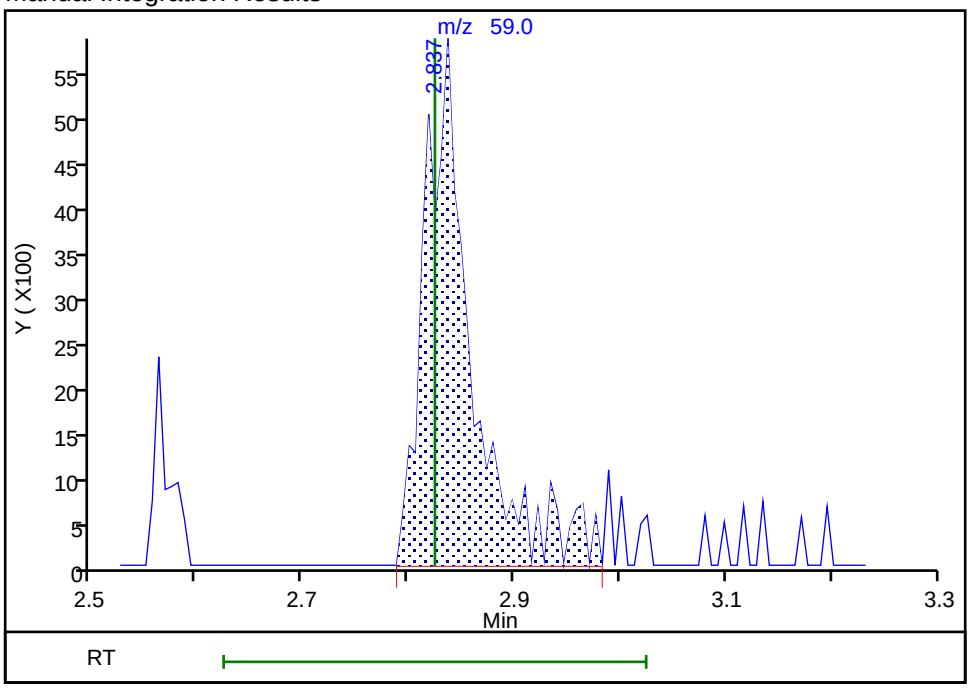
Processing Integration Results

RT: 2.84
Area: 16170
Amount: 9.271366
Amount Units: ug/L



Manual Integration Results

RT: 2.84
Area: 18104
Amount: 10.238345
Amount Units: ug/L



Reviewer: WLL8, 25-Oct-2024 10:25:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

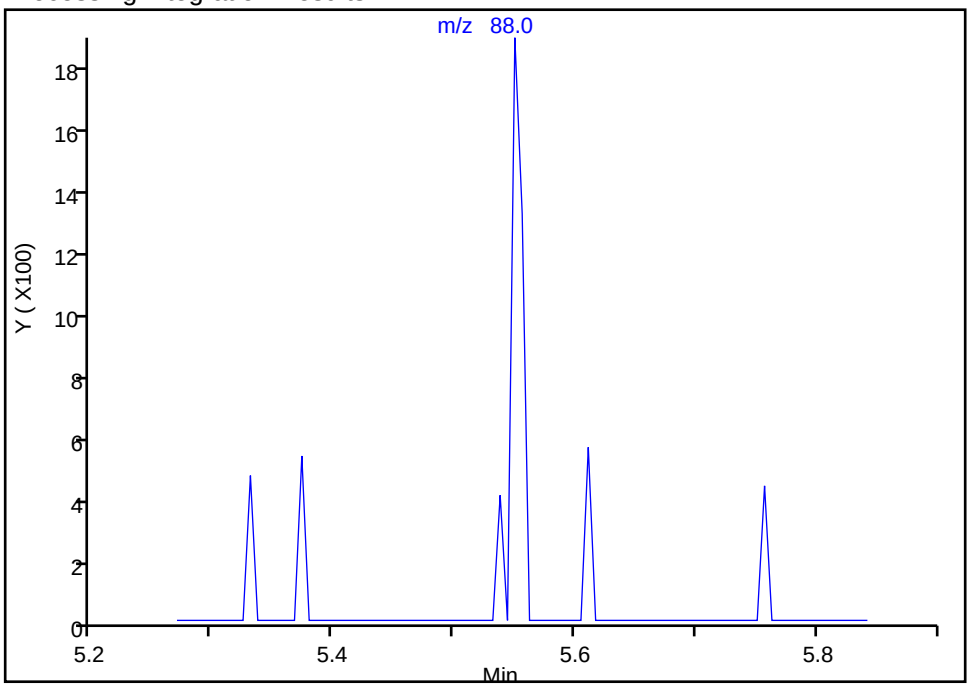
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Injection Date: 24-Oct-2024 15:41:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH/AD ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

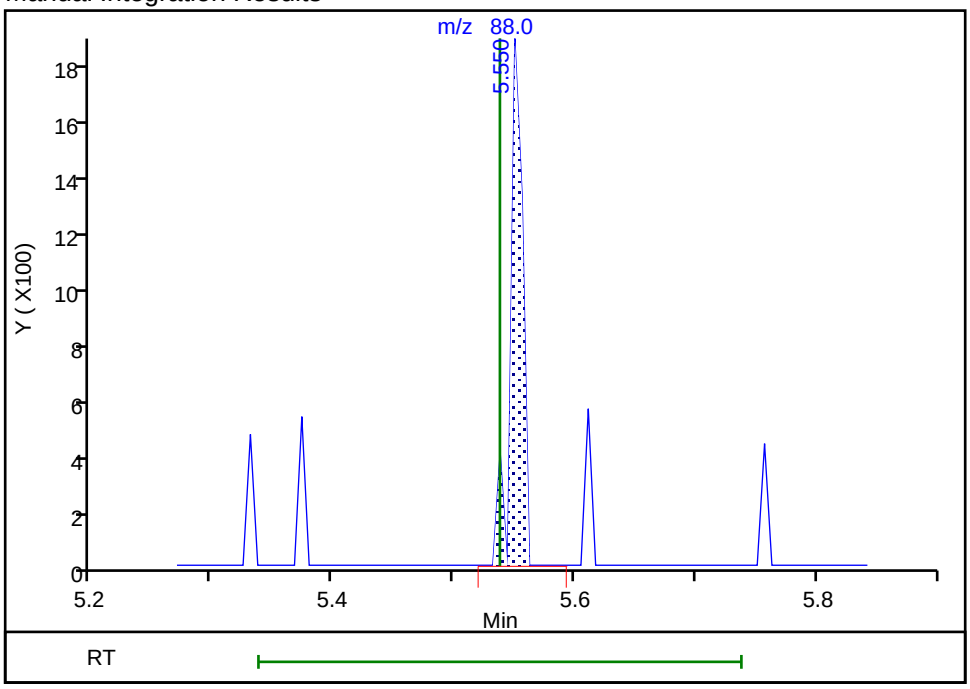
Not Detected
Expected RT: 5.54

Processing Integration Results



Manual Integration Results

RT: 5.55
Area: 1306
Amount: 17.302999
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:23:33 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

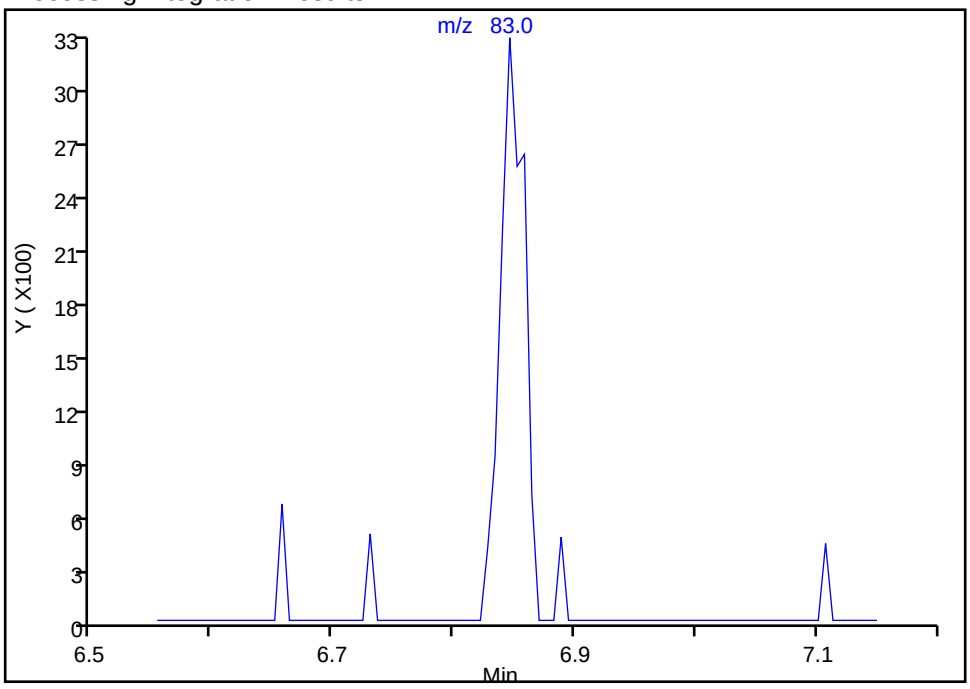
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Injection Date: 24-Oct-2024 15:41:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH/AD ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

78 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

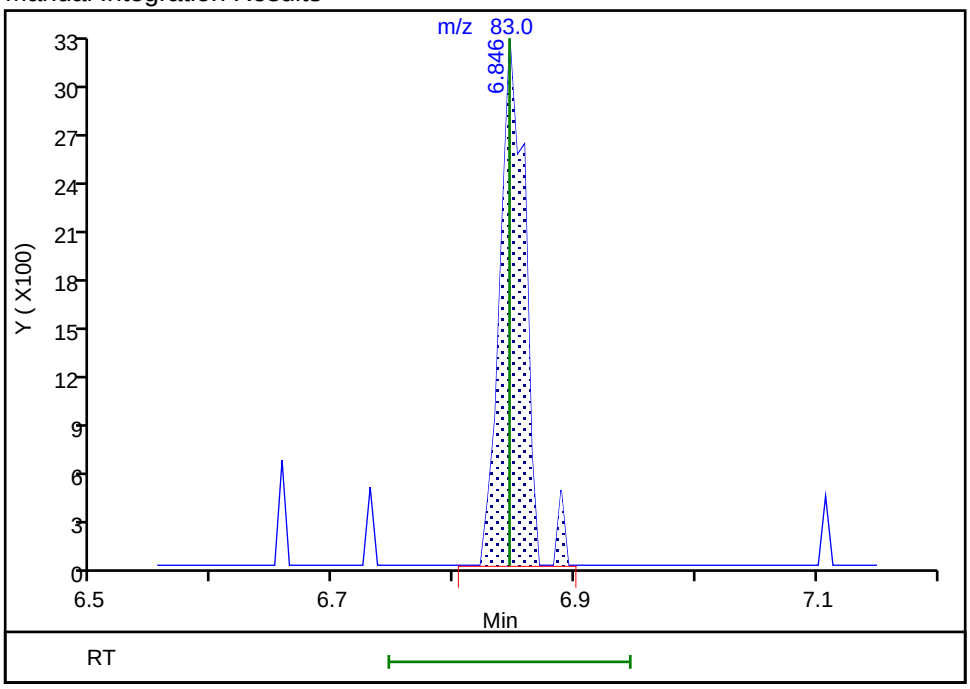
Not Detected
Expected RT: 6.85

Processing Integration Results



Manual Integration Results

RT: 6.85
Area: 4764
Amount: 0.854077
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:23:48 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

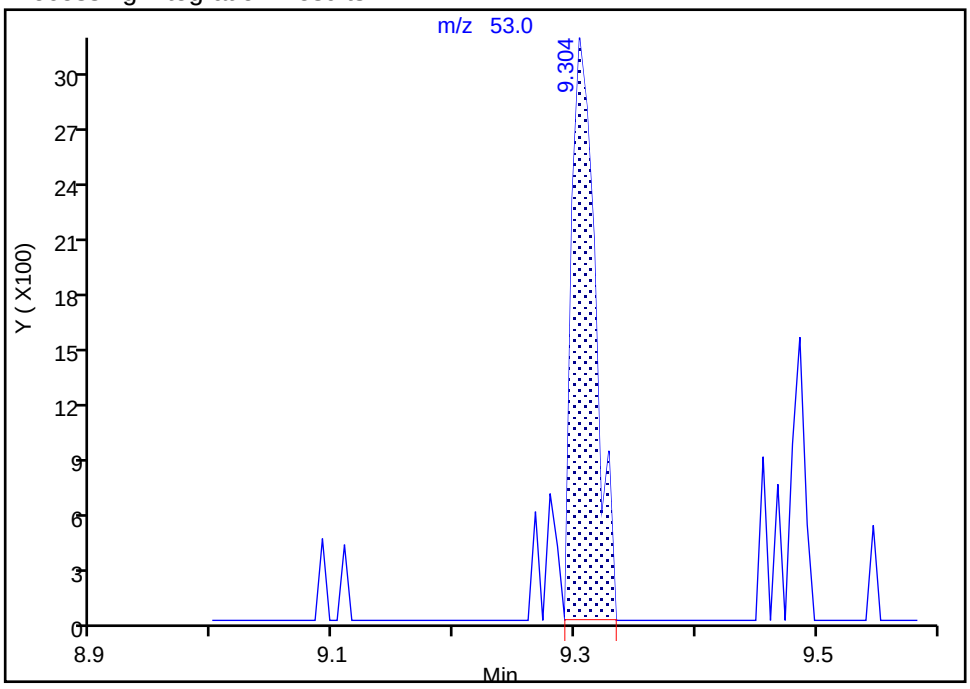
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0905.d
Injection Date: 24-Oct-2024 15:41:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH/AD ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

101 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

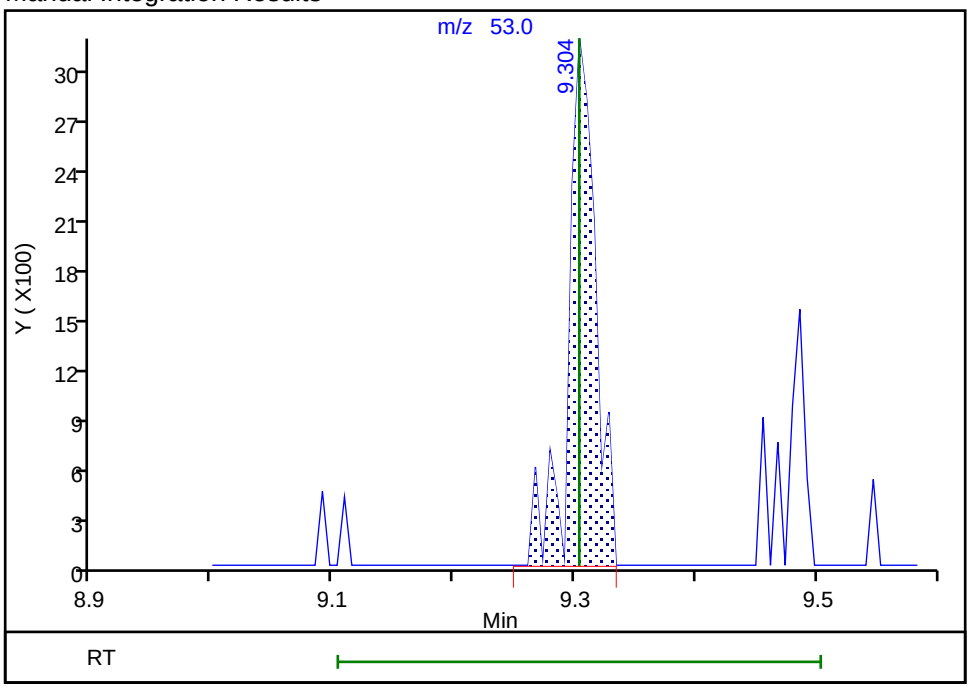
Processing Integration Results

RT: 9.30
Area: 4297
Amount: 0.788856
Amount Units: ug/L



Manual Integration Results

RT: 9.30
Area: 4911
Amount: 0.853701
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:24:40 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0906.d
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 24-Oct-2024 16:04:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0120783-015
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:25 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:27:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	182305	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.001	92	648789	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	332516	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	204704	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	95	329398	25.0	26.7	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	94	764142	25.0	25.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	89	234894	25.0	25.1	
11 Dichlorodifluoromethane	85	1.048	1.042	0.006	98	16011	2.00	1.78	
13 Chloromethane	50	1.188	1.182	0.006	98	36891	2.00	2.00	
14 Vinyl chloride	62	1.255	1.255	0.000	71	16348	2.00	1.68	
144 Butadiene	54	1.267	1.267	0.000	96	27191	2.00	1.74	
15 Bromomethane	94	1.511	1.504	0.007	74	10573	2.00	1.91	
16 Chloroethane	64	1.565	1.565	0.000	93	15049	2.00	2.20	
18 Trichlorofluoromethane	101	1.754	1.742	0.012	70	21440	2.00	1.78	
17 Dichlorofluoromethane	67	1.754	1.742	0.012	92	28922	2.00	1.86	
19 Ethyl ether	59	1.985	1.985	0.000	89	21630	2.00	2.18	
20 Acrolein	56	2.143	2.143	0.000	91	16238	10.0	10.7	M
22 1,1-Dichloroethene	96	2.180	2.174	0.006	91	12253	2.00	1.97	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.174	2.180	-0.006	62	13966	2.00	2.19	
23 Acetone	43	2.283	2.283	0.000	96	71916	10.0	10.9	
24 Iodomethane	142	2.320	2.314	0.006	98	24106	2.00	2.05	
25 Carbon disulfide	76	2.350	2.350	0.000	99	49468	2.00	2.20	
27 3-Chloro-1-propene	41	2.514	2.514	0.000	88	59724	2.00	2.28	
28 Methyl acetate	43	2.563	2.563	0.000	99	74679	4.00	4.22	
30 Methylene Chloride	84	2.648	2.654	-0.006	88	17815	2.00	2.22	
31 2-Methyl-2-propanol	59	2.825	2.825	0.000	91	35132	20.0	20.7	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	92	56164	2.00	2.08	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	86	15802	2.00	2.10	
34 Acrylonitrile	53	2.916	2.922	-0.006	97	161797	20.0	19.9	
35 Hexane	57	3.056	3.056	0.000	90	34442	2.00	2.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	36326	2.00	2.08	
39 Vinyl acetate	43	3.330	3.323	0.007	96	136369	4.00	3.97	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	85	22972	2.00	2.20	
43 cis-1,2-Dichloroethene	96	3.804	3.798	0.006	86	17277	2.00	2.10	
44 2-Butanone (MEK)	43	3.841	3.834	0.007	95	123126	10.0	11.4	
47 Chlorobromomethane	128	4.017	4.029	-0.012	82	7987	2.00	1.96	
49 Tetrahydrofuran	42	4.041	4.041	0.000	92	34973	4.00	4.43	
50 Chloroform	83	4.108	4.108	0.000	90	30194	2.00	2.14	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	77	24726	2.00	2.13	
52 Cyclohexane	56	4.206	4.212	-0.006	90	43393	2.00	2.01	
53 Carbon tetrachloride	117	4.339	4.339	0.000	74	22209	2.00	2.05	
54 1,1-Dichloropropene	75	4.352	4.358	-0.006	85	21119	2.00	2.15	
55 Benzene	78	4.552	4.552	0.000	48	62987	2.00	2.14	
56 Isobutyl alcohol	43	4.613	4.607	0.006	96	51621	50.0	53.7	
57 1,2-Dichloroethane	62	4.625	4.619	0.006	93	32698	2.00	2.16	
59 n-Heptane	43	4.747	4.747	0.000	95	44782	2.00	2.07	
60 Trichloroethene	95	5.161	5.155	0.006	92	15919	2.00	2.10	
62 Methylcyclohexane	83	5.270	5.264	0.006	90	24151	2.00	1.95	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	86	19010	2.00	2.03	
64 Dibromomethane	93	5.520	5.526	-0.006	89	11653	2.00	2.17	
66 1,4-Dioxane	88	5.538	5.538	0.000	0	2223	40.0	29.8	M
67 Dichlorobromomethane	83	5.684	5.684	0.000	89	18824	2.00	2.06	
69 2-Chloroethyl vinyl ether	63	5.976	5.970	0.006	85	13483	2.00	2.07	
71 cis-1,3-Dichloropropene	75	6.091	6.098	-0.007	75	25274	2.00	2.08	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	75840	10.0	10.6	
73 Toluene	92	6.371	6.371	0.000	97	36322	2.00	2.05	
75 trans-1,3-Dichloropropene	75	6.669	6.663	0.006	90	22131	2.00	2.01	
77 Ethyl methacrylate	69	6.724	6.724	0.000	85	22330	2.00	2.03	
78 1,1,2-Trichloroethane	83	6.852	6.846	0.006	0	12211	2.00	2.21	M
79 Tetrachloroethene	166	6.895	6.894	0.000	86	16016	2.00	2.16	
80 1,3-Dichloropropane	76	7.004	6.998	0.006	87	25705	2.00	2.26	
82 2-Hexanone	43	7.083	7.083	0.000	97	156444	10.0	9.79	
83 Chlorodibromomethane	129	7.229	7.229	0.000	87	15953	2.00	2.20	
84 Ethylene Dibromide	107	7.320	7.320	0.000	93	13937	2.00	1.92	
85 Chlorobenzene	112	7.795	7.801	-0.006	90	40926	2.00	2.11	
88 Ethylbenzene	91	7.898	7.898	0.000	96	68119	2.00	2.02	
89 1,1,1,2-Tetrachloroethane	131	7.892	7.904	-0.012	47	17082	2.00	2.30	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	97	29108	2.00	2.19	
91 o-Xylene	106	8.446	8.440	0.006	97	29281	2.00	2.20	
92 Styrene	104	8.476	8.476	0.000	90	44761	2.00	2.07	
93 Bromoform	173	8.713	8.707	0.006	91	8668	2.00	1.83	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	67834	2.00	2.06	
97 Bromobenzene	156	9.164	9.170	-0.006	93	16934	2.00	1.99	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	92	22396	2.00	2.12	
100 N-Propylbenzene	91	9.273	9.273	0.000	97	81845	2.00	2.09	
99 1,2,3-Trichloropropane	110	9.285	9.279	0.006	56	6802	2.00	1.91	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	58	11553	2.00	2.04	M
102 2-Chlorotoluene	126	9.371	9.377	-0.006	95	17537	2.00	2.14	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	94	61991	2.00	2.14	
105 4-Chlorotoluene	91	9.498	9.492	0.006	97	58748	2.00	2.09	
106 tert-Butylbenzene	134	9.802	9.796	0.006	96	11950	2.00	1.93	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	97	63477	2.00	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.021	10.021	0.000	96	69031	2.00	1.89	
110 1,3-Dichlorobenzene	146	10.155	10.149	0.006	93	32826	2.00	2.09	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	97	66189	2.00	2.02	
113 1,4-Dichlorobenzene	146	10.247	10.240	0.007	91	36334	2.00	2.25	
115 n-Butylbenzene	91	10.575	10.569	0.006	96	58355	2.00	2.07	
116 1,2-Dichlorobenzene	146	10.593	10.599	-0.006	86	33220	2.00	2.09	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	73	4643	2.00	2.00	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	24699	2.00	2.16	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	87	12146	2.00	2.13	
121 Naphthalene	128	12.248	12.248	0.000	97	70298	2.00	1.98	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	88	20948	2.00	1.88	
S 123 1,3-Dichloropropene, Total	1				0			4.09	
S 124 1,2-Dichloroethene, Total	1				0			4.20	
S 125 Total BTEX	1				0			10.6	
S 126 Xylenes, Total	1				0			4.39	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00260	Amount Added:	2.00	Units: uL	
GAS CORP mix_00646	Amount Added:	2.00	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

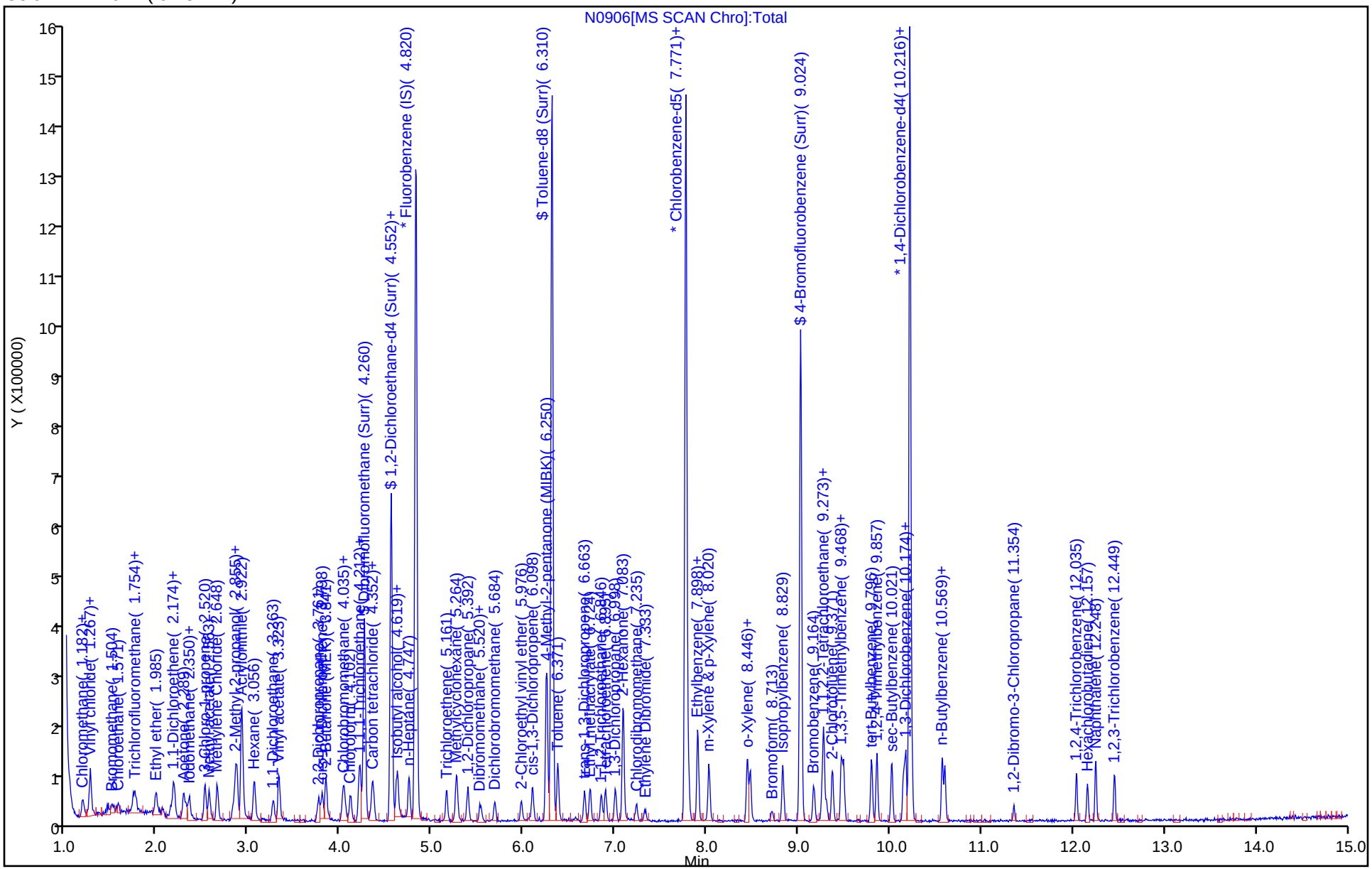
Report Date: 25-Oct-2024 11:16:28 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0906.d

Injection Date:	24-Oct-2024 16:04:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC 2			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

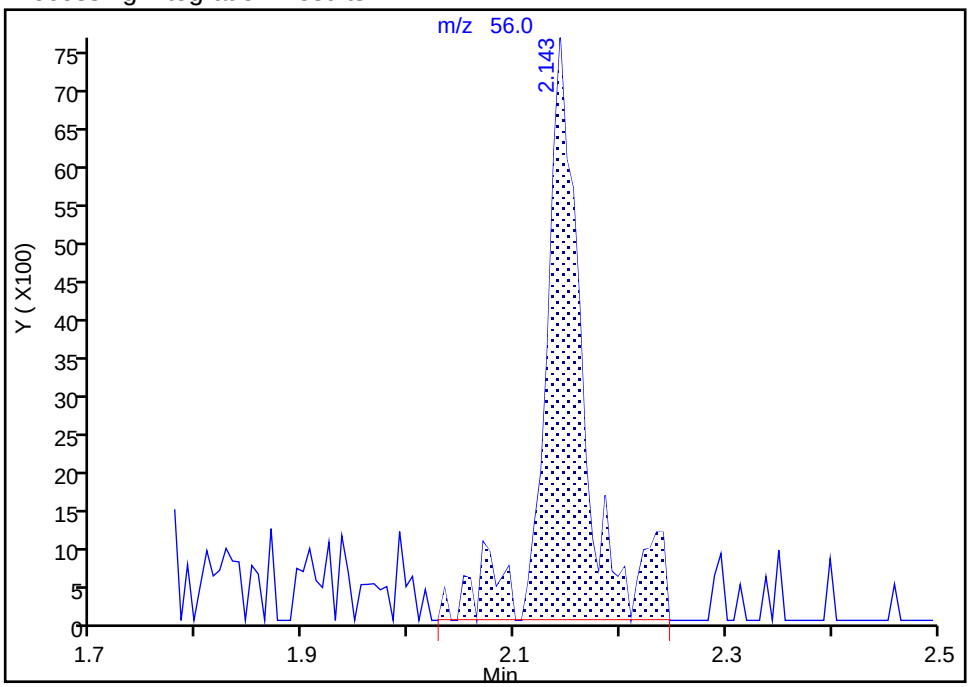
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0906.d
Injection Date: 24-Oct-2024 16:04:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH/AD ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

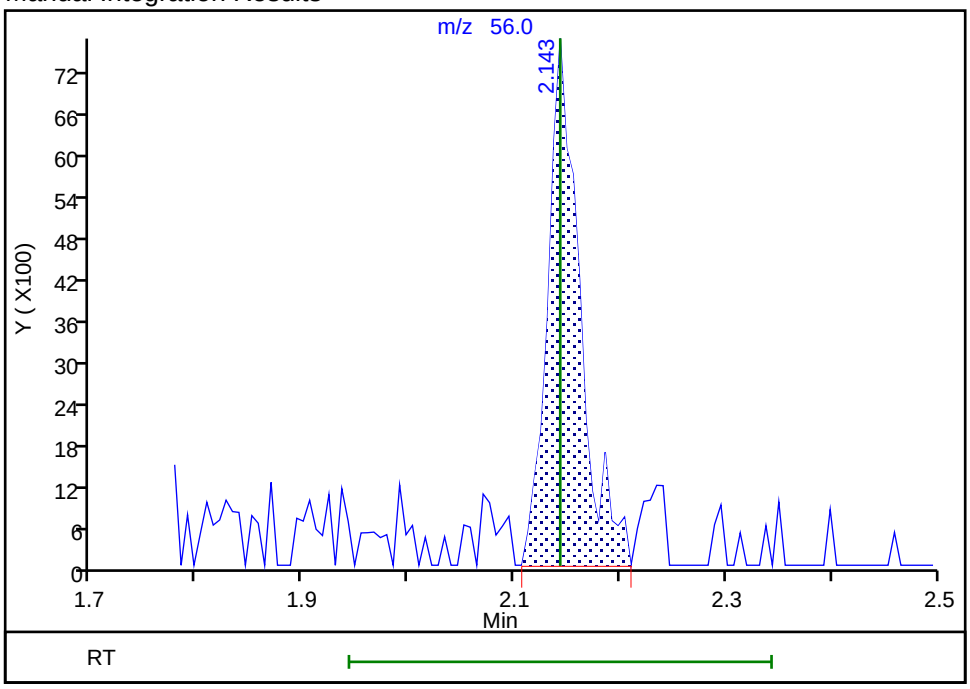
Processing Integration Results

RT: 2.14
Area: 19876
Amount: 12.643553
Amount Units: ug/L



Manual Integration Results

RT: 2.14
Area: 16238
Amount: 10.667606
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:34:42 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

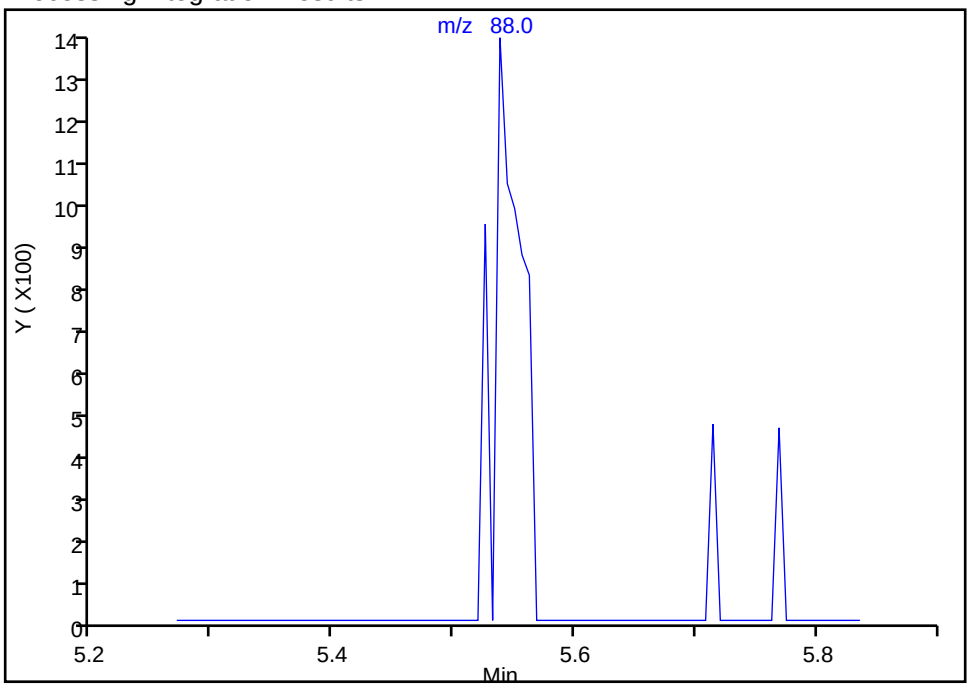
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0906.d
Injection Date: 24-Oct-2024 16:04:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH/AD ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

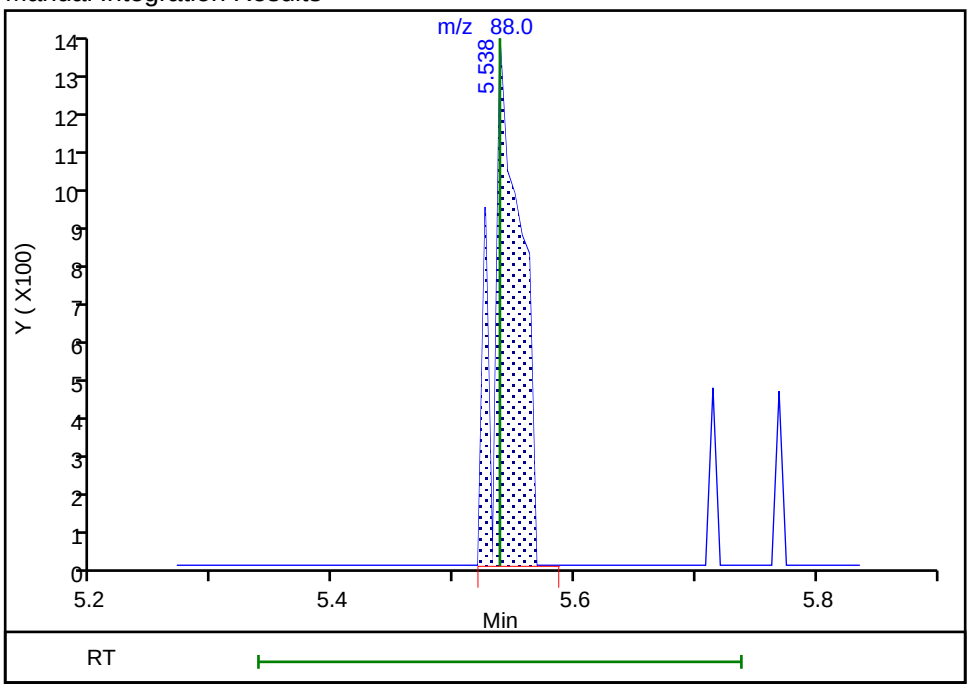
Not Detected
Expected RT: 5.54

Processing Integration Results



Manual Integration Results

RT: 5.54
Area: 2223
Amount: 29.790620
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:26:59 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

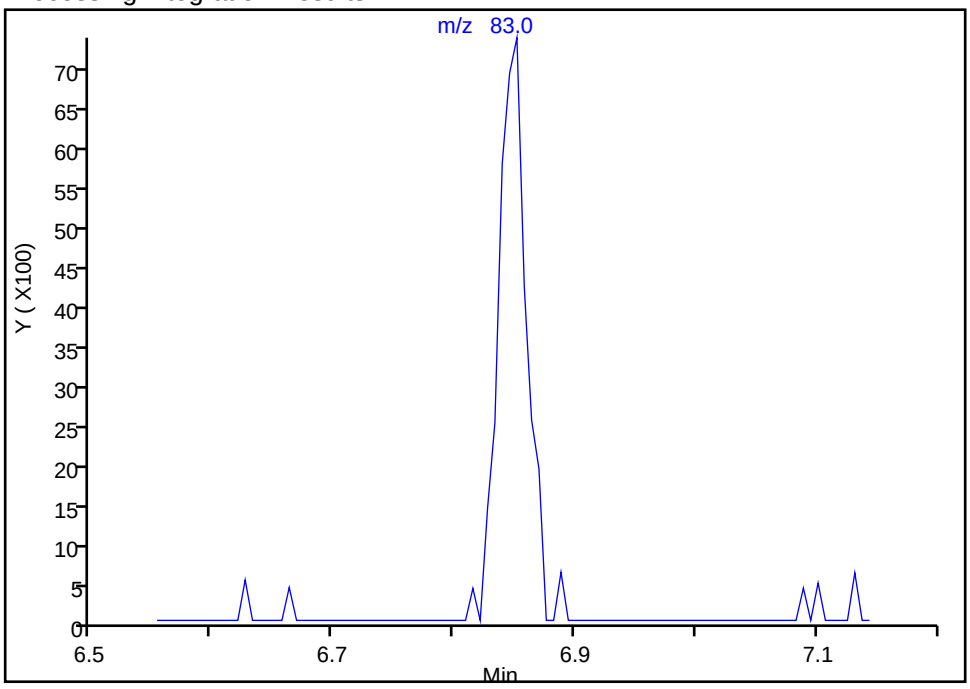
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0906.d
Injection Date: 24-Oct-2024 16:04:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH/AD ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

78 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

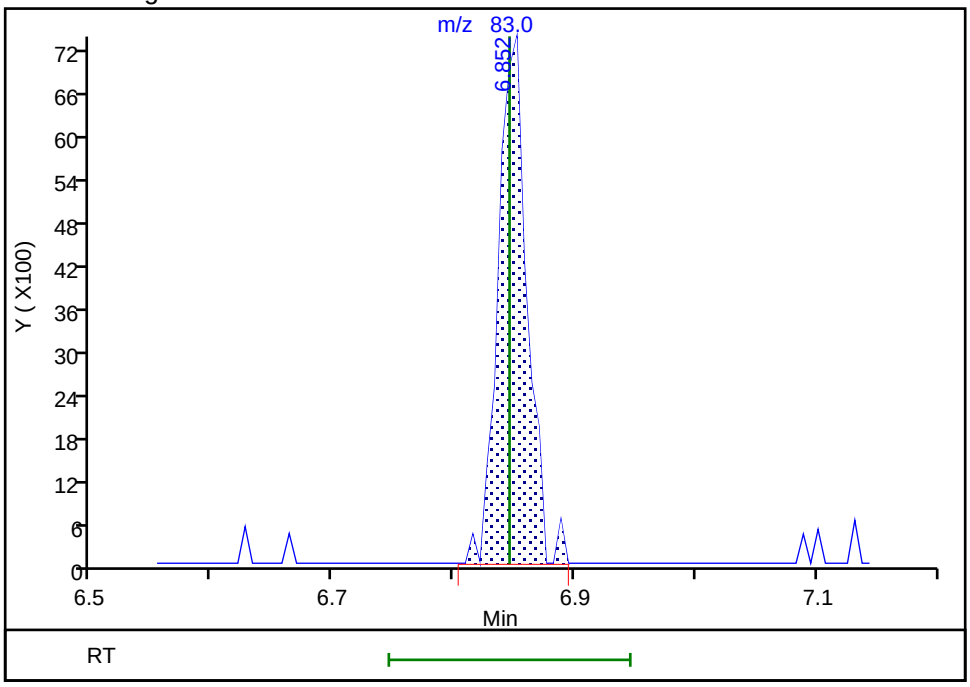
Not Detected
Expected RT: 6.85

Processing Integration Results



Manual Integration Results

RT: 6.85
Area: 12211
Amount: 2.214310
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:27:15 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

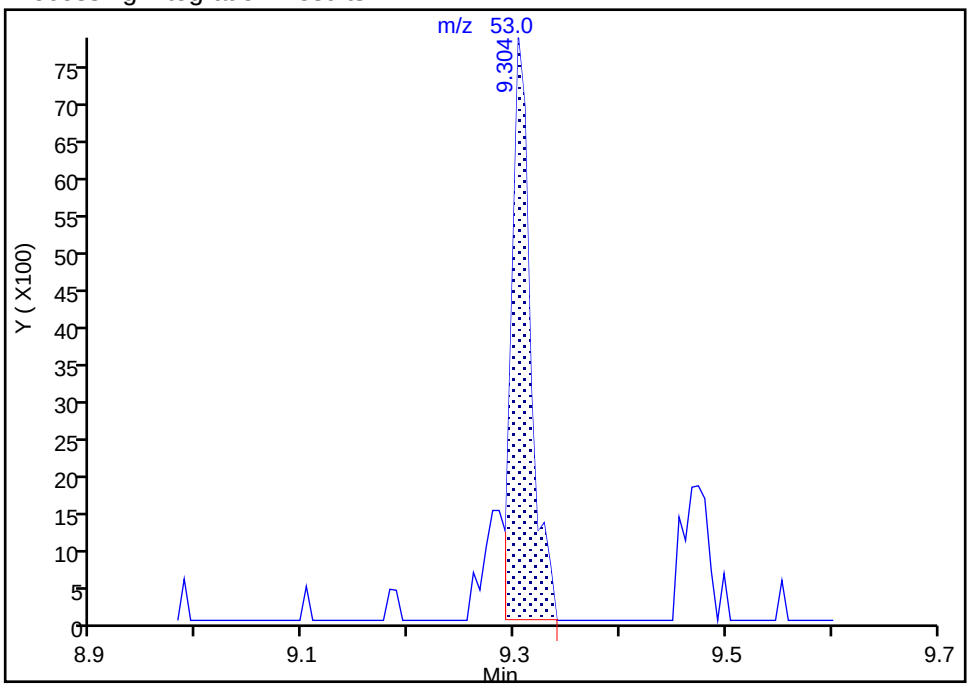
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0906.d
Injection Date: 24-Oct-2024 16:04:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH/AD ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

101 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

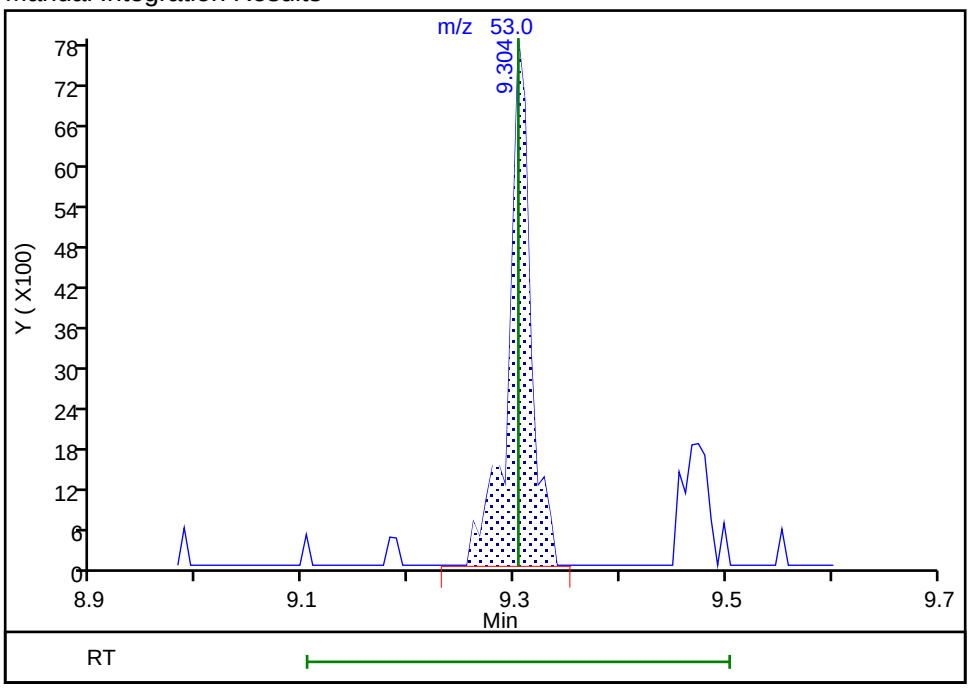
Processing Integration Results

RT: 9.30
Area: 9732
Amount: 1.789155
Amount Units: ug/L



Manual Integration Results

RT: 9.30
Area: 11553
Amount: 2.043533
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:27:40 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0907.d
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 24-Oct-2024 16:27:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0120783-016
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:35 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:29:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	187887	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	90	680417	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	343944	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	93	216420	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	91	319011	25.0	25.1	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	95	772367	25.0	24.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	87	249929	25.0	25.4	
11 Dichlorodifluoromethane	85	1.048	1.048	0.000	98	46077	5.00	4.98	
13 Chloromethane	50	1.182	1.182	0.000	99	97247	5.00	5.11	
14 Vinyl chloride	62	1.261	1.261	0.000	81	49260	5.00	4.91	
144 Butadiene	54	1.273	1.273	0.000	98	78382	5.00	4.88	
15 Bromomethane	94	1.511	1.511	0.000	96	28489	5.00	4.99	
16 Chloroethane	64	1.565	1.565	0.000	96	35926	5.00	5.10	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	67	58896	5.00	4.74	
17 Dichlorofluoromethane	67	1.754	1.754	0.000	93	76444	5.00	4.76	
19 Ethyl ether	59	1.985	1.985	0.000	92	52085	5.00	5.09	
20 Acrolein	56	2.149	2.149	0.000	96	39686	25.0	25.3	
22 1,1-Dichloroethene	96	2.174	2.174	0.000	89	29427	5.00	4.60	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	57	30749	5.00	4.68	
23 Acetone	43	2.283	2.283	0.000	97	171606	25.0	25.2	
24 Iodomethane	142	2.320	2.320	0.000	99	61704	5.00	5.09	
25 Carbon disulfide	76	2.350	2.350	0.000	99	106403	5.00	4.59	
27 3-Chloro-1-propene	41	2.520	2.520	0.000	88	131870	5.00	4.88	
28 Methyl acetate	43	2.569	2.569	0.000	99	173469	10.0	9.51	a
30 Methylene Chloride	84	2.654	2.654	0.000	87	37843	5.00	4.73	
31 2-Methyl-2-propanol	59	2.837	2.837	0.000	95	87581	50.0	50.1	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	87	129825	5.00	4.67	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	90	36077	5.00	4.66	
34 Acrylonitrile	53	2.922	2.922	0.000	95	431814	50.0	51.6	
35 Hexane	57	3.056	3.056	0.000	96	83303	5.00	4.81	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.263	3.263	0.000	95	95665	5.00	5.32	
39 Vinyl acetate	43	3.323	3.323	0.000	96	351595	10.0	9.92	
42 2,2-Dichloropropane	77	3.768	3.768	0.000	80	49068	5.00	4.55	
43 cis-1,2-Dichloroethene	96	3.804	3.804	0.000	85	42507	5.00	5.00	
44 2-Butanone (MEK)	43	3.841	3.841	0.000	96	289882	25.0	26.0	
47 Chlorobromomethane	128	4.029	4.029	0.000	82	20364	5.00	4.84	
49 Tetrahydrofuran	42	4.041	4.041	0.000	93	84941	10.0	10.4	
50 Chloroform	83	4.108	4.108	0.000	91	66345	5.00	4.57	
51 1,1,1-Trichloroethane	97	4.212	4.212	0.000	78	59452	5.00	4.98	
52 Cyclohexane	56	4.218	4.218	0.000	93	101099	5.00	4.55	
53 Carbon tetrachloride	117	4.339	4.339	0.000	95	51576	5.00	4.62	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	83	50551	5.00	4.98	
55 Benzene	78	4.552	4.552	0.000	62	149531	5.00	4.92	
56 Isobutyl alcohol	43	4.607	4.607	0.000	96	129268	125.0	130.6	
57 1,2-Dichloroethane	62	4.619	4.619	0.000	94	76305	5.00	4.89	
59 n-Heptane	43	4.747	4.747	0.000	94	108824	5.00	4.87	
60 Trichloroethene	95	5.155	5.155	0.000	91	37597	5.00	4.80	
62 Methylcyclohexane	83	5.270	5.270	0.000	90	56753	5.00	4.45	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	88	50536	5.00	5.25	
64 Dibromomethane	93	5.532	5.532	0.000	91	27731	5.00	5.02	
66 1,4-Dioxane	88	5.538	5.538	0.000	0	8574	100.0	109.6	M
67 Dichlorobromomethane	83	5.684	5.684	0.000	88	44639	5.00	4.73	
69 2-Chloroethyl vinyl ether	63	5.976	5.976	0.000	86	34106	5.00	5.09	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	82	64018	5.00	5.12	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	179831	25.0	24.0	
73 Toluene	92	6.371	6.371	0.000	97	95403	5.00	5.14	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	91	62967	5.00	5.44	
77 Ethyl methacrylate	69	6.724	6.724	0.000	84	57600	5.00	4.99	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	93	30926	5.00	5.35	
79 Tetrachloroethene	166	6.888	6.888	0.000	95	39758	5.00	5.11	
80 1,3-Dichloropropane	76	7.004	7.004	0.000	87	54683	5.00	4.59	
82 2-Hexanone	43	7.083	7.083	0.000	97	426559	25.0	25.4	
83 Chlorodibromomethane	129	7.235	7.235	0.000	89	36723	5.00	4.82	
84 Ethylene Dibromide	107	7.326	7.326	0.000	96	38806	5.00	5.09	
85 Chlorobenzene	112	7.795	7.795	0.000	92	101981	5.00	5.02	
88 Ethylbenzene	91	7.898	7.898	0.000	97	174871	5.00	4.94	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	45	37991	5.00	4.88	
90 m-Xylene & p-Xylene	106	8.026	8.026	0.000	96	65839	5.00	4.72	
91 o-Xylene	106	8.440	8.440	0.000	96	68148	5.00	4.88	
92 Styrene	104	8.476	8.476	0.000	94	110352	5.00	4.86	
93 Bromoform	173	8.707	8.707	0.000	92	22195	5.00	4.46	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	163430	5.00	4.80	
97 Bromobenzene	156	9.170	9.170	0.000	88	46166	5.00	5.25	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.255	0.000	94	51676	5.00	4.73	
100 N-Propylbenzene	91	9.273	9.273	0.000	98	199860	5.00	4.94	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	57	19791	5.00	5.36	
101 trans-1,4-Dichloro-2-butene	53	9.310	9.310	0.000	59	27711	5.00	4.74	
102 2-Chlorotoluene	126	9.371	9.371	0.000	94	44158	5.00	5.21	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	93	149724	5.00	5.00	
105 4-Chlorotoluene	91	9.492	9.492	0.000	98	146740	5.00	5.05	
106 tert-Butylbenzene	134	9.802	9.802	0.000	96	33164	5.00	5.19	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	150405	5.00	4.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.015	10.015	0.000	95	184099	5.00	4.86	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	96	83263	5.00	5.12	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	98	162451	5.00	4.79	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	92	81835	5.00	4.89	
115 n-Butylbenzene	91	10.569	10.569	0.000	97	143850	5.00	4.94	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	95	79614	5.00	4.84	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	80	10827	5.00	4.50	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	95	58807	5.00	4.97	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	91	30824	5.00	5.22	
121 Naphthalene	128	12.248	12.248	0.000	97	178024	5.00	4.86	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	95	57483	5.00	4.99	
S 123 1,3-Dichloropropene, Total	1				0			10.6	
S 124 1,2-Dichloroethene, Total	1				0			9.66	
S 125 Total BTEX	1				0			24.6	
S 126 Xylenes, Total	1				0			9.60	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8260 CORP mix_00260	Amount Added:	5.00	Units: uL	
GAS CORP mix_00646	Amount Added:	5.00	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

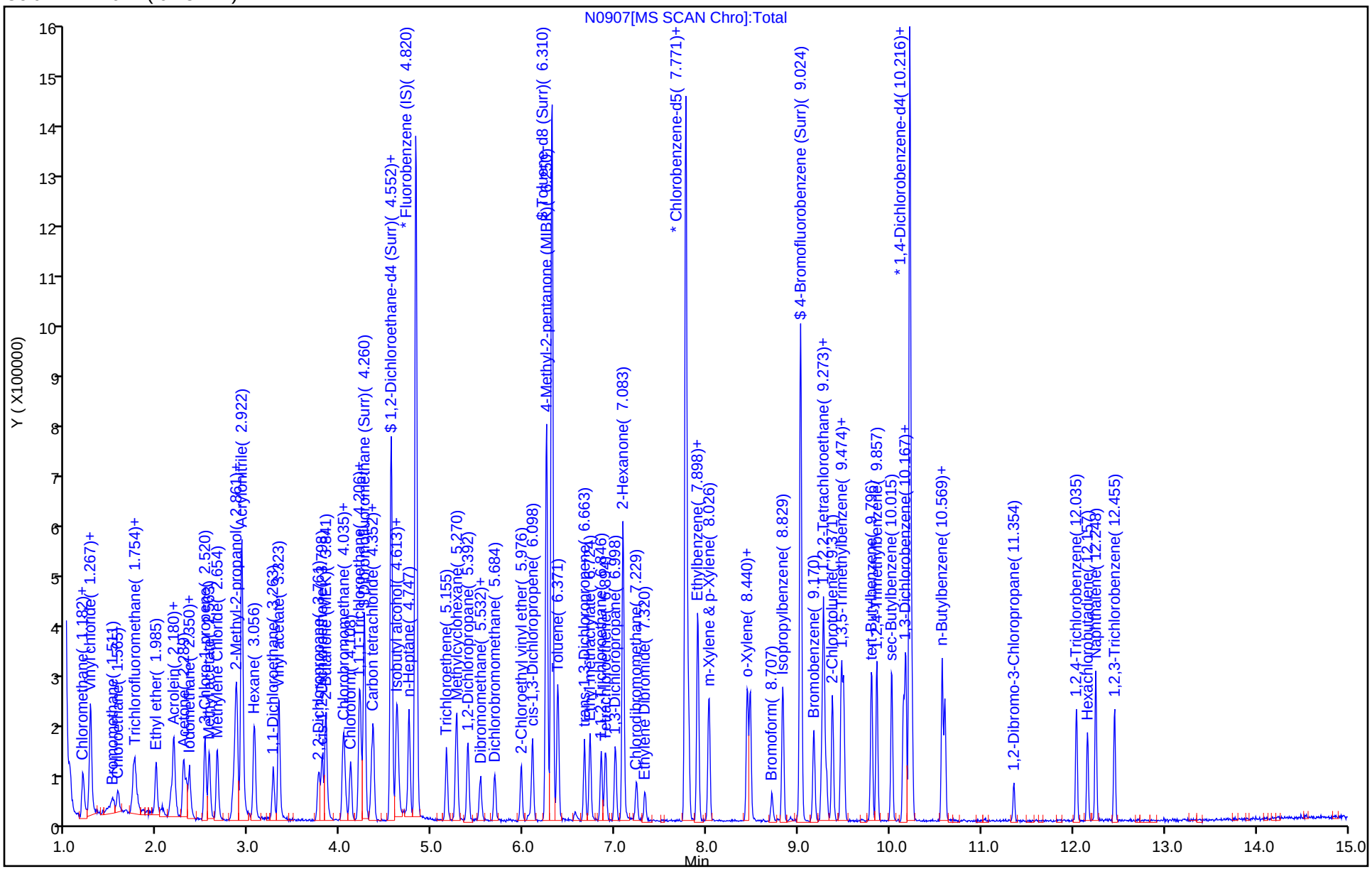
Report Date: 25-Oct-2024 11:16:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0907.d

Injection Date:	24-Oct-2024 16:27:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC 3			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

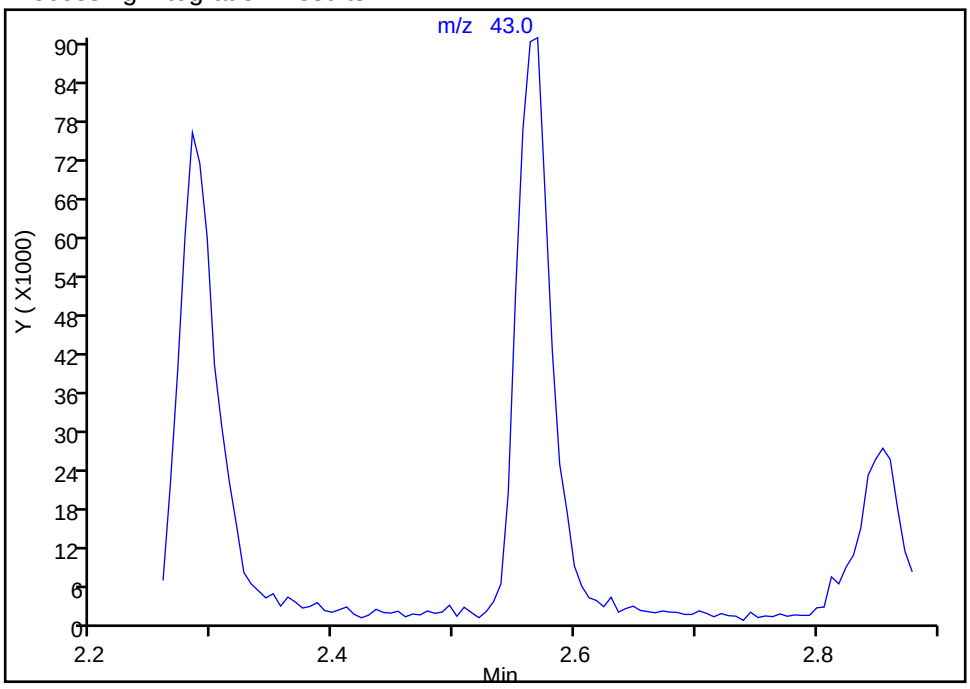
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0907.d
Injection Date: 24-Oct-2024 16:27:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH/AD ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

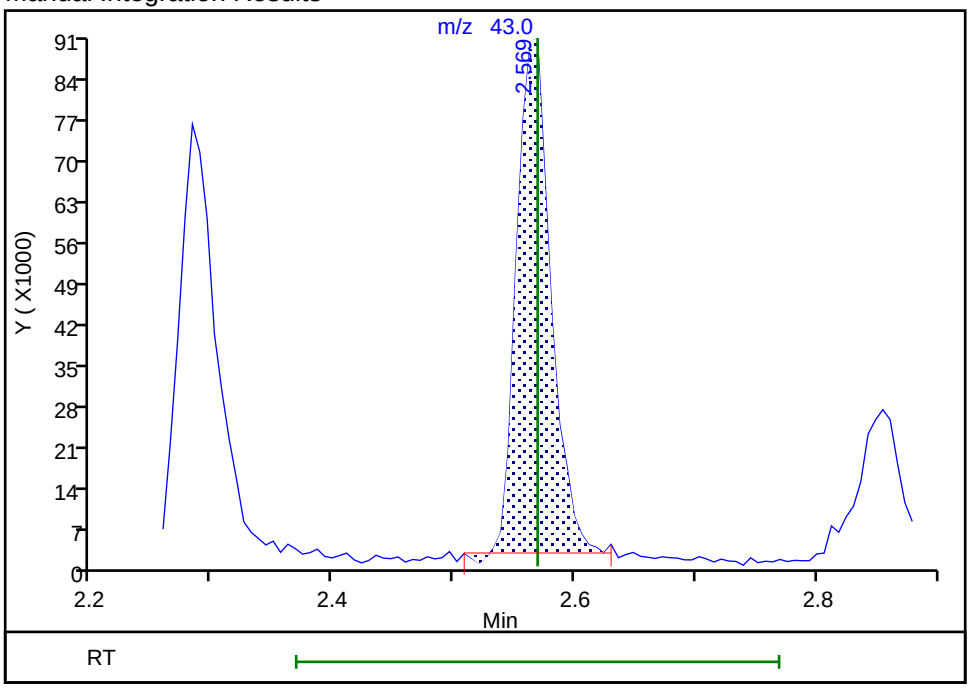
Not Detected
Expected RT: 2.57

Processing Integration Results



Manual Integration Results

RT: 2.57
Area: 173469
Amount: 9.509910
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:28:21 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

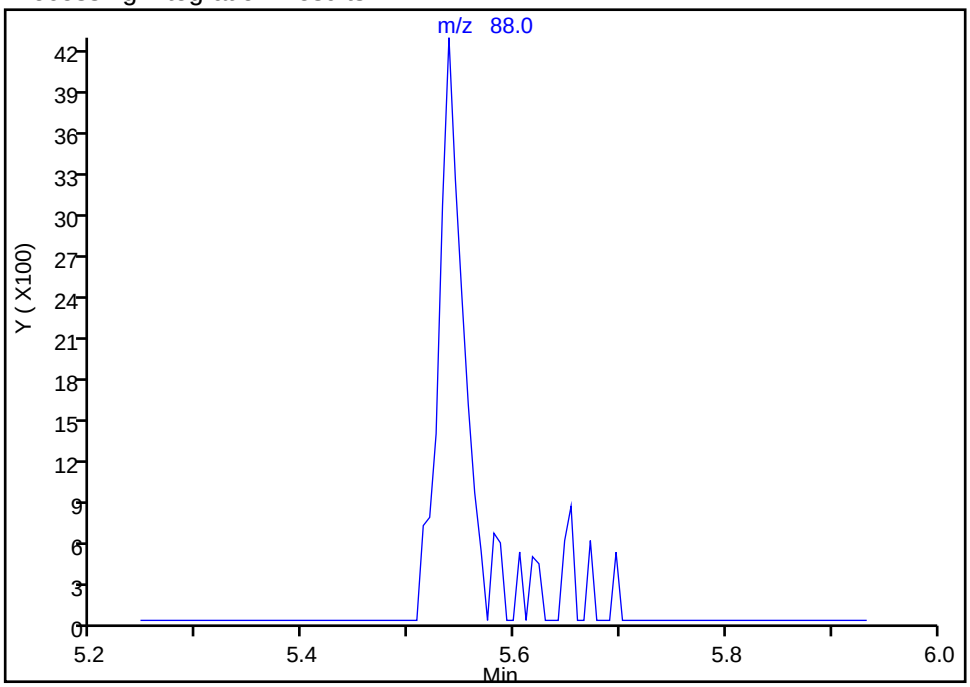
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0907.d
Injection Date: 24-Oct-2024 16:27:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH/AD ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

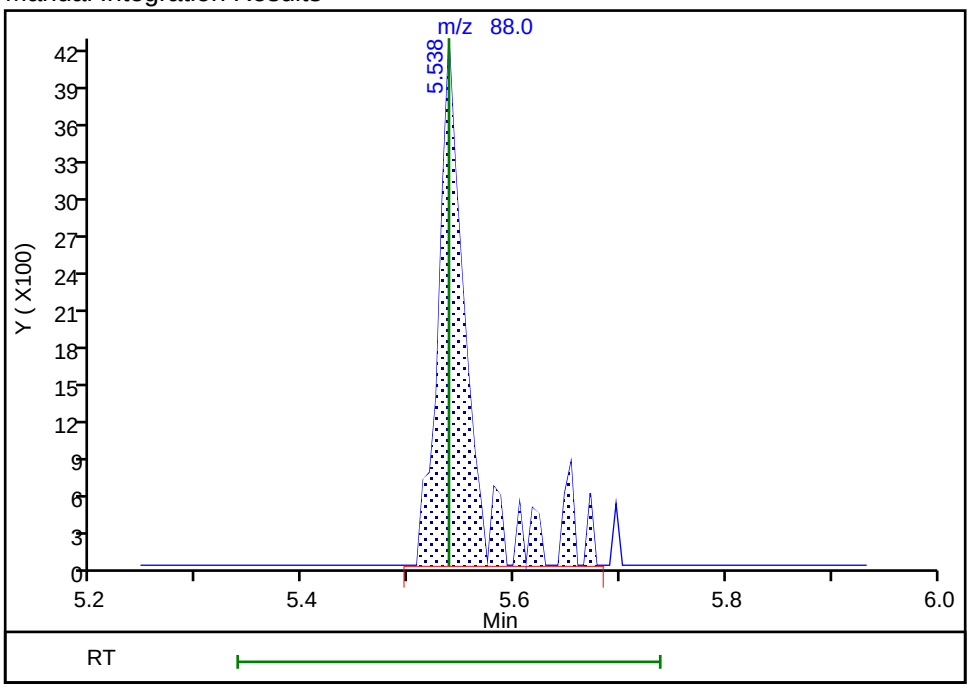
Not Detected
Expected RT: 5.54

Processing Integration Results



Manual Integration Results

RT: 5.54
Area: 8574
Amount: 109.5600
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:28:47 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0908.d
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 24-Oct-2024 16:49:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0120783-017
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:41 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:29:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	172865	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	91	627437	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	319262	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.260	-0.006	92	208978	25.0	26.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.553	4.552	0.001	89	299845	25.0	25.7	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	94	705530	25.0	24.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	89	219057	25.0	24.2	
11 Dichlorodifluoromethane	85	1.042	1.048	-0.006	98	96382	10.0	11.3	
13 Chloromethane	50	1.182	1.182	0.000	99	183733	10.0	10.5	
14 Vinyl chloride	62	1.255	1.261	-0.006	96	98657	10.0	10.7	
144 Butadiene	54	1.267	1.273	-0.006	92	162626	10.0	11.0	
15 Bromomethane	94	1.505	1.511	-0.006	92	62218	10.0	11.9	
16 Chloroethane	64	1.559	1.565	-0.006	94	63936	10.0	9.87	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	67	131384	10.0	11.5	
17 Dichlorofluoromethane	67	1.736	1.754	-0.018	94	161159	10.0	10.9	
19 Ethyl ether	59	1.985	1.985	0.000	91	98041	10.0	10.4	
20 Acrolein	56	2.137	2.149	-0.012	95	74494	50.0	51.6	
22 1,1-Dichloroethene	96	2.174	2.174	0.000	89	62074	10.0	10.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.174	2.180	-0.006	58	61348	10.0	10.1	
23 Acetone	43	2.283	2.283	0.000	97	300200	50.0	47.9	
24 Iodomethane	142	2.314	2.320	-0.006	99	122090	10.0	11.0	
25 Carbon disulfide	76	2.344	2.350	-0.006	98	223251	10.0	10.5	
27 3-Chloro-1-propene	41	2.521	2.520	0.001	87	256664	10.0	10.3	
28 Methyl acetate	43	2.563	2.569	-0.006	99	326100	20.0	19.4	
30 Methylene Chloride	84	2.654	2.654	0.000	87	82986	10.0	11.5	
31 2-Methyl-2-propanol	59	2.831	2.837	-0.006	98	178352	100.0	110.9	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	90	275810	10.0	10.8	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	88	76604	10.0	10.7	
34 Acrylonitrile	53	2.916	2.922	-0.006	98	781512	100.0	101.5	
35 Hexane	57	3.056	3.056	0.000	95	160159	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	176561	10.0	10.7	
39 Vinyl acetate	43	3.324	3.323	0.001	96	625705	20.0	19.2	
42 2,2-Dichloropropane	77	3.756	3.768	-0.012	81	106712	10.0	10.8	
43 cis-1,2-Dichloroethene	96	3.798	3.804	-0.006	87	82044	10.0	10.5	
44 2-Butanone (MEK)	43	3.835	3.841	-0.006	95	471218	50.0	46.0	
47 Chlorobromomethane	128	4.023	4.029	-0.006	83	42303	10.0	10.9	
49 Tetrahydrofuran	42	4.042	4.041	0.001	91	143419	20.0	19.2	
50 Chloroform	83	4.108	4.108	0.000	93	136800	10.0	10.2	
51 1,1,1-Trichloroethane	97	4.206	4.212	-0.006	95	120262	10.0	10.9	
52 Cyclohexane	56	4.212	4.218	-0.006	94	222402	10.0	10.9	
53 Carbon tetrachloride	117	4.340	4.339	0.001	94	110464	10.0	10.8	
54 1,1-Dichloropropene	75	4.352	4.358	-0.006	81	95480	10.0	10.2	
55 Benzene	78	4.553	4.552	0.001	80	292204	10.0	10.5	
56 Isobutyl alcohol	43	4.607	4.607	0.000	94	227933	250.0	250.2	
57 1,2-Dichloroethane	62	4.626	4.619	0.007	95	142001	10.0	9.89	
59 n-Heptane	43	4.741	4.747	-0.006	94	203360	10.0	9.89	
60 Trichloroethene	95	5.155	5.155	0.000	90	69122	10.0	9.60	
62 Methylcyclohexane	83	5.270	5.270	0.000	91	127266	10.0	10.8	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	89	92249	10.0	10.4	
64 Dibromomethane	93	5.526	5.532	-0.006	95	46588	10.0	9.17	
66 1,4-Dioxane	88	5.538	5.538	0.000	67	15206	200.0	210.7	
67 Dichlorobromomethane	83	5.684	5.684	0.000	94	90382	10.0	10.4	
69 2-Chloroethyl vinyl ether	63	5.976	5.976	0.000	86	59916	10.0	9.72	
71 cis-1,3-Dichloropropene	75	6.092	6.098	-0.006	82	114880	10.0	10.0	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	335660	50.0	48.6	
73 Toluene	92	6.372	6.371	0.001	97	170448	10.0	9.95	
75 trans-1,3-Dichloropropene	75	6.664	6.663	0.001	91	100297	10.0	9.40	
77 Ethyl methacrylate	69	6.724	6.724	0.000	87	106669	10.0	10.0	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	94	50328	10.0	9.44	
79 Tetrachloroethene	166	6.895	6.888	0.007	94	70889	10.0	9.88	
80 1,3-Dichloropropane	76	6.998	7.004	-0.006	89	103810	10.0	9.45	
82 2-Hexanone	43	7.083	7.083	0.000	97	750027	50.0	48.5	
83 Chlorodibromomethane	129	7.229	7.235	-0.006	90	65247	10.0	9.29	
84 Ethylene Dibromide	107	7.327	7.326	0.001	98	68089	10.0	9.68	
85 Chlorobenzene	112	7.801	7.795	0.006	91	182576	10.0	9.75	
88 Ethylbenzene	91	7.905	7.898	0.007	98	326816	10.0	10.0	
89 1,1,1,2-Tetrachloroethane	131	7.898	7.904	-0.006	56	75124	10.0	10.5	
90 m-Xylene & p-Xylene	106	8.020	8.026	-0.006	95	131636	10.0	10.2	
91 o-Xylene	106	8.440	8.440	0.000	98	129636	10.0	10.1	
92 Styrene	104	8.476	8.476	0.000	94	205407	10.0	9.80	
93 Bromoform	173	8.708	8.707	0.001	94	46309	10.0	10.1	
95 Isopropylbenzene	105	8.829	8.829	0.000	97	315908	10.0	9.99	
97 Bromobenzene	156	9.170	9.170	0.000	94	82490	10.0	10.1	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.255	0.000	95	96817	10.0	9.55	
100 N-Propylbenzene	91	9.273	9.273	0.000	98	390582	10.0	10.4	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	90	33055	10.0	9.64	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.310	-0.006	72	51508	10.0	9.49	
102 2-Chlorotoluene	126	9.371	9.371	0.001	95	82199	10.0	10.5	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	95	286373	10.0	10.3	
105 4-Chlorotoluene	91	9.492	9.492	0.000	98	260130	10.0	9.65	
106 tert-Butylbenzene	134	9.803	9.802	0.001	96	58761	10.0	9.91	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	99	295529	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.022	10.015	0.007	95	357878	10.0	10.2	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	96	157097	10.0	10.4	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	97	319869	10.0	10.2	
113 1,4-Dichlorobenzene	146	10.241	10.240	0.001	94	158347	10.0	10.2	
115 n-Butylbenzene	91	10.569	10.569	0.000	99	275364	10.0	10.2	
116 1,2-Dichlorobenzene	146	10.600	10.599	0.001	97	158853	10.0	10.4	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	76	20800	10.0	9.32	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	93	120727	10.0	11.0	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	97	55929	10.0	10.2	
121 Naphthalene	128	12.248	12.248	0.000	97	348547	10.0	10.2	
122 1,2,3-Trichlorobenzene	180	12.449	12.455	-0.006	96	114880	10.0	10.8	
S 123 1,3-Dichloropropene, Total	1				0			19.4	
S 124 1,2-Dichloroethene, Total	1				0			21.2	
S 125 Total BTEX	1				0			50.7	
S 126 Xylenes, Total	1				0			20.3	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00260	Amount Added:	5.00	Units: uL	
GAS CORP mix_00646	Amount Added:	5.00	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

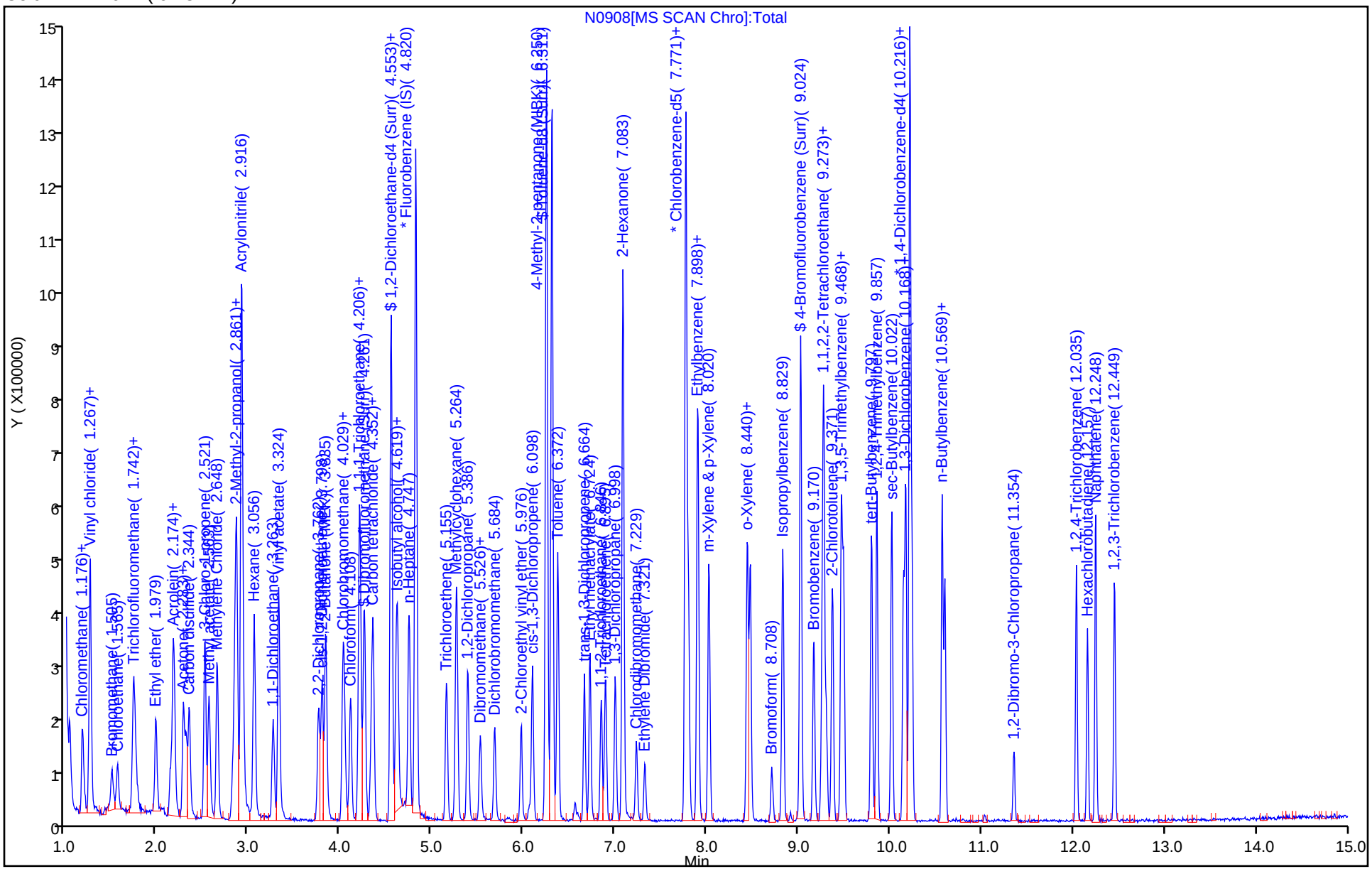
Report Date: 25-Oct-2024 11:16:44 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0908.d

Injection Date:	24-Oct-2024 16:49:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC 4			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0909.d
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 24-Oct-2024 17:11:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0120783-018
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:48 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:15:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	186096	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	90	644937	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	94	333633	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	95	210471	25.0	24.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	66	302301	25.0	24.0	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	94	743629	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.030	9.030	0.000	93	238347	25.0	25.6	
11 Dichlorodifluoromethane	85	1.042	1.042	0.000	98	251012	25.0	27.4	
13 Chloromethane	50	1.182	1.182	0.000	99	497018	25.0	26.4	
14 Vinyl chloride	62	1.255	1.255	0.000	97	268638	25.0	27.0	
144 Butadiene	54	1.267	1.267	0.000	95	422226	25.0	26.5	
15 Bromomethane	94	1.504	1.504	0.000	92	138778	25.0	24.6	
16 Chloroethane	64	1.565	1.565	0.000	95	169238	25.0	24.3	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	67	333030	25.0	27.0	
17 Dichlorofluoromethane	67	1.742	1.742	0.000	95	399652	25.0	25.1	
19 Ethyl ether	59	1.985	1.985	0.000	90	246991	25.0	24.4	
20 Acrolein	56	2.143	2.143	0.000	99	184490	125.0	118.7	a
22 1,1-Dichloroethene	96	2.174	2.174	0.000	89	171087	25.0	27.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	59	175238	25.0	26.9	
23 Acetone	43	2.283	2.283	0.000	97	784172	125.0	116.2	
24 Iodomethane	142	2.314	2.314	0.000	100	317849	25.0	26.5	
25 Carbon disulfide	76	2.350	2.350	0.000	98	607056	25.0	26.4	
27 3-Chloro-1-propene	41	2.514	2.514	0.000	87	672422	25.0	25.1	
28 Methyl acetate	43	2.563	2.563	0.000	99	838419	50.0	46.4	
30 Methylene Chloride	84	2.654	2.654	0.000	87	199246	25.0	25.8	
31 2-Methyl-2-propanol	59	2.825	2.825	0.000	97	424094	250.0	244.9	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	91	675986	25.0	24.5	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	89	203794	25.0	26.6	
34 Acrylonitrile	53	2.922	2.922	0.000	98	2023564	250.0	244.2	
35 Hexane	57	3.056	3.056	0.000	97	465177	25.0	27.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	458342	25.0	25.8	
39 Vinyl acetate	43	3.323	3.323	0.000	96	1752232	50.0	49.9	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	84	282542	25.0	26.5	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	86	208862	25.0	24.8	
44 2-Butanone (MEK)	43	3.834	3.834	0.000	96	1302348	125.0	118.1	
47 Chlorobromomethane	128	4.029	4.029	0.000	84	111241	25.0	26.7	
49 Tetrahydrofuran	42	4.041	4.041	0.000	92	372213	50.0	46.2	
50 Chloroform	83	4.108	4.108	0.000	93	346456	25.0	24.1	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	95	312704	25.0	26.4	
52 Cyclohexane	56	4.212	4.212	0.000	93	584505	25.0	26.6	
53 Carbon tetrachloride	117	4.339	4.339	0.000	96	291098	25.0	26.3	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	84	272826	25.0	27.2	
55 Benzene	78	4.552	4.552	0.000	88	776339	25.0	25.8	a
56 Isobutyl alcohol	43	4.607	4.607	0.000	94	581981	625.0	593.4	
57 1,2-Dichloroethane	62	4.619	4.619	0.000	94	384893	25.0	24.9	
59 n-Heptane	43	4.747	4.747	0.000	94	549643	25.0	24.8	
60 Trichloroethene	95	5.155	5.155	0.000	92	197452	25.0	25.5	
62 Methylcyclohexane	83	5.264	5.264	0.000	91	343124	25.0	27.1	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	86	244028	25.0	25.6	
64 Dibromomethane	93	5.526	5.526	0.000	97	128459	25.0	23.5	
66 1,4-Dioxane	88	5.538	5.538	0.000	28	43482	500.0	586.2	M
67 Dichlorobromomethane	83	5.684	5.684	0.000	95	251255	25.0	26.9	
69 2-Chloroethyl vinyl ether	63	5.970	5.970	0.000	84	173672	25.0	26.2	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	82	317778	25.0	25.7	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	878639	125.0	123.8	
73 Toluene	92	6.371	6.371	0.000	97	467790	25.0	26.6	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	89	288704	25.0	26.3	
77 Ethyl methacrylate	69	6.724	6.724	0.000	86	279688	25.0	25.6	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	93	139338	25.0	25.4	
79 Tetrachloroethene	166	6.894	6.894	0.000	93	195343	25.0	26.5	
80 1,3-Dichloropropane	76	6.998	6.998	0.000	86	286068	25.0	25.3	
82 2-Hexanone	43	7.083	7.083	0.000	97	1959122	125.0	123.3	
83 Chlorodibromomethane	129	7.229	7.229	0.000	89	193508	25.0	26.8	
84 Ethylene Dibromide	107	7.320	7.320	0.000	97	187423	25.0	25.9	
85 Chlorobenzene	112	7.801	7.801	0.000	90	498469	25.0	25.9	
88 Ethylbenzene	91	7.898	7.898	0.000	98	885059	25.0	26.4	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	91	195298	25.0	26.5	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	97	352200	25.0	26.6	
91 o-Xylene	106	8.440	8.440	0.000	97	356241	25.0	26.9	
92 Styrene	104	8.476	8.476	0.000	93	571283	25.0	26.5	
93 Bromoform	173	8.707	8.707	0.000	96	124305	25.0	26.4	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	867730	25.0	26.3	
97 Bromobenzene	156	9.170	9.170	0.000	89	222712	25.0	26.1	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	95	250522	25.0	23.6	
100 N-Propylbenzene	91	9.273	9.273	0.000	98	1042109	25.0	26.5	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	85	87879	25.0	24.5	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	74	149225	25.0	26.3	
102 2-Chlorotoluene	126	9.377	9.377	0.000	96	211759	25.0	25.8	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	94	786527	25.0	27.1	
105 4-Chlorotoluene	91	9.492	9.492	0.000	98	725107	25.0	25.7	
106 tert-Butylbenzene	134	9.796	9.796	0.000	96	172113	25.0	27.8	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	797239	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.021	10.021	0.000	95	992582	25.0	27.0	a
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	98	406581	25.0	25.8	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	98	874490	25.0	26.6	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	93	419121	25.0	25.8	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	744208	25.0	26.3	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	96	404393	25.0	25.3	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	74	65193	25.0	27.9	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	297211	25.0	25.9	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	94	154110	25.0	26.9	
121 Naphthalene	128	12.248	12.248	0.000	97	894930	25.0	25.2	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	95	284643	25.0	25.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00260	Amount Added:	12.50	Units: uL	
GAS CORP mix_00646	Amount Added:	12.50	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

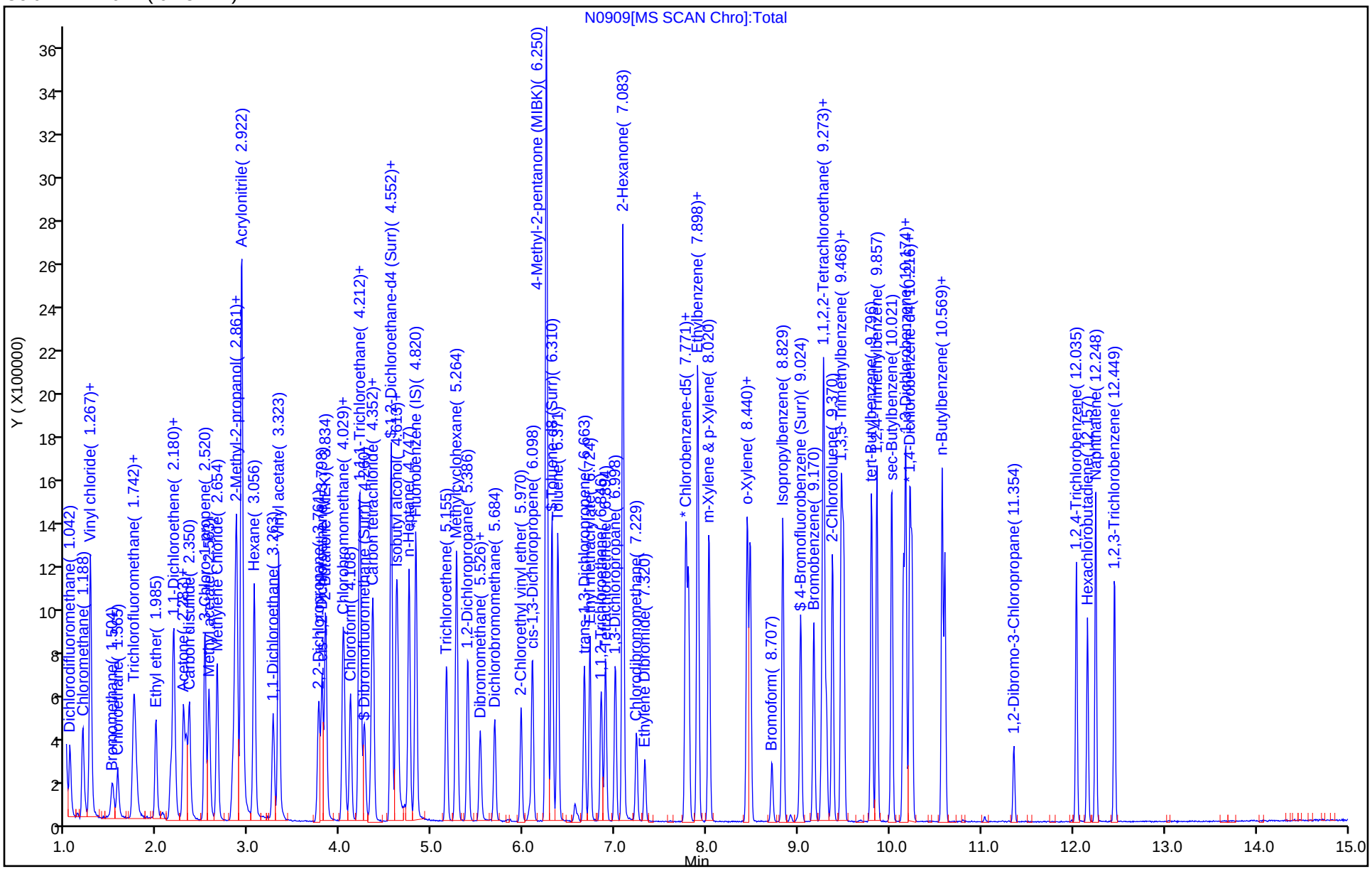
Report Date: 25-Oct-2024 11:16:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0909.d

Injection Date:	24-Oct-2024 17:11:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	ICIS 5			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

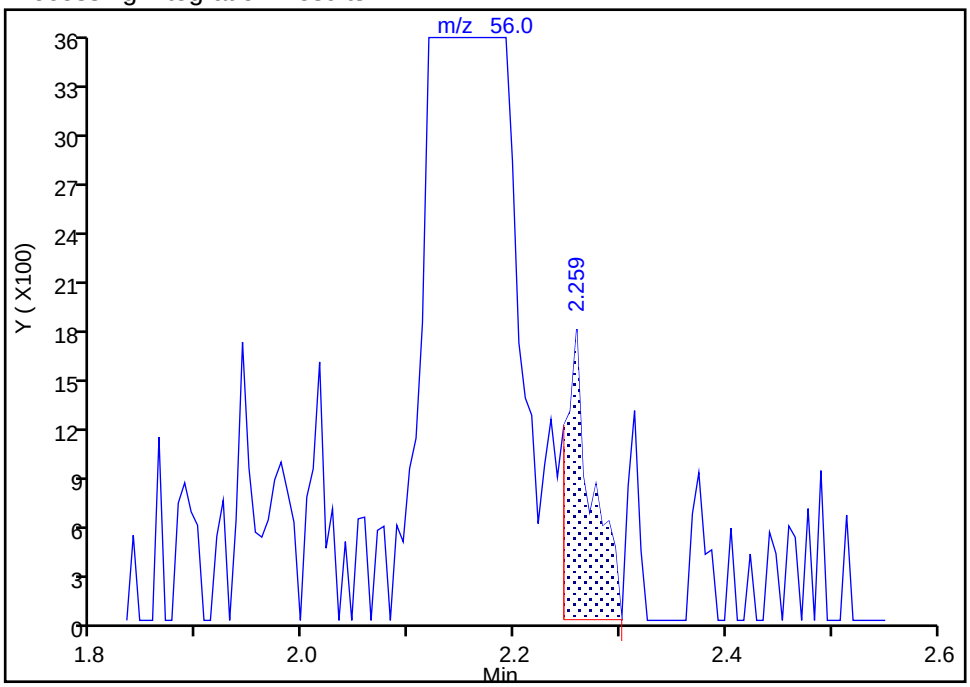
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0909.d
Injection Date: 24-Oct-2024 17:11:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH/AD ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

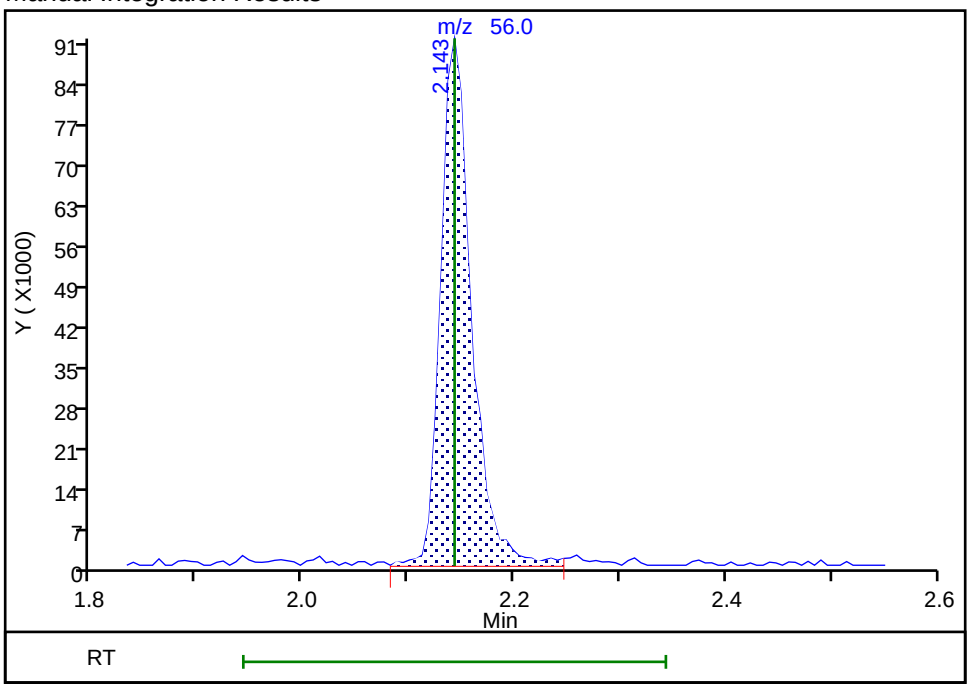
Processing Integration Results

RT: 2.26
Area: 2982
Amount: 10.097173
Amount Units: ug/L



Manual Integration Results

RT: 2.14
Area: 184490
Amount: 118.7323
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:11:17 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Buffalo

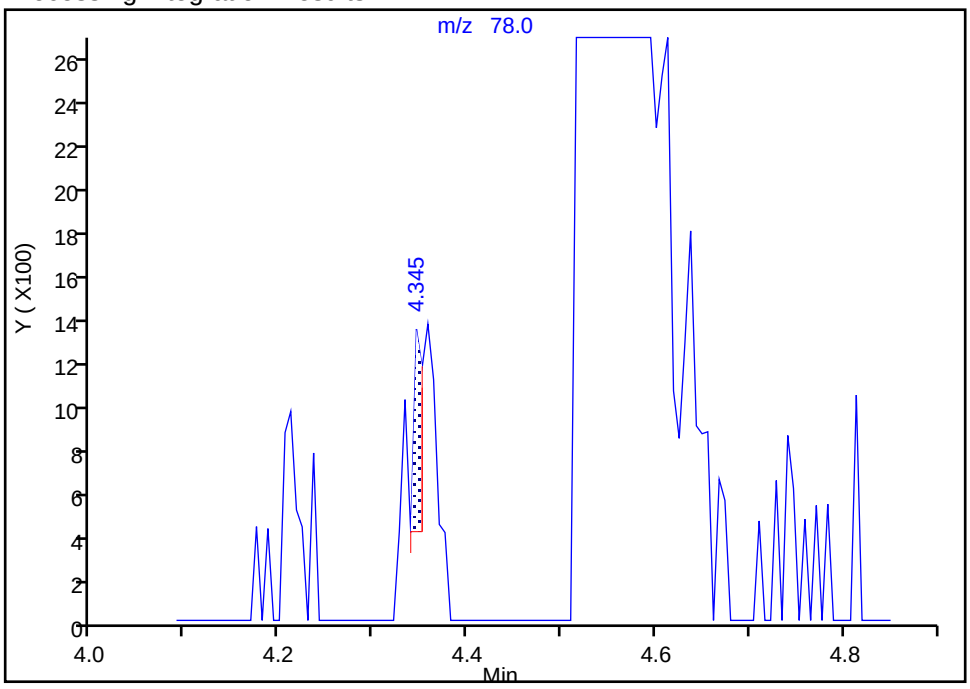
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0909.d
Injection Date: 24-Oct-2024 17:11:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH/AD ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

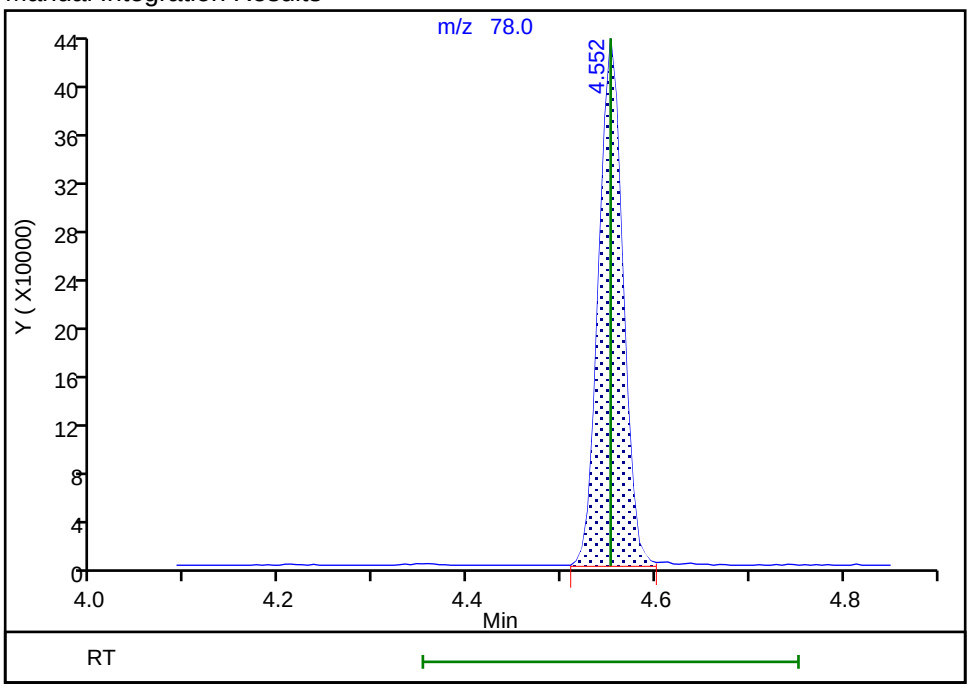
Processing Integration Results

RT: 4.35
Area: 615
Amount: 8.376731
Amount Units: ug/L



Manual Integration Results

RT: 4.55
Area: 776339
Amount: 25.815551
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:11:40 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Buffalo

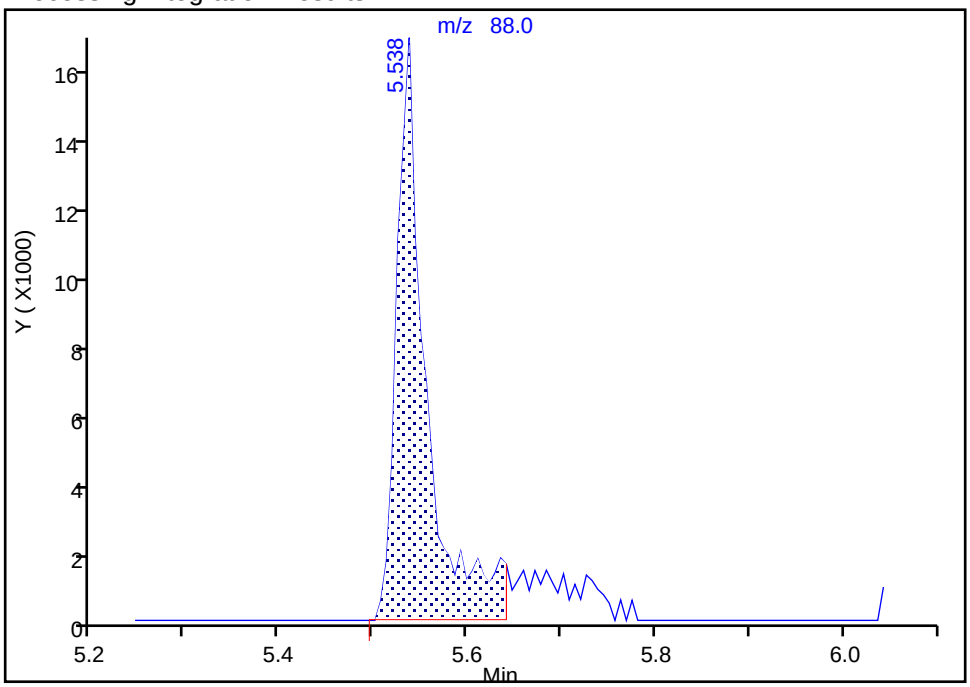
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0909.d
Injection Date: 24-Oct-2024 17:11:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH/AD ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

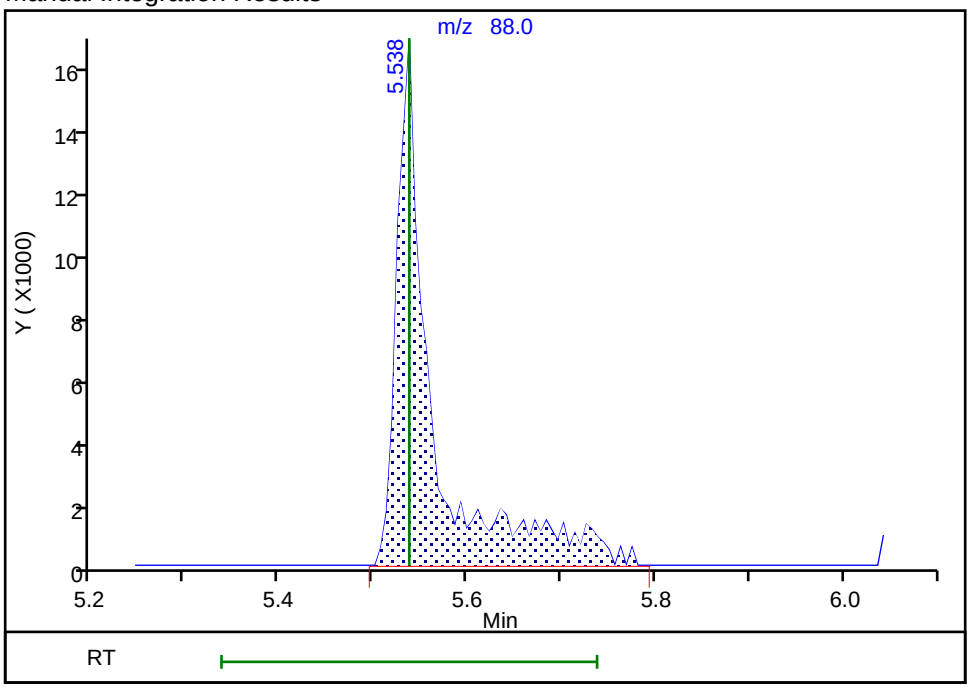
Processing Integration Results

RT: 5.54
Area: 36407
Amount: 522.6028
Amount Units: ug/L



Manual Integration Results

RT: 5.54
Area: 43482
Amount: 586.1864
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:12:27 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

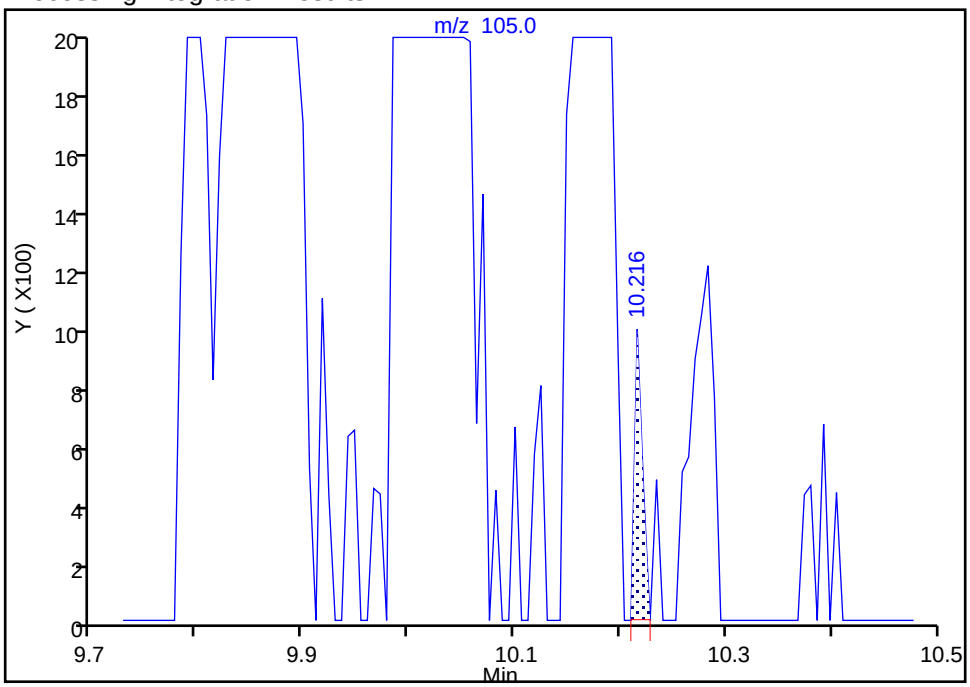
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0909.d
Injection Date: 24-Oct-2024 17:11:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH/AD ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

109 sec-Butylbenzene, CAS: 135-98-8

Signal: 1

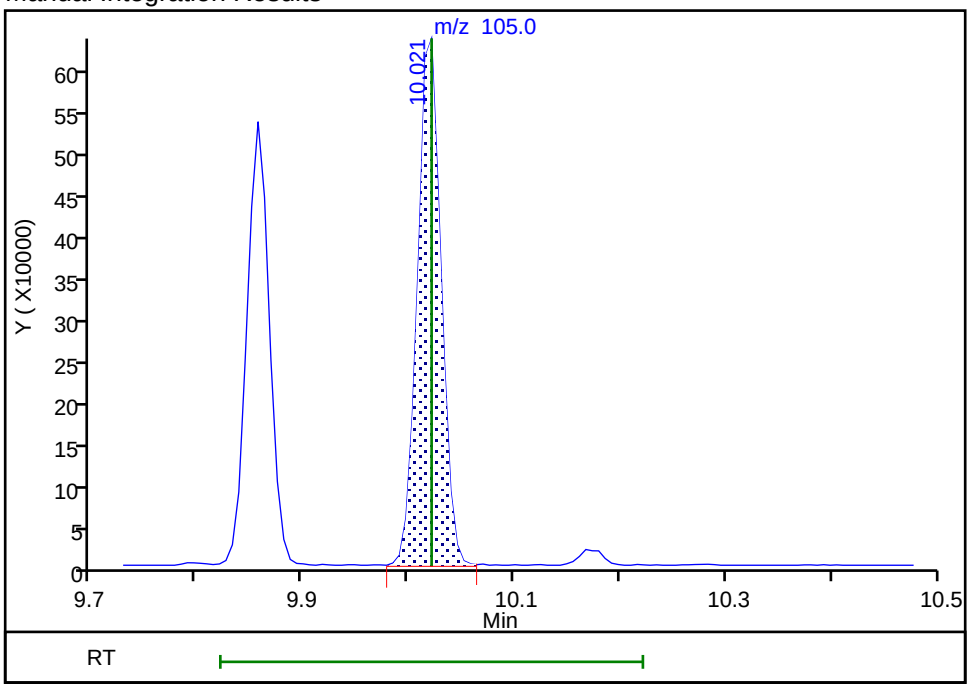
Processing Integration Results

RT: 10.22
Area: 523
Amount: 0.534926
Amount Units: ug/L



Manual Integration Results

RT: 10.02
Area: 992582
Amount: 27.013731
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:13:24 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0910.d
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 24-Oct-2024 17:34:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0120783-019
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:53 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:30:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	96	193930	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.770	7.771	0.000	91	683861	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	345141	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	217189	25.0	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	55	319857	25.0	24.4	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	95	786930	25.0	25.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	86	244279	25.0	24.7	
11 Dichlorodifluoromethane	85	1.042	1.042	0.000	98	488483	50.0	51.1	
13 Chloromethane	50	1.182	1.182	0.000	100	962289	50.0	49.0	
14 Vinyl chloride	62	1.261	1.255	0.006	97	526230	50.0	50.8	
144 Butadiene	54	1.267	1.267	0.000	95	831712	50.0	50.2	
15 Bromomethane	94	1.510	1.504	0.006	92	272920	50.0	46.4	
16 Chloroethane	64	1.565	1.565	0.000	94	327123	50.0	45.0	
17 Dichlorofluoromethane	67	1.748	1.742	0.006	96	784330	50.0	47.3	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	68	652357	50.0	50.8	
19 Ethyl ether	59	1.985	1.985	0.000	89	499893	50.0	47.3	
20 Acrolein	56	2.143	2.143	0.000	99	357947	250.0	221.1	M
22 1,1-Dichloroethene	96	2.180	2.174	0.006	91	333346	50.0	50.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	55	358744	50.0	52.8	
23 Acetone	43	2.283	2.283	0.000	97	1540528	250.0	219.0	
24 Iodomethane	142	2.320	2.314	0.006	100	629877	50.0	50.4	
25 Carbon disulfide	76	2.350	2.350	0.000	98	1221153	50.0	51.0	
27 3-Chloro-1-propene	41	2.520	2.514	0.006	88	1341274	50.0	48.1	
28 Methyl acetate	43	2.563	2.563	0.000	99	1700632	100.0	90.3	
30 Methylene Chloride	84	2.654	2.654	0.000	87	396030	50.0	49.3	
31 2-Methyl-2-propanol	59	2.825	2.825	0.000	99	776030	500.0	430.1	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	92	1377010	50.0	48.0	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	88	395525	50.0	49.5	
34 Acrylonitrile	53	2.922	2.922	0.000	98	4089079	500.0	473.5	
35 Hexane	57	3.056	3.056	0.000	95	962042	50.0	53.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	920482	50.0	49.6	
39 Vinyl acetate	43	3.323	3.323	0.000	96	3724054	100.0	101.8	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	85	565646	50.0	50.8	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	86	440470	50.0	50.2	
44 2-Butanone (MEK)	43	3.834	3.834	0.000	96	2638672	250.0	229.6	
47 Chlorobromomethane	128	4.029	4.029	0.000	83	220813	50.0	50.8	
49 Tetrahydrofuran	42	4.035	4.041	-0.006	92	730520	100.0	87.0	
50 Chloroform	83	4.108	4.108	0.000	93	697554	50.0	46.5	
51 1,1,1-Trichloroethane	97	4.205	4.206	-0.001	95	624110	50.0	50.6	
52 Cyclohexane	56	4.212	4.212	0.000	92	1191716	50.0	52.0	
53 Carbon tetrachloride	117	4.339	4.339	0.000	94	611598	50.0	53.1	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	84	557140	50.0	53.2	
55 Benzene	78	4.552	4.552	0.000	90	1554209	50.0	49.6	
56 Isobutyl alcohol	43	4.607	4.607	0.000	95	1205375	1250.0	1179.5	
57 1,2-Dichloroethane	62	4.619	4.619	0.000	94	770684	50.0	47.8	
59 n-Heptane	43	4.747	4.747	0.000	95	1190100	50.0	51.6	
60 Trichloroethene	95	5.155	5.155	0.000	93	399961	50.0	49.5	
62 Methylcyclohexane	83	5.264	5.264	0.000	92	705179	50.0	53.5	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	88	507625	50.0	51.1	
64 Dibromomethane	93	5.526	5.526	0.000	94	262484	50.0	46.0	
66 1,4-Dioxane	88	5.532	5.538	-0.006	90	80075	1000.0	1018.1	M
67 Dichlorobromomethane	83	5.684	5.684	0.000	95	512121	50.0	52.6	
69 2-Chloroethyl vinyl ether	63	5.970	5.970	0.000	83	360414	50.0	52.1	
71 cis-1,3-Dichloropropene	75	6.097	6.098	-0.001	82	667988	50.0	51.8	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	96	1797400	250.0	238.9	
73 Toluene	92	6.371	6.371	0.000	97	962946	50.0	51.6	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	90	607974	50.0	52.3	
77 Ethyl methacrylate	69	6.724	6.724	0.000	85	574397	50.0	49.5	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	93	292554	50.0	50.3	
79 Tetrachloroethene	166	6.894	6.894	0.000	93	413702	50.0	52.9	
80 1,3-Dichloropropane	76	6.998	6.998	0.000	86	586951	50.0	49.0	
82 2-Hexanone	43	7.083	7.083	0.000	97	3983242	250.0	236.4	
83 Chlorodibromomethane	129	7.235	7.229	0.006	89	401023	50.0	52.4	
84 Ethylene Dibromide	107	7.320	7.320	0.000	99	383415	50.0	50.0	
85 Chlorobenzene	112	7.801	7.801	0.000	90	1057529	50.0	51.8	
88 Ethylbenzene	91	7.898	7.898	0.000	98	1844552	50.0	51.9	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	94	414133	50.0	52.9	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	97	728897	50.0	52.0	
91 o-Xylene	106	8.440	8.440	0.000	98	739181	50.0	52.7	
92 Styrene	104	8.476	8.476	0.000	92	1174737	50.0	51.4	
93 Bromoform	173	8.707	8.707	0.000	96	277249	50.0	55.4	
95 Isopropylbenzene	105	8.829	8.829	0.000	97	1761960	50.0	51.5	
97 Bromobenzene	156	9.170	9.170	0.000	89	449970	50.0	51.0	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.261	-0.006	94	537624	50.0	49.1	
100 N-Propylbenzene	91	9.273	9.273	0.000	99	2153985	50.0	53.0	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	89	172687	50.0	46.6	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	81	308530	50.0	52.6	
102 2-Chlorotoluene	126	9.377	9.377	0.000	96	433827	50.0	51.0	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	94	1640902	50.0	54.6	
105 4-Chlorotoluene	91	9.492	9.492	0.000	98	1501538	50.0	51.5	
106 tert-Butylbenzene	134	9.796	9.796	0.000	96	352003	50.0	54.9	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	1648316	50.0	51.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.021	10.021	0.000	95	2049587	50.0	53.9	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	97	841390	50.0	51.6	
111 4-Isopropyltoluene	119	10.173	10.174	-0.001	98	1829741	50.0	53.8	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	91	852155	50.0	50.8	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	1554916	50.0	53.2	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	96	843927	50.0	51.1	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	78	129051	50.0	53.5	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	614881	50.0	51.8	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	95	301347	50.0	50.9	
121 Naphthalene	128	12.248	12.248	0.000	97	1821995	50.0	49.5	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	95	567826	50.0	49.2	
S 123 1,3-Dichloropropene, Total	1				0			104.1	
S 124 1,2-Dichloroethene, Total	1				0			99.7	
S 125 Total BTEX	1				0			257.7	
S 126 Xylenes, Total	1				0			104.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00260	Amount Added:	25.00	Units: uL	
GAS CORP mix_00646	Amount Added:	25.00	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

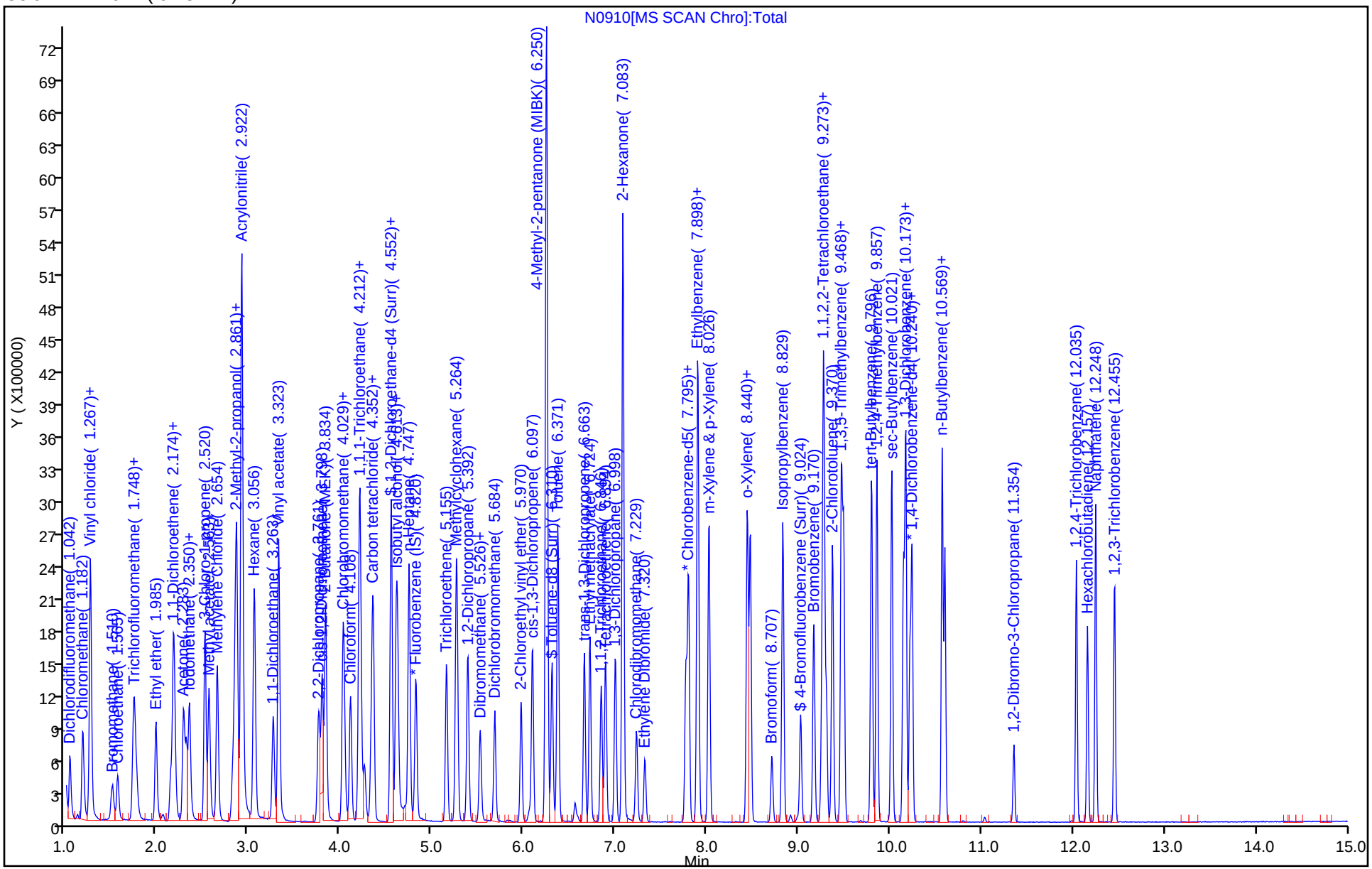
Report Date: 25-Oct-2024 11:16:55 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0910.d

Injection Date:	24-Oct-2024 17:34:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC 6			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

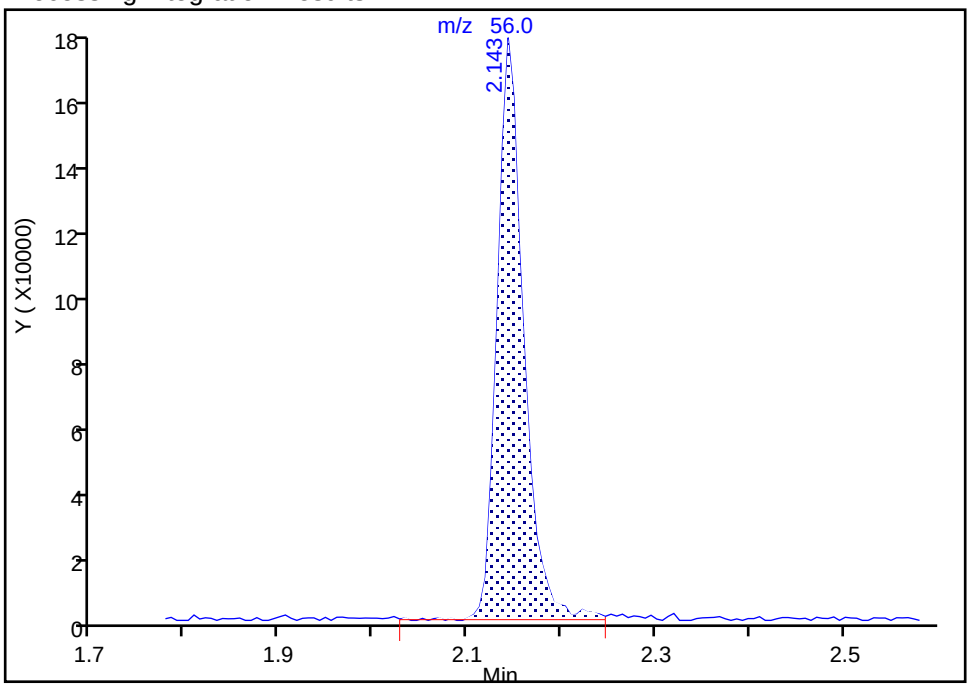
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0910.d
Injection Date: 24-Oct-2024 17:34:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH/AD ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

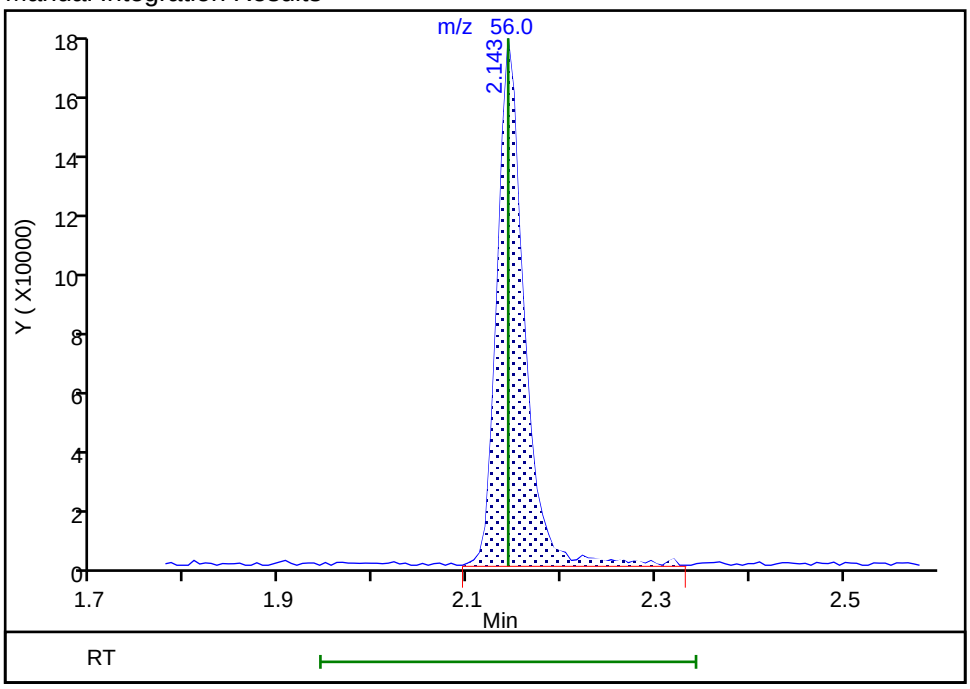
Processing Integration Results

RT: 2.14
Area: 353994
Amount: 218.9224
Amount Units: ug/L



Manual Integration Results

RT: 2.14
Area: 357947
Amount: 221.0582
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:35:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

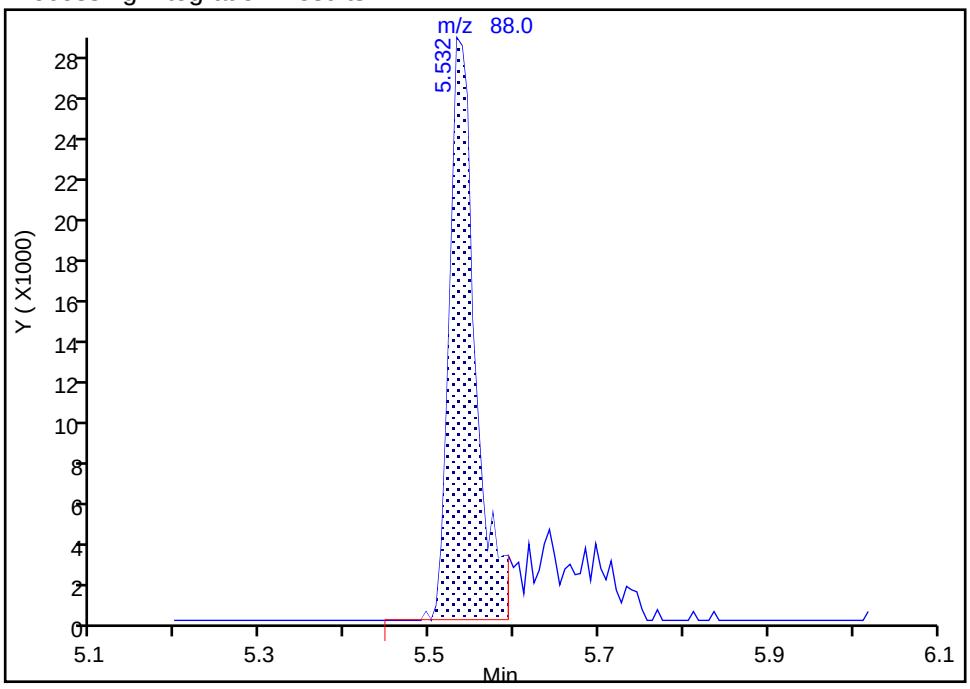
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0910.d
Injection Date: 24-Oct-2024 17:34:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH/AD ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

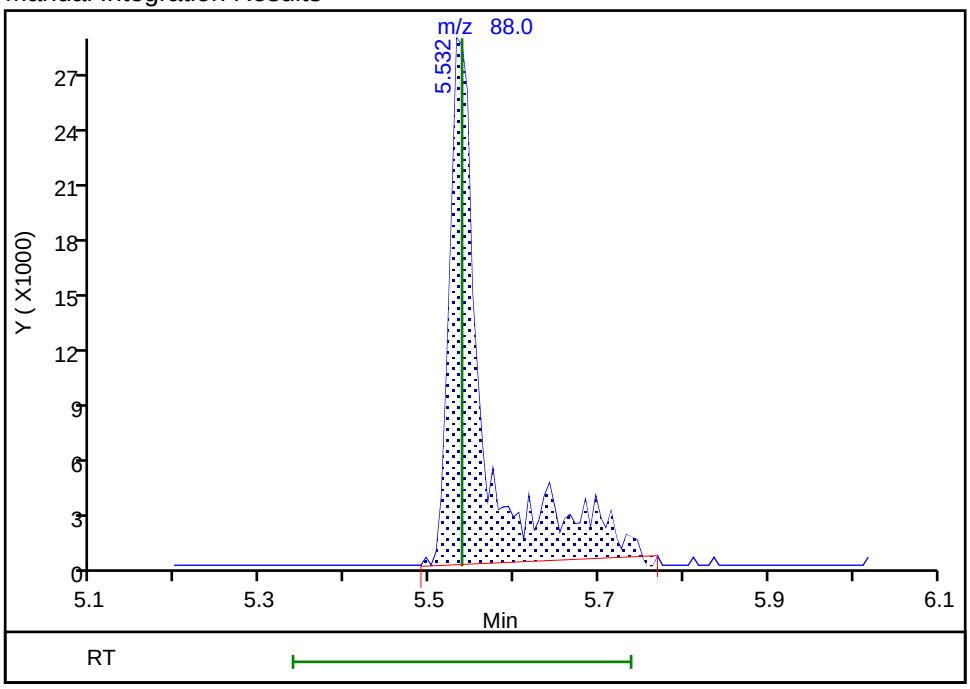
Processing Integration Results

RT: 5.53
Area: 61532
Amount: 958.7400
Amount Units: ug/L



Manual Integration Results

RT: 5.53
Area: 80075
Amount: 1018.0583
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:30:16 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0911.d
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 24-Oct-2024 17:56:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0120783-020
Operator ID: LH/AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:16:59 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 24-Oct-2024 18:32:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	192925	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.001	89	683407	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	94	353770	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	216413	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	48	327568	25.0	25.1	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	95	794383	25.0	25.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.030	9.030	0.000	91	253835	25.0	25.7	
11 Dichlorodifluoromethane	85	1.048	1.042	0.006	98	903763	100.0	95.1	
13 Chloromethane	50	1.182	1.182	0.000	99	1913196	100.0	97.9	
14 Vinyl chloride	62	1.255	1.255	0.000	98	1022288	100.0	99.1	
144 Butadiene	54	1.267	1.267	0.000	94	1593481	100.0	96.6	
15 Bromomethane	94	1.511	1.504	0.007	92	532093	100.0	90.9	
16 Chloroethane	64	1.565	1.565	0.000	94	641496	100.0	88.7	
17 Dichlorofluoromethane	67	1.748	1.742	0.006	95	1518252	100.0	92.0	
18 Trichlorofluoromethane	101	1.748	1.742	0.006	66	1243999	100.0	97.4	
19 Ethyl ether	59	1.985	1.985	0.000	91	1030037	100.0	98.0	
20 Acrolein	56	2.143	2.143	0.000	98	743794	500.0	461.7	
22 1,1-Dichloroethene	96	2.174	2.174	0.000	89	628725	100.0	95.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	95	650169	100.0	96.3	
23 Acetone	43	2.283	2.283	0.000	97	3081995	500.0	440.4	
24 Iodomethane	142	2.320	2.314	0.006	99	1248048	100.0	100.3	
25 Carbon disulfide	76	2.350	2.350	0.000	98	2305151	100.0	96.8	
27 3-Chloro-1-propene	41	2.520	2.514	0.006	87	2628995	100.0	94.8	
28 Methyl acetate	43	2.563	2.563	0.000	99	3451168	200.0	184.3	
30 Methylene Chloride	84	2.654	2.654	0.000	87	786705	100.0	98.6	
31 2-Methyl-2-propanol	59	2.825	2.825	0.000	98	1810451	1000.0	1008.6	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	93	2791657	100.0	97.7	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	89	783924	100.0	98.5	
34 Acrylonitrile	53	2.922	2.922	0.000	98	8269562	1000.0	962.6	
35 Hexane	57	3.056	3.056	0.000	95	1749657	100.0	98.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	1868833	100.0	101.3	
39 Vinyl acetate	43	3.323	3.323	0.000	96	7606066	200.0	209.0	
42 2,2-Dichloropropane	77	3.762	3.761	0.001	85	1064188	100.0	96.1	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	86	844506	100.0	96.8	
44 2-Butanone (MEK)	43	3.835	3.834	0.000	95	5380853	500.0	470.7	
47 Chlorobromomethane	128	4.023	4.029	-0.006	82	445906	100.0	103.2	
49 Tetrahydrofuran	42	4.035	4.041	-0.006	92	1475644	200.0	176.6	
50 Chloroform	83	4.108	4.108	0.000	93	1395356	100.0	93.6	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	95	1245700	100.0	101.6	
52 Cyclohexane	56	4.212	4.212	0.000	93	2259065	100.0	99.0	
53 Carbon tetrachloride	117	4.339	4.339	0.000	95	1180134	100.0	103.0	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	83	1050394	100.0	100.8	
55 Benzene	78	4.552	4.552	0.000	92	3097127	100.0	99.3	
56 Isobutyl alcohol	43	4.607	4.607	0.000	95	2508225	2500.0	2467.1	
57 1,2-Dichloroethane	62	4.625	4.619	0.006	94	1567767	100.0	97.8	
59 n-Heptane	43	4.747	4.747	0.000	94	2143788	100.0	93.4	
60 Trichloroethene	95	5.155	5.155	0.000	93	802329	100.0	99.8	
62 Methylcyclohexane	83	5.264	5.264	0.000	91	1329501	100.0	101.5	
63 1,2-Dichloropropane	63	5.386	5.392	-0.006	87	990874	100.0	100.2	
64 Dibromomethane	93	5.526	5.526	0.000	96	528308	100.0	93.1	
66 1,4-Dioxane	88	5.532	5.538	-0.006	28	165143	2000.0	2101.0	M
67 Dichlorobromomethane	83	5.684	5.684	0.000	93	1038383	100.0	107.3	
69 2-Chloroethyl vinyl ether	63	5.970	5.970	0.000	83	712216	100.0	103.6	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	82	1333909	100.0	103.9	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	96	3613599	500.0	480.6	
73 Toluene	92	6.371	6.371	0.000	96	1941330	100.0	104.1	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	91	1264234	100.0	108.8	
77 Ethyl methacrylate	69	6.724	6.724	0.000	86	1203486	100.0	103.9	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	94	582206	100.0	100.2	
79 Tetrachloroethene	166	6.895	6.894	0.001	94	784158	100.0	100.3	
80 1,3-Dichloropropane	76	7.004	6.998	0.006	88	1214069	100.0	101.4	
82 2-Hexanone	43	7.083	7.083	0.000	97	8062514	500.0	478.8	
83 Chlorodibromomethane	129	7.235	7.229	0.006	89	858364	100.0	112.2	
84 Ethylene Dibromide	107	7.326	7.320	0.006	99	782843	100.0	102.2	
85 Chlorobenzene	112	7.801	7.801	0.000	91	2129680	100.0	104.4	
88 Ethylbenzene	91	7.898	7.898	0.000	98	3659980	100.0	103.0	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	94	840227	100.0	107.5	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	98	1417186	100.0	101.2	
91 o-Xylene	106	8.440	8.440	0.000	98	1439285	100.0	102.7	
92 Styrene	104	8.476	8.476	0.000	93	2378101	100.0	104.2	
93 Bromoform	173	8.714	8.707	0.007	96	592065	100.0	118.5	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	3434984	100.0	98.0	
97 Bromobenzene	156	9.170	9.170	0.000	91	940341	100.0	103.9	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.261	-0.006	94	1049963	100.0	93.5	
100 N-Propylbenzene	91	9.273	9.273	0.000	99	4280804	100.0	102.8	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	88	349977	100.0	92.2	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	82	663989	100.0	110.4	
102 2-Chlorotoluene	126	9.371	9.377	-0.006	95	864334	100.0	99.2	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	94	3173148	100.0	102.9	
105 4-Chlorotoluene	91	9.492	9.492	0.000	98	2990117	100.0	100.1	
106 tert-Butylbenzene	134	9.802	9.796	0.006	96	674298	100.0	102.6	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	3273916	100.0	100.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.022	10.021	0.001	95	3943300	100.0	101.2	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	97	1722029	100.0	103.0	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	98	3521306	100.0	101.0	
113 1,4-Dichlorobenzene	146	10.241	10.240	0.000	93	1721961	100.0	100.1	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	2996787	100.0	100.1	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	97	1651055	100.0	97.5	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	79	272899	100.0	110.3	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	1192991	100.0	98.0	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	96	547369	100.0	90.2	
121 Naphthalene	128	12.248	12.248	0.000	97	3816424	100.0	101.2	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	95	1168002	100.0	98.7	
S 123 1,3-Dichloropropene, Total	1				0			212.7	
S 124 1,2-Dichloroethene, Total	1				0			195.3	
S 125 Total BTEX	1				0			510.2	
S 126 Xylenes, Total	1				0			203.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00260	Amount Added:	50.00	Units: uL	
GAS CORP mix_00646	Amount Added:	50.00	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

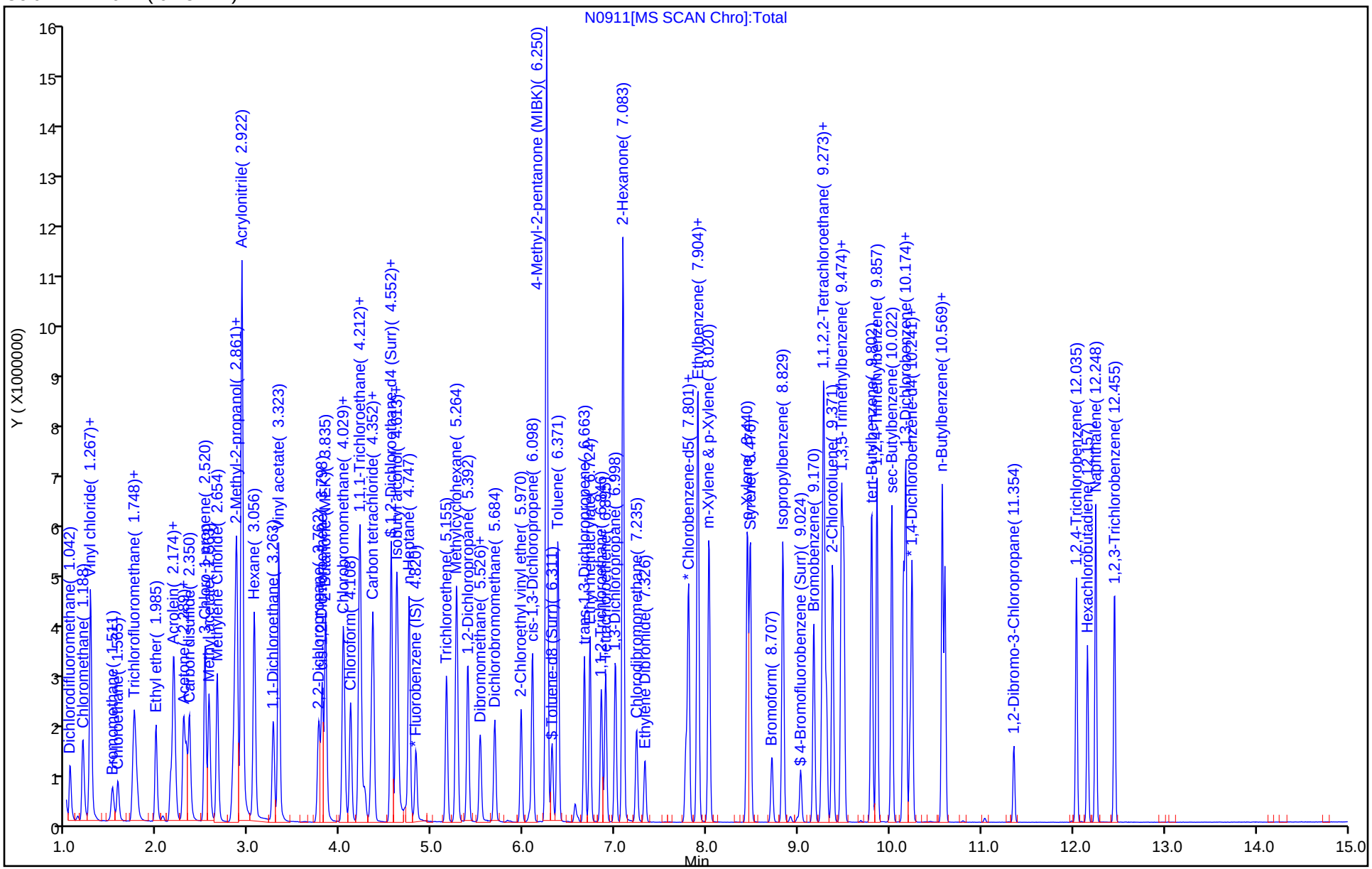
Report Date: 25-Oct-2024 11:17:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0911.d

Injection Date:	24-Oct-2024 17:56:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	IC 7			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

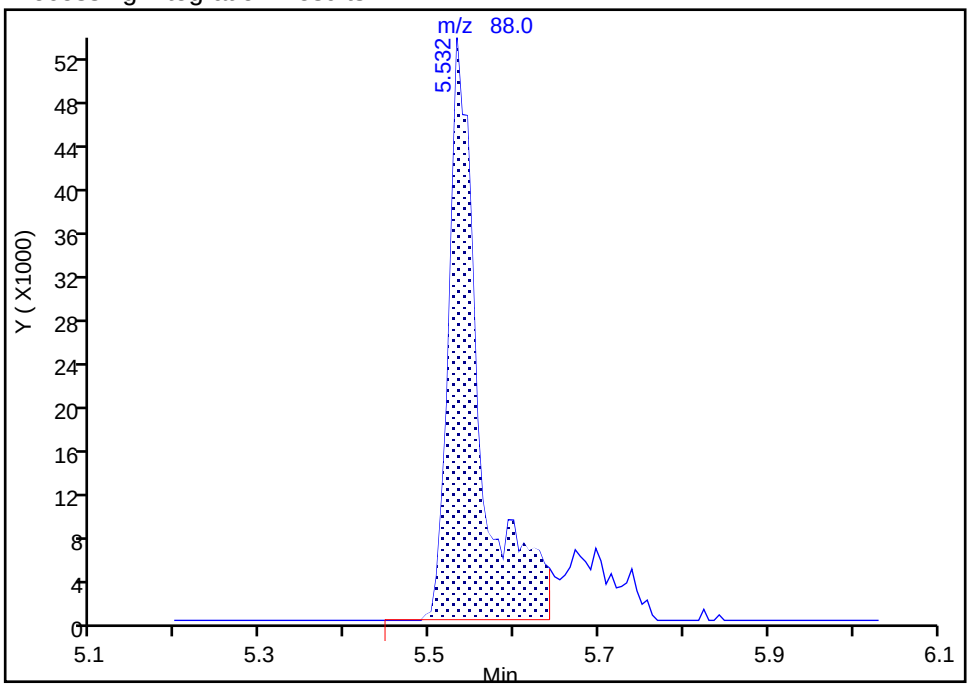
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0911.d
Injection Date: 24-Oct-2024 17:56:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: LH/AD ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

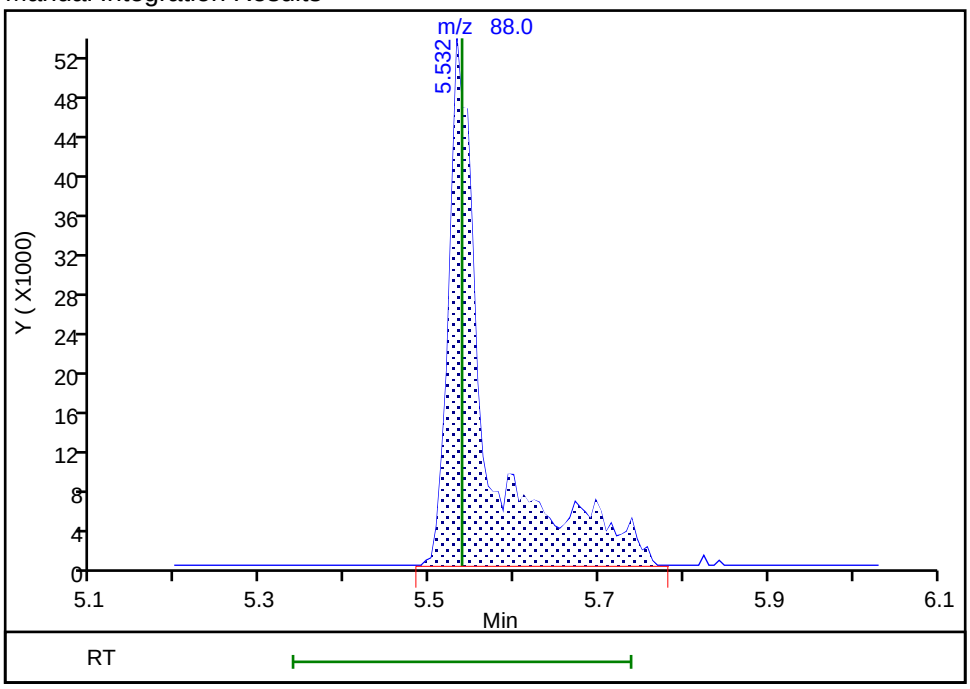
Processing Integration Results

RT: 5.53
Area: 136040
Amount: 2004.9681
Amount Units: ug/L



Manual Integration Results

RT: 5.53
Area: 165143
Amount: 2100.9915
Amount Units: ug/L



Reviewer: WLL8, 24-Oct-2024 18:31:20 -04:00:00 (UTC)
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

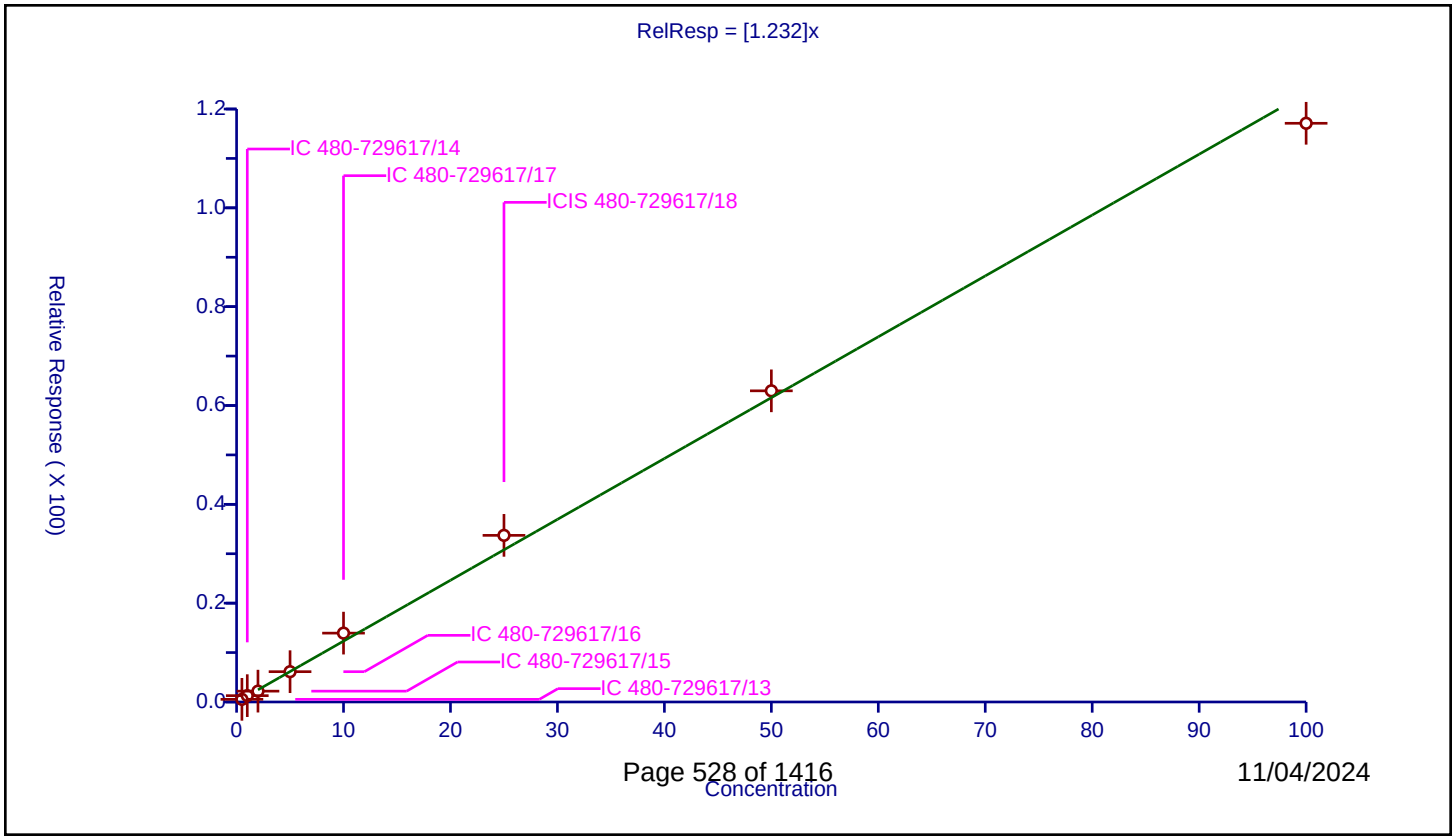
Curve Coefficients

Intercept:	0
Slope:	1.232

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.538499	25.0	183473.0	1.076998	Y
2	IC 480-729617/14	1.0	1.279525	25.0	190051.0	1.279525	Y
3	IC 480-729617/15	2.0	2.195634	25.0	182305.0	1.097817	Y
4	IC 480-729617/16	5.0	6.130946	25.0	187887.0	1.226189	Y
5	IC 480-729617/17	10.0	13.938912	25.0	172865.0	1.393891	Y
6	ICIS 480-729617/18	25.0	33.720768	25.0	186096.0	1.348831	Y
7	IC 480-729617/19	50.0	62.971562	25.0	193930.0	1.259431	Y
8	IC 480-729617/20	100.0	117.113256	25.0	192925.0	1.171133	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

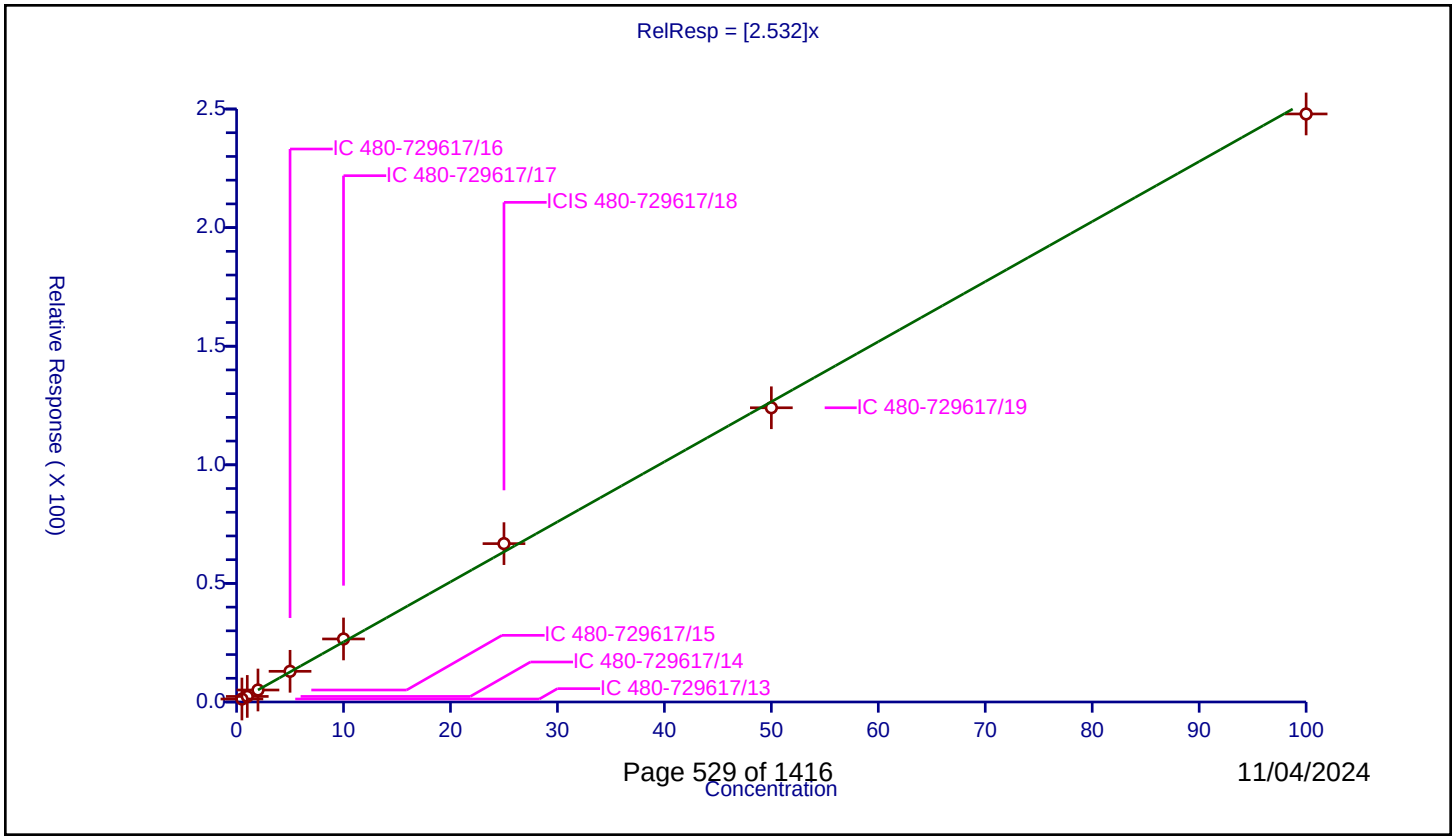
Curve Coefficients

Intercept:	0
Slope:	2.532

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.253182	25.0	183473.0	2.506363	Y
2	IC 480-729617/14	1.0	2.342398	25.0	190051.0	2.342398	Y
3	IC 480-729617/15	2.0	5.058967	25.0	182305.0	2.529484	Y
4	IC 480-729617/16	5.0	12.939559	25.0	187887.0	2.587912	Y
5	IC 480-729617/17	10.0	26.571747	25.0	172865.0	2.657175	Y
6	ICIS 480-729617/18	25.0	66.769033	25.0	186096.0	2.670761	Y
7	IC 480-729617/19	50.0	124.051075	25.0	193930.0	2.481022	Y
8	IC 480-729617/20	100.0	247.919658	25.0	192925.0	2.479197	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

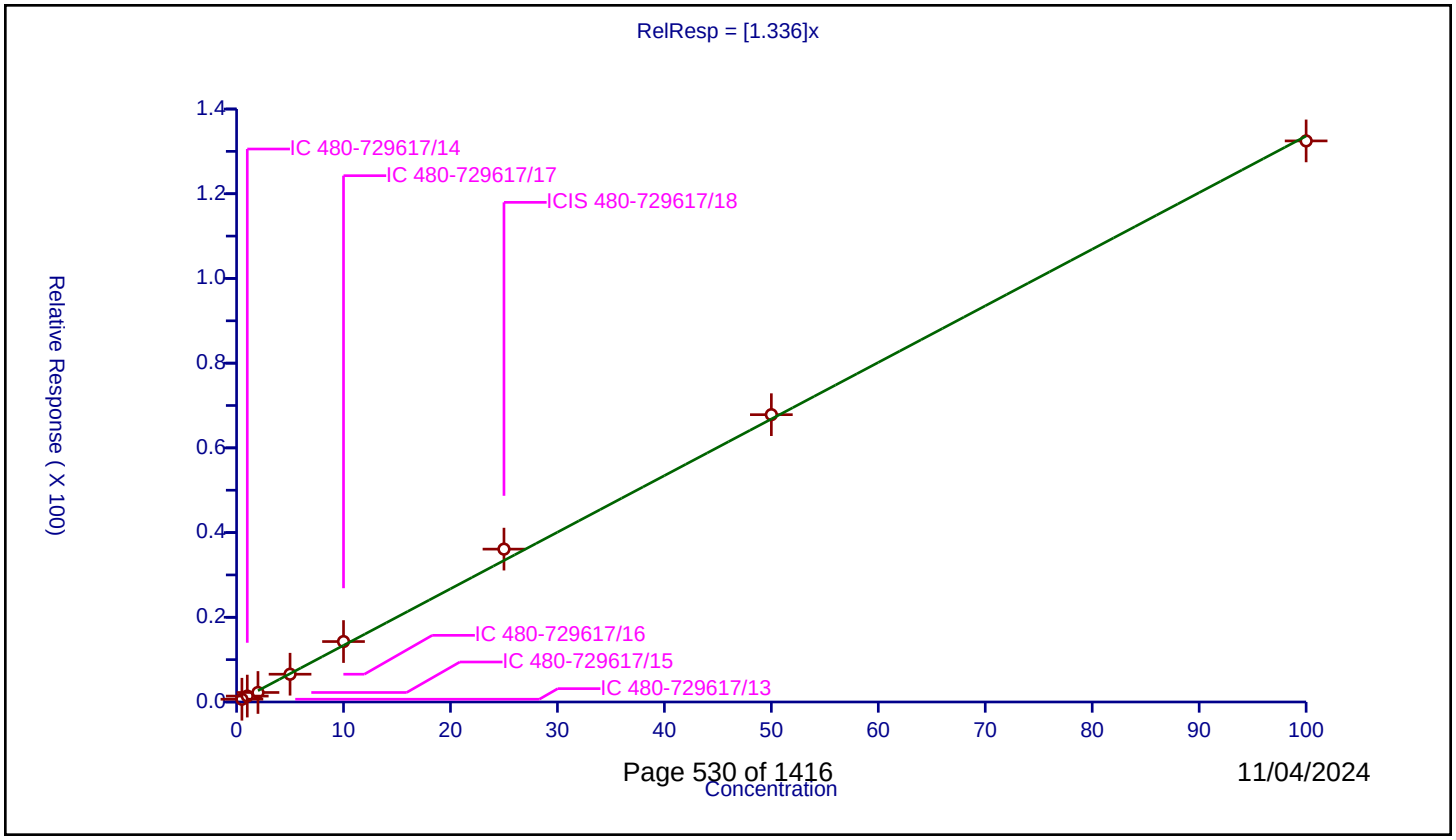
Curve Coefficients

Intercept:	0
Slope:	1.336

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.654592	25.0	183473.0	1.309184	Y
2	IC 480-729617/14	1.0	1.396336	25.0	190051.0	1.396336	Y
3	IC 480-729617/15	2.0	2.241847	25.0	182305.0	1.120924	Y
4	IC 480-729617/16	5.0	6.554472	25.0	187887.0	1.310894	Y
5	IC 480-729617/17	10.0	14.267926	25.0	172865.0	1.426793	Y
6	ICIS 480-729617/18	25.0	36.088632	25.0	186096.0	1.443545	Y
7	IC 480-729617/19	50.0	67.837622	25.0	193930.0	1.356752	Y
8	IC 480-729617/20	100.0	132.472204	25.0	192925.0	1.324722	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

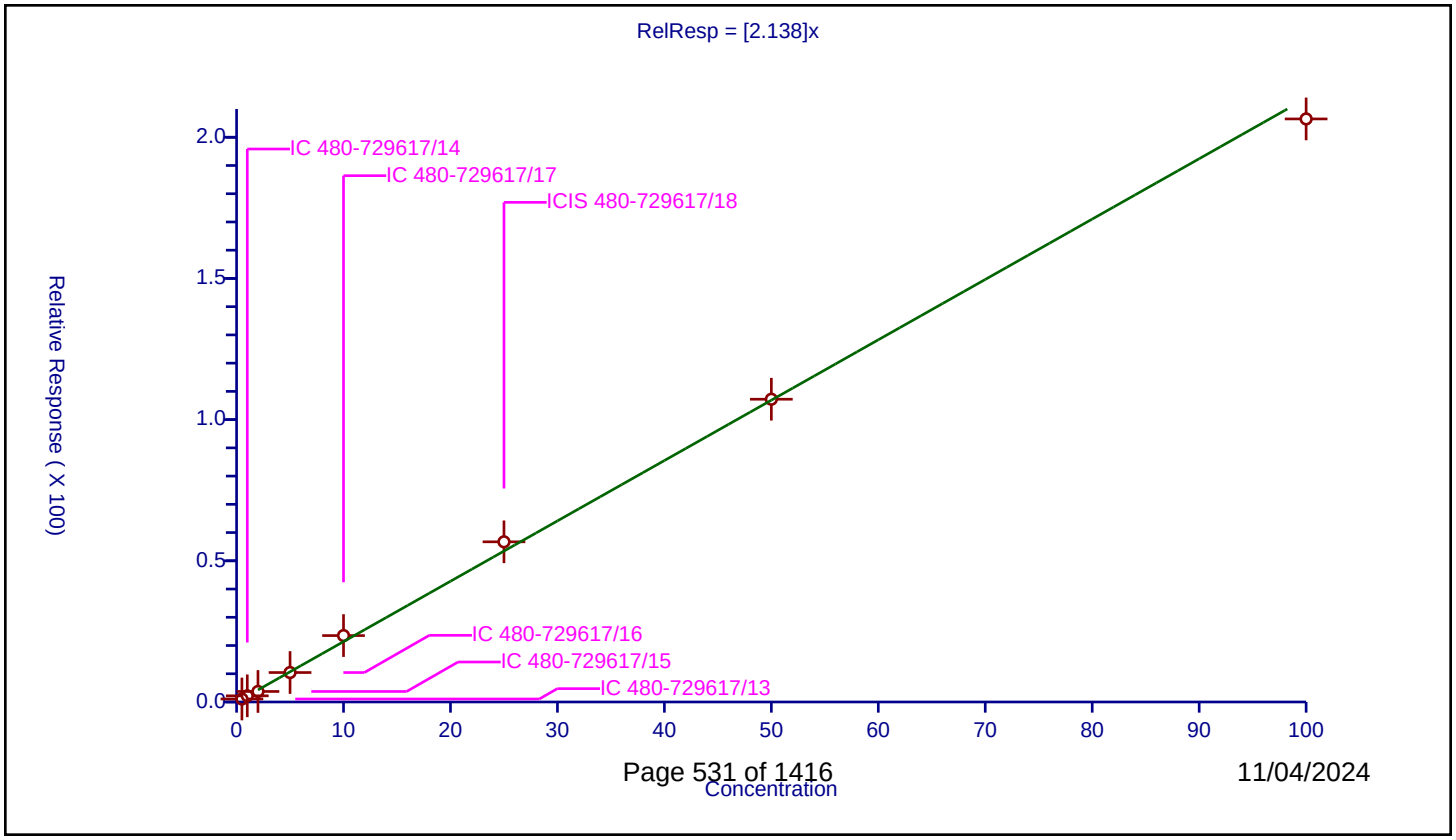
Curve Coefficients

Intercept:	0
Slope:	2.138

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.065143	25.0	183473.0	2.130286	Y
2	IC 480-729617/14	1.0	2.190596	25.0	190051.0	2.190596	Y
3	IC 480-729617/15	2.0	3.728779	25.0	182305.0	1.864389	Y
4	IC 480-729617/16	5.0	10.429407	25.0	187887.0	2.085881	Y
5	IC 480-729617/17	10.0	23.51922	25.0	172865.0	2.351922	Y
6	ICIS 480-729617/18	25.0	56.721531	25.0	186096.0	2.268861	Y
7	IC 480-729617/19	50.0	107.218068	25.0	193930.0	2.144361	Y
8	IC 480-729617/20	100.0	206.489698	25.0	192925.0	2.064897	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

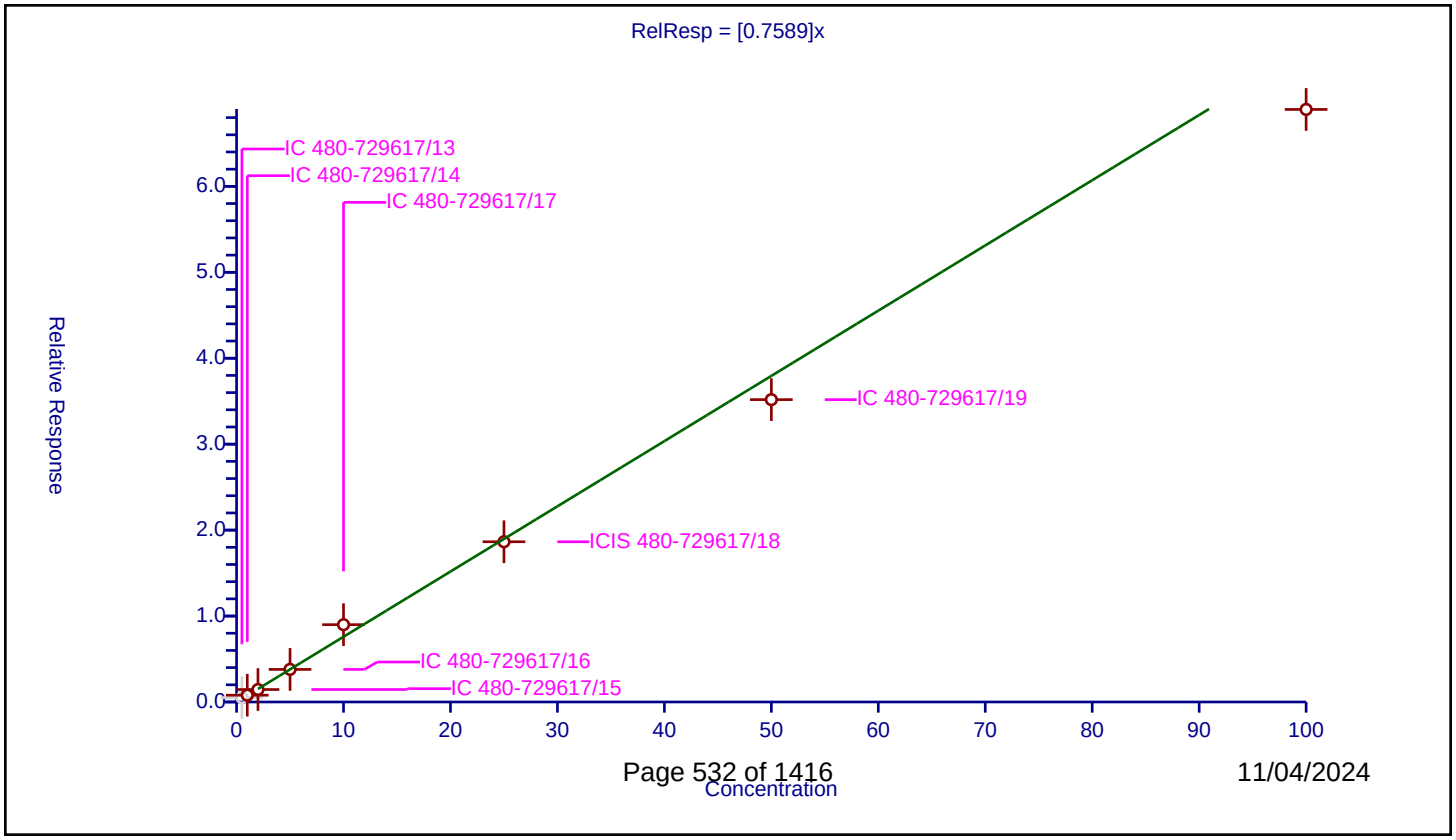
Curve Coefficients

Intercept:	0
Slope:	0.7589

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.513563	25.0	183473.0	1.027127	N
2	IC 480-729617/14	1.0	0.790577	25.0	190051.0	0.790577	Y
3	IC 480-729617/15	2.0	1.449905	25.0	182305.0	0.724953	Y
4	IC 480-729617/16	5.0	3.790709	25.0	187887.0	0.758142	Y
5	IC 480-729617/17	10.0	8.998062	25.0	172865.0	0.899806	Y
6	ICIS 480-729617/18	25.0	18.643335	25.0	186096.0	0.745733	Y
7	IC 480-729617/19	50.0	35.182798	25.0	193930.0	0.703656	Y
8	IC 480-729617/20	100.0	68.950758	25.0	192925.0	0.689508	Y



11/04/2024

Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

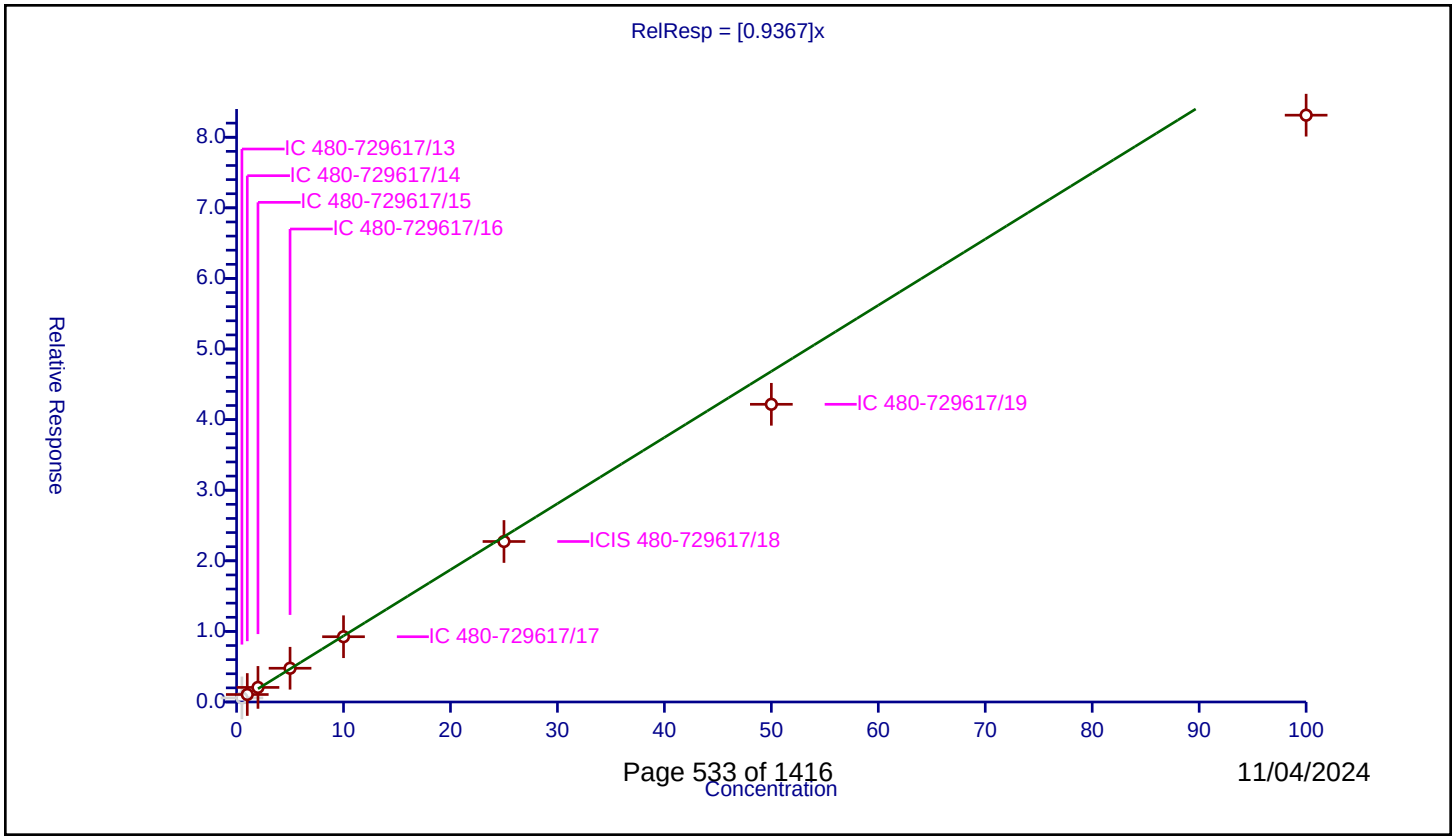
Curve Coefficients

Intercept:	0
Slope:	0.9367

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.580739	25.0	183473.0	1.161479	N
2	IC 480-729617/14	1.0	1.060242	25.0	190051.0	1.060242	Y
3	IC 480-729617/15	2.0	2.063712	25.0	182305.0	1.031856	Y
4	IC 480-729617/16	5.0	4.780267	25.0	187887.0	0.956053	Y
5	IC 480-729617/17	10.0	9.246522	25.0	172865.0	0.924652	Y
6	ICIS 480-729617/18	25.0	22.735309	25.0	186096.0	0.909412	Y
7	IC 480-729617/19	50.0	42.170242	25.0	193930.0	0.843405	Y
8	IC 480-729617/20	100.0	83.12764	25.0	192925.0	0.831276	Y



11/04/2024

Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

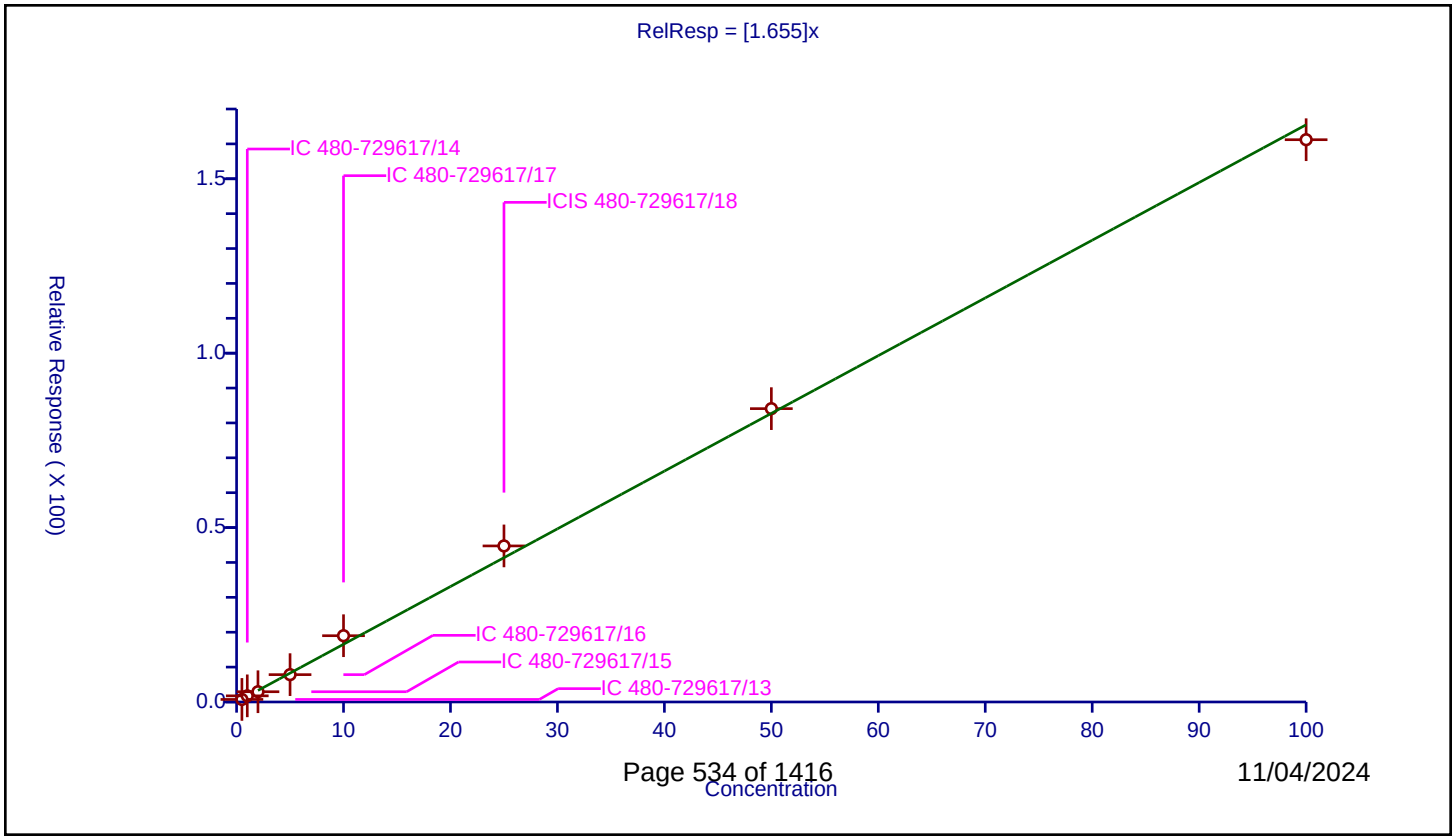
Curve Coefficients

Intercept:	0
Slope:	1.655

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.728581	25.0	183473.0	1.457163	Y
2	IC 480-729617/14	1.0	1.760317	25.0	190051.0	1.760317	Y
3	IC 480-729617/15	2.0	2.940128	25.0	182305.0	1.470064	Y
4	IC 480-729617/16	5.0	7.836625	25.0	187887.0	1.567325	Y
5	IC 480-729617/17	10.0	19.000955	25.0	172865.0	1.900095	Y
6	ICIS 480-729617/18	25.0	44.739006	25.0	186096.0	1.78956	Y
7	IC 480-729617/19	50.0	84.096968	25.0	193930.0	1.681939	Y
8	IC 480-729617/20	100.0	161.20241	25.0	192925.0	1.612024	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

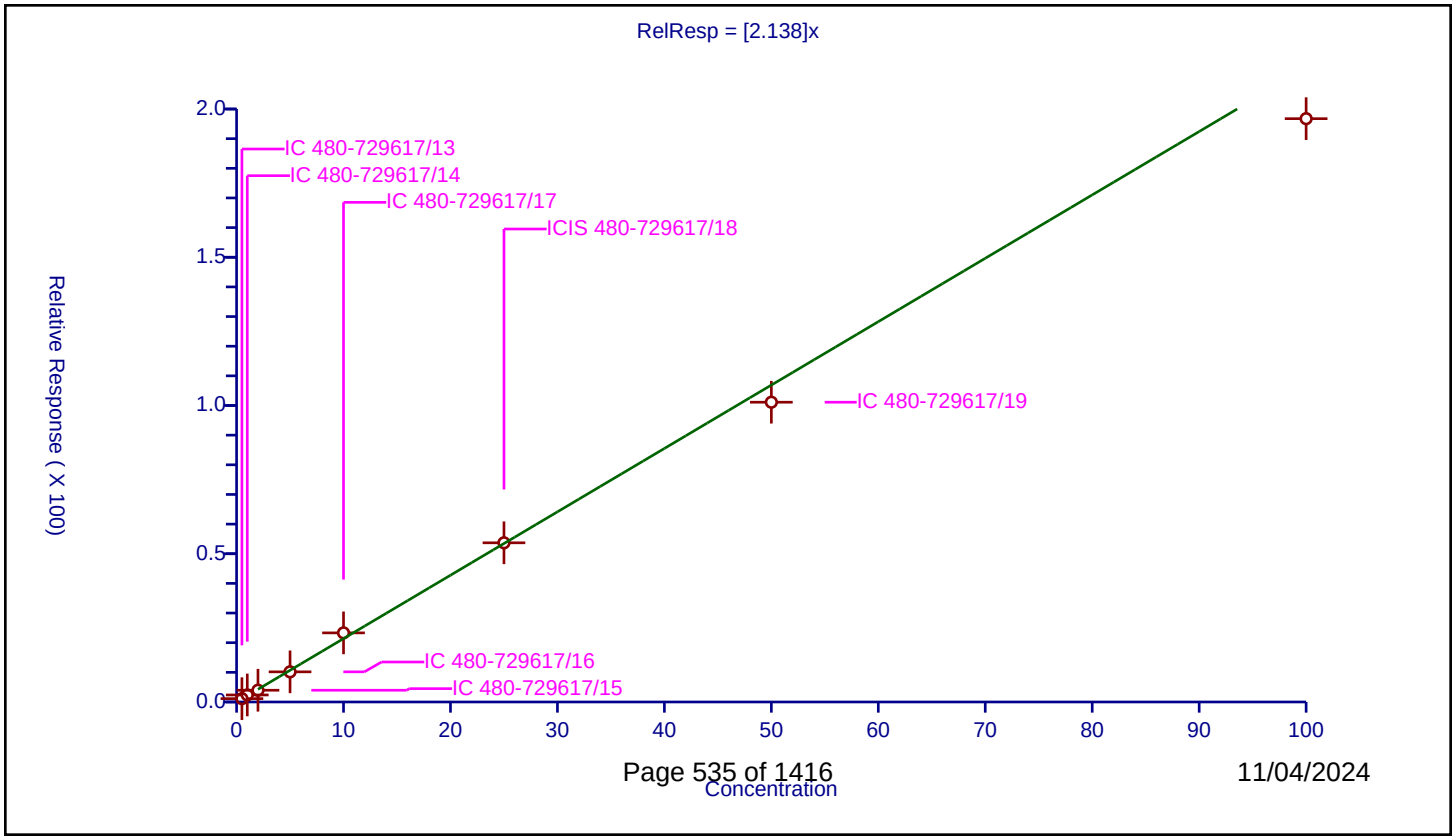
Curve Coefficients

Intercept:	0
Slope:	2.138

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.12428	25.0	183473.0	2.24856	Y
2	IC 480-729617/14	1.0	2.368706	25.0	190051.0	2.368706	Y
3	IC 480-729617/15	2.0	3.966156	25.0	182305.0	1.983078	Y
4	IC 480-729617/16	5.0	10.171539	25.0	187887.0	2.034308	Y
5	IC 480-729617/17	10.0	23.30706	25.0	172865.0	2.330706	Y
6	ICIS 480-729617/18	25.0	53.688956	25.0	186096.0	2.147558	Y
7	IC 480-729617/19	50.0	101.109937	25.0	193930.0	2.022199	Y
8	IC 480-729617/20	100.0	196.741221	25.0	192925.0	1.967412	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

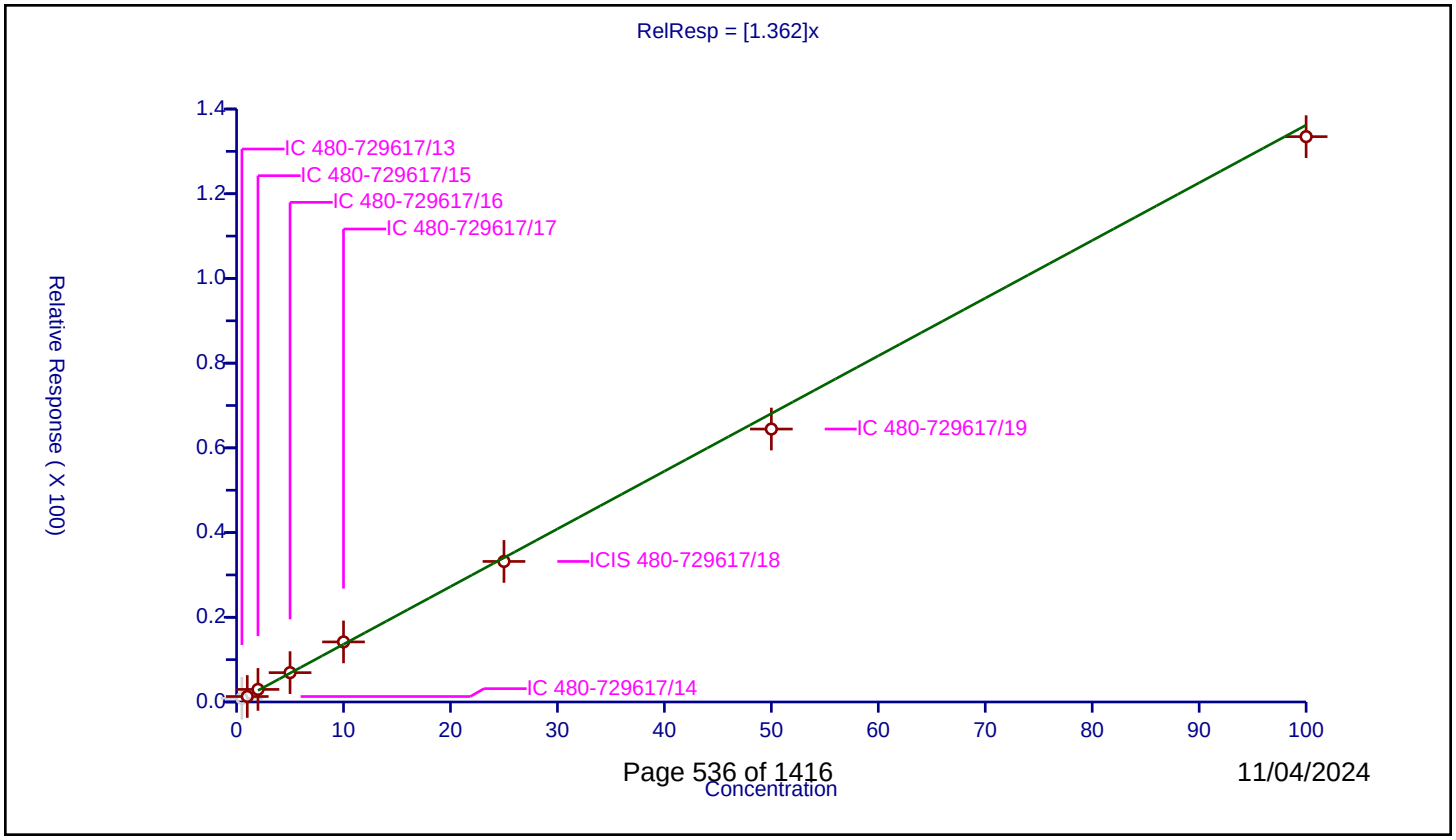
Curve Coefficients

Intercept:	0
Slope:	1.362

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.871382	25.0	183473.0	1.742763	N
2	IC 480-729617/14	1.0	1.296231	25.0	190051.0	1.296231	Y
3	IC 480-729617/15	2.0	2.966183	25.0	182305.0	1.483092	Y
4	IC 480-729617/16	5.0	6.930362	25.0	187887.0	1.386072	Y
5	IC 480-729617/17	10.0	14.178839	25.0	172865.0	1.417884	Y
6	ICIS 480-729617/18	25.0	33.18059	25.0	186096.0	1.327224	Y
7	IC 480-729617/19	50.0	64.442453	25.0	193930.0	1.288849	Y
8	IC 480-729617/20	100.0	133.476351	25.0	192925.0	1.334764	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

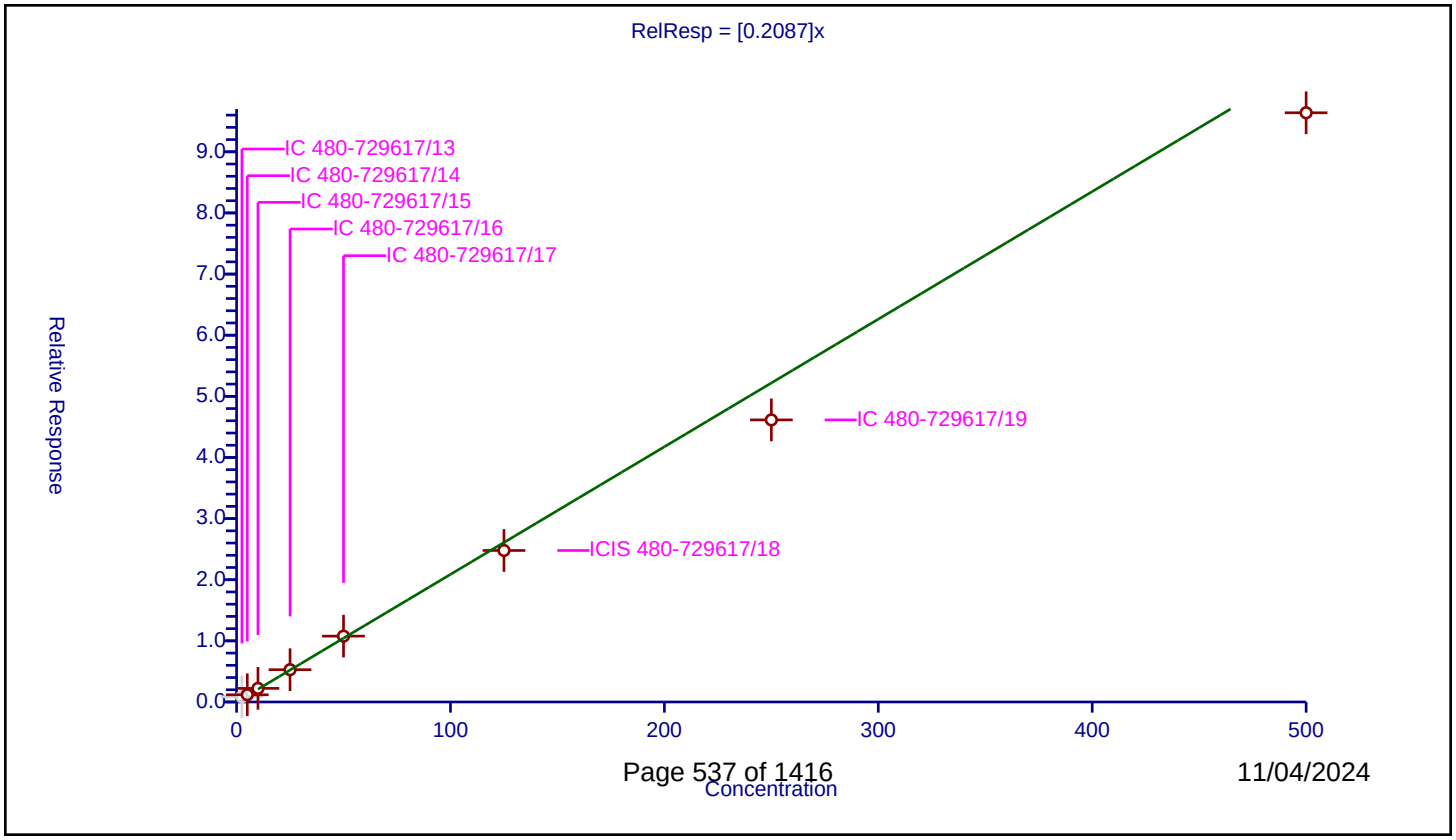
Curve Coefficients

Intercept:	0
Slope:	0.2087

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	2.5	0.859391	25.0	183473.0	0.343756	N
2	IC 480-729617/14	5.0	1.180999	25.0	190051.0	0.2362	Y
3	IC 480-729617/15	10.0	2.226763	25.0	182305.0	0.222676	Y
4	IC 480-729617/16	25.0	5.280568	25.0	187887.0	0.211223	Y
5	IC 480-729617/17	50.0	10.773436	25.0	172865.0	0.215469	Y
6	ICIS 480-729617/18	125.0	24.784251	25.0	186096.0	0.198274	Y
7	IC 480-729617/19	250.0	46.143841	25.0	193930.0	0.184575	Y
8	IC 480-729617/20	500.0	96.383828	25.0	192925.0	0.192768	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

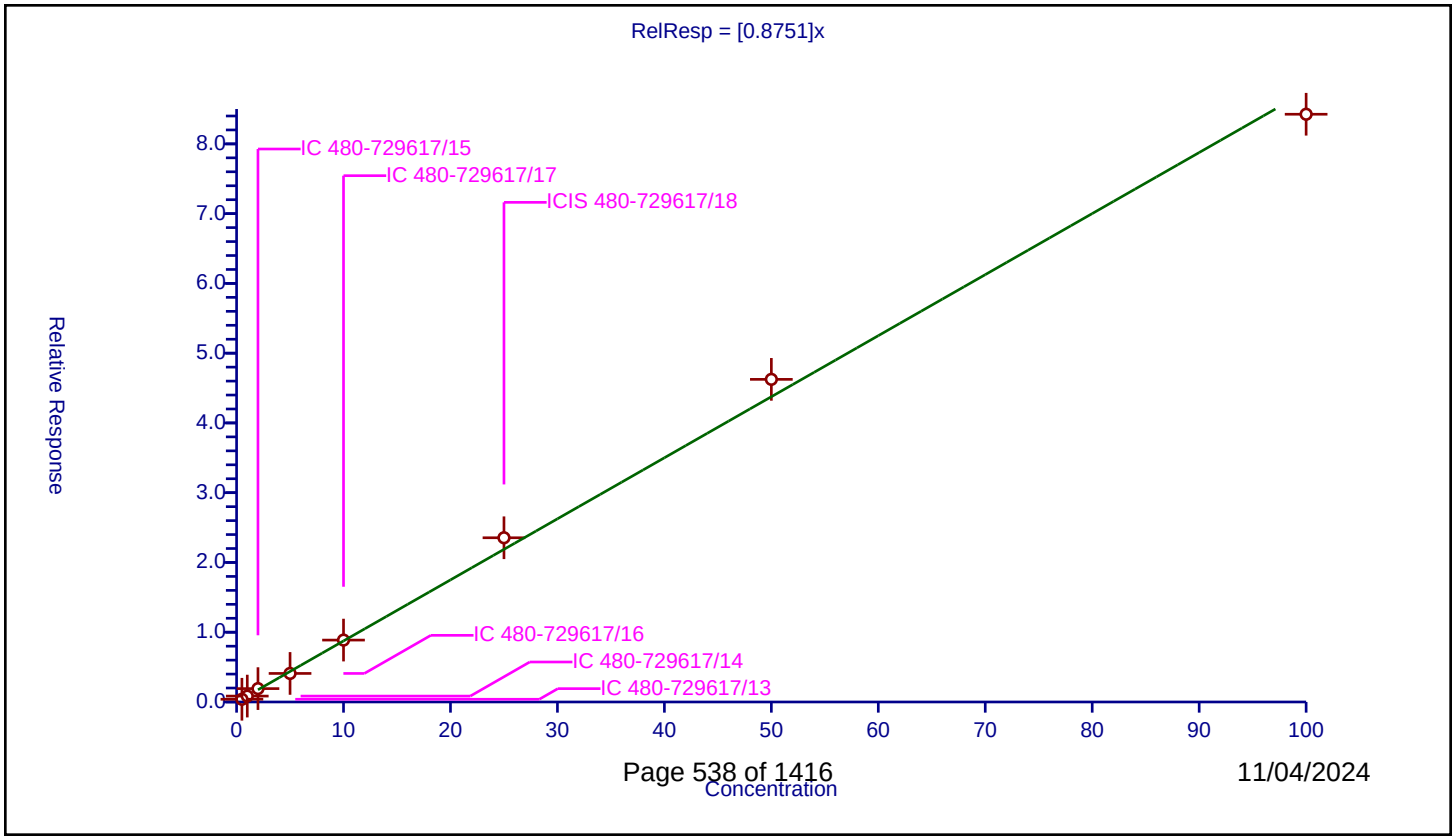
Curve Coefficients

Intercept:	0
Slope:	0.8751

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.391066	25.0	183473.0	0.782131	Y
2	IC 480-729617/14	1.0	0.846746	25.0	190051.0	0.846746	Y
3	IC 480-729617/15	2.0	1.915197	25.0	182305.0	0.957599	Y
4	IC 480-729617/16	5.0	4.091422	25.0	187887.0	0.818284	Y
5	IC 480-729617/17	10.0	8.872241	25.0	172865.0	0.887224	Y
6	ICIS 480-729617/18	25.0	23.541344	25.0	186096.0	0.941654	Y
7	IC 480-729617/19	50.0	46.246584	25.0	193930.0	0.924932	Y
8	IC 480-729617/20	100.0	84.251523	25.0	192925.0	0.842515	Y



11/04/2024

Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

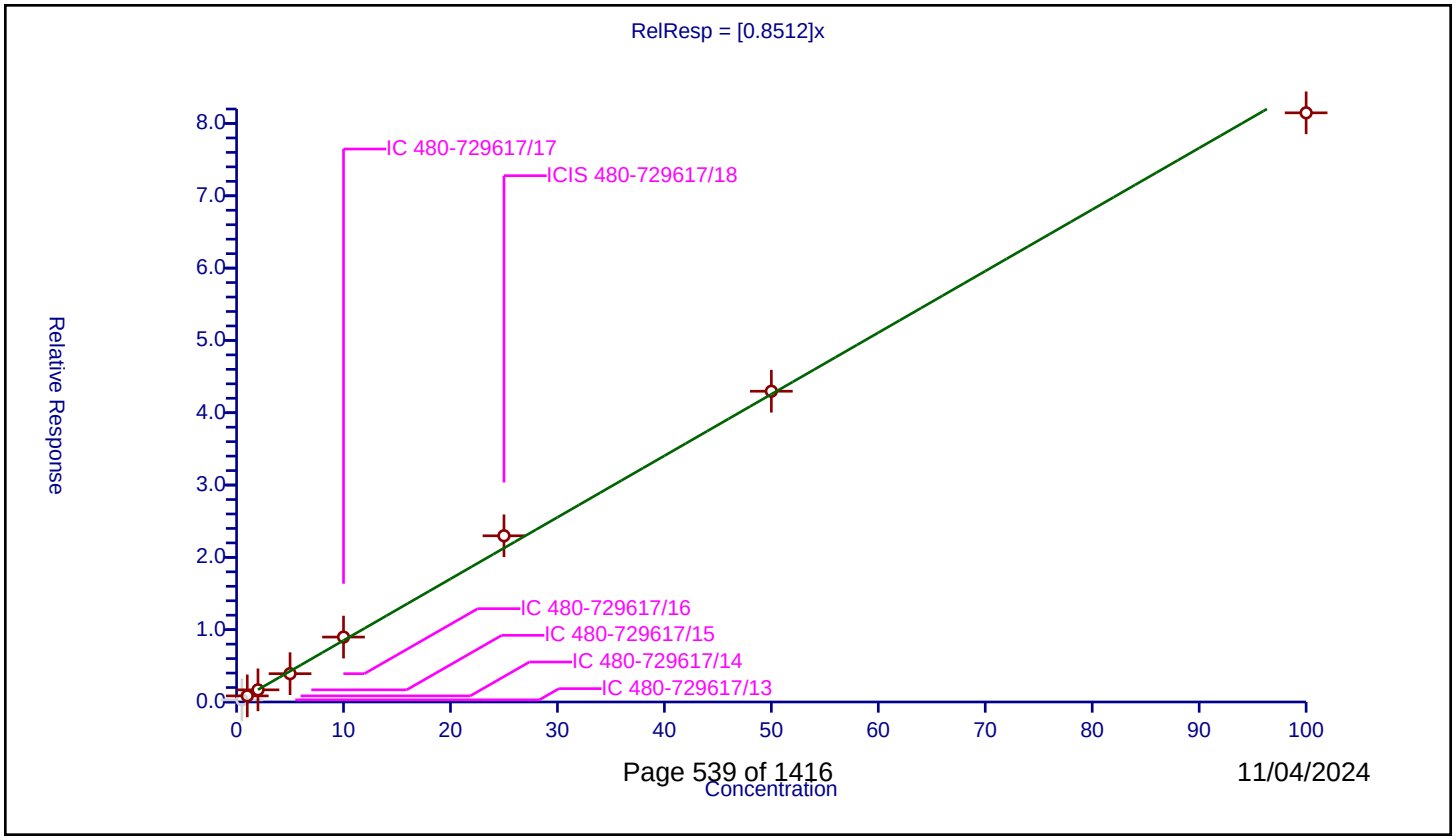
Curve Coefficients

Intercept:	0
Slope:	0.8512

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.295139	25.0	183473.0	0.590278	N
2	IC 480-729617/14	1.0	0.843852	25.0	190051.0	0.843852	Y
3	IC 480-729617/15	2.0	1.680289	25.0	182305.0	0.840144	Y
4	IC 480-729617/16	5.0	3.915518	25.0	187887.0	0.783104	Y
5	IC 480-729617/17	10.0	8.977237	25.0	172865.0	0.897724	Y
6	ICIS 480-729617/18	25.0	22.983702	25.0	186096.0	0.919348	Y
7	IC 480-729617/19	50.0	42.972464	25.0	193930.0	0.859449	Y
8	IC 480-729617/20	100.0	81.472723	25.0	192925.0	0.814727	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

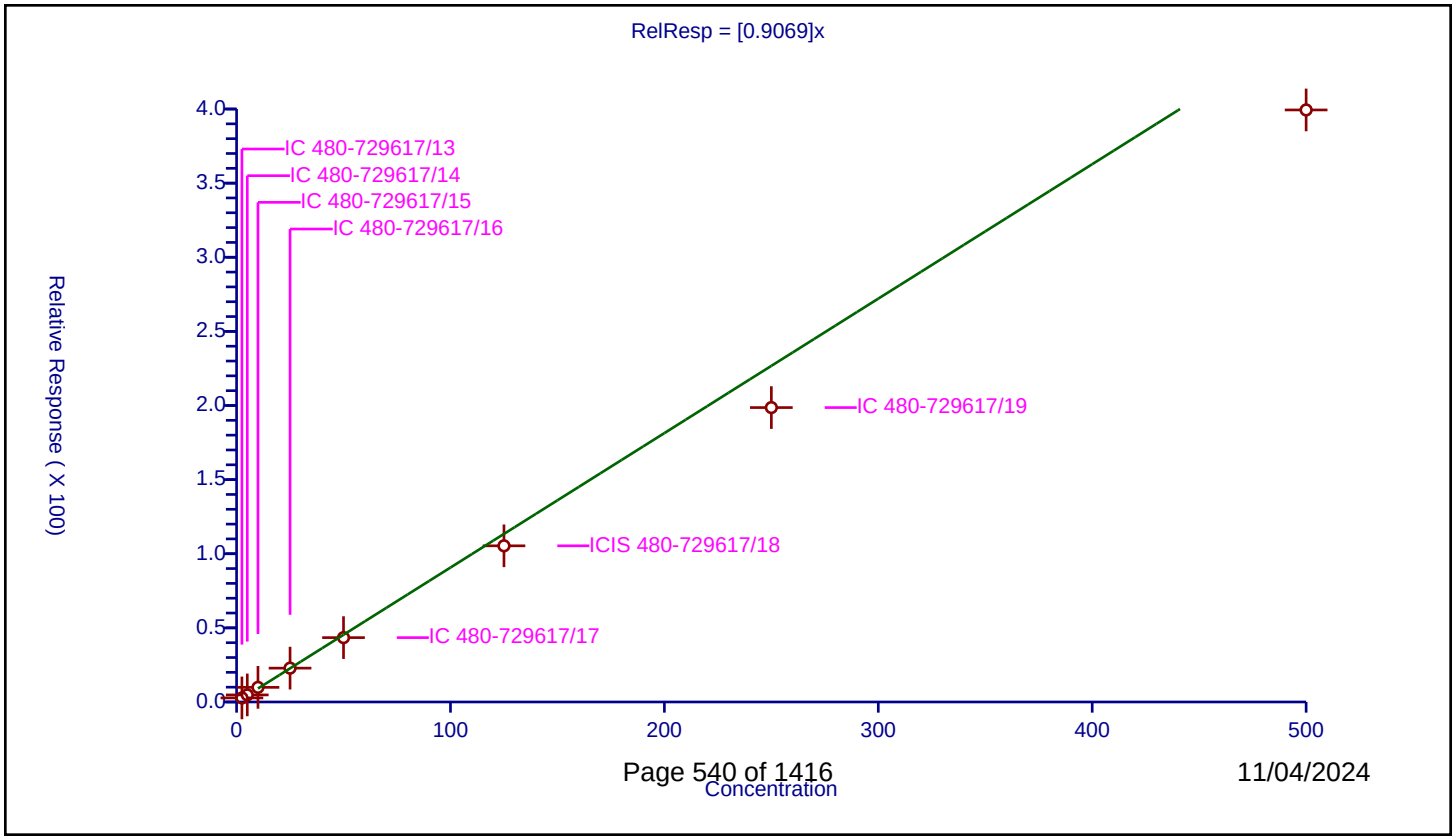
Curve Coefficients

Intercept:	0
Slope:	0.9069

Error Coefficients

Relative Standard Deviation:	11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	2.5	2.742365	25.0	183473.0	1.096946	Y
2	IC 480-729617/14	5.0	4.774113	25.0	190051.0	0.954823	Y
3	IC 480-729617/15	10.0	9.862044	25.0	182305.0	0.986204	Y
4	IC 480-729617/16	25.0	22.833671	25.0	187887.0	0.913347	Y
5	IC 480-729617/17	50.0	43.415382	25.0	172865.0	0.868308	Y
6	ICIS 480-729617/18	125.0	105.345091	25.0	186096.0	0.842761	Y
7	IC 480-729617/19	250.0	198.593307	25.0	193930.0	0.794373	Y
8	IC 480-729617/20	500.0	399.377349	25.0	192925.0	0.798755	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

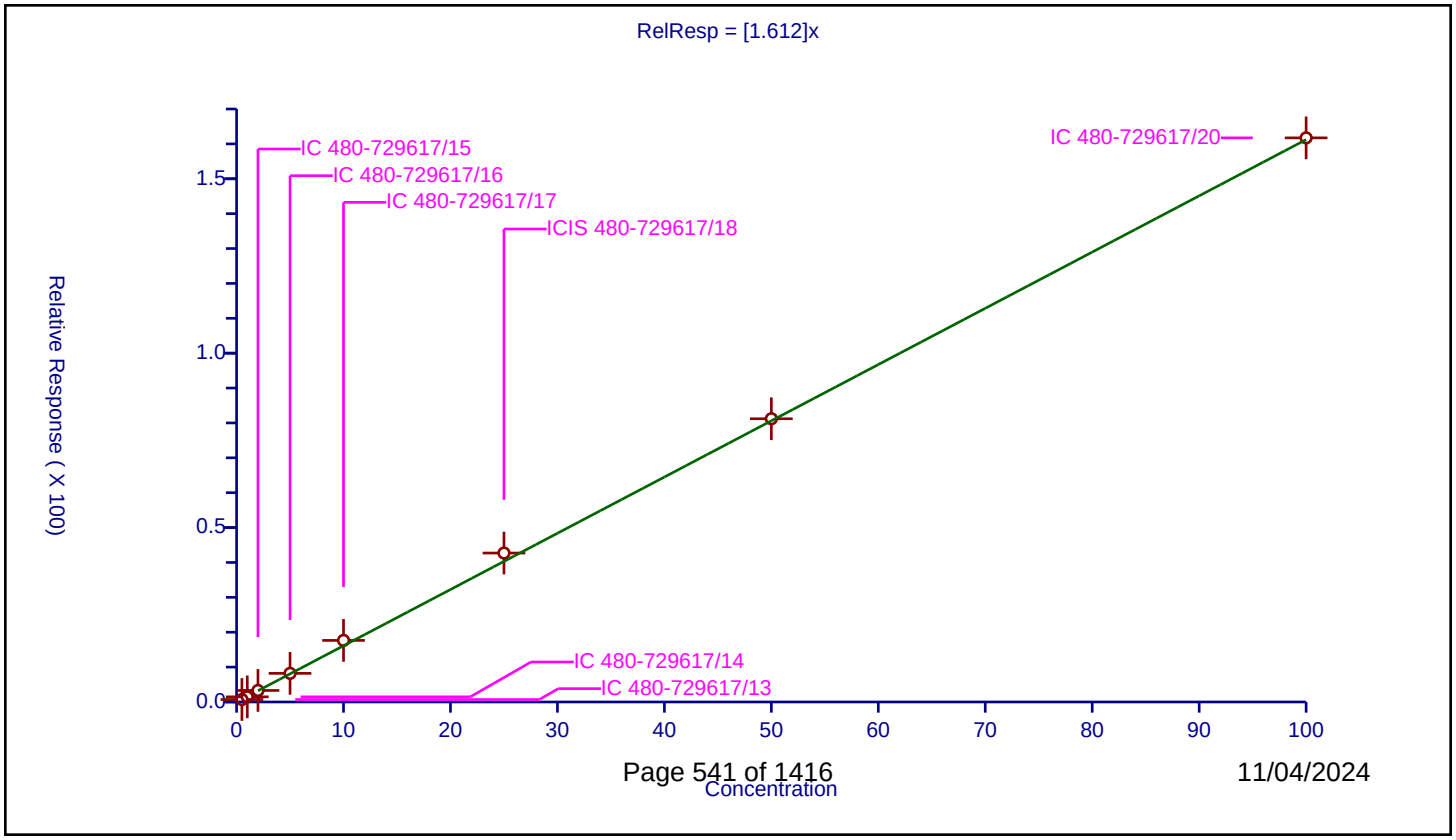
Curve Coefficients

Intercept:	0
Slope:	1.612

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.7046	25.0	183473.0	1.409199	Y
2	IC 480-729617/14	1.0	1.479208	25.0	190051.0	1.479208	Y
3	IC 480-729617/15	2.0	3.305724	25.0	182305.0	1.652862	Y
4	IC 480-729617/16	5.0	8.210254	25.0	187887.0	1.642051	Y
5	IC 480-729617/17	10.0	17.656842	25.0	172865.0	1.765684	Y
6	ICIS 480-729617/18	25.0	42.699601	25.0	186096.0	1.707984	Y
7	IC 480-729617/19	50.0	81.199015	25.0	193930.0	1.62398	Y
8	IC 480-729617/20	100.0	161.727096	25.0	192925.0	1.617271	Y



11/04/2024

Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

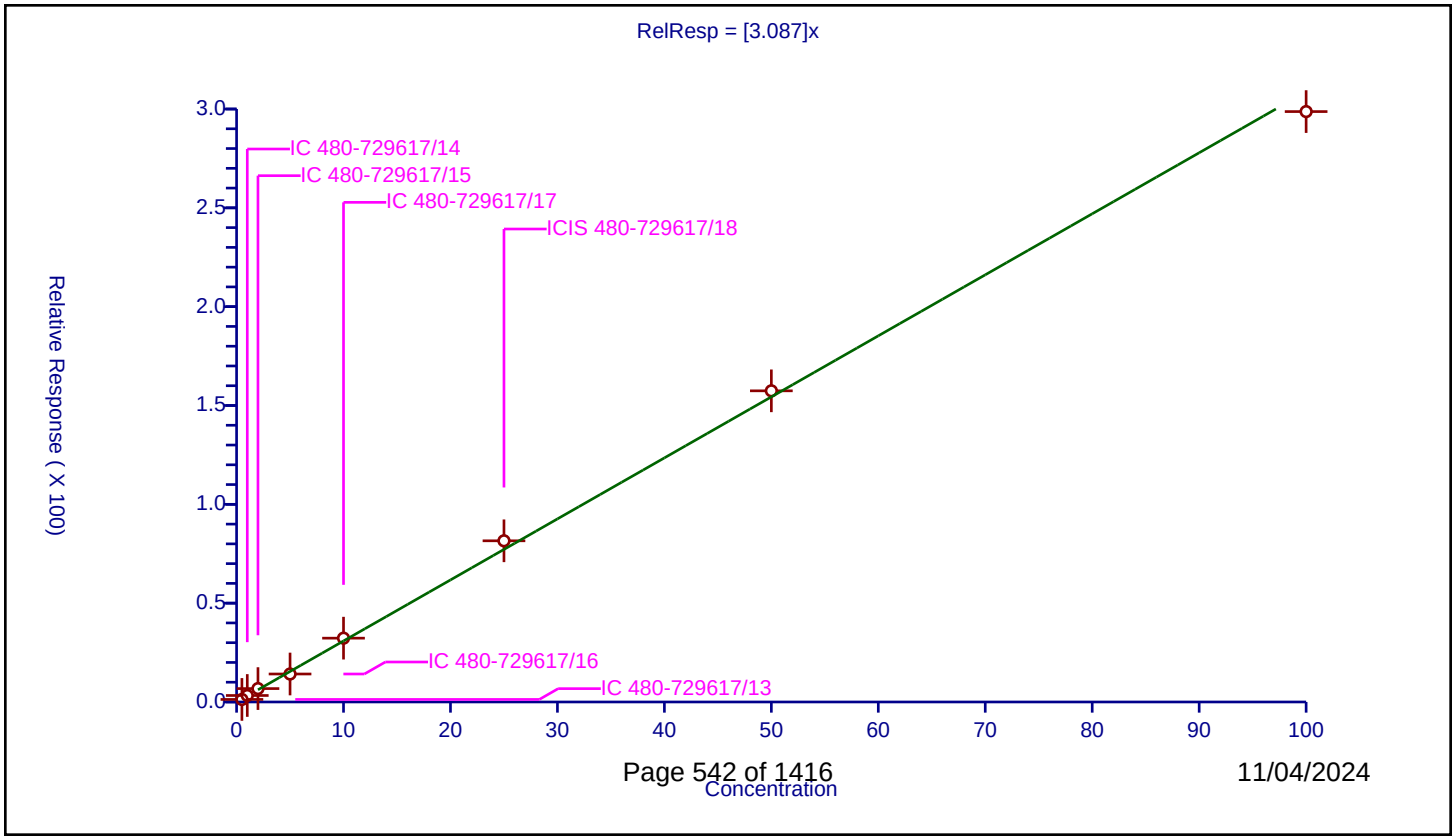
Curve Coefficients

Intercept:	0
Slope:	3.087

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.282614	25.0	183473.0	2.565228	Y
2	IC 480-729617/14	1.0	3.283855	25.0	190051.0	3.283855	Y
3	IC 480-729617/15	2.0	6.783687	25.0	182305.0	3.391843	Y
4	IC 480-729617/16	5.0	14.157845	25.0	187887.0	2.831569	Y
5	IC 480-729617/17	10.0	32.2869	25.0	172865.0	3.22869	Y
6	ICIS 480-729617/18	25.0	81.551457	25.0	186096.0	3.262058	Y
7	IC 480-729617/19	50.0	157.421879	25.0	193930.0	3.148438	Y
8	IC 480-729617/20	100.0	298.710768	25.0	192925.0	2.987108	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

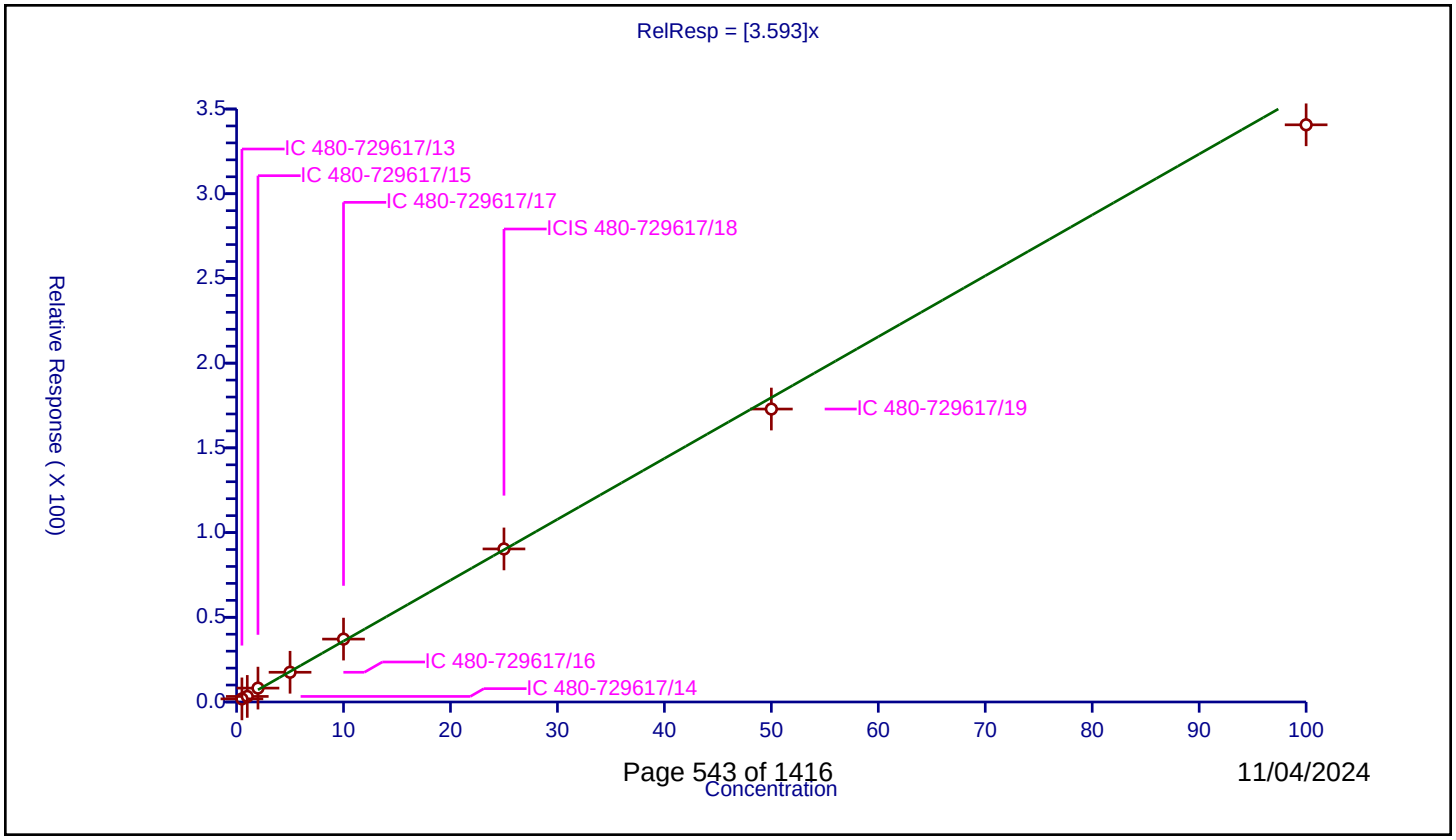
Curve Coefficients

Intercept:	0
Slope:	3.593

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.834194	25.0	183473.0	3.668387	Y
2	IC 480-729617/14	1.0	3.284513	25.0	190051.0	3.284513	Y
3	IC 480-729617/15	2.0	8.190121	25.0	182305.0	4.09506	Y
4	IC 480-729617/16	5.0	17.546451	25.0	187887.0	3.50929	Y
5	IC 480-729617/17	10.0	37.119139	25.0	172865.0	3.711914	Y
6	ICIS 480-729617/18	25.0	90.332678	25.0	186096.0	3.613307	Y
7	IC 480-729617/19	50.0	172.906977	25.0	193930.0	3.45814	Y
8	IC 480-729617/20	100.0	340.675781	25.0	192925.0	3.406758	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

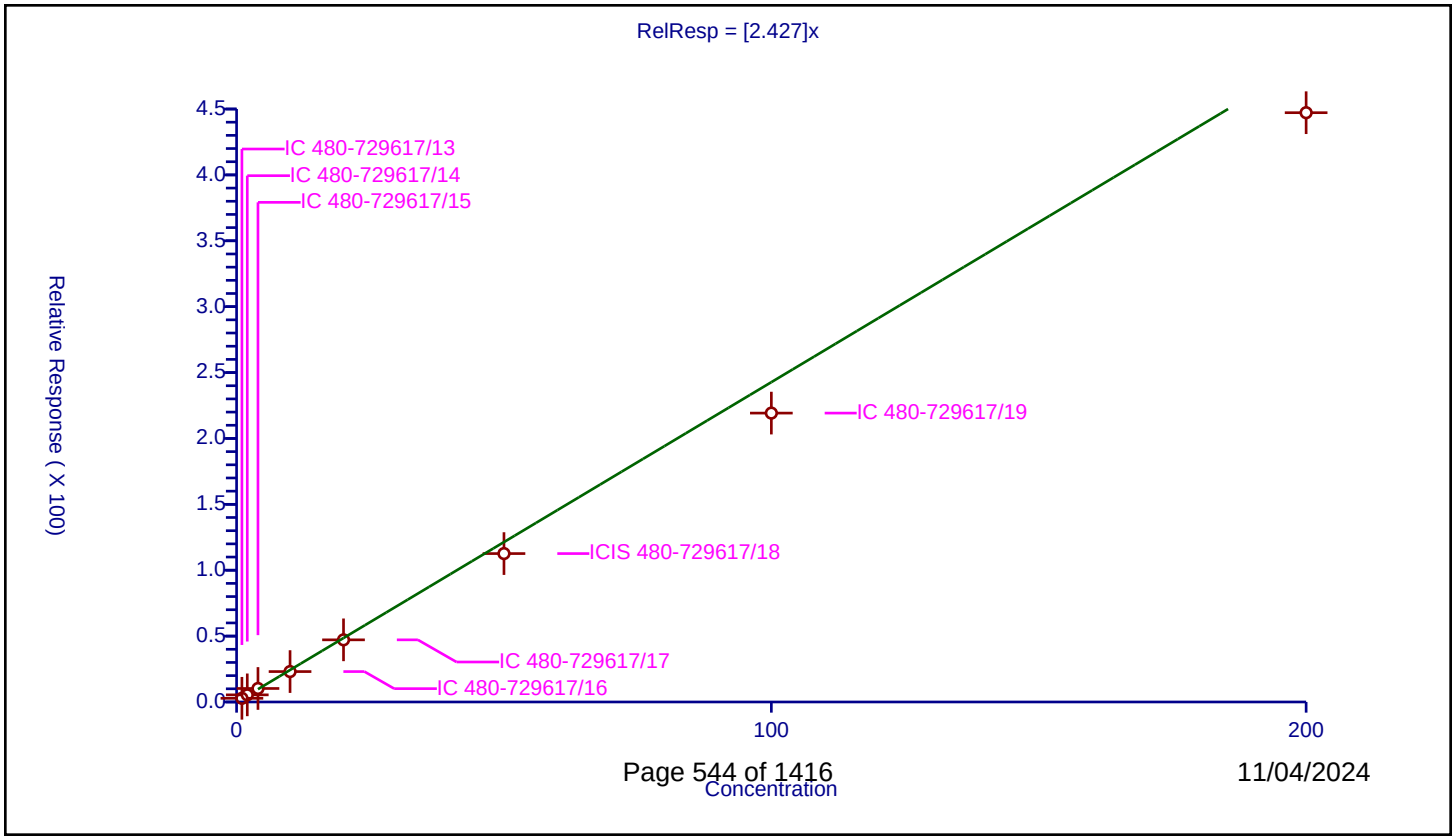
Curve Coefficients

Intercept:	0
Slope:	2.427

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	1.0	2.805726	25.0	183473.0	2.805726	Y
2	IC 480-729617/14	2.0	5.407233	25.0	190051.0	2.703616	Y
3	IC 480-729617/15	4.0	10.240942	25.0	182305.0	2.560236	Y
4	IC 480-729617/16	10.0	23.08156	25.0	187887.0	2.308156	Y
5	IC 480-729617/17	20.0	47.161079	25.0	172865.0	2.358054	Y
6	ICIS 480-729617/18	50.0	112.632593	25.0	186096.0	2.252652	Y
7	IC 480-729617/19	100.0	219.232713	25.0	193930.0	2.192327	Y
8	IC 480-729617/20	200.0	447.216276	25.0	192925.0	2.236081	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

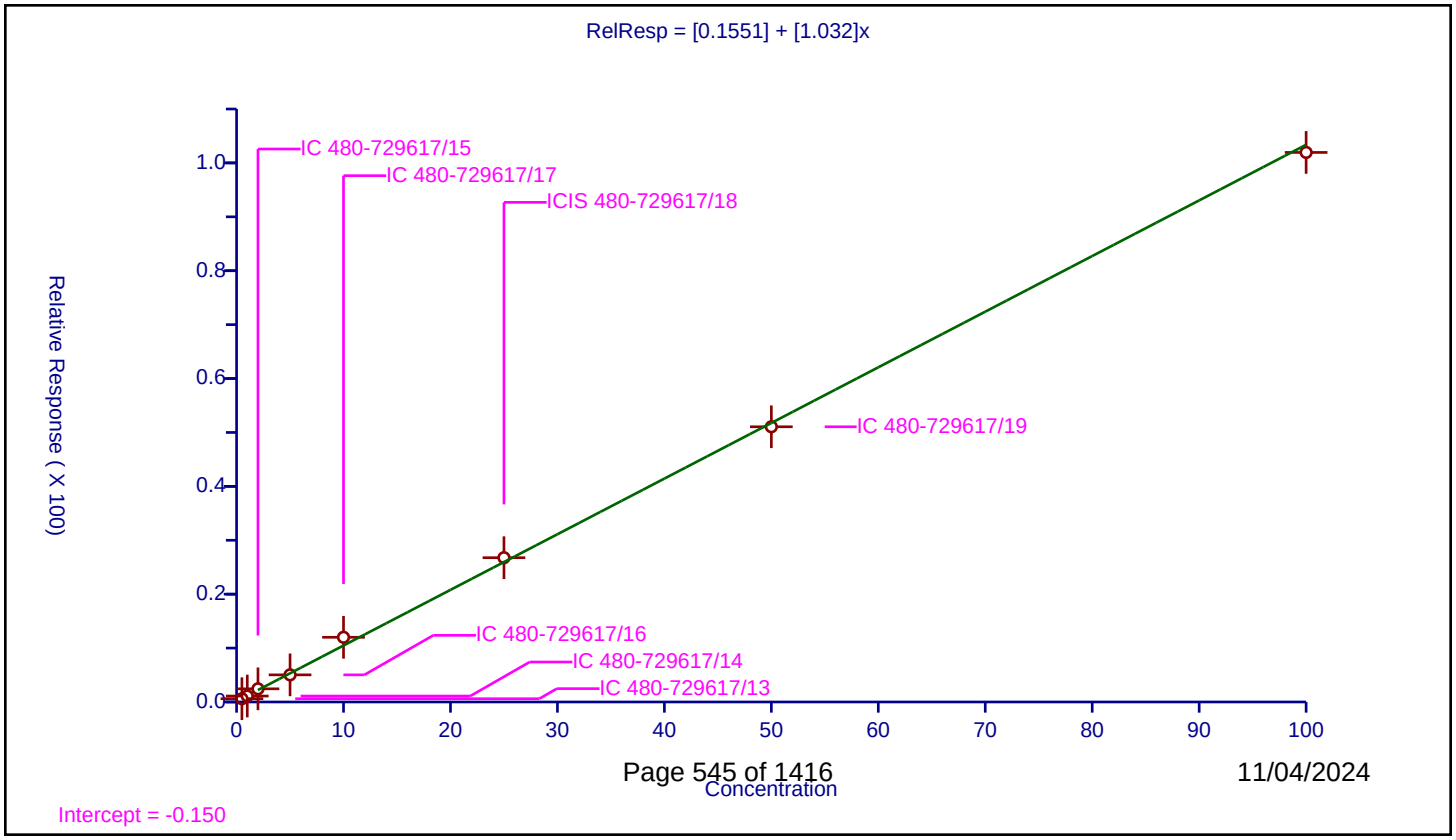
Curve Coefficients

Intercept:	0.1551
Slope:	1.032

Error Coefficients

Relative Standard Deviation:	10.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.606765	25.0	183473.0	1.21353	Y
2	IC 480-729617/14	1.0	1.10352	25.0	190051.0	1.10352	Y
3	IC 480-729617/15	2.0	2.443021	25.0	182305.0	1.221511	Y
4	IC 480-729617/16	5.0	5.03534	25.0	187887.0	1.007068	Y
5	IC 480-729617/17	10.0	12.001562	25.0	172865.0	1.200156	Y
6	ICIS 480-729617/18	25.0	26.766561	25.0	186096.0	1.070662	Y
7	IC 480-729617/19	50.0	51.053215	25.0	193930.0	1.021064	Y
8	IC 480-729617/20	100.0	101.944408	25.0	192925.0	1.019444	Y



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Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

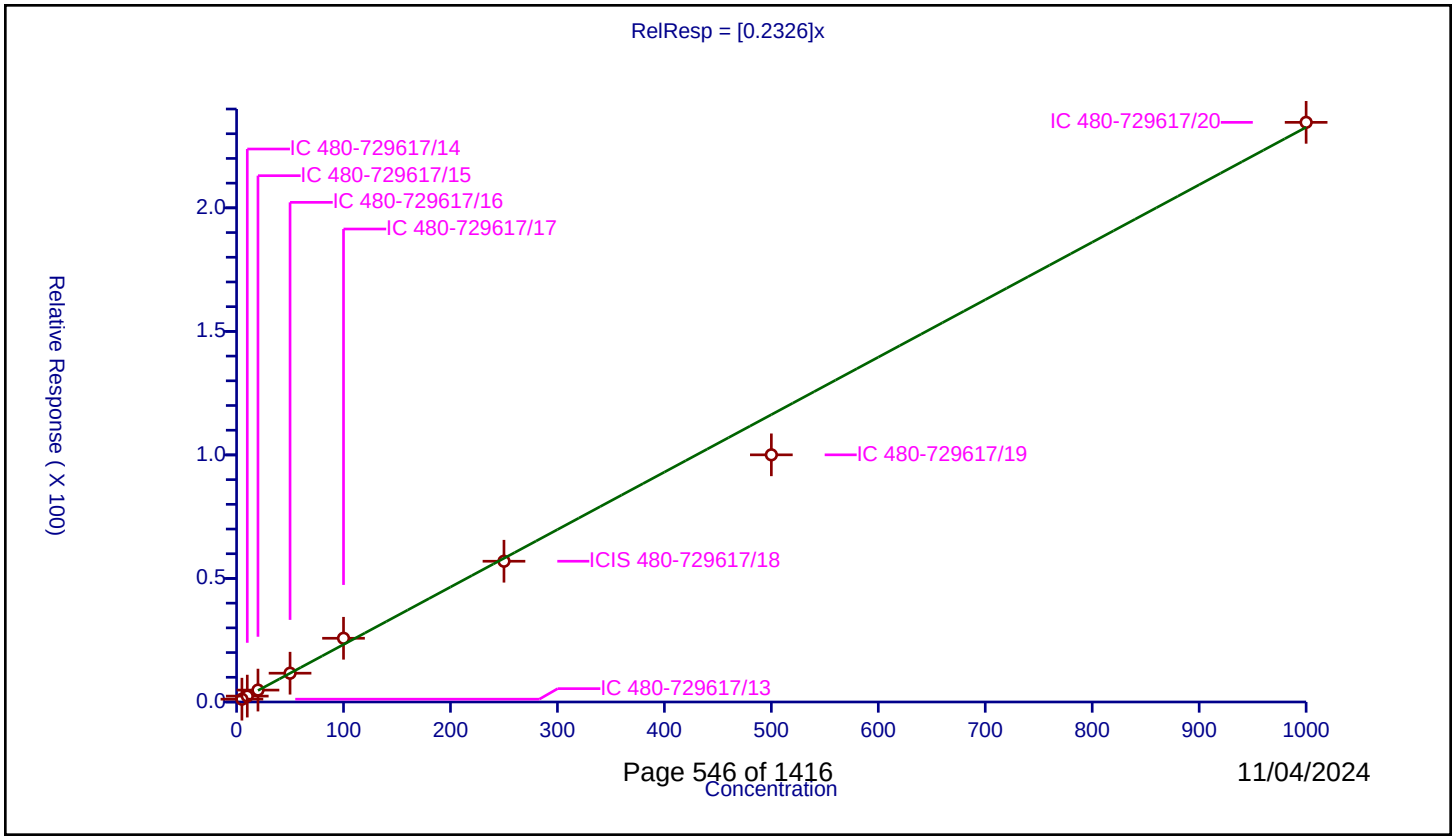
Curve Coefficients

Intercept:	0
Slope:	0.2326

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	5.0	1.14104	25.0	183473.0	0.228208	Y
2	IC 480-729617/14	10.0	2.381466	25.0	190051.0	0.238147	Y
3	IC 480-729617/15	20.0	4.81775	25.0	182305.0	0.240888	Y
4	IC 480-729617/16	50.0	11.653414	25.0	187887.0	0.233068	Y
5	IC 480-729617/17	100.0	25.793538	25.0	172865.0	0.257935	Y
6	ICIS 480-729617/18	250.0	56.972477	25.0	186096.0	0.22789	Y
7	IC 480-729617/19	500.0	100.039963	25.0	193930.0	0.20008	Y
8	IC 480-729617/20	1000.0	234.605546	25.0	192925.0	0.234606	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

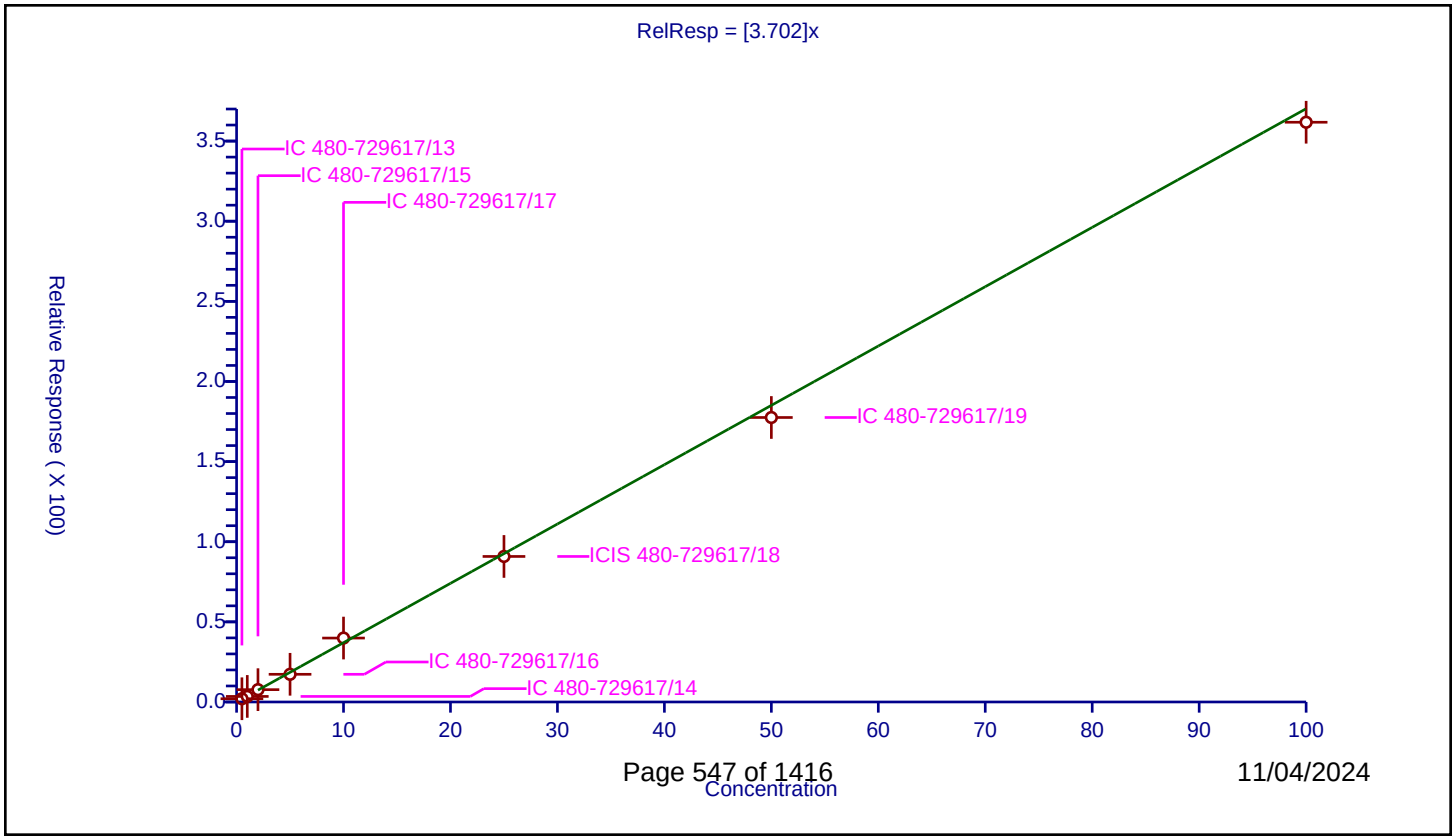
Curve Coefficients

Intercept:	0
Slope:	3.702

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	2.028091	25.0	183473.0	4.056183	Y
2	IC 480-729617/14	1.0	3.46407	25.0	190051.0	3.46407	Y
3	IC 480-729617/15	2.0	7.701928	25.0	182305.0	3.850964	Y
4	IC 480-729617/16	5.0	17.274346	25.0	187887.0	3.454869	Y
5	IC 480-729617/17	10.0	39.888063	25.0	172865.0	3.988806	Y
6	ICIS 480-729617/18	25.0	90.811463	25.0	186096.0	3.632459	Y
7	IC 480-729617/19	50.0	177.513794	25.0	193930.0	3.550276	Y
8	IC 480-729617/20	100.0	361.754179	25.0	192925.0	3.617542	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

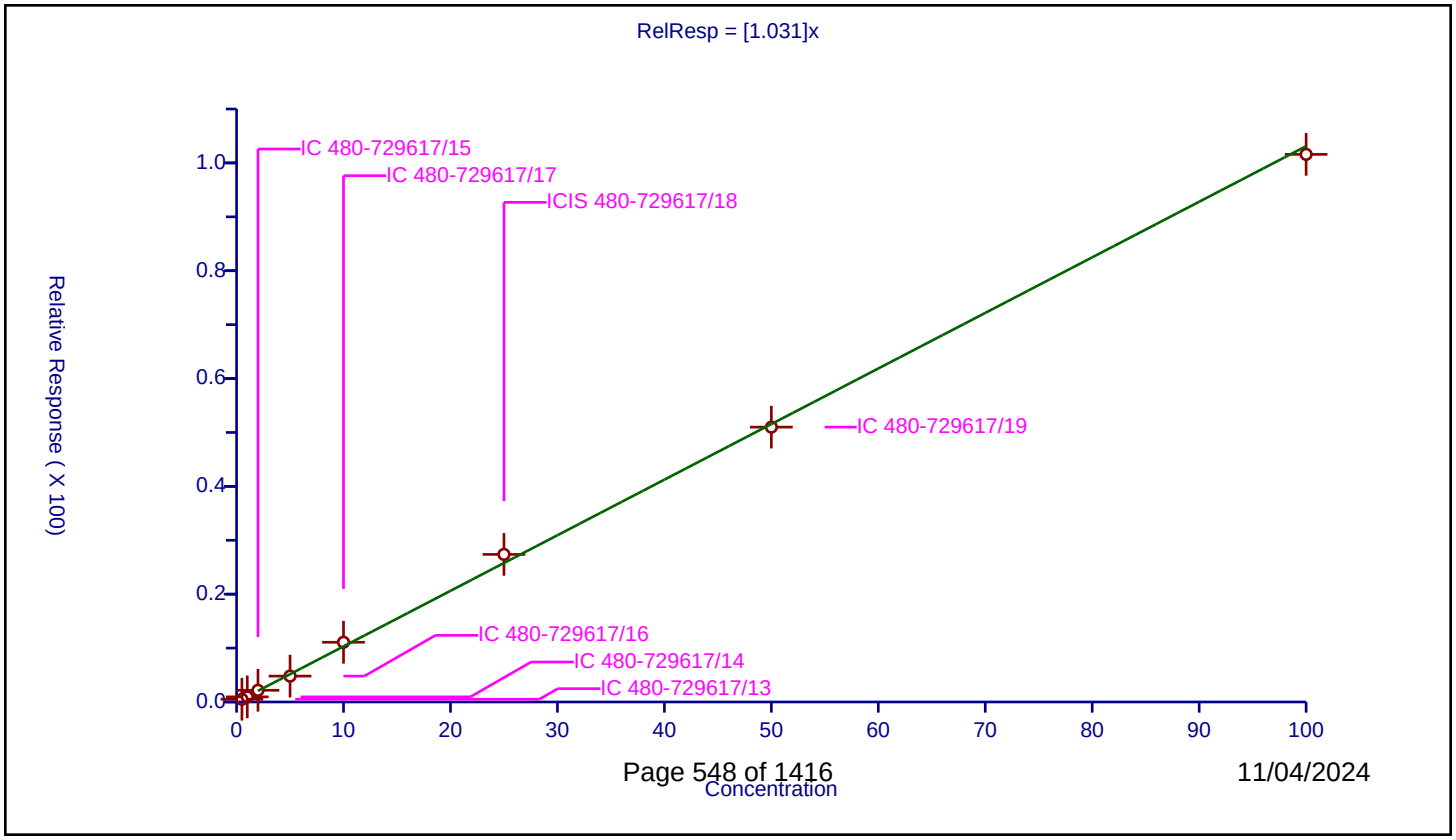
Curve Coefficients

Intercept:	0
Slope:	1.031

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.509612	25.0	183473.0	1.019224	Y
2	IC 480-729617/14	1.0	0.946983	25.0	190051.0	0.946983	Y
3	IC 480-729617/15	2.0	2.166973	25.0	182305.0	1.083486	Y
4	IC 480-729617/16	5.0	4.800359	25.0	187887.0	0.960072	Y
5	IC 480-729617/17	10.0	11.078587	25.0	172865.0	1.107859	Y
6	ICIS 480-729617/18	25.0	27.377536	25.0	186096.0	1.095101	Y
7	IC 480-729617/19	50.0	50.988114	25.0	193930.0	1.019762	Y
8	IC 480-729617/20	100.0	101.584035	25.0	192925.0	1.01584	Y



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Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

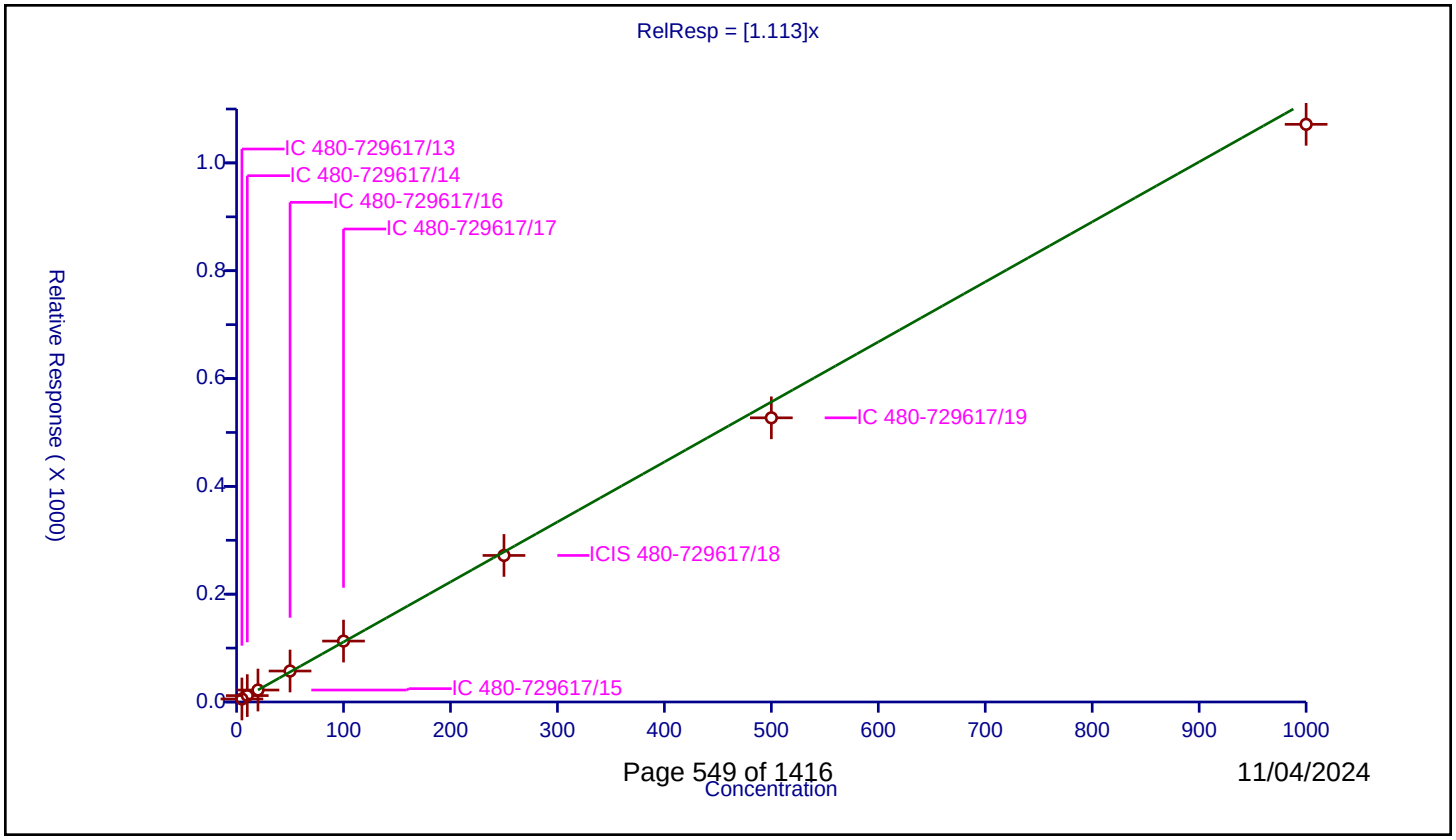
Curve Coefficients

Intercept:	0
Slope:	1.113

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	5.0	5.608318	25.0	183473.0	1.121664	Y
2	IC 480-729617/14	10.0	11.825115	25.0	190051.0	1.182512	Y
3	IC 480-729617/15	20.0	22.18768	25.0	182305.0	1.109384	Y
4	IC 480-729617/16	50.0	57.45661	25.0	187887.0	1.149132	Y
5	IC 480-729617/17	100.0	113.023458	25.0	172865.0	1.130235	Y
6	ICIS 480-729617/18	250.0	271.844102	25.0	186096.0	1.087376	Y
7	IC 480-729617/19	500.0	527.133373	25.0	193930.0	1.054267	Y
8	IC 480-729617/20	1000.0	1071.603214	25.0	192925.0	1.071603	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

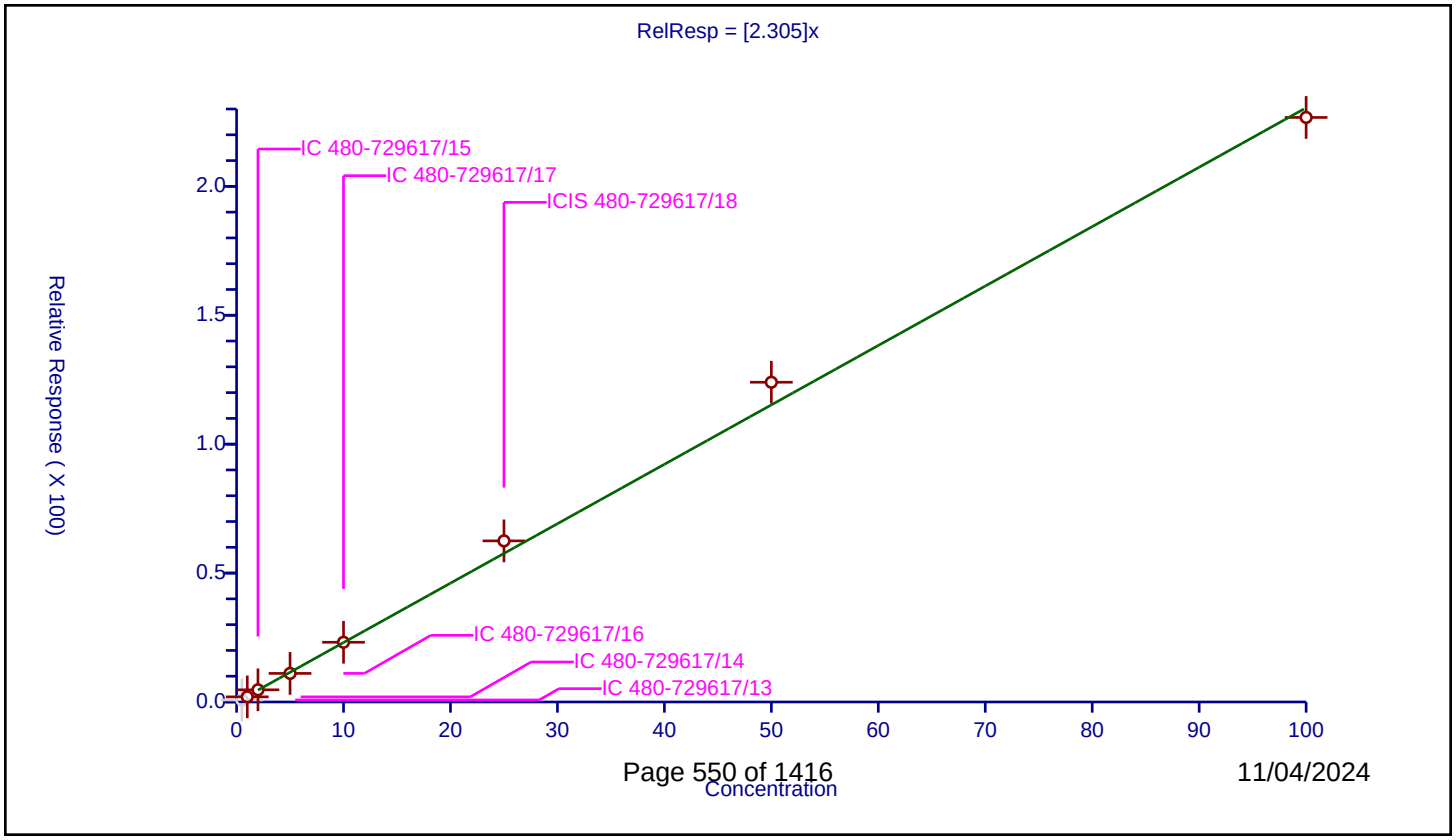
Curve Coefficients

Intercept:	0
Slope:	2.305

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.793577	25.0	183473.0	1.587155	N
2	IC 480-729617/14	1.0	1.990781	25.0	190051.0	1.990781	Y
3	IC 480-729617/15	2.0	4.723129	25.0	182305.0	2.361564	Y
4	IC 480-729617/16	5.0	11.084189	25.0	187887.0	2.216838	Y
5	IC 480-729617/17	10.0	23.162439	25.0	172865.0	2.316244	Y
6	ICIS 480-729617/18	25.0	62.491537	25.0	186096.0	2.499661	Y
7	IC 480-729617/19	50.0	124.019234	25.0	193930.0	2.480385	Y
8	IC 480-729617/20	100.0	226.727614	25.0	192925.0	2.267276	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

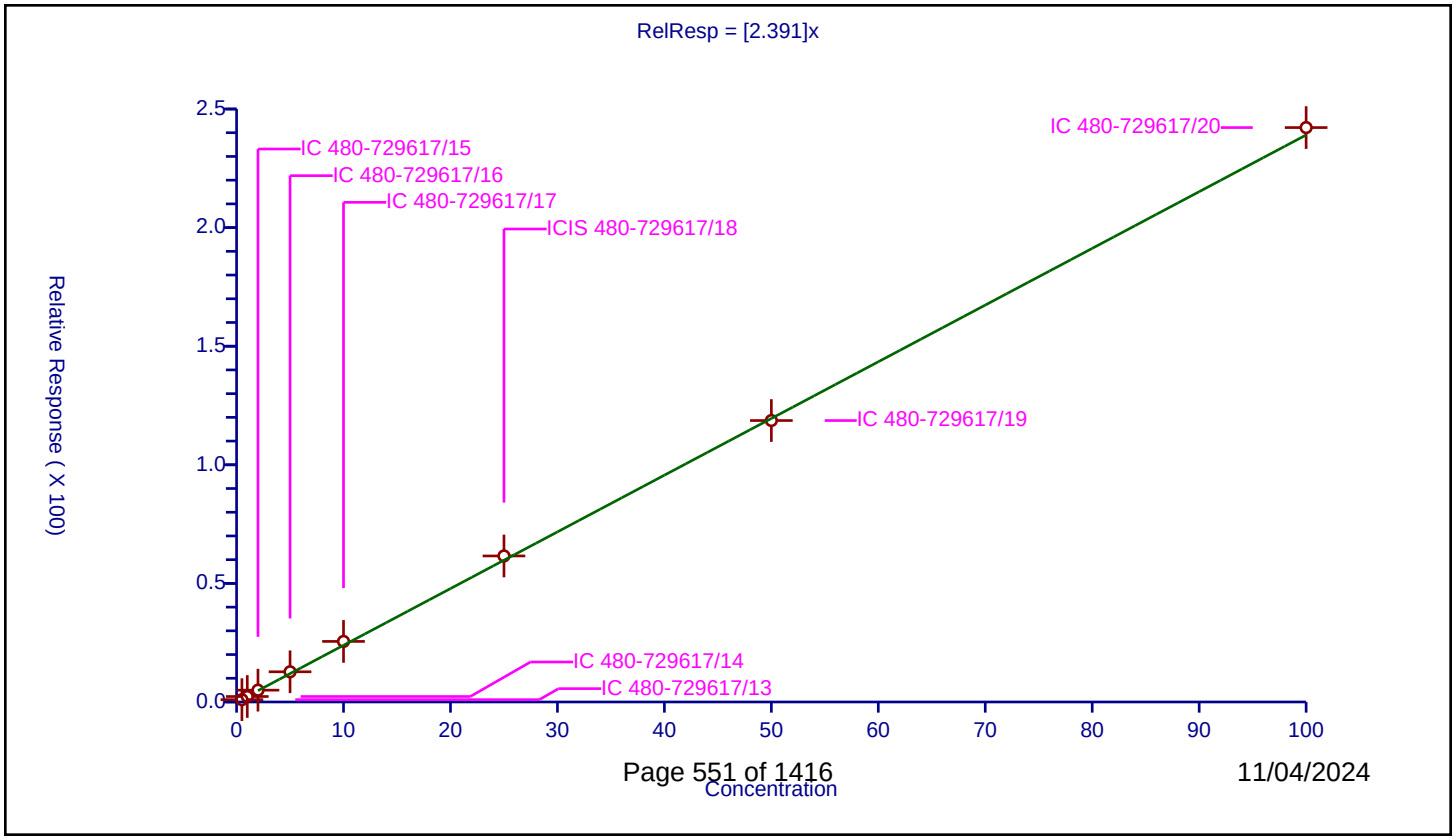
Curve Coefficients

Intercept:	0
Slope:	2.391

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.980253	25.0	183473.0	1.960506	Y
2	IC 480-729617/14	1.0	2.315826	25.0	190051.0	2.315826	Y
3	IC 480-729617/15	2.0	4.981487	25.0	182305.0	2.490744	Y
4	IC 480-729617/16	5.0	12.729061	25.0	187887.0	2.545812	Y
5	IC 480-729617/17	10.0	25.534521	25.0	172865.0	2.553452	Y
6	ICIS 480-729617/18	25.0	61.573328	25.0	186096.0	2.462933	Y
7	IC 480-729617/19	50.0	118.66163	25.0	193930.0	2.373233	Y
8	IC 480-729617/20	100.0	242.170921	25.0	192925.0	2.421709	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

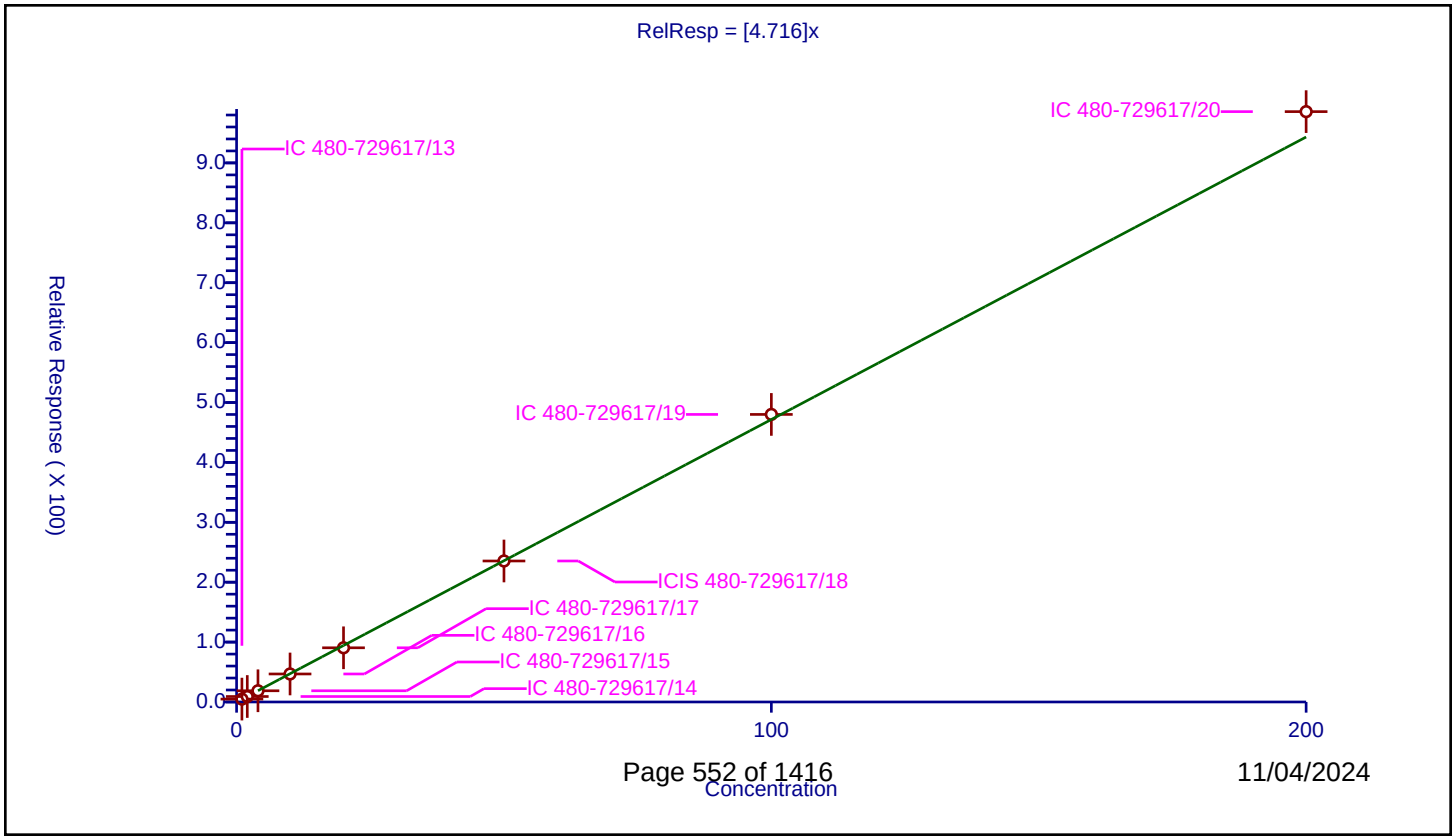
Curve Coefficients

Intercept:	0
Slope:	4.716

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	1.0	4.842266	25.0	183473.0	4.842266	Y
2	IC 480-729617/14	2.0	9.145571	25.0	190051.0	4.572786	Y
3	IC 480-729617/15	4.0	18.700666	25.0	182305.0	4.675167	Y
4	IC 480-729617/16	10.0	46.782774	25.0	187887.0	4.678277	Y
5	IC 480-729617/17	20.0	90.490412	25.0	172865.0	4.524521	Y
6	ICIS 480-729617/18	50.0	235.39356	25.0	186096.0	4.707871	Y
7	IC 480-729617/19	100.0	480.07709	25.0	193930.0	4.800771	Y
8	IC 480-729617/20	200.0	985.624725	25.0	192925.0	4.928124	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

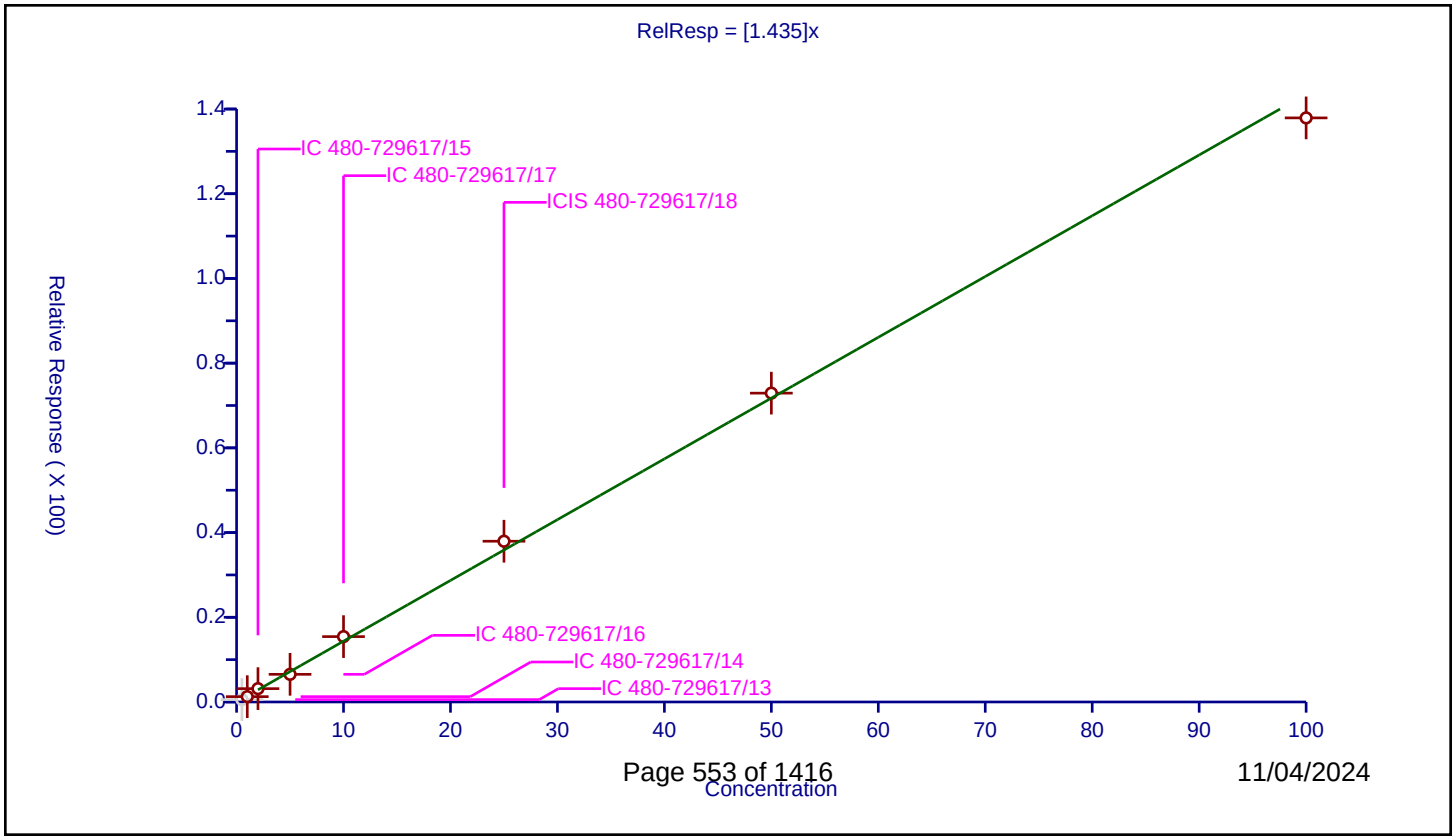
Curve Coefficients

Intercept:	0
Slope:	1.435

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.566432	25.0	183473.0	1.132864	N
2	IC 480-729617/14	1.0	1.264924	25.0	190051.0	1.264924	Y
3	IC 480-729617/15	2.0	3.150215	25.0	182305.0	1.575108	Y
4	IC 480-729617/16	5.0	6.528924	25.0	187887.0	1.305785	Y
5	IC 480-729617/17	10.0	15.432852	25.0	172865.0	1.543285	Y
6	ICIS 480-729617/18	25.0	37.956485	25.0	186096.0	1.518259	Y
7	IC 480-729617/19	50.0	72.918837	25.0	193930.0	1.458377	Y
8	IC 480-729617/20	100.0	137.901775	25.0	192925.0	1.379018	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

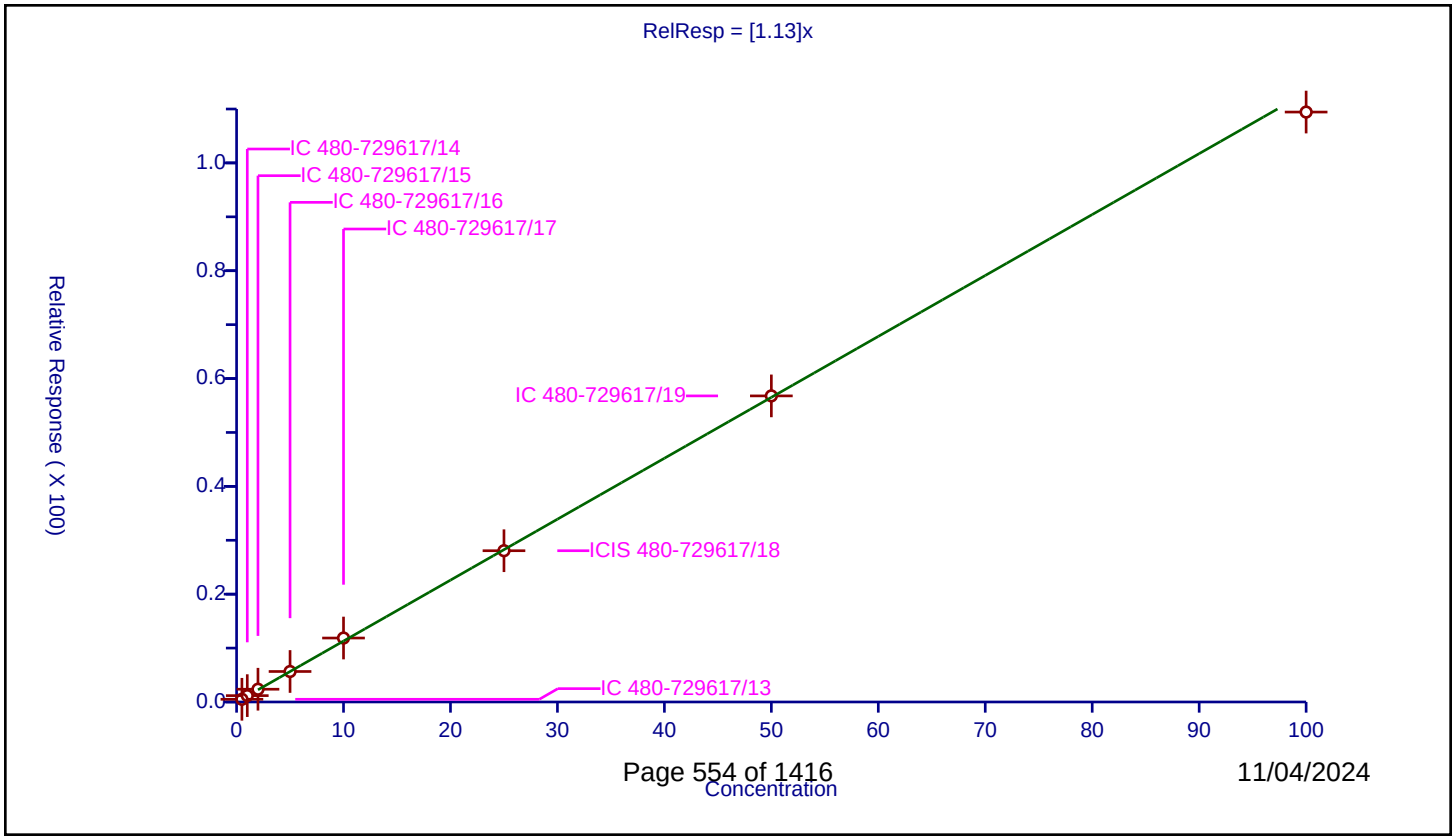
Curve Coefficients

Intercept:	0
Slope:	1.13

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.503344	25.0	183473.0	1.006688	Y
2	IC 480-729617/14	1.0	1.180867	25.0	190051.0	1.180867	Y
3	IC 480-729617/15	2.0	2.369244	25.0	182305.0	1.184622	Y
4	IC 480-729617/16	5.0	5.655926	25.0	187887.0	1.131185	Y
5	IC 480-729617/17	10.0	11.865328	25.0	172865.0	1.186533	Y
6	ICIS 480-729617/18	25.0	28.058368	25.0	186096.0	1.122335	Y
7	IC 480-729617/19	50.0	56.782086	25.0	193930.0	1.135642	Y
8	IC 480-729617/20	100.0	109.434495	25.0	192925.0	1.094345	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

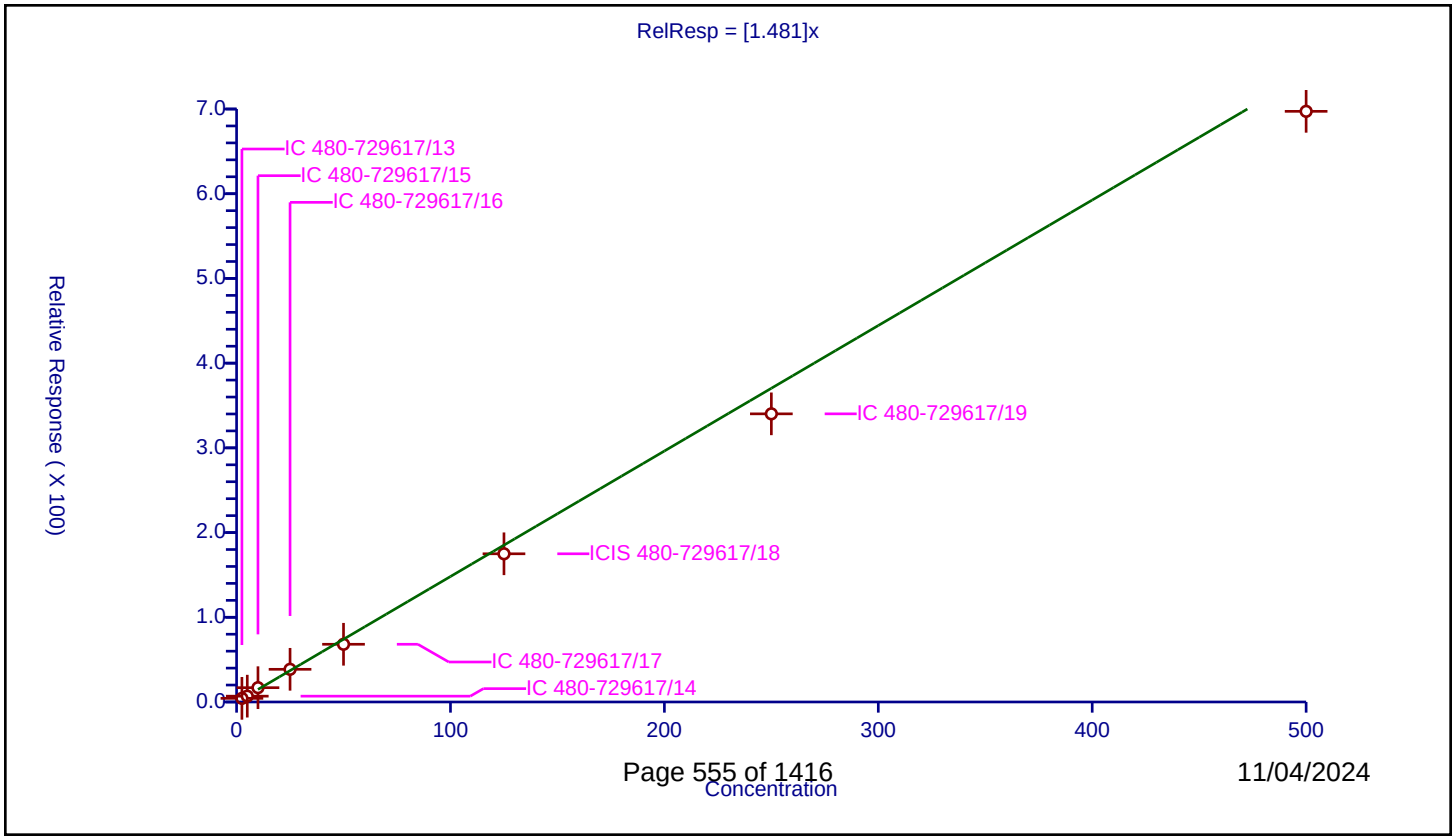
Curve Coefficients

Intercept:	0
Slope:	1.481

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	2.5	4.311534	25.0	183473.0	1.724613	Y
2	IC 480-729617/14	5.0	6.885652	25.0	190051.0	1.37713	Y
3	IC 480-729617/15	10.0	16.884616	25.0	182305.0	1.688462	Y
4	IC 480-729617/16	25.0	38.571322	25.0	187887.0	1.542853	Y
5	IC 480-729617/17	50.0	68.148266	25.0	172865.0	1.362965	Y
6	ICIS 480-729617/18	125.0	174.956474	25.0	186096.0	1.399652	Y
7	IC 480-729617/19	250.0	340.157789	25.0	193930.0	1.360631	Y
8	IC 480-729617/20	500.0	697.272645	25.0	192925.0	1.394545	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

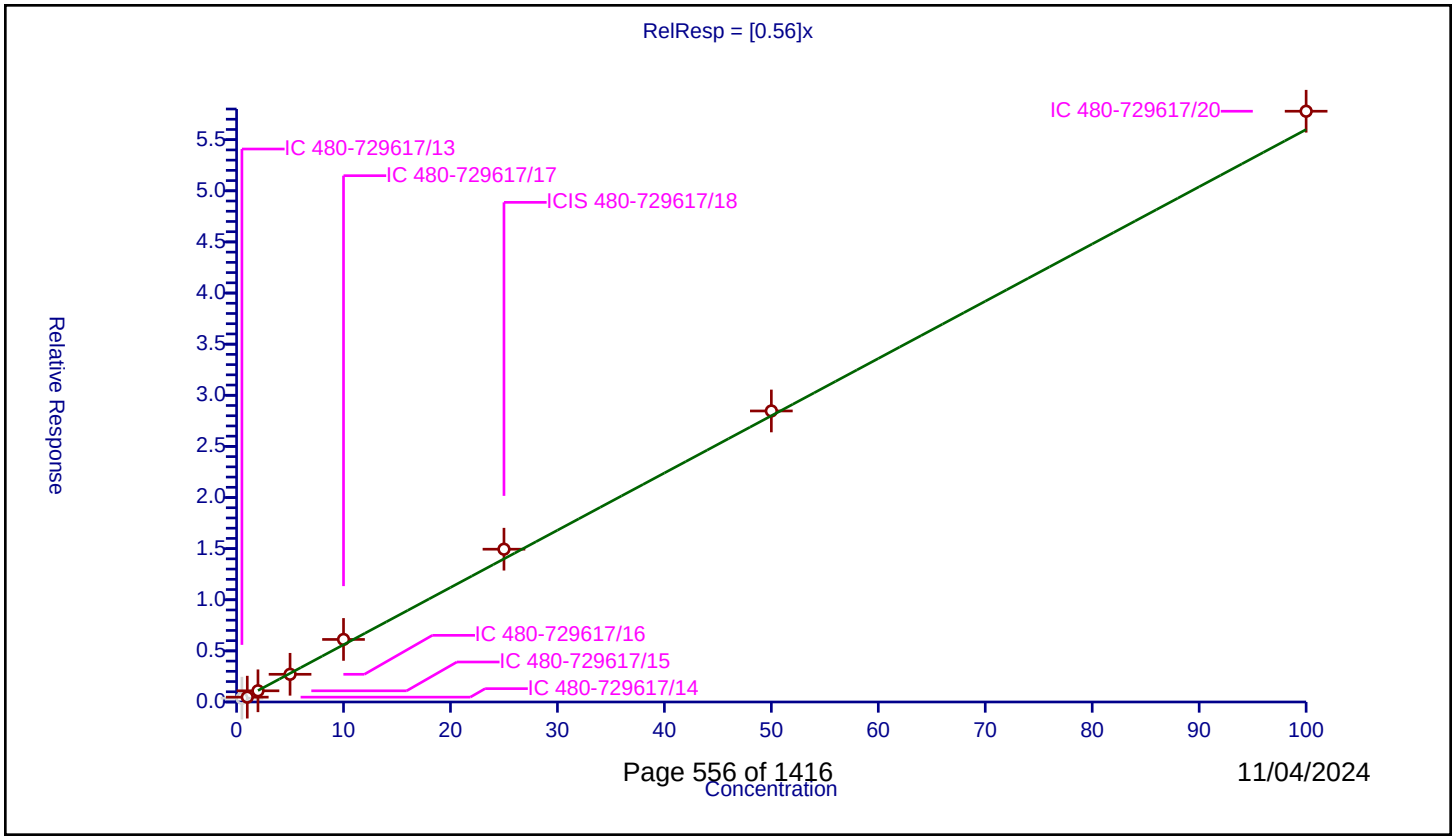
Curve Coefficients

Intercept:	0
Slope:	0.56

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.370627	25.0	183473.0	0.741253	N
2	IC 480-729617/14	1.0	0.473426	25.0	190051.0	0.473426	Y
3	IC 480-729617/15	2.0	1.09528	25.0	182305.0	0.54764	Y
4	IC 480-729617/16	5.0	2.709607	25.0	187887.0	0.541921	Y
5	IC 480-729617/17	10.0	6.117924	25.0	172865.0	0.611792	Y
6	ICIS 480-729617/18	25.0	14.944034	25.0	186096.0	0.597761	Y
7	IC 480-729617/19	50.0	28.465555	25.0	193930.0	0.569311	Y
8	IC 480-729617/20	100.0	57.782299	25.0	192925.0	0.577823	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

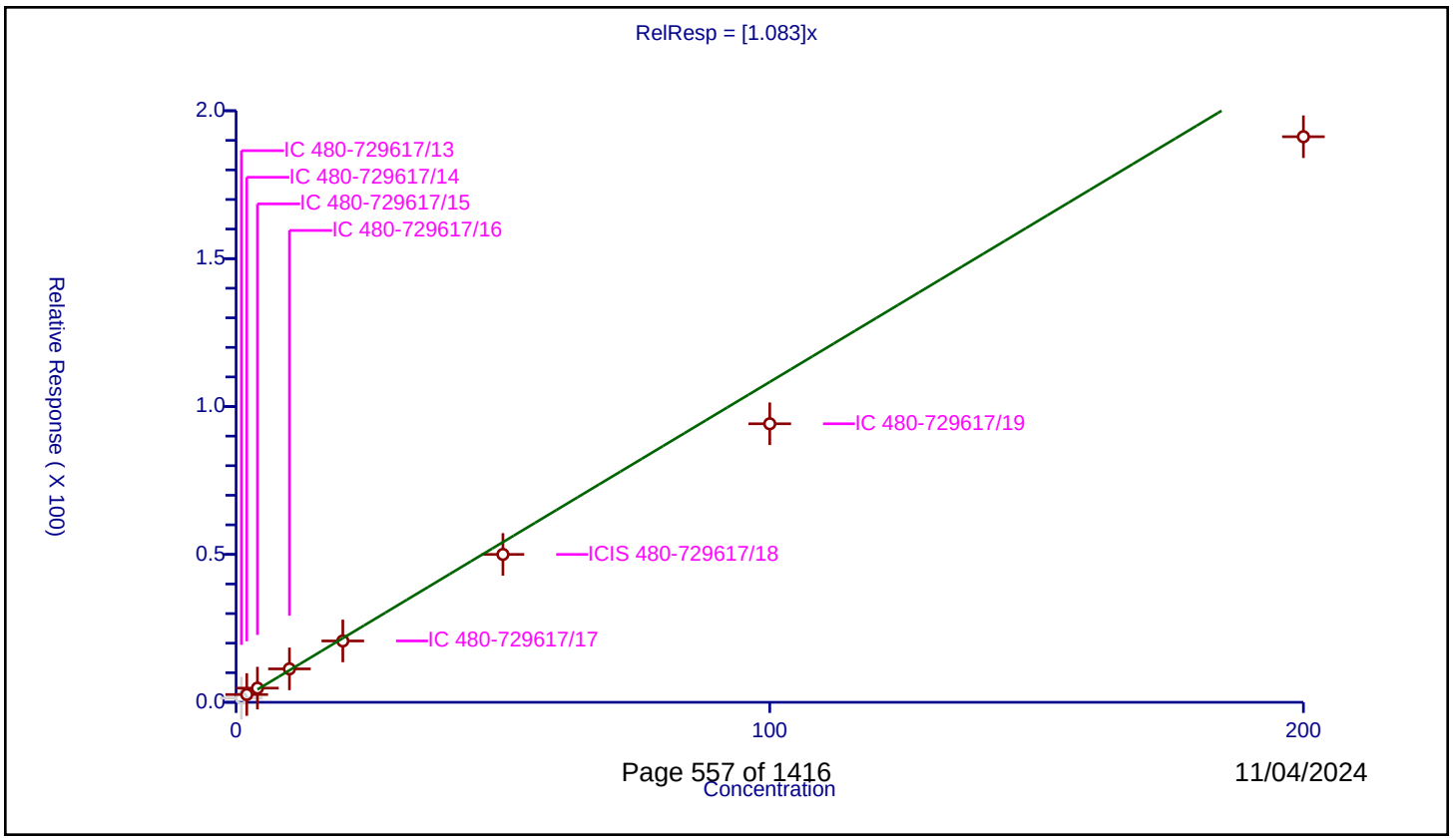
Curve Coefficients

Intercept:	0
Slope:	1.083

Error Coefficients

Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	1.0	1.432363	25.0	183473.0	1.432363	N
2	IC 480-729617/14	2.0	2.634161	25.0	190051.0	1.317081	Y
3	IC 480-729617/15	4.0	4.795946	25.0	182305.0	1.198987	Y
4	IC 480-729617/16	10.0	11.302139	25.0	187887.0	1.130214	Y
5	IC 480-729617/17	20.0	20.741475	25.0	172865.0	1.037074	Y
6	ICIS 480-729617/18	50.0	50.002821	25.0	186096.0	1.000056	Y
7	IC 480-729617/19	100.0	94.173155	25.0	193930.0	0.941732	Y
8	IC 480-729617/20	200.0	191.219904	25.0	192925.0	0.9561	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

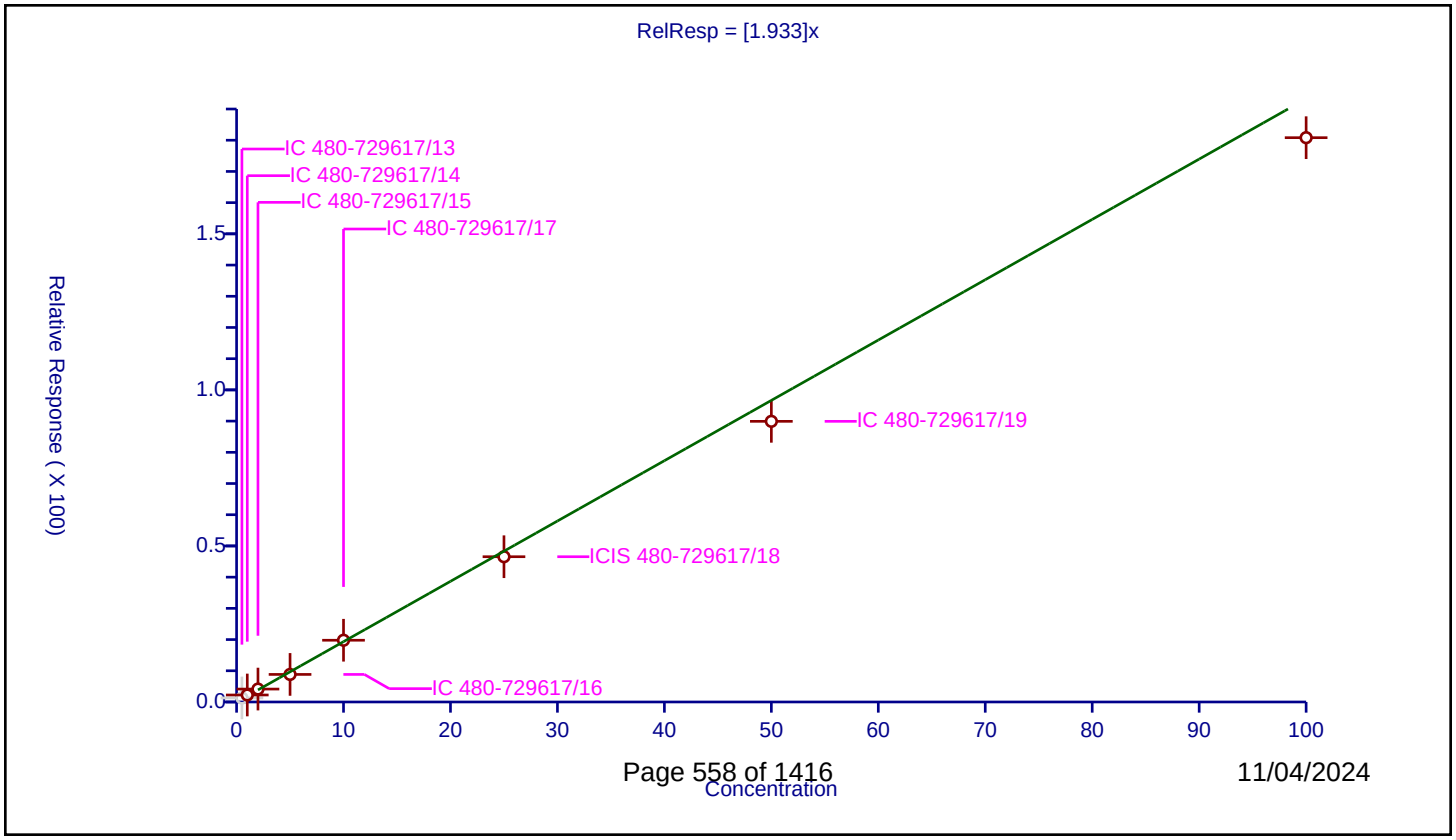
Curve Coefficients

Intercept:	0
Slope:	1.933

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.290517	25.0	183473.0	2.581034	N
2	IC 480-729617/14	1.0	2.246897	25.0	190051.0	2.246897	Y
3	IC 480-729617/15	2.0	4.140589	25.0	182305.0	2.070294	Y
4	IC 480-729617/16	5.0	8.827779	25.0	187887.0	1.765556	Y
5	IC 480-729617/17	10.0	19.784225	25.0	172865.0	1.978422	Y
6	ICIS 480-729617/18	25.0	46.542645	25.0	186096.0	1.861706	Y
7	IC 480-729617/19	50.0	89.923426	25.0	193930.0	1.798469	Y
8	IC 480-729617/20	100.0	180.815861	25.0	192925.0	1.808159	Y



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Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

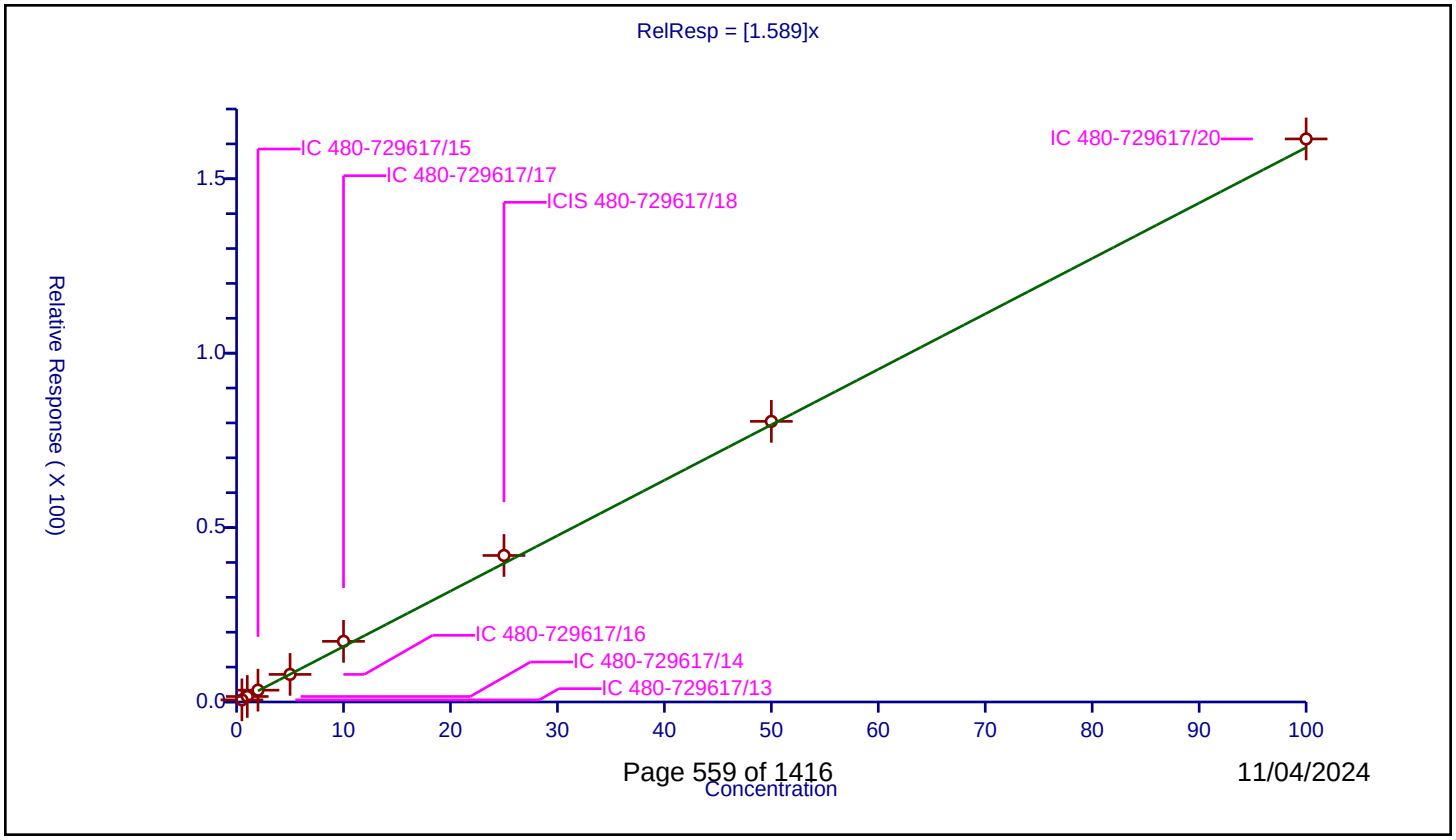
Curve Coefficients

Intercept:	0
Slope:	1.589

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.6084	25.0	183473.0	1.2168	Y
2	IC 480-729617/14	1.0	1.578655	25.0	190051.0	1.578655	Y
3	IC 480-729617/15	2.0	3.390746	25.0	182305.0	1.695373	Y
4	IC 480-729617/16	5.0	7.910606	25.0	187887.0	1.582121	Y
5	IC 480-729617/17	10.0	17.392474	25.0	172865.0	1.739247	Y
6	ICIS 480-729617/18	25.0	42.008426	25.0	186096.0	1.680337	Y
7	IC 480-729617/19	50.0	80.455577	25.0	193930.0	1.609112	Y
8	IC 480-729617/20	100.0	161.422833	25.0	192925.0	1.614228	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

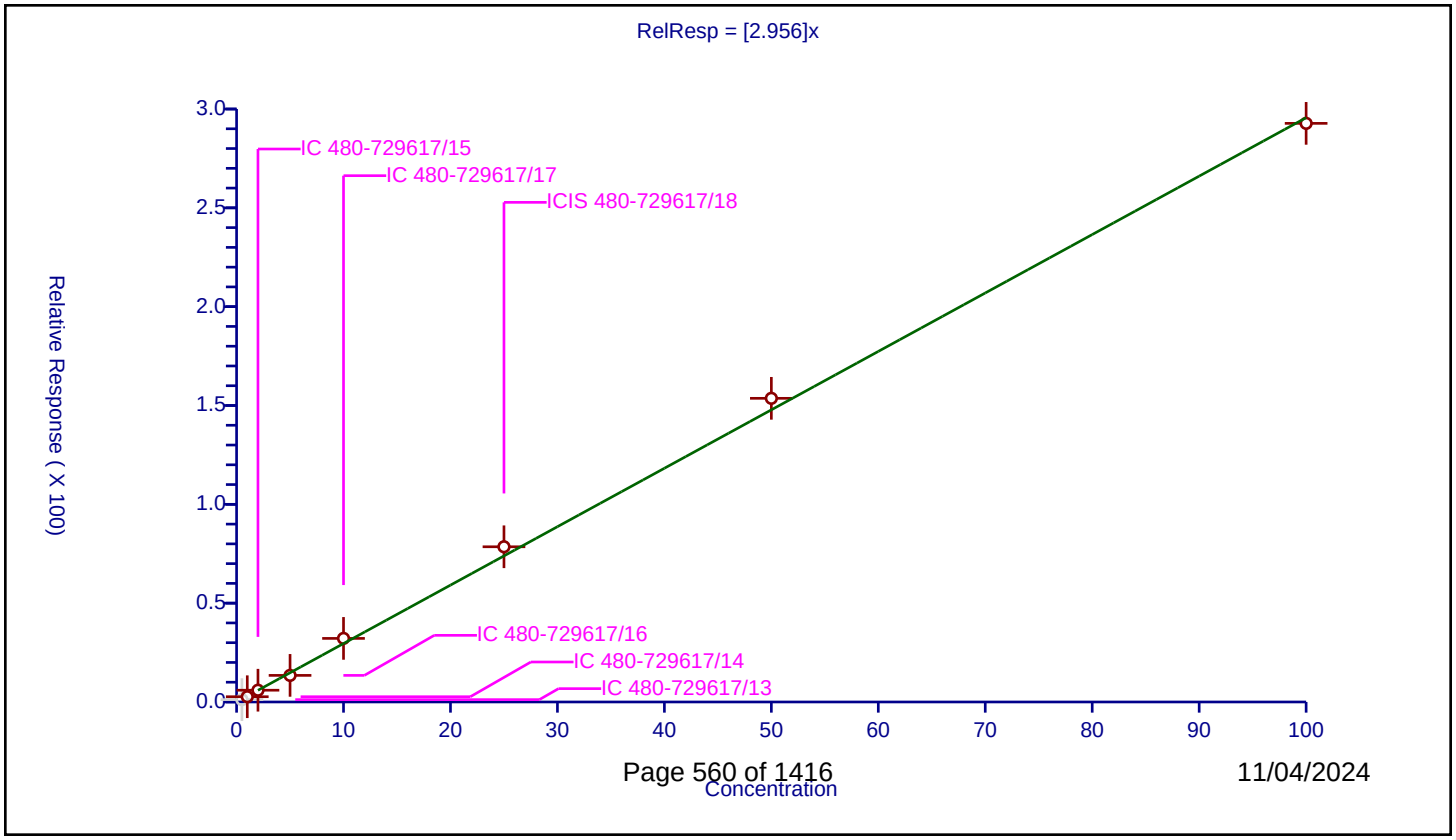
Curve Coefficients

Intercept:	0
Slope:	2.956

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.187368	25.0	183473.0	2.374736	N
2	IC 480-729617/14	1.0	2.668757	25.0	190051.0	2.668757	Y
3	IC 480-729617/15	2.0	5.950605	25.0	182305.0	2.975302	Y
4	IC 480-729617/16	5.0	13.452102	25.0	187887.0	2.69042	Y
5	IC 480-729617/17	10.0	32.164117	25.0	172865.0	3.216412	Y
6	ICIS 480-729617/18	25.0	78.521973	25.0	186096.0	3.140879	Y
7	IC 480-729617/19	50.0	153.627082	25.0	193930.0	3.072542	Y
8	IC 480-729617/20	100.0	292.738759	25.0	192925.0	2.927388	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

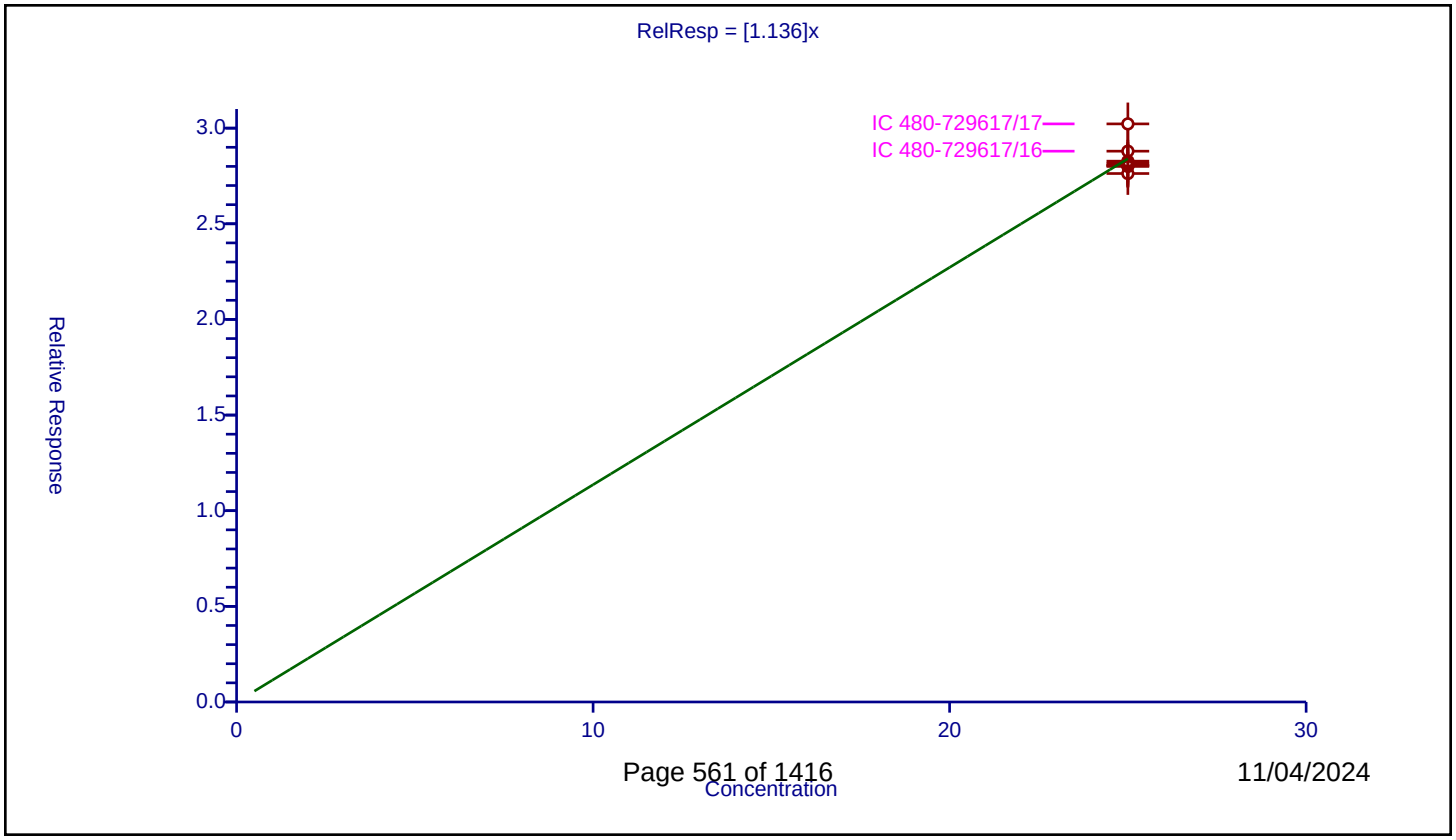
Curve Coefficients

Intercept:	0
Slope:	1.136

Error Coefficients

Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	25.0	27.626953	25.0	183473.0	1.105078	Y
2	IC 480-729617/14	25.0	28.160599	25.0	190051.0	1.126424	Y
3	IC 480-729617/15	25.0	28.071638	25.0	182305.0	1.122866	Y
4	IC 480-729617/16	25.0	28.796564	25.0	187887.0	1.151863	Y
5	IC 480-729617/17	25.0	30.222717	25.0	172865.0	1.208909	Y
6	ICIS 480-729617/18	25.0	28.27452	25.0	186096.0	1.130981	Y
7	IC 480-729617/19	25.0	27.998376	25.0	193930.0	1.119935	Y
8	IC 480-729617/20	25.0	28.04367	25.0	192925.0	1.121747	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

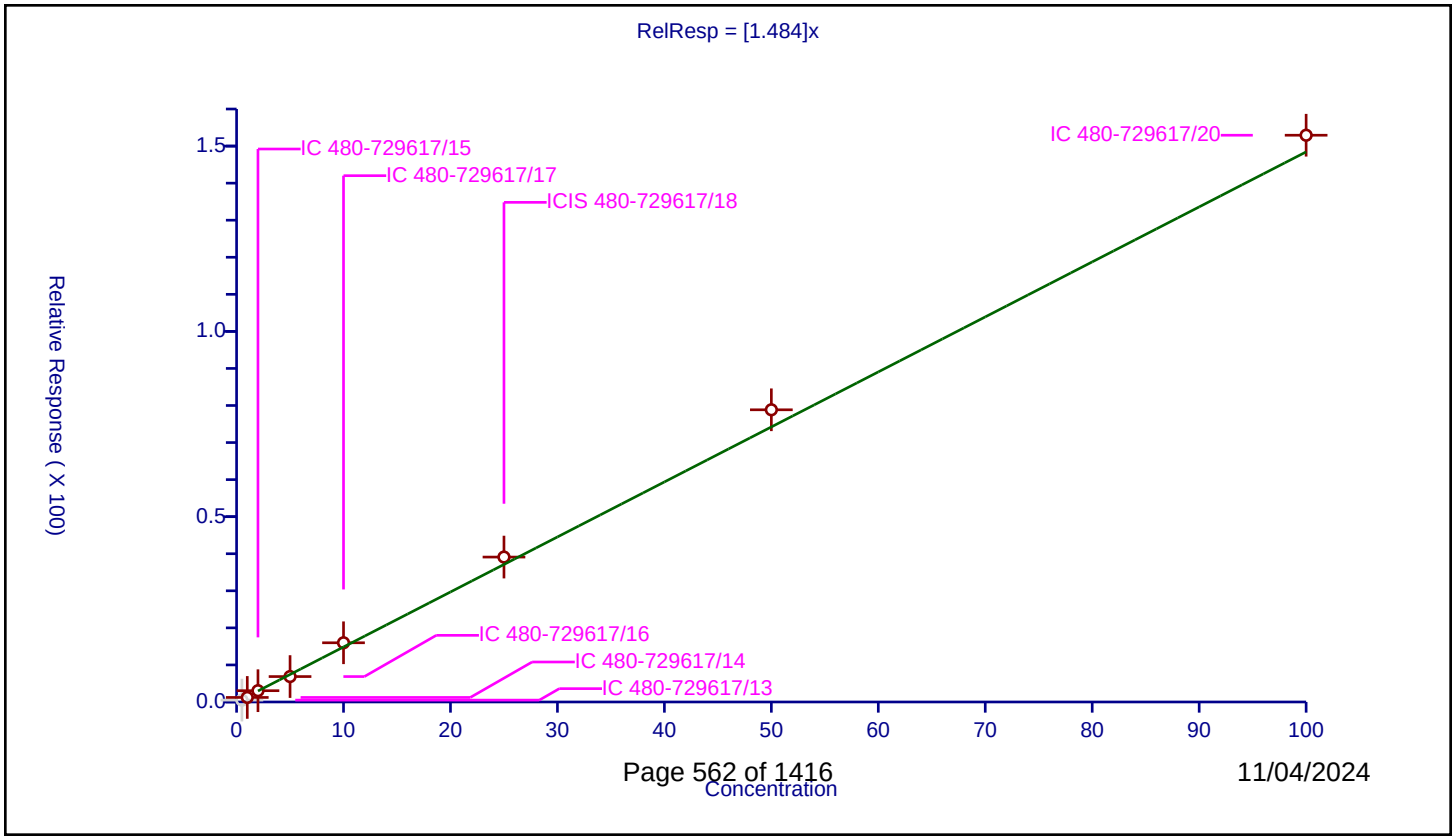
Curve Coefficients

Intercept:	0
Slope:	1.484

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.508113	25.0	183473.0	1.016226	N
2	IC 480-729617/14	1.0	1.227039	25.0	190051.0	1.227039	Y
3	IC 480-729617/15	2.0	3.045583	25.0	182305.0	1.522791	Y
4	IC 480-729617/16	5.0	6.862636	25.0	187887.0	1.372527	Y
5	IC 480-729617/17	10.0	15.975472	25.0	172865.0	1.597547	Y
6	ICIS 480-729617/18	25.0	39.105892	25.0	186096.0	1.564236	Y
7	IC 480-729617/19	50.0	78.842624	25.0	193930.0	1.576852	Y
8	IC 480-729617/20	100.0	152.926526	25.0	192925.0	1.529265	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

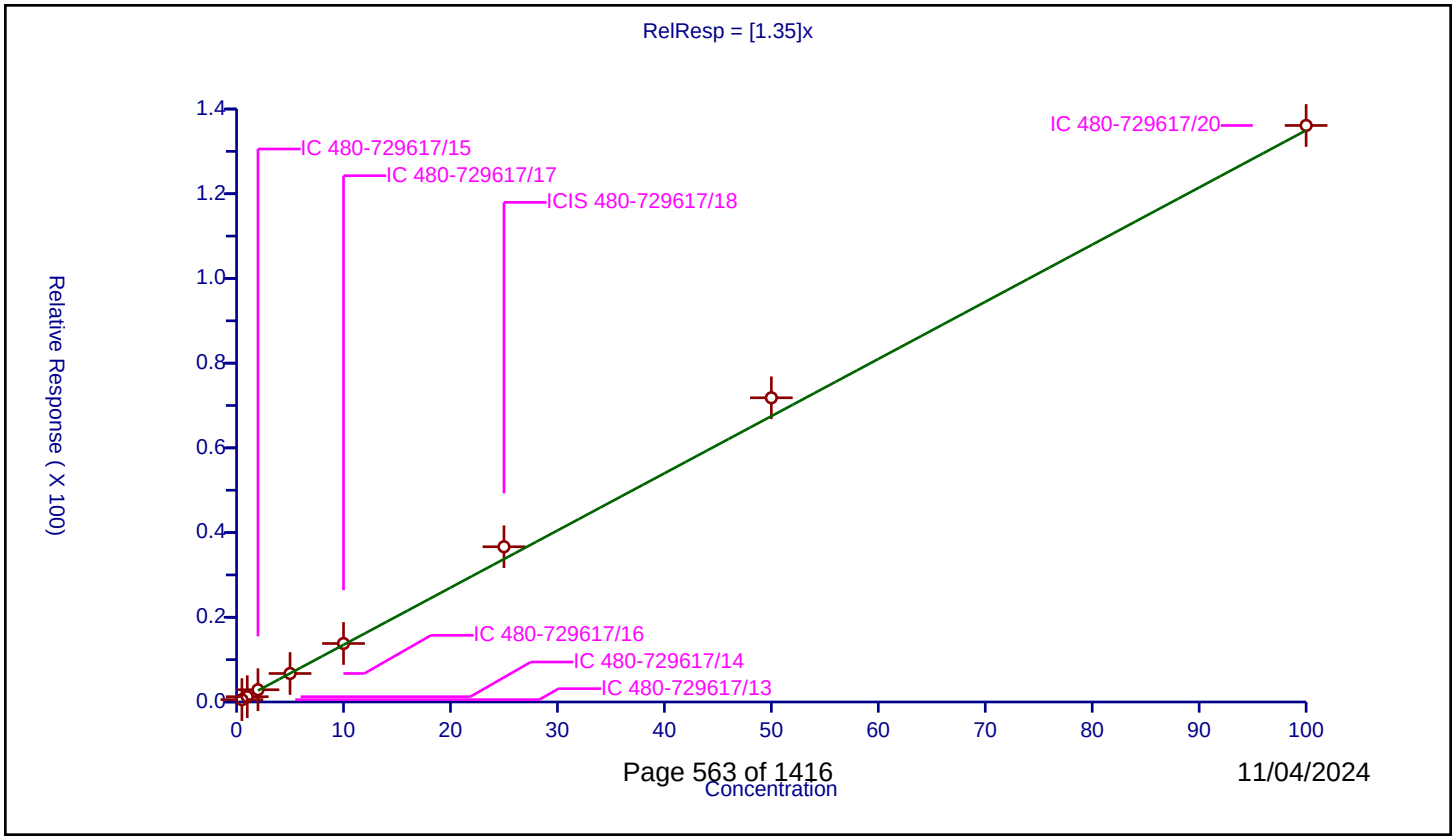
Curve Coefficients

Intercept:	0
Slope:	1.35

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.554169	25.0	183473.0	1.108337	Y
2	IC 480-729617/14	1.0	1.251375	25.0	190051.0	1.251375	Y
3	IC 480-729617/15	2.0	2.896108	25.0	182305.0	1.448054	Y
4	IC 480-729617/16	5.0	6.72625	25.0	187887.0	1.34525	Y
5	IC 480-729617/17	10.0	13.808463	25.0	172865.0	1.380846	Y
6	ICIS 480-729617/18	25.0	36.651245	25.0	186096.0	1.46605	Y
7	IC 480-729617/19	50.0	71.822307	25.0	193930.0	1.436446	Y
8	IC 480-729617/20	100.0	136.114293	25.0	192925.0	1.361143	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

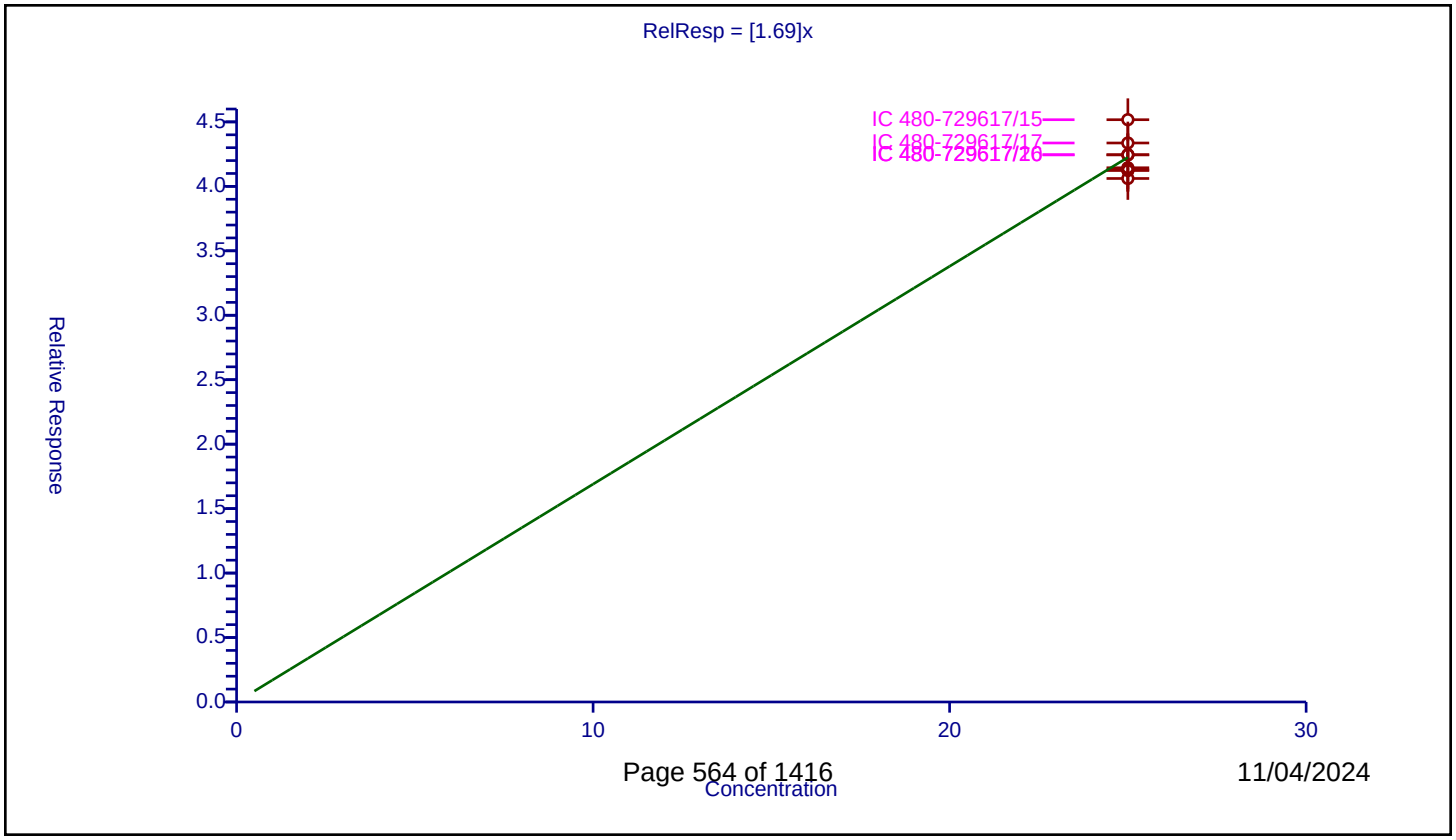
Curve Coefficients

Intercept:	0
Slope:	1.69

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	25.0	41.441793	25.0	183473.0	1.657672	Y
2	IC 480-729617/14	25.0	41.269317	25.0	190051.0	1.650773	Y
3	IC 480-729617/15	25.0	45.171279	25.0	182305.0	1.806851	Y
4	IC 480-729617/16	25.0	42.447189	25.0	187887.0	1.697888	Y
5	IC 480-729617/17	25.0	43.364041	25.0	172865.0	1.734562	Y
6	ICIS 480-729617/18	25.0	40.610894	25.0	186096.0	1.624436	Y
7	IC 480-729617/19	25.0	41.233564	25.0	193930.0	1.649343	Y
8	IC 480-729617/20	25.0	42.447583	25.0	192925.0	1.697903	Y



11/04/2024

Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

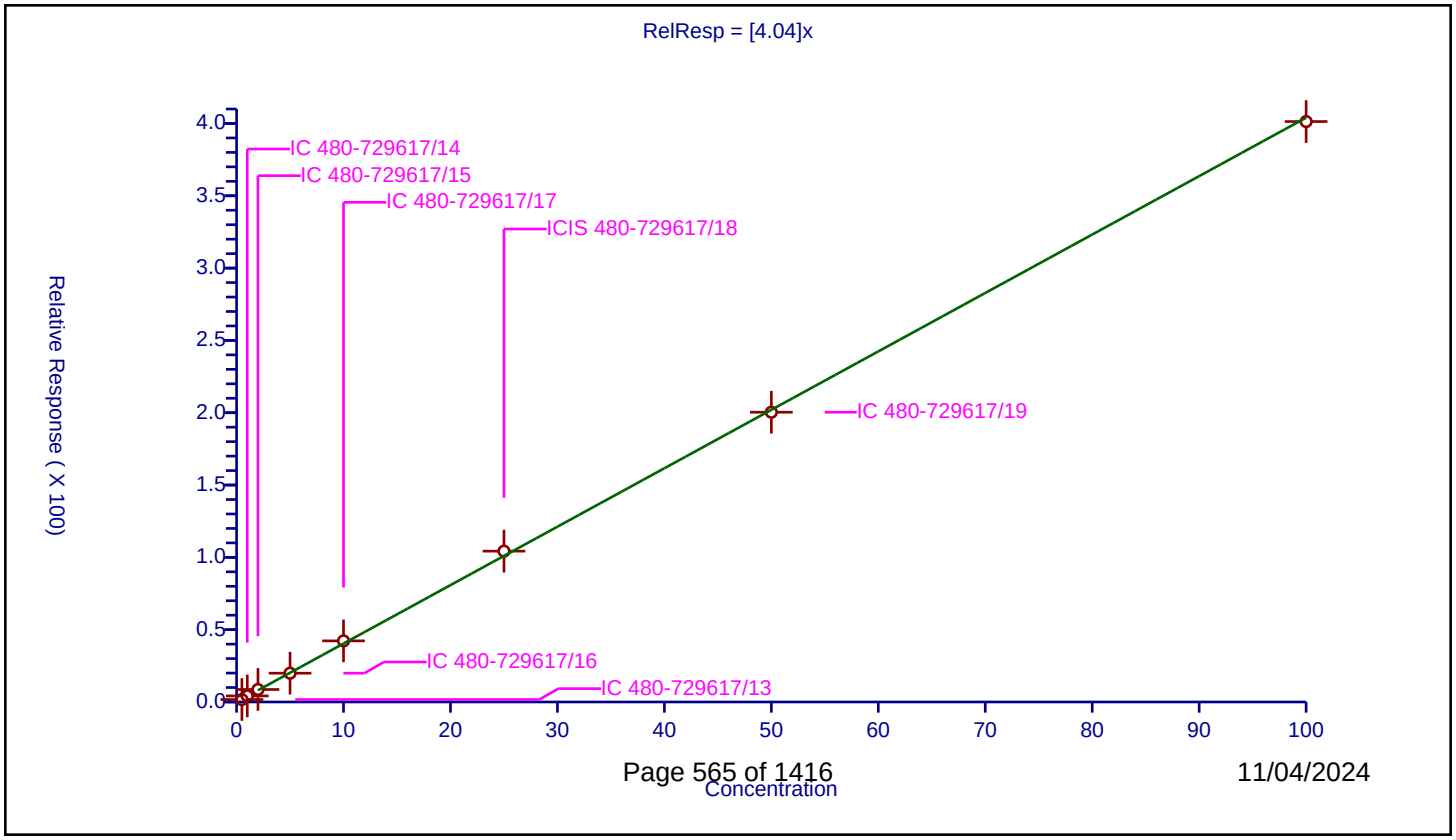
Curve Coefficients

Intercept:	0
Slope:	4.04

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.705701	25.0	183473.0	3.411401	Y
2	IC 480-729617/14	1.0	4.19177	25.0	190051.0	4.19177	Y
3	IC 480-729617/15	2.0	8.637585	25.0	182305.0	4.318793	Y
4	IC 480-729617/16	5.0	19.8964	25.0	187887.0	3.97928	Y
5	IC 480-729617/17	10.0	42.258988	25.0	172865.0	4.225899	Y
6	ICIS 480-729617/18	25.0	104.292811	25.0	186096.0	4.171712	Y
7	IC 480-729617/19	50.0	200.356959	25.0	193930.0	4.007139	Y
8	IC 480-729617/20	100.0	401.338214	25.0	192925.0	4.013382	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

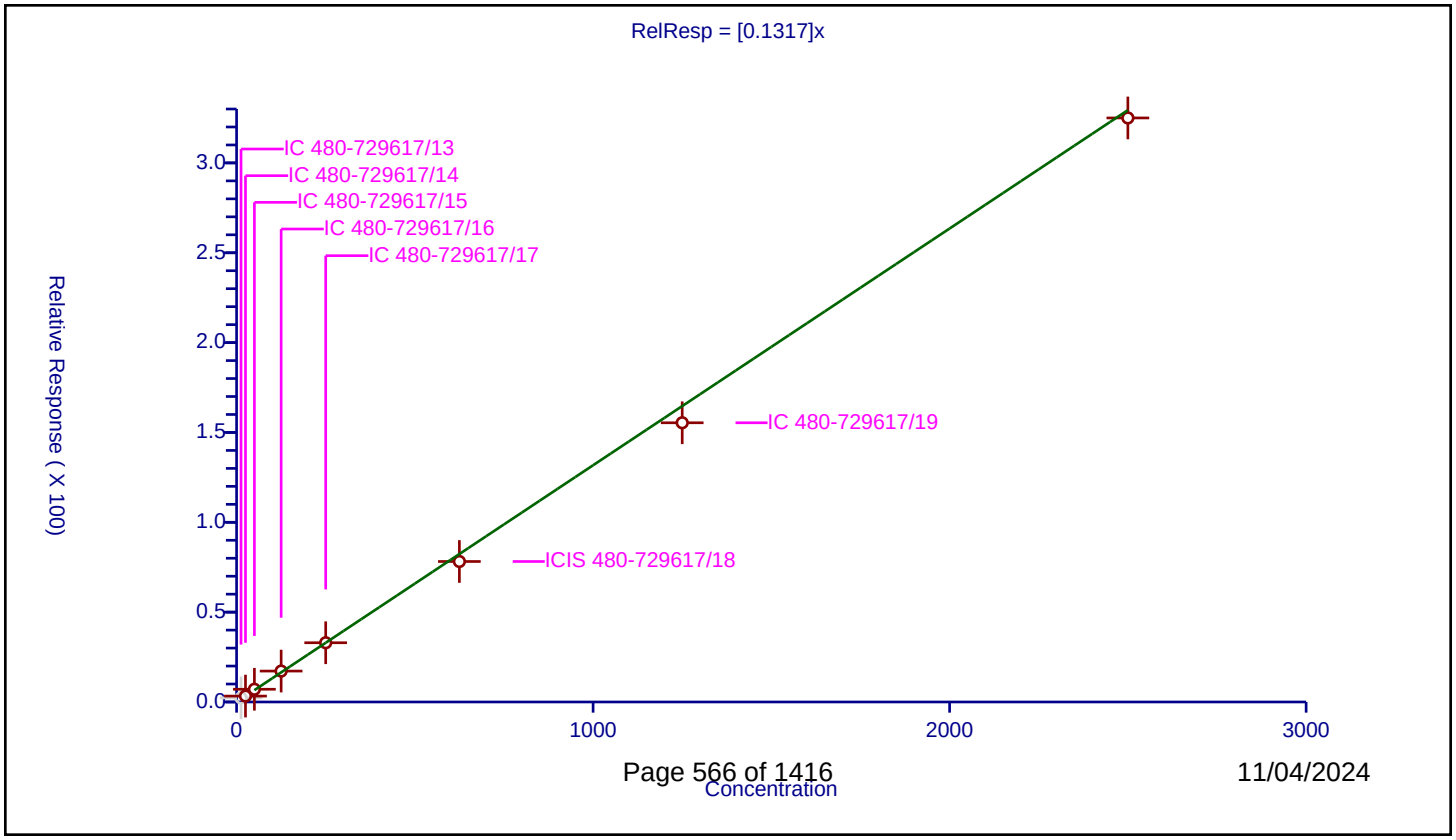
Curve Coefficients

Intercept:	0
Slope:	0.1317

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	12.5	2.286304	25.0	183473.0	0.182904	N
2	IC 480-729617/14	25.0	3.294247	25.0	190051.0	0.13177	Y
3	IC 480-729617/15	50.0	7.078934	25.0	182305.0	0.141579	Y
4	IC 480-729617/16	125.0	17.200232	25.0	187887.0	0.137602	Y
5	IC 480-729617/17	250.0	32.964018	25.0	172865.0	0.131856	Y
6	ICIS 480-729617/18	625.0	78.1829	25.0	186096.0	0.125093	Y
7	IC 480-729617/19	1250.0	155.387898	25.0	193930.0	0.12431	Y
8	IC 480-729617/20	2500.0	325.025917	25.0	192925.0	0.13001	Y



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Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

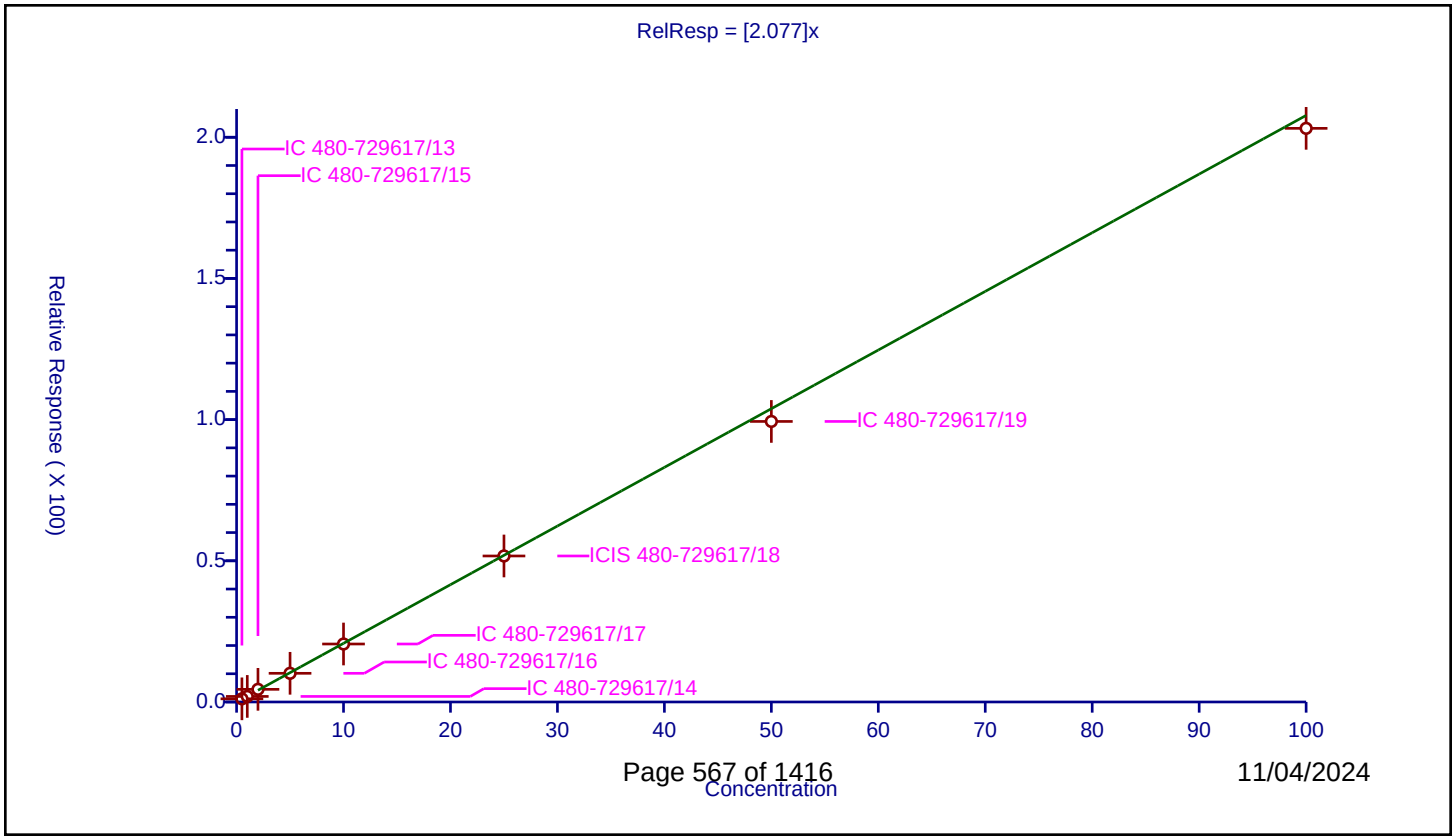
Curve Coefficients

Intercept:	0
Slope:	2.077

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.116513	25.0	183473.0	2.233026	Y
2	IC 480-729617/14	1.0	1.972628	25.0	190051.0	1.972628	Y
3	IC 480-729617/15	2.0	4.483969	25.0	182305.0	2.241985	Y
4	IC 480-729617/16	5.0	10.153044	25.0	187887.0	2.030609	Y
5	IC 480-729617/17	10.0	20.536401	25.0	172865.0	2.05364	Y
6	ICIS 480-729617/18	25.0	51.706243	25.0	186096.0	2.06825	Y
7	IC 480-729617/19	50.0	99.350797	25.0	193930.0	1.987016	Y
8	IC 480-729617/20	100.0	203.157574	25.0	192925.0	2.031576	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

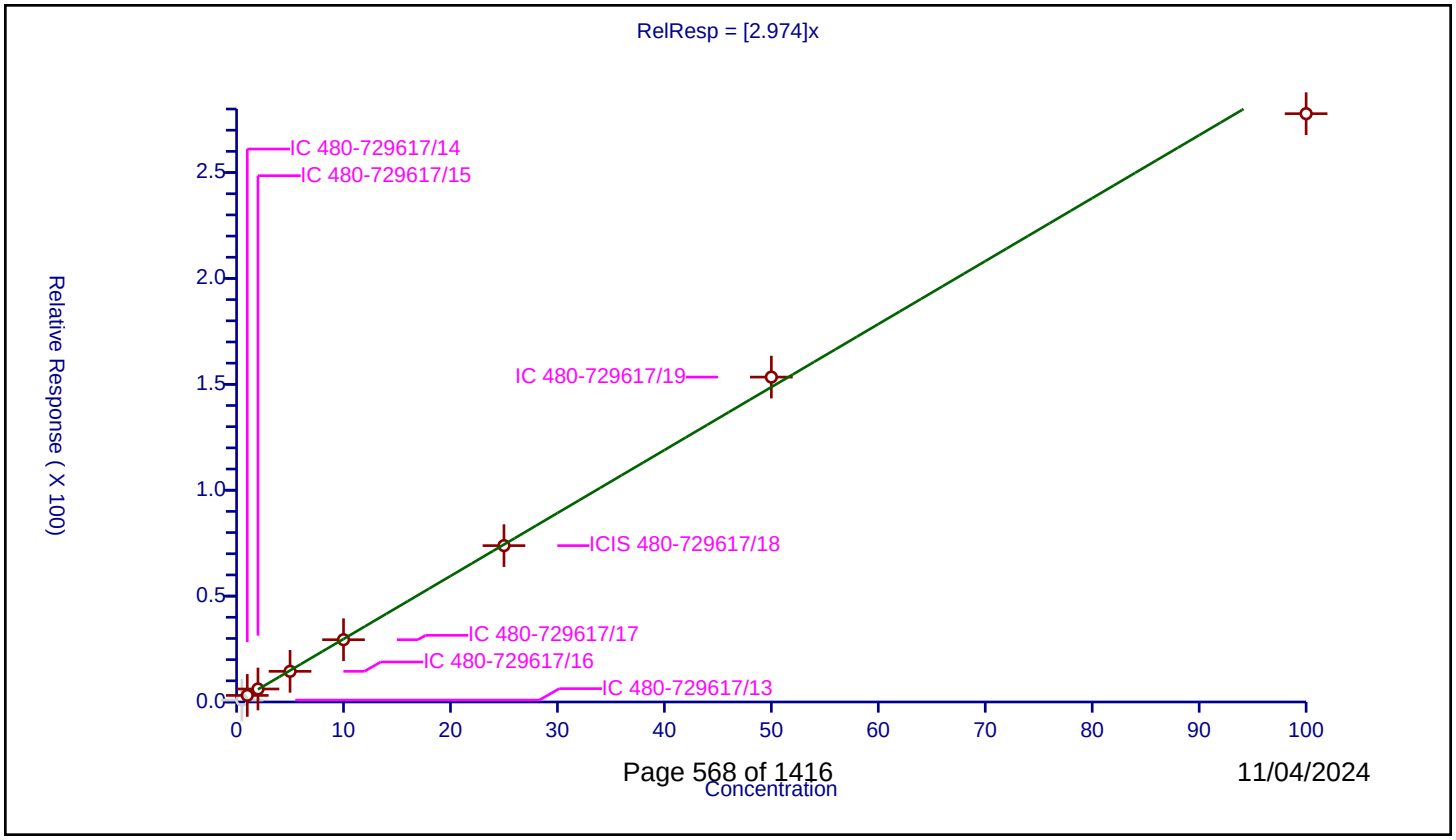
Curve Coefficients

Intercept:	0
Slope:	2.974

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.89768	25.0	183473.0	1.79536	N
2	IC 480-729617/14	1.0	3.109165	25.0	190051.0	3.109165	Y
3	IC 480-729617/15	2.0	6.141082	25.0	182305.0	3.070541	Y
4	IC 480-729617/16	5.0	14.47998	25.0	187887.0	2.895996	Y
5	IC 480-729617/17	10.0	29.410233	25.0	172865.0	2.941023	Y
6	ICIS 480-729617/18	25.0	73.838637	25.0	186096.0	2.953545	Y
7	IC 480-729617/19	50.0	153.418759	25.0	193930.0	3.068375	Y
8	IC 480-729617/20	100.0	277.8007	25.0	192925.0	2.778007	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

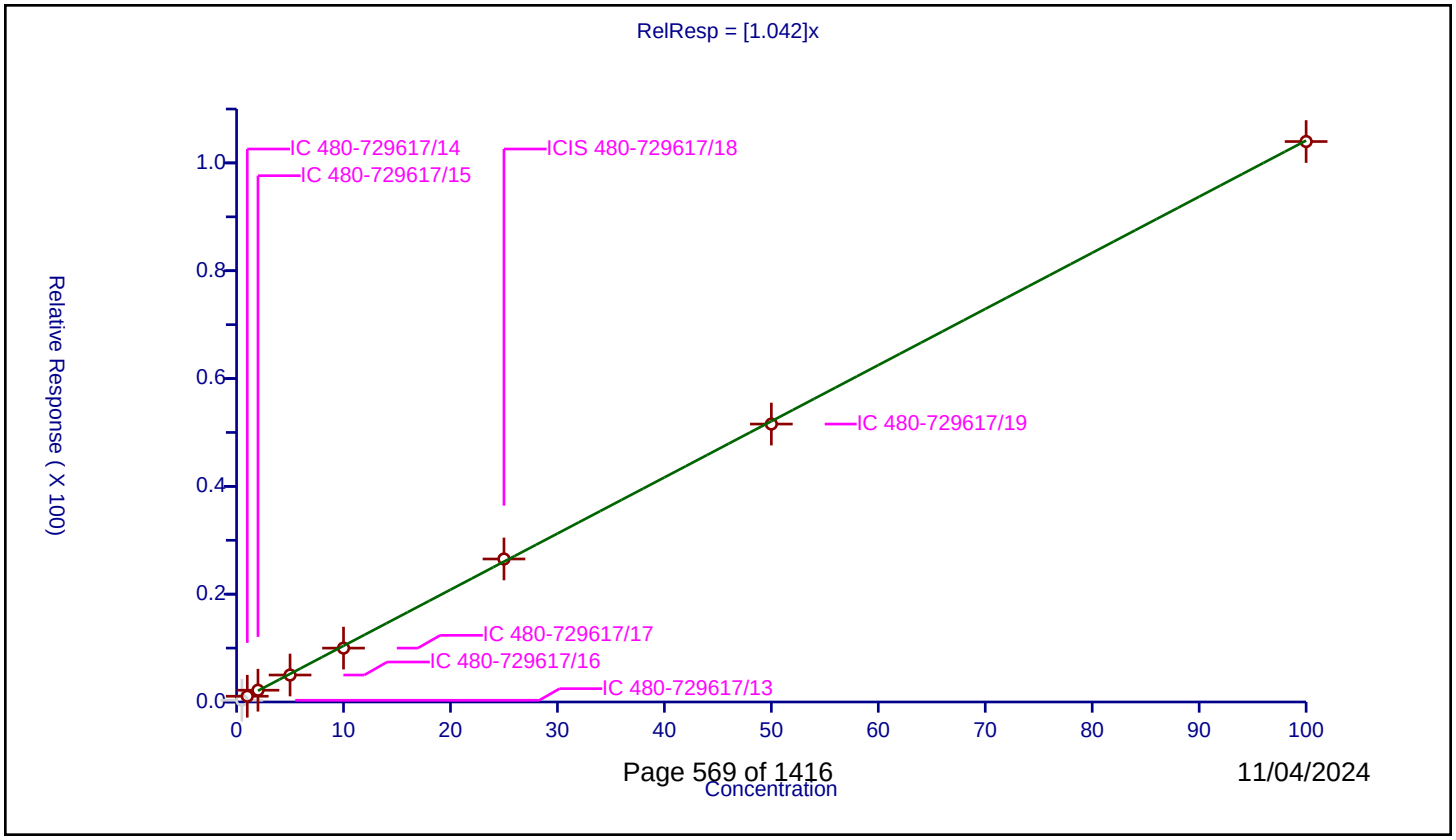
Curve Coefficients

Intercept:	0
Slope:	1.042

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.319938	25.0	183473.0	0.639876	N
2	IC 480-729617/14	1.0	1.067082	25.0	190051.0	1.067082	Y
3	IC 480-729617/15	2.0	2.183017	25.0	182305.0	1.091509	Y
4	IC 480-729617/16	5.0	5.002608	25.0	187887.0	1.000522	Y
5	IC 480-729617/17	10.0	9.996529	25.0	172865.0	0.999653	Y
6	ICIS 480-729617/18	25.0	26.525557	25.0	186096.0	1.061022	Y
7	IC 480-729617/19	50.0	51.55997	25.0	193930.0	1.031199	Y
8	IC 480-729617/20	100.0	103.969029	25.0	192925.0	1.03969	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

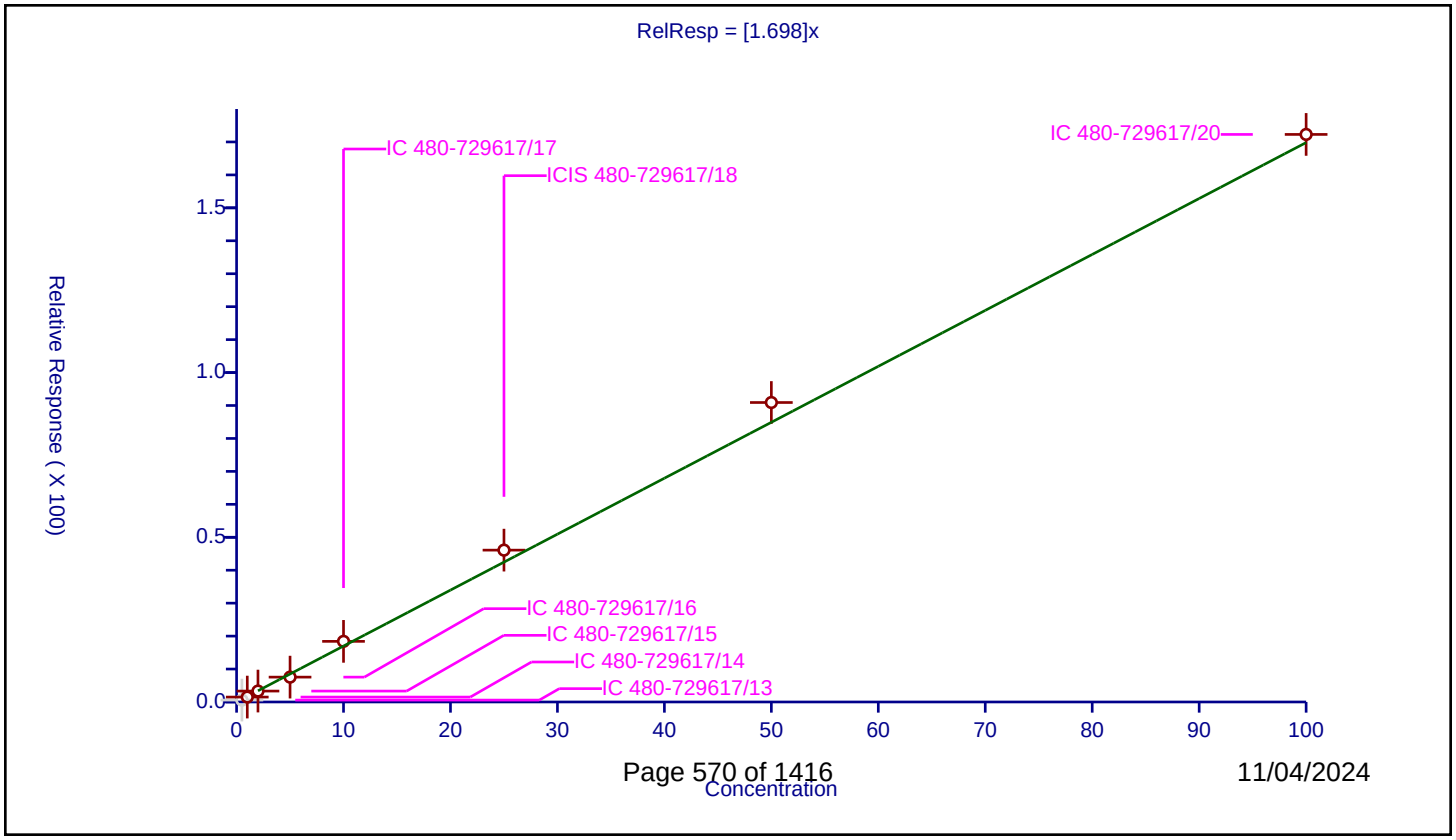
Curve Coefficients

Intercept:	0
Slope:	1.698

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.575425	25.0	183473.0	1.150851	N
2	IC 480-729617/14	1.0	1.495257	25.0	190051.0	1.495257	Y
3	IC 480-729617/15	2.0	3.311895	25.0	182305.0	1.655947	Y
4	IC 480-729617/16	5.0	7.55148	25.0	187887.0	1.510296	Y
5	IC 480-729617/17	10.0	18.405403	25.0	172865.0	1.84054	Y
6	ICIS 480-729617/18	25.0	46.095026	25.0	186096.0	1.843801	Y
7	IC 480-729617/19	50.0	90.906384	25.0	193930.0	1.818128	Y
8	IC 480-729617/20	100.0	172.282104	25.0	192925.0	1.722821	Y



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Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

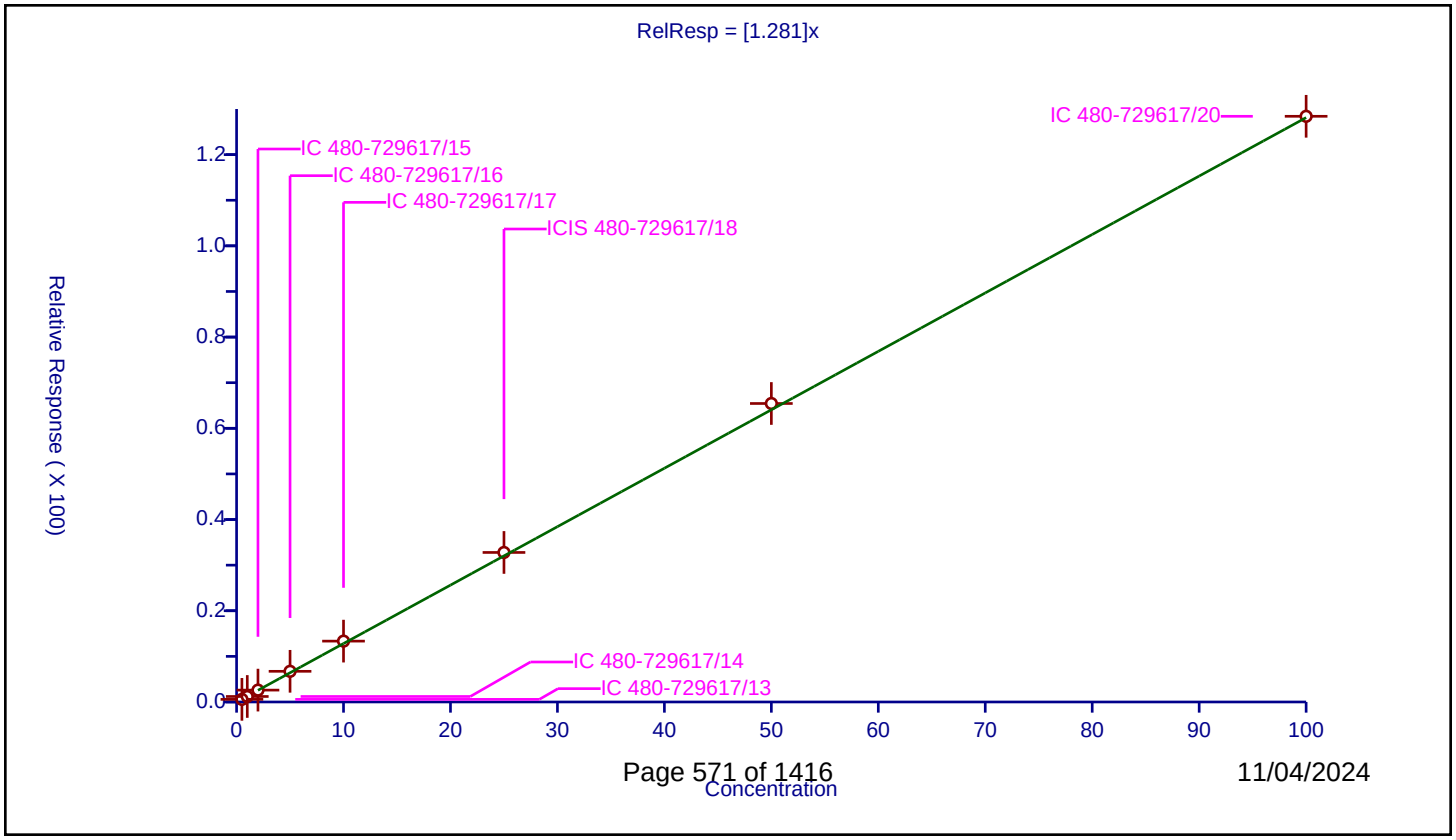
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.577605	25.0	183473.0	1.155211	Y
2	IC 480-729617/14	1.0	1.207439	25.0	190051.0	1.207439	Y
3	IC 480-729617/15	2.0	2.606895	25.0	182305.0	1.303448	Y
4	IC 480-729617/16	5.0	6.724254	25.0	187887.0	1.344851	Y
5	IC 480-729617/17	10.0	13.341191	25.0	172865.0	1.334119	Y
6	ICIS 480-729617/18	25.0	32.782542	25.0	186096.0	1.311302	Y
7	IC 480-729617/19	50.0	65.439205	25.0	193930.0	1.308784	Y
8	IC 480-729617/20	100.0	128.401451	25.0	192925.0	1.284015	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

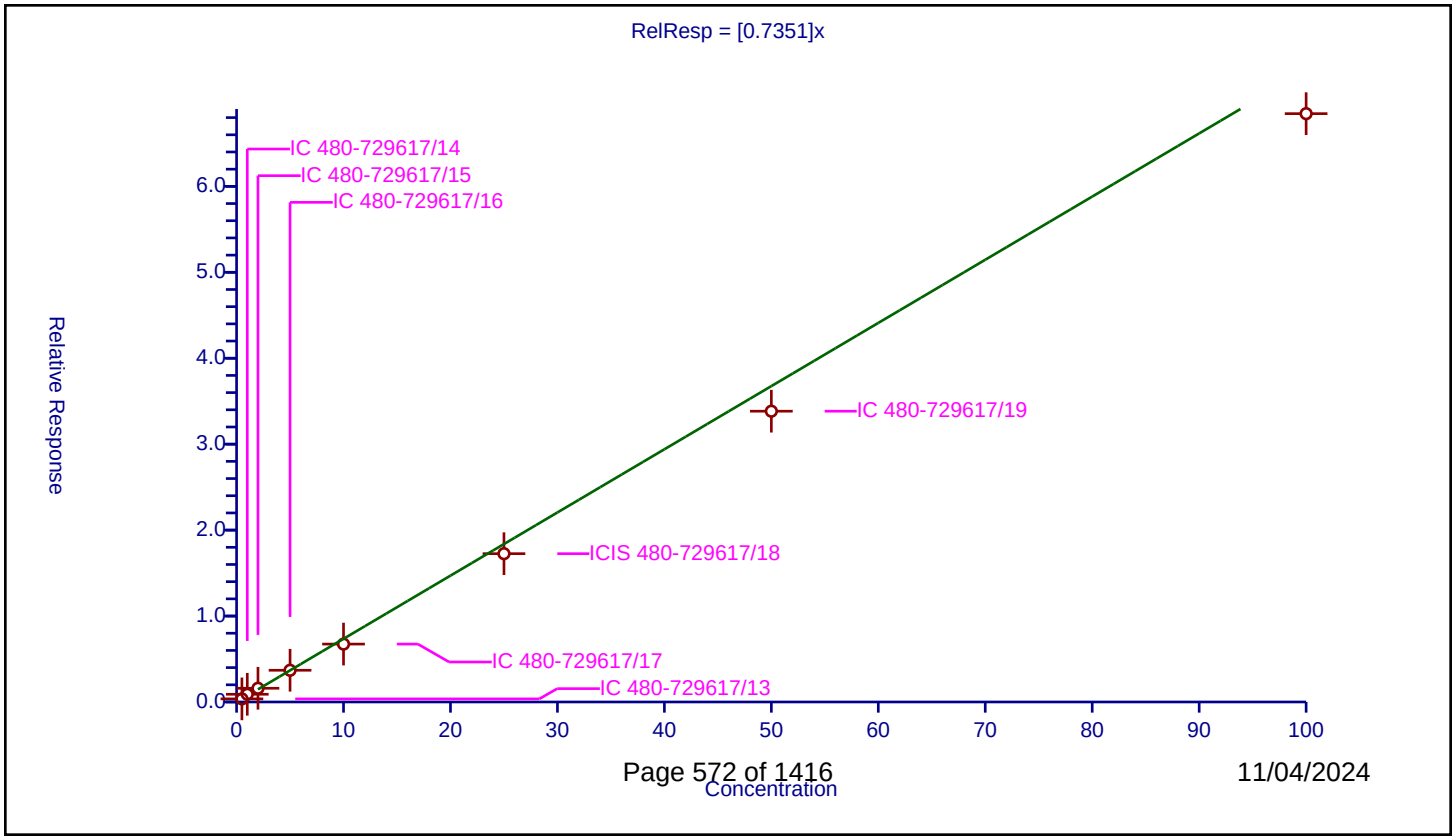
Curve Coefficients

Intercept:	0
Slope:	0.7351

Error Coefficients

Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.36068	25.0	183473.0	0.72136	Y
2	IC 480-729617/14	1.0	0.897128	25.0	190051.0	0.897128	Y
3	IC 480-729617/15	2.0	1.598009	25.0	182305.0	0.799004	Y
4	IC 480-729617/16	5.0	3.689851	25.0	187887.0	0.73797	Y
5	IC 480-729617/17	10.0	6.737628	25.0	172865.0	0.673763	Y
6	ICIS 480-729617/18	25.0	17.257088	25.0	186096.0	0.690284	Y
7	IC 480-729617/19	50.0	33.837467	25.0	193930.0	0.676749	Y
8	IC 480-729617/20	100.0	68.460282	25.0	192925.0	0.684603	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

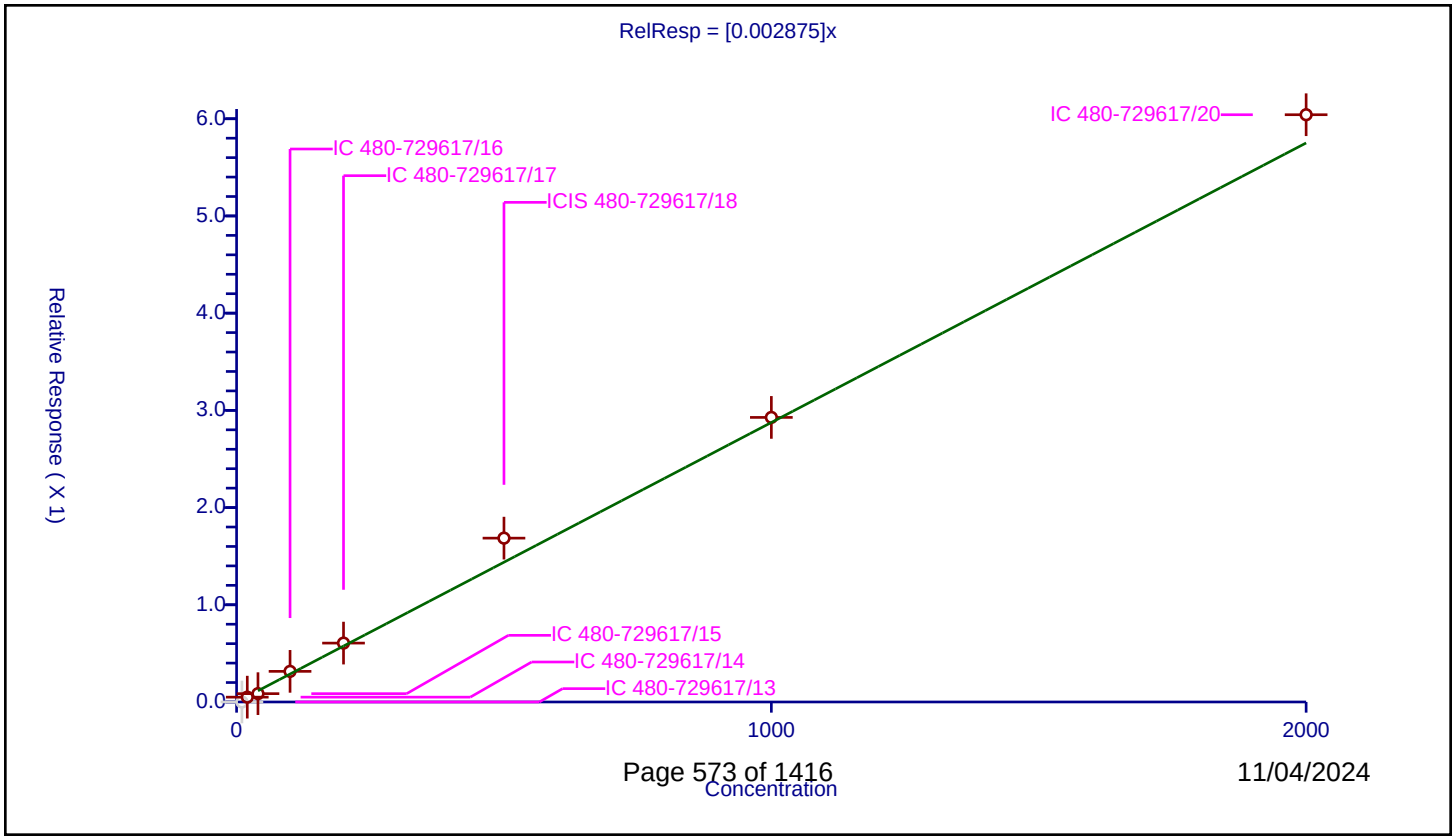
Curve Coefficients

Intercept:	0
Slope:	0.002875

Error Coefficients

Relative Standard Deviation:	14.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	10.0	0.0	25.0	640920.0	0.0	N
2	IC 480-729617/14	20.0	0.049753	25.0	656244.0	0.002488	Y
3	IC 480-729617/15	40.0	0.08566	25.0	648789.0	0.002141	Y
4	IC 480-729617/16	100.0	0.315027	25.0	680417.0	0.00315	Y
5	IC 480-729617/17	200.0	0.605878	25.0	627437.0	0.003029	Y
6	ICIS 480-729617/18	500.0	1.685513	25.0	644937.0	0.003371	Y
7	IC 480-729617/19	1000.0	2.927313	25.0	683861.0	0.002927	Y
8	IC 480-729617/20	2000.0	6.041166	25.0	683407.0	0.003021	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

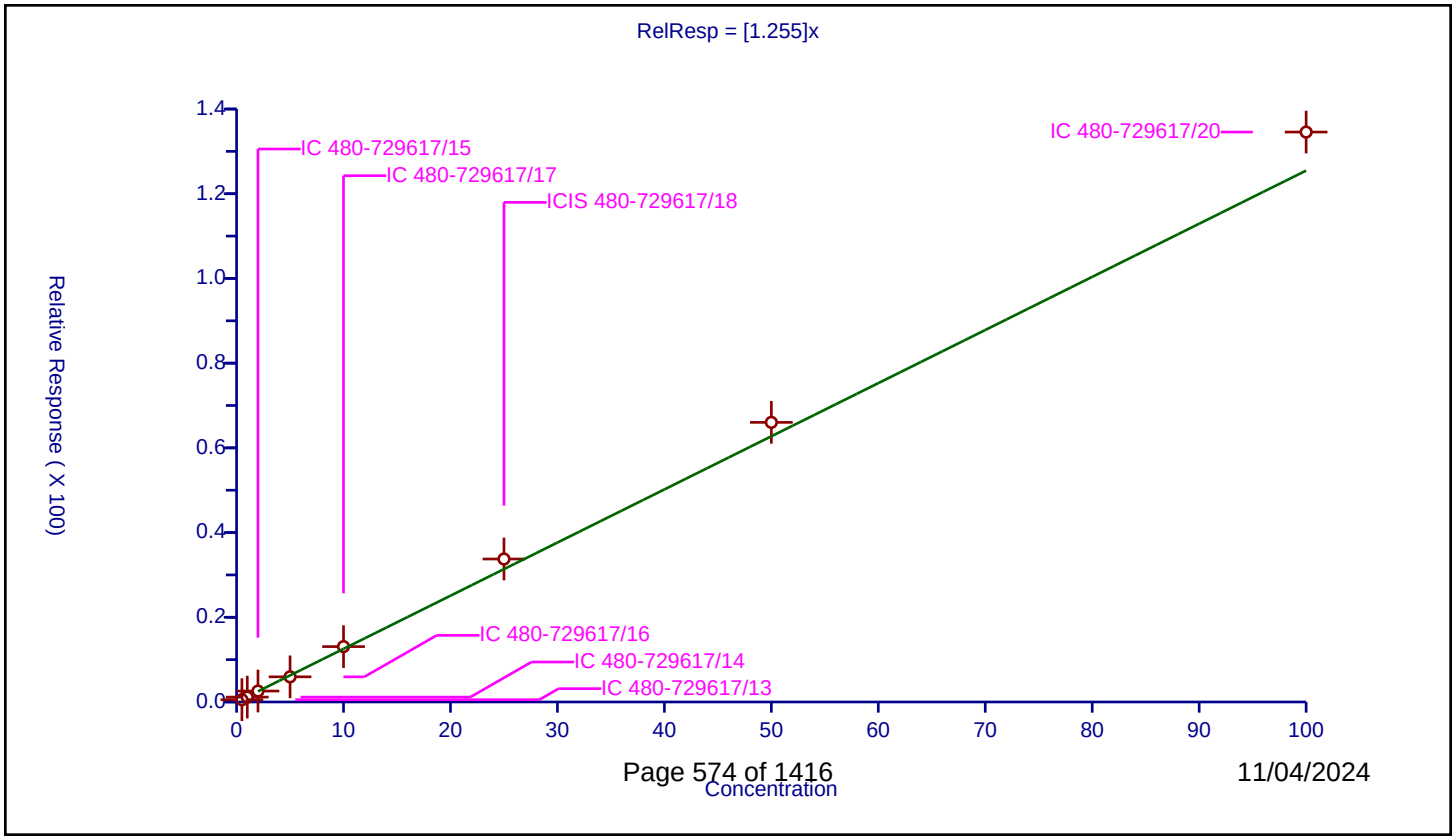
Curve Coefficients

Intercept:	0
Slope:	1.255

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.538635	25.0	183473.0	1.07727	Y
2	IC 480-729617/14	1.0	1.157716	25.0	190051.0	1.157716	Y
3	IC 480-729617/15	2.0	2.581388	25.0	182305.0	1.290694	Y
4	IC 480-729617/16	5.0	5.939607	25.0	187887.0	1.187921	Y
5	IC 480-729617/17	10.0	13.071183	25.0	172865.0	1.307118	Y
6	ICIS 480-729617/18	25.0	33.753412	25.0	186096.0	1.350136	Y
7	IC 480-729617/19	50.0	66.018795	25.0	193930.0	1.320376	Y
8	IC 480-729617/20	100.0	134.557859	25.0	192925.0	1.345579	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

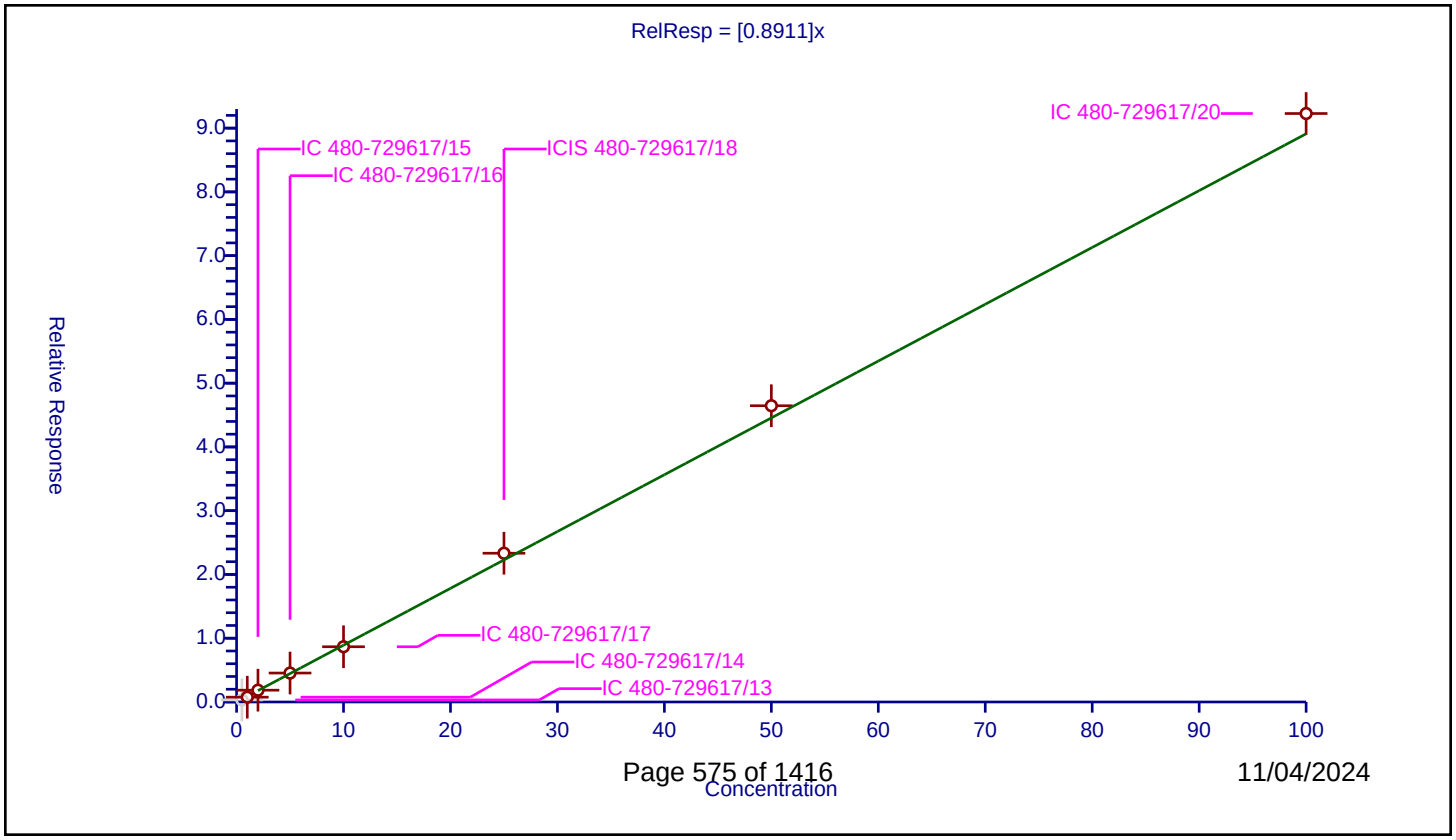
Curve Coefficients

Intercept:	0
Slope:	0.8911

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.322527	25.0	183473.0	0.645054	N
2	IC 480-729617/14	1.0	0.753877	25.0	190051.0	0.753877	Y
3	IC 480-729617/15	2.0	1.848962	25.0	182305.0	0.924481	Y
4	IC 480-729617/16	5.0	4.5381	25.0	187887.0	0.90762	Y
5	IC 480-729617/17	10.0	8.665143	25.0	172865.0	0.866514	Y
6	ICIS 480-729617/18	25.0	23.330969	25.0	186096.0	0.933239	Y
7	IC 480-729617/19	50.0	46.461868	25.0	193930.0	0.929237	Y
8	IC 480-729617/20	100.0	92.291823	25.0	192925.0	0.922918	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

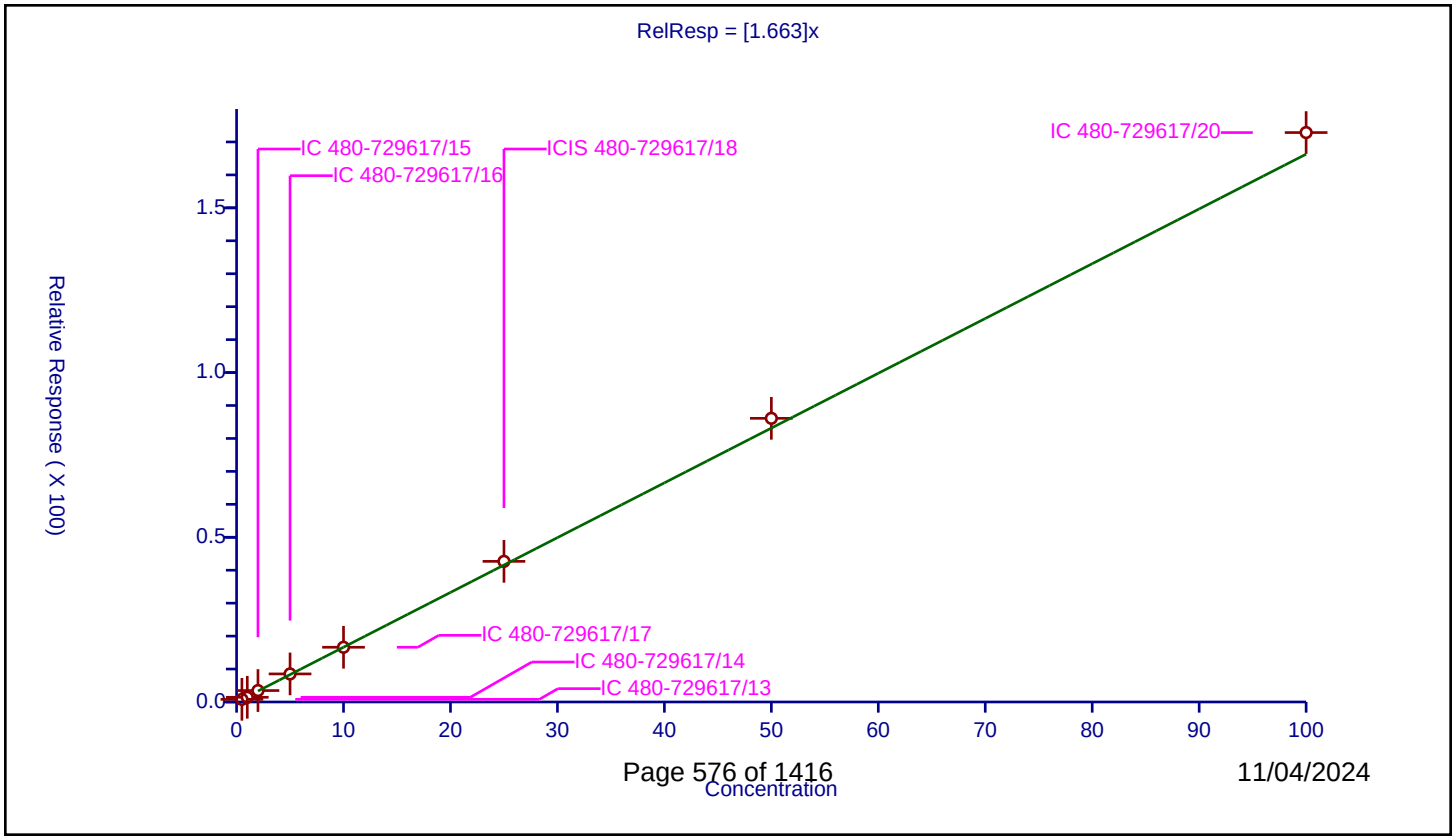
Curve Coefficients

Intercept:	0
Slope:	1.663

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.808157	25.0	183473.0	1.616314	Y
2	IC 480-729617/14	1.0	1.431195	25.0	190051.0	1.431195	Y
3	IC 480-729617/15	2.0	3.465895	25.0	182305.0	1.732948	Y
4	IC 480-729617/16	5.0	8.518152	25.0	187887.0	1.70363	Y
5	IC 480-729617/17	10.0	16.614121	25.0	172865.0	1.661412	Y
6	ICIS 480-729617/18	25.0	42.690063	25.0	186096.0	1.707603	Y
7	IC 480-729617/19	50.0	86.111999	25.0	193930.0	1.72224	Y
8	IC 480-729617/20	100.0	172.853311	25.0	192925.0	1.728533	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

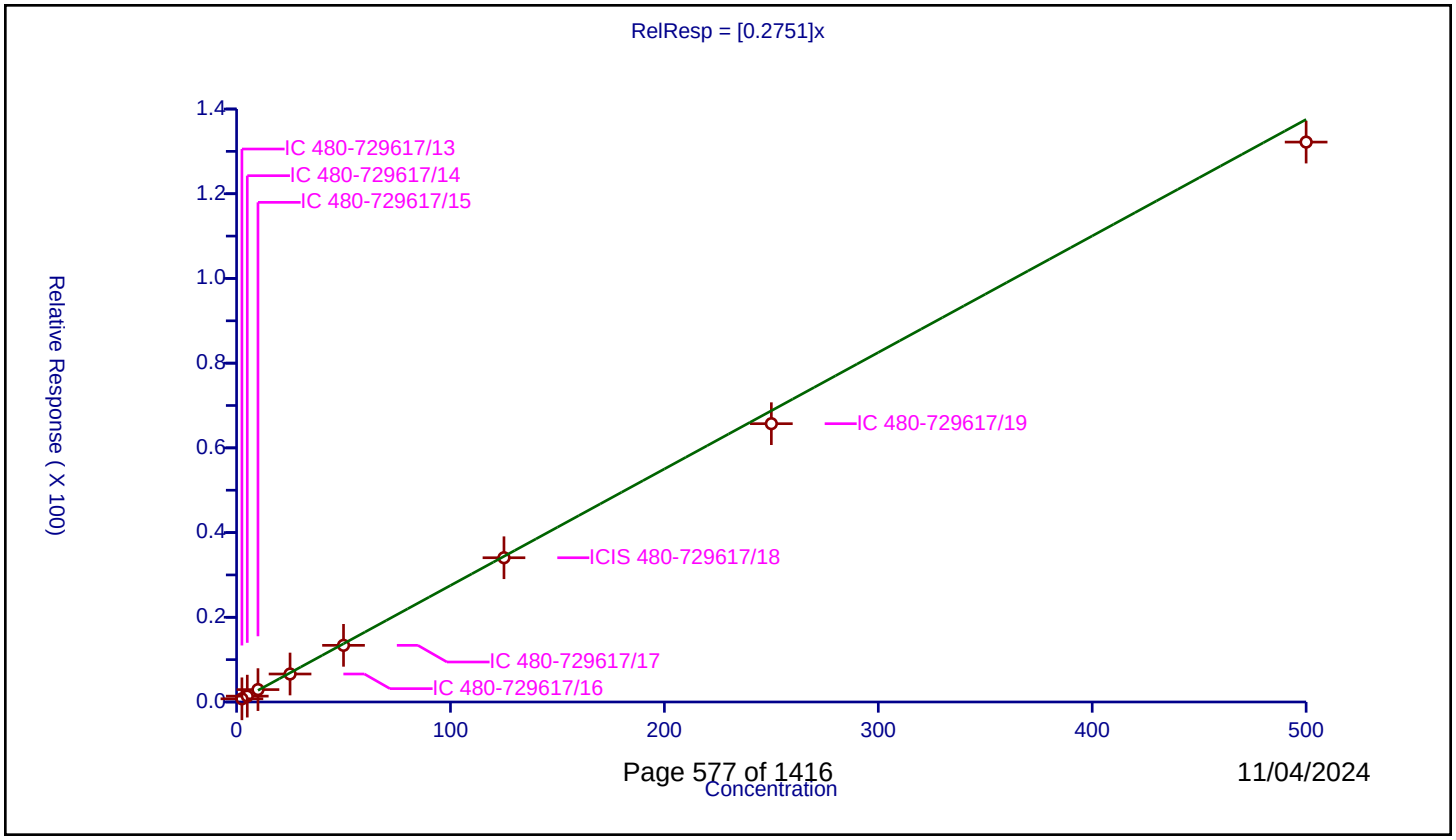
Curve Coefficients

Intercept:	0
Slope:	0.2751

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	2.5	0.751615	25.0	640920.0	0.300646	Y
2	IC 480-729617/14	5.0	1.38127	25.0	656244.0	0.276254	Y
3	IC 480-729617/15	10.0	2.922368	25.0	648789.0	0.292237	Y
4	IC 480-729617/16	25.0	6.607382	25.0	680417.0	0.264295	Y
5	IC 480-729617/17	50.0	13.374251	25.0	627437.0	0.267485	Y
6	ICIS 480-729617/18	125.0	34.059102	25.0	644937.0	0.272473	Y
7	IC 480-729617/19	250.0	65.707797	25.0	683861.0	0.262831	Y
8	IC 480-729617/20	500.0	132.190591	25.0	683407.0	0.264381	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

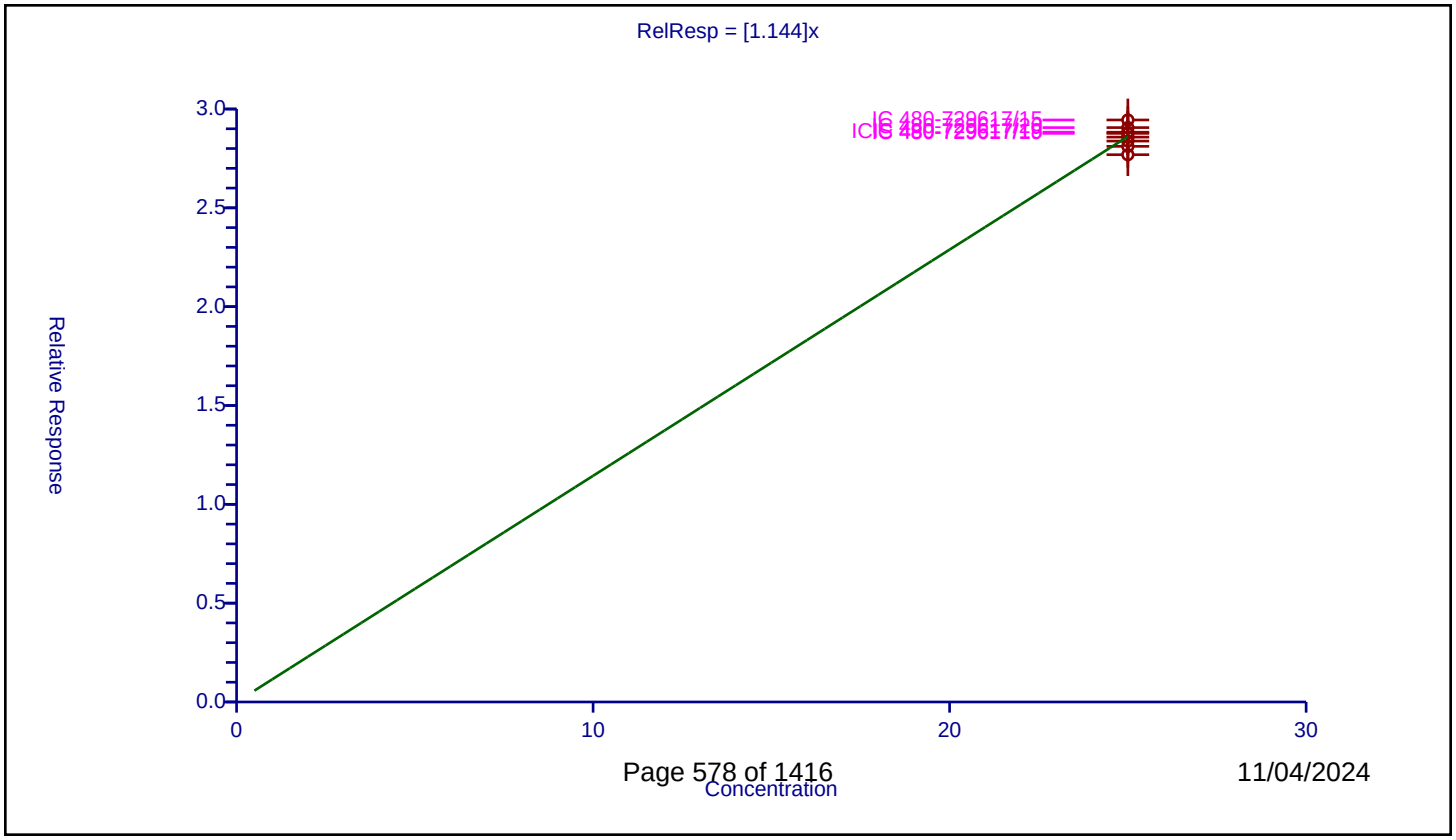
Curve Coefficients

Intercept:	0
Slope:	1.144

Error Coefficients

Relative Standard Deviation:	1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	25.0	27.689532	25.0	640920.0	1.107581	Y
2	IC 480-729617/14	25.0	28.577976	25.0	656244.0	1.143119	Y
3	IC 480-729617/15	25.0	29.444935	25.0	648789.0	1.177797	Y
4	IC 480-729617/16	25.0	28.378443	25.0	680417.0	1.135138	Y
5	IC 480-729617/17	25.0	28.111587	25.0	627437.0	1.124463	Y
6	ICIS 480-729617/18	25.0	28.825645	25.0	644937.0	1.153026	Y
7	IC 480-729617/19	25.0	28.767908	25.0	683861.0	1.150716	Y
8	IC 480-729617/20	25.0	29.05966	25.0	683407.0	1.162386	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

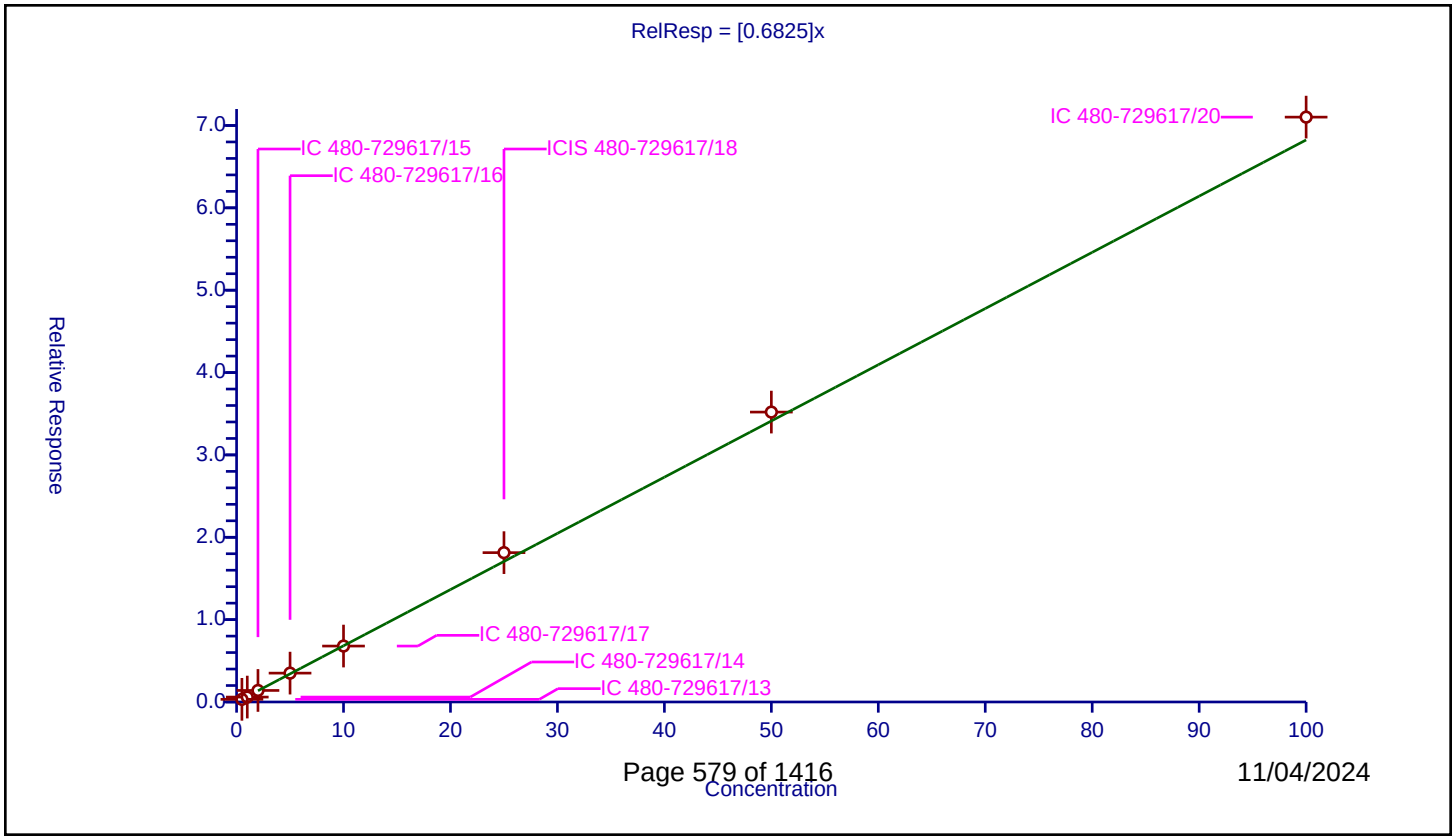
Curve Coefficients

Intercept:	0
Slope:	0.6825

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.321959	25.0	640920.0	0.643918	Y
2	IC 480-729617/14	1.0	0.596158	25.0	656244.0	0.596158	Y
3	IC 480-729617/15	2.0	1.399608	25.0	648789.0	0.699804	Y
4	IC 480-729617/16	5.0	3.505314	25.0	680417.0	0.701063	Y
5	IC 480-729617/17	10.0	6.791439	25.0	627437.0	0.679144	Y
6	ICIS 480-729617/18	25.0	18.133166	25.0	644937.0	0.725327	Y
7	IC 480-729617/19	50.0	35.202548	25.0	683861.0	0.704051	Y
8	IC 480-729617/20	100.0	71.016612	25.0	683407.0	0.710166	Y



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Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

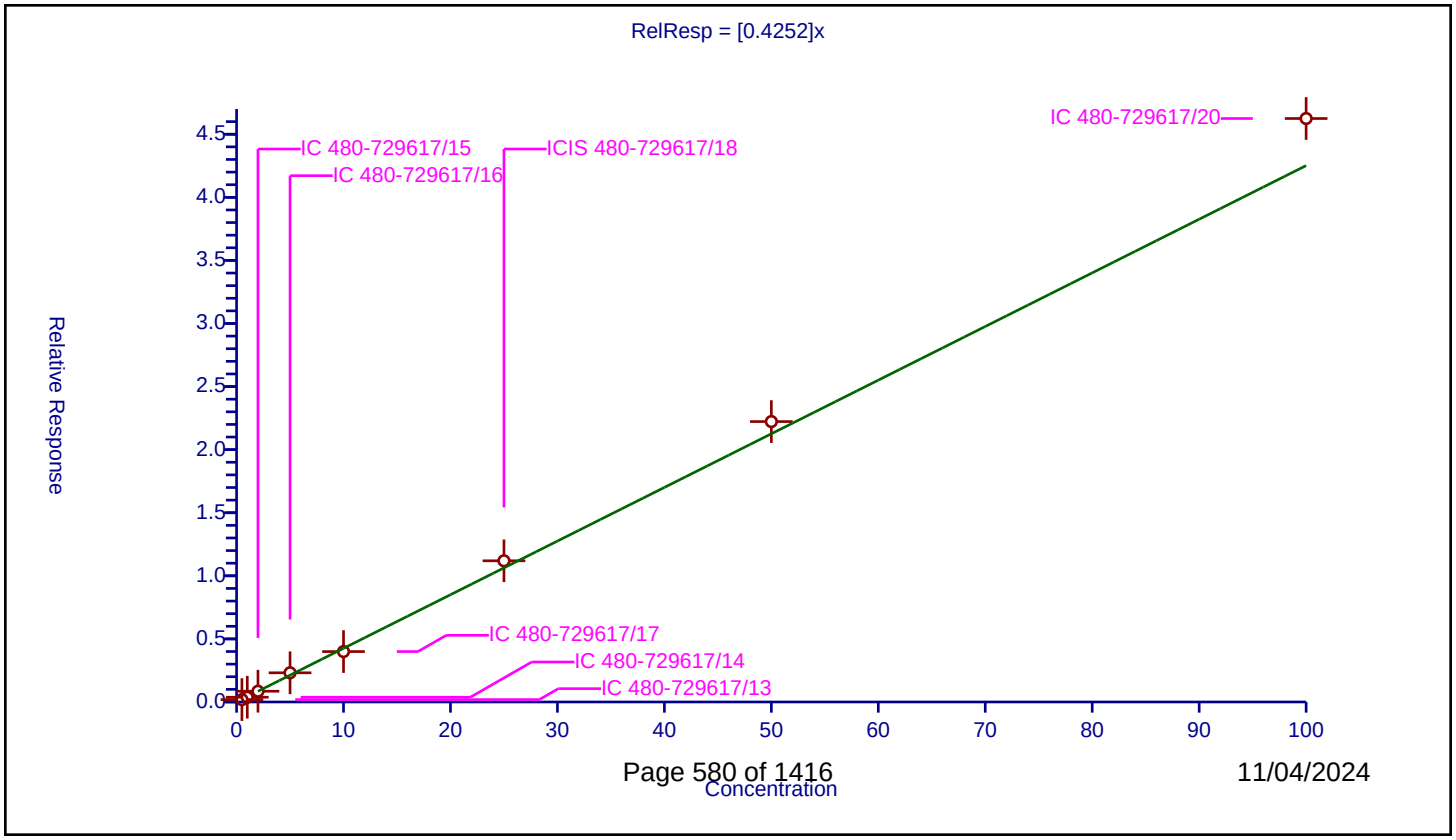
Curve Coefficients

Intercept:	0
Slope:	0.4252

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.189961	25.0	640920.0	0.379923	Y
2	IC 480-729617/14	1.0	0.377946	25.0	656244.0	0.377946	Y
3	IC 480-729617/15	2.0	0.852781	25.0	648789.0	0.426391	Y
4	IC 480-729617/16	5.0	2.313544	25.0	680417.0	0.462709	Y
5	IC 480-729617/17	10.0	3.996298	25.0	627437.0	0.39963	Y
6	ICIS 480-729617/18	25.0	11.191171	25.0	644937.0	0.447647	Y
7	IC 480-729617/19	50.0	22.225789	25.0	683861.0	0.444516	Y
8	IC 480-729617/20	100.0	46.247478	25.0	683407.0	0.462475	Y



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Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

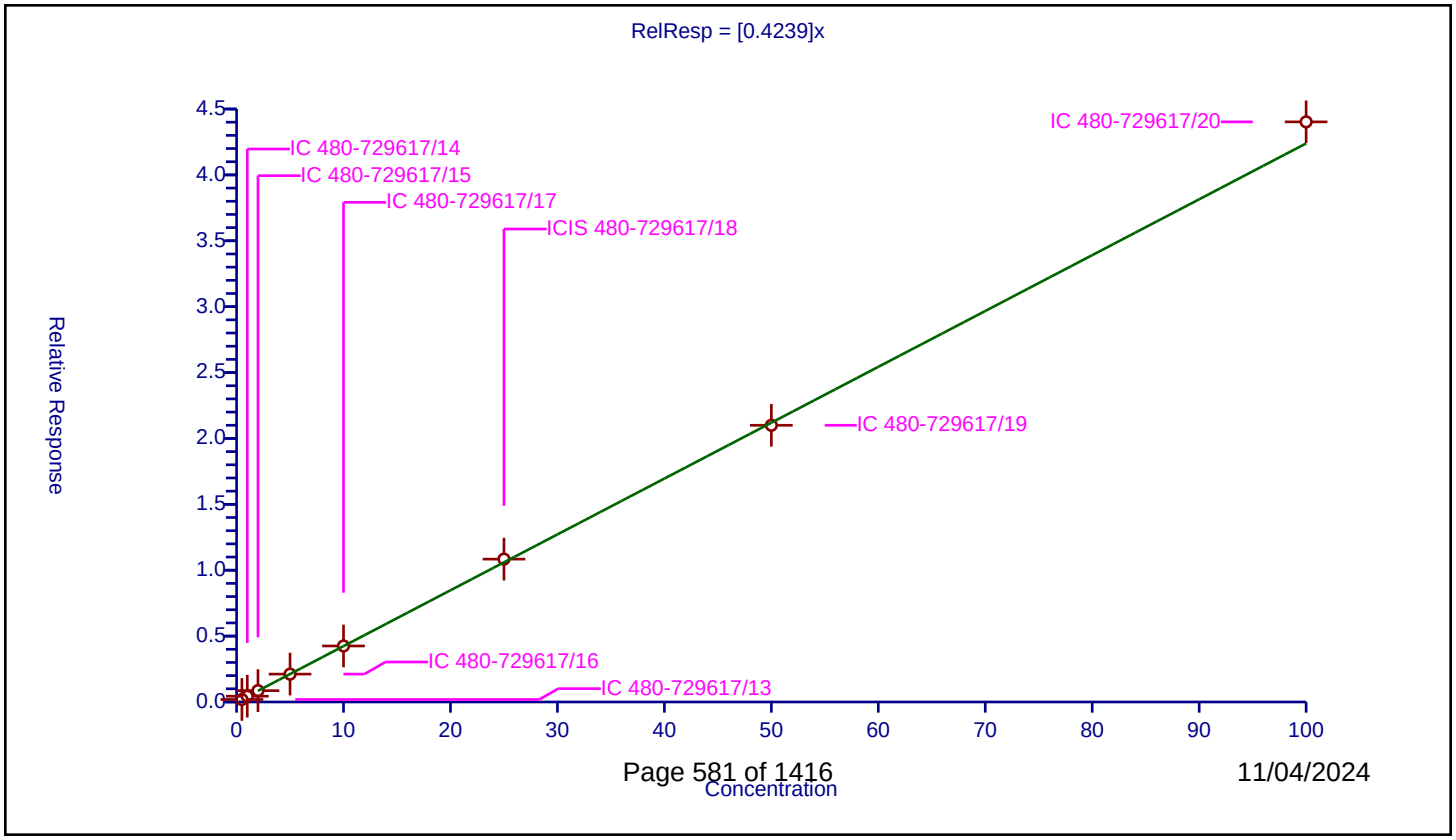
Curve Coefficients

Intercept:	0
Slope:	0.4239

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.190429	25.0	640920.0	0.380859	Y
2	IC 480-729617/14	1.0	0.437718	25.0	656244.0	0.437718	Y
3	IC 480-729617/15	2.0	0.860449	25.0	648789.0	0.430225	Y
4	IC 480-729617/16	5.0	2.116349	25.0	680417.0	0.42327	Y
5	IC 480-729617/17	10.0	4.250188	25.0	627437.0	0.425019	Y
6	ICIS 480-729617/18	25.0	10.841679	25.0	644937.0	0.433667	Y
7	IC 480-729617/19	50.0	20.99831	25.0	683861.0	0.419966	Y
8	IC 480-729617/20	100.0	44.025229	25.0	683407.0	0.440252	Y



11/04/2024

Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

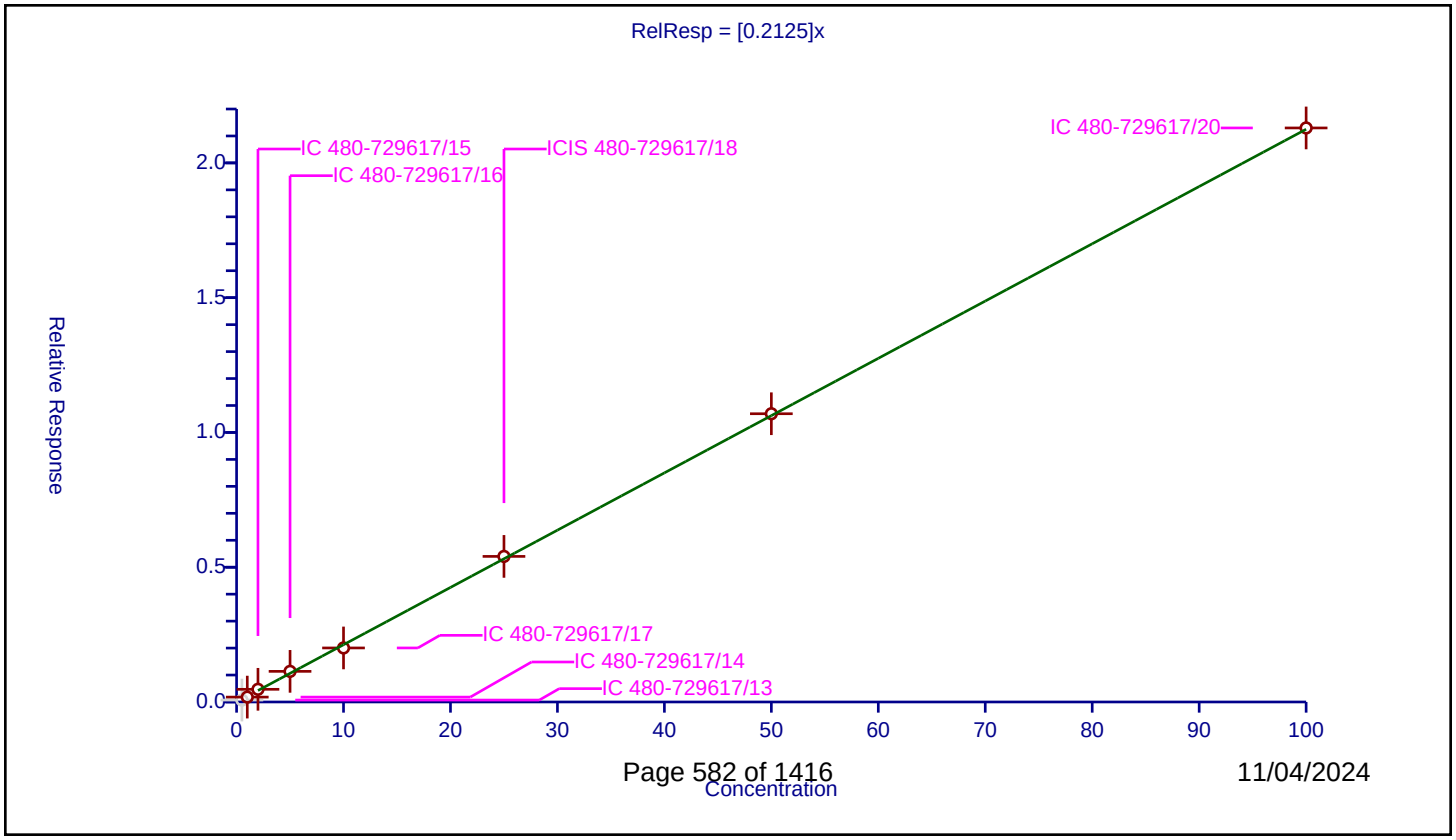
Curve Coefficients

Intercept:	0
Slope:	0.2125

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.071733	25.0	640920.0	0.143466	N
2	IC 480-729617/14	1.0	0.181487	25.0	656244.0	0.181487	Y
3	IC 480-729617/15	2.0	0.47053	25.0	648789.0	0.235265	Y
4	IC 480-729617/16	5.0	1.136288	25.0	680417.0	0.227258	Y
5	IC 480-729617/17	10.0	2.005301	25.0	627437.0	0.20053	Y
6	ICIS 480-729617/18	25.0	5.401225	25.0	644937.0	0.216049	Y
7	IC 480-729617/19	50.0	10.694937	25.0	683861.0	0.213899	Y
8	IC 480-729617/20	100.0	21.297923	25.0	683407.0	0.212979	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

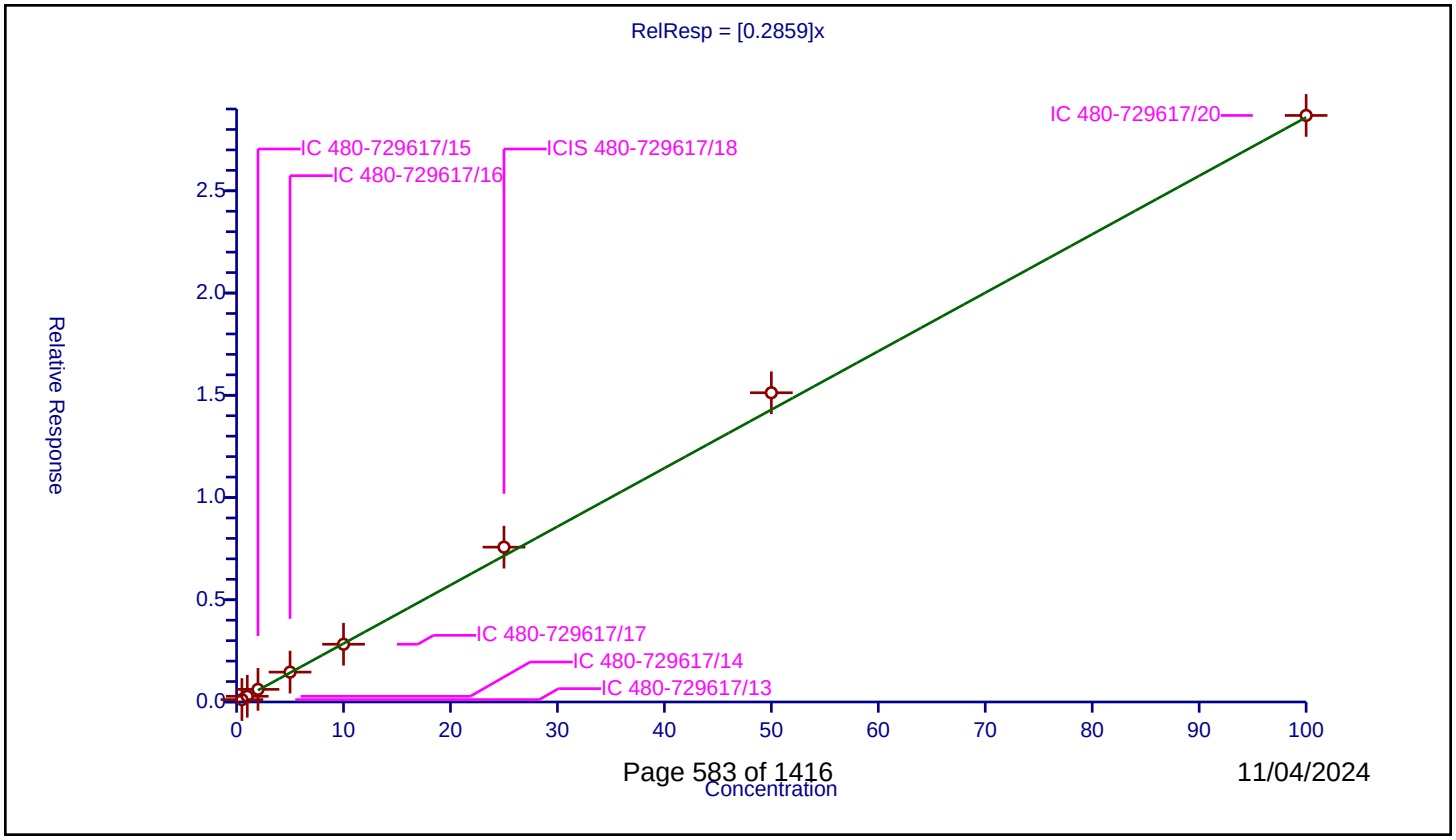
Curve Coefficients

Intercept:	0
Slope:	0.2859

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.116902	25.0	640920.0	0.233805	Y
2	IC 480-729617/14	1.0	0.27806	25.0	656244.0	0.27806	Y
3	IC 480-729617/15	2.0	0.61715	25.0	648789.0	0.308575	Y
4	IC 480-729617/16	5.0	1.460795	25.0	680417.0	0.292159	Y
5	IC 480-729617/17	10.0	2.824547	25.0	627437.0	0.282455	Y
6	ICIS 480-729617/18	25.0	7.572174	25.0	644937.0	0.302887	Y
7	IC 480-729617/19	50.0	15.123761	25.0	683861.0	0.302475	Y
8	IC 480-729617/20	100.0	28.685615	25.0	683407.0	0.286856	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

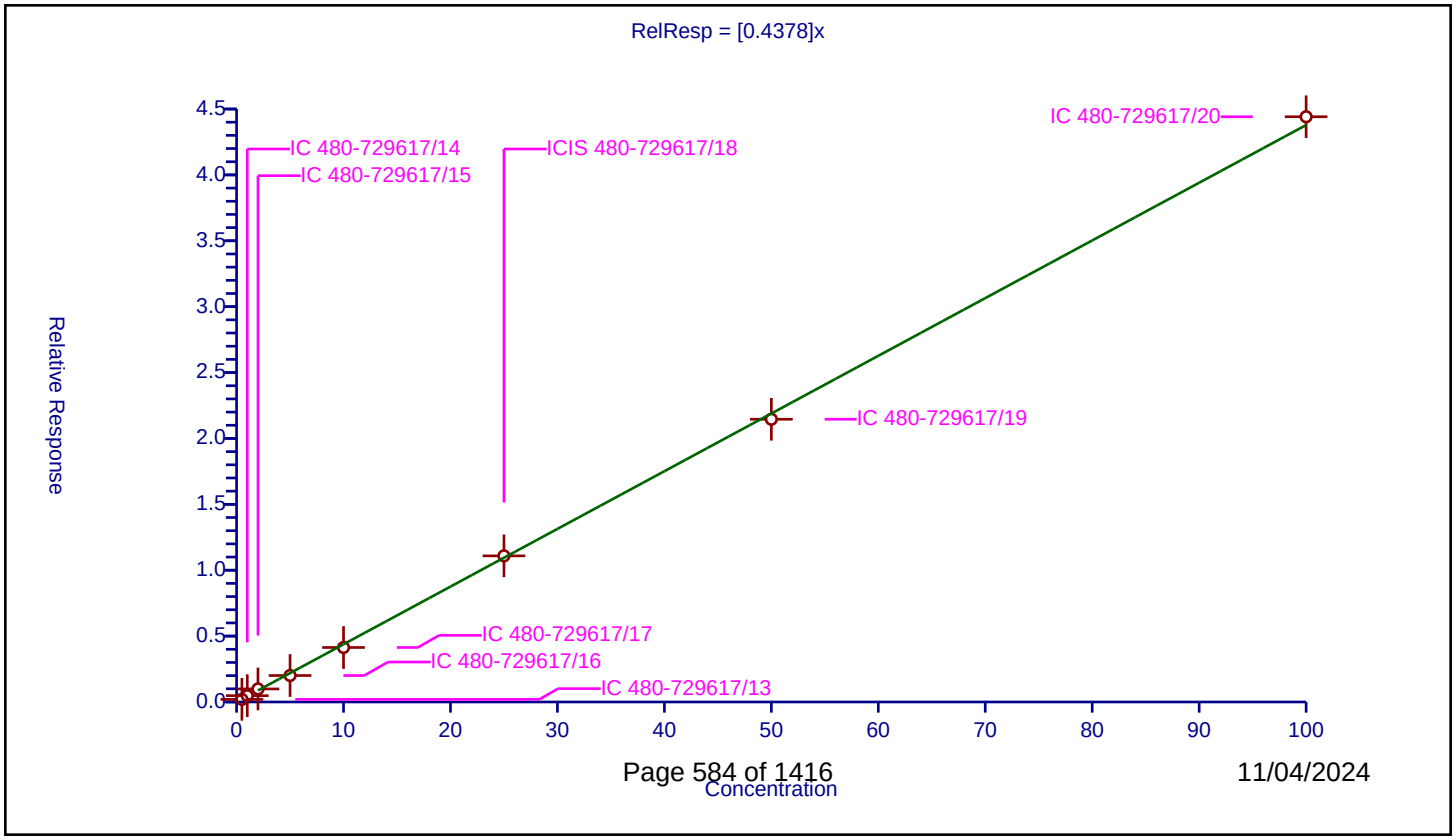
Curve Coefficients

Intercept:	0
Slope:	0.4378

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.198504	25.0	640920.0	0.397007	Y
2	IC 480-729617/14	1.0	0.478062	25.0	656244.0	0.478062	Y
3	IC 480-729617/15	2.0	0.990499	25.0	648789.0	0.49525	Y
4	IC 480-729617/16	5.0	2.009172	25.0	680417.0	0.401834	Y
5	IC 480-729617/17	10.0	4.136272	25.0	627437.0	0.413627	Y
6	ICIS 480-729617/18	25.0	11.08899	25.0	644937.0	0.44356	Y
7	IC 480-729617/19	50.0	21.457248	25.0	683861.0	0.429145	Y
8	IC 480-729617/20	100.0	44.412371	25.0	683407.0	0.444124	Y



11/04/2024

Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

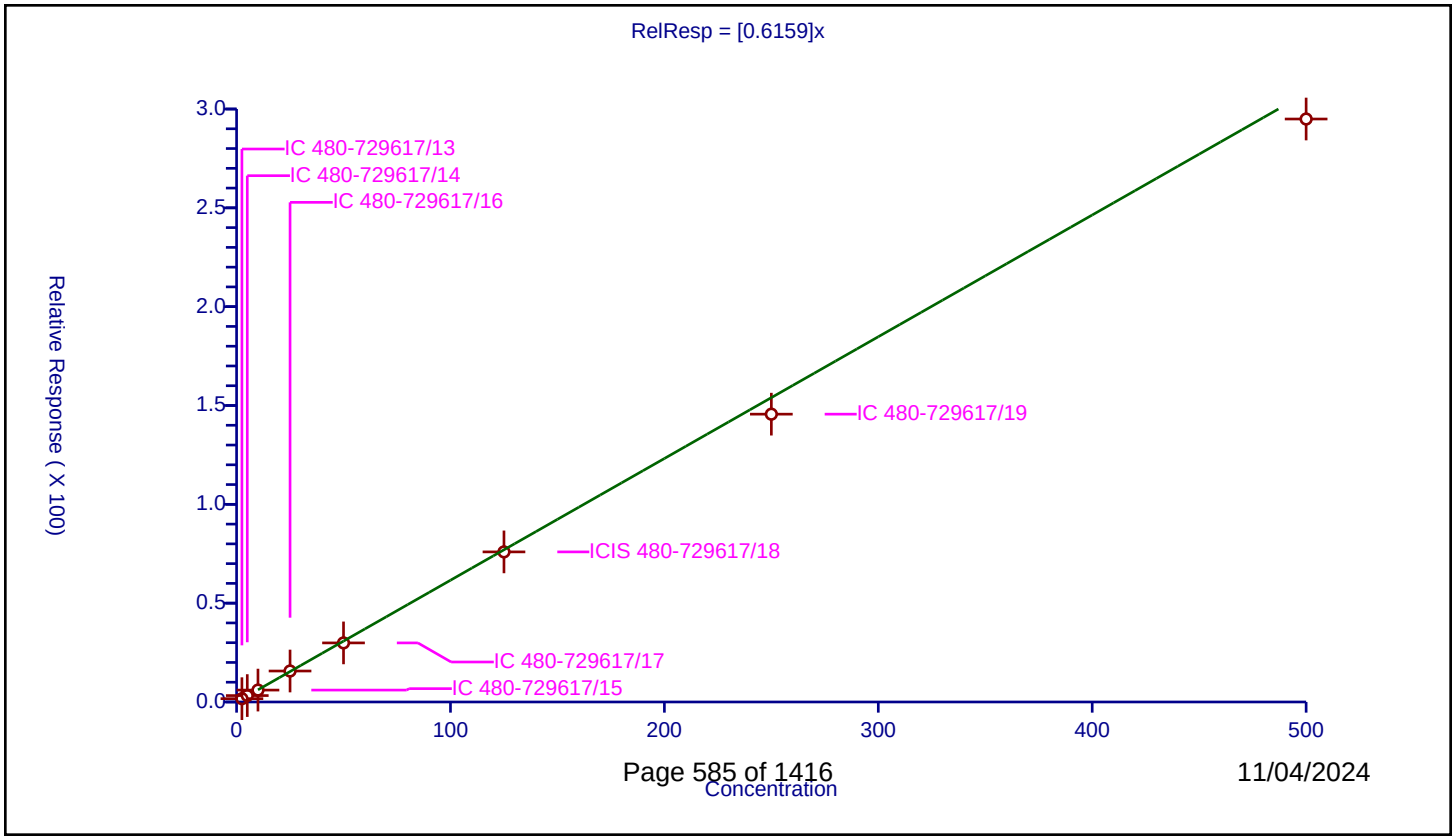
Curve Coefficients

Intercept:	0
Slope:	0.6159

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	2.5	1.675092	25.0	640920.0	0.670037	Y
2	IC 480-729617/14	5.0	3.250963	25.0	656244.0	0.650193	Y
3	IC 480-729617/15	10.0	6.028308	25.0	648789.0	0.602831	Y
4	IC 480-729617/16	25.0	15.672705	25.0	680417.0	0.626908	Y
5	IC 480-729617/17	50.0	29.884554	25.0	627437.0	0.597691	Y
6	ICIS 480-729617/18	125.0	75.942379	25.0	644937.0	0.607539	Y
7	IC 480-729617/19	250.0	145.615922	25.0	683861.0	0.582464	Y
8	IC 480-729617/20	500.0	294.938229	25.0	683407.0	0.589876	Y



11/04/2024

Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

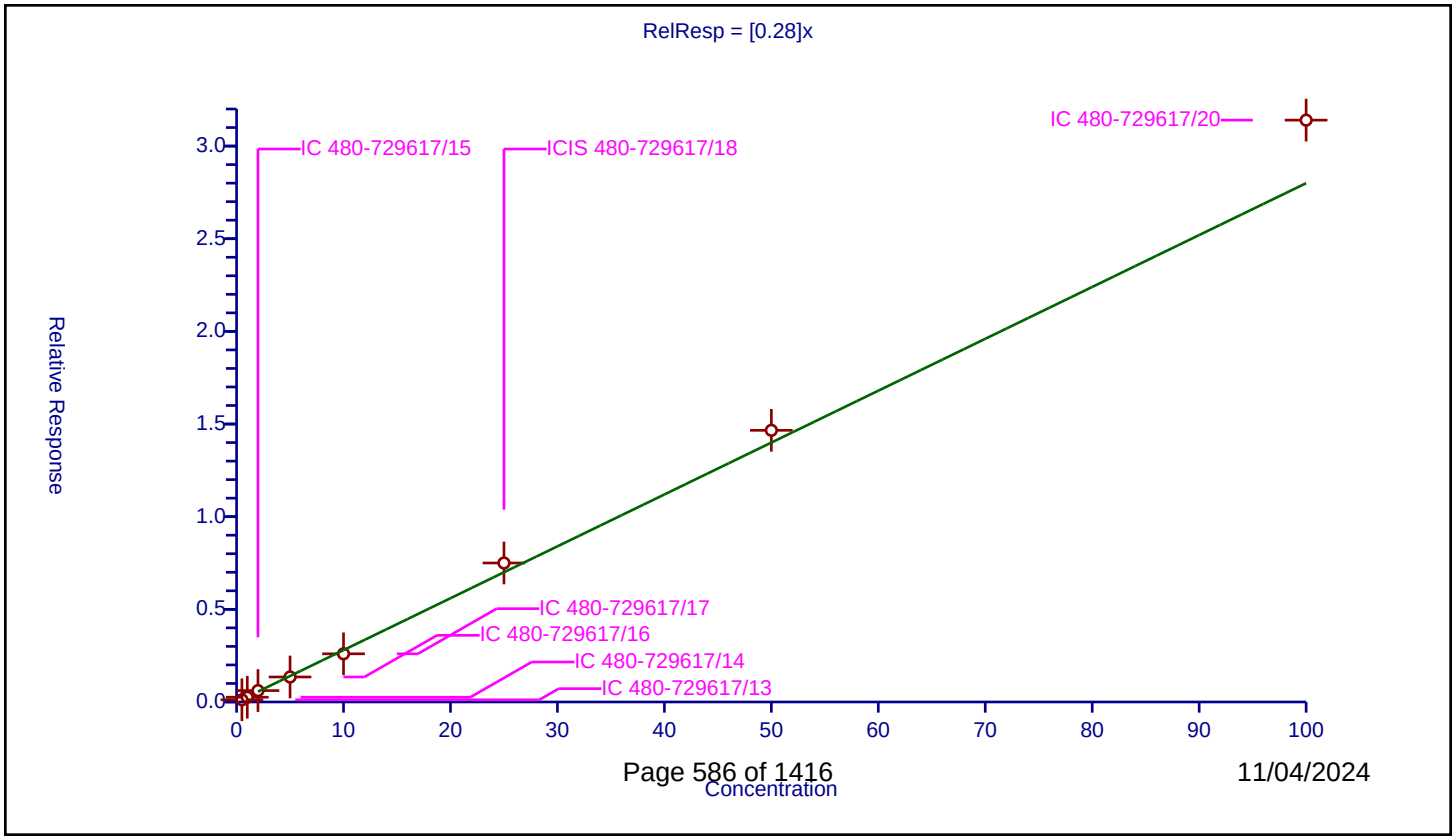
Curve Coefficients

Intercept:	0
Slope:	0.28

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.118931	25.0	640920.0	0.237861	Y
2	IC 480-729617/14	1.0	0.25745	25.0	656244.0	0.25745	Y
3	IC 480-729617/15	2.0	0.614722	25.0	648789.0	0.307361	Y
4	IC 480-729617/16	5.0	1.349283	25.0	680417.0	0.269857	Y
5	IC 480-729617/17	10.0	2.599743	25.0	627437.0	0.259974	Y
6	ICIS 480-729617/18	25.0	7.501043	25.0	644937.0	0.300042	Y
7	IC 480-729617/19	50.0	14.660253	25.0	683861.0	0.293205	Y
8	IC 480-729617/20	100.0	31.400176	25.0	683407.0	0.314002	Y



11/04/2024

Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

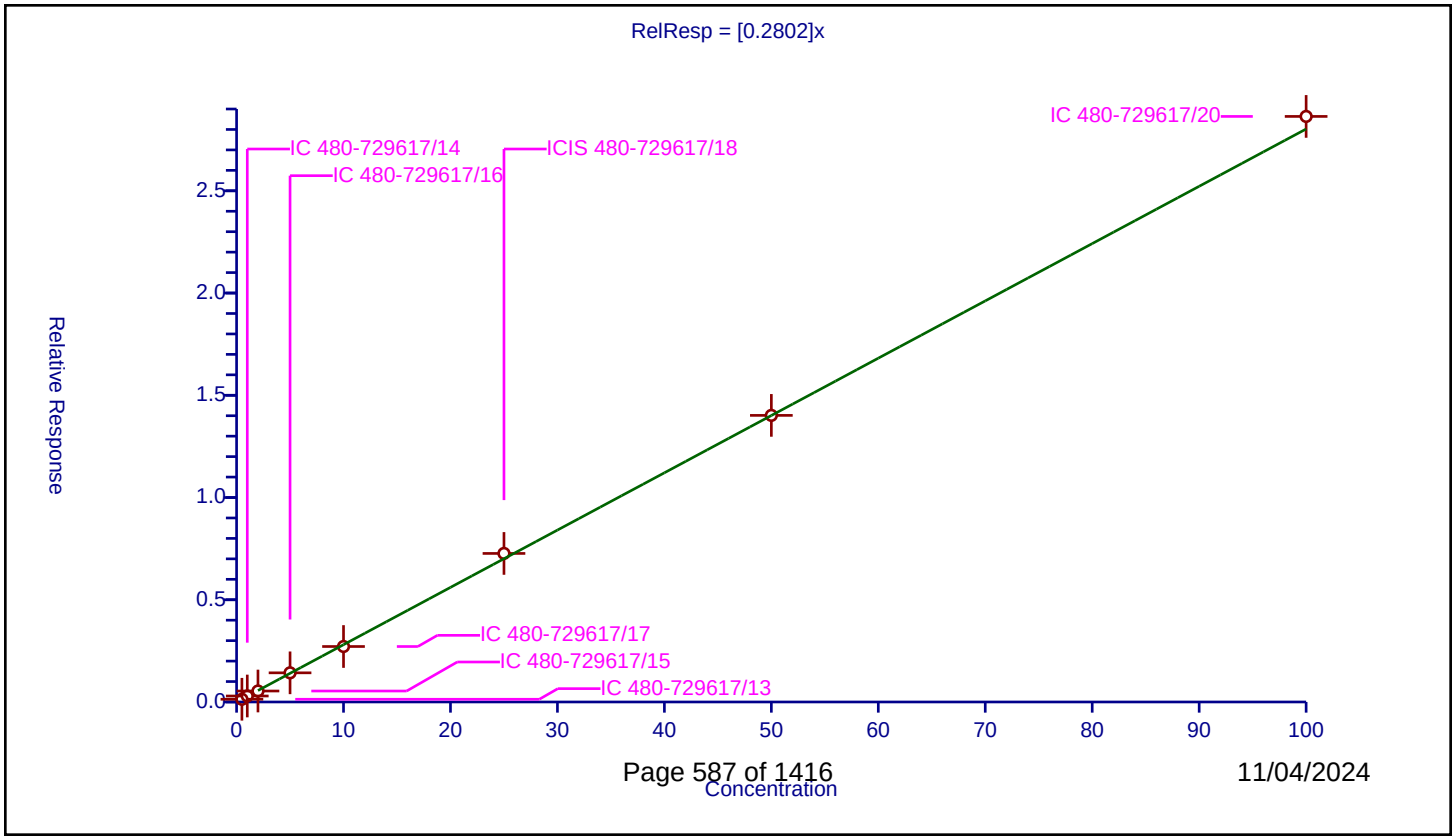
Curve Coefficients

Intercept:	0
Slope:	0.2802

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.133207	25.0	640920.0	0.266414	Y
2	IC 480-729617/14	1.0	0.293069	25.0	656244.0	0.293069	Y
3	IC 480-729617/15	2.0	0.537039	25.0	648789.0	0.26852	Y
4	IC 480-729617/16	5.0	1.425817	25.0	680417.0	0.285163	Y
5	IC 480-729617/17	10.0	2.712982	25.0	627437.0	0.271298	Y
6	ICIS 480-729617/18	25.0	7.265167	25.0	644937.0	0.290607	Y
7	IC 480-729617/19	50.0	14.016555	25.0	683861.0	0.280331	Y
8	IC 480-729617/20	100.0	28.63751	25.0	683407.0	0.286375	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

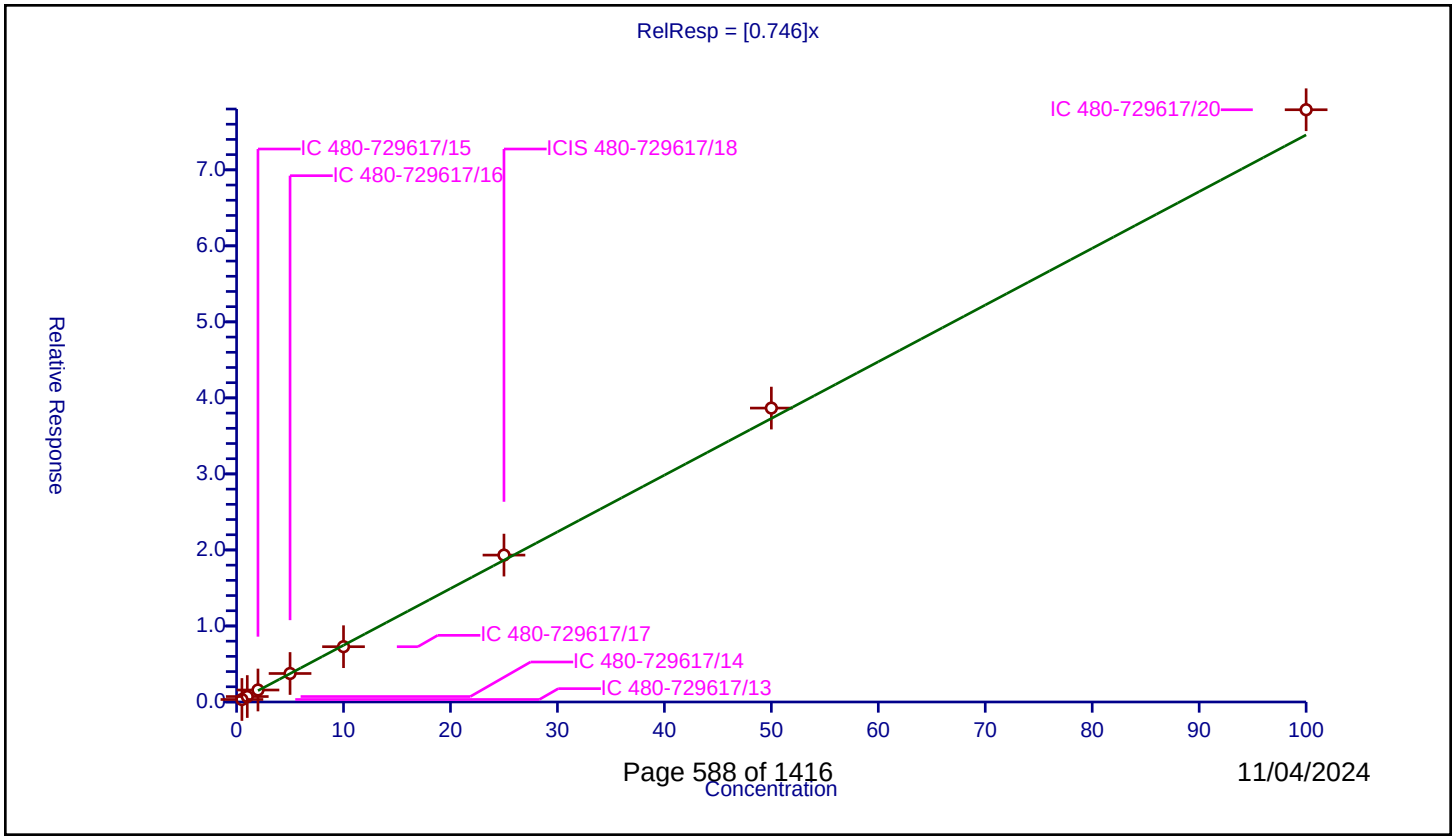
Curve Coefficients

Intercept:	0
Slope:	0.746

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.329253	25.0	640920.0	0.658507	Y
2	IC 480-729617/14	1.0	0.718559	25.0	656244.0	0.718559	Y
3	IC 480-729617/15	2.0	1.577015	25.0	648789.0	0.788508	Y
4	IC 480-729617/16	5.0	3.747004	25.0	680417.0	0.749401	Y
5	IC 480-729617/17	10.0	7.274675	25.0	627437.0	0.727467	Y
6	ICIS 480-729617/18	25.0	19.322391	25.0	644937.0	0.772896	Y
7	IC 480-729617/19	50.0	38.660232	25.0	683861.0	0.773205	Y
8	IC 480-729617/20	100.0	77.906723	25.0	683407.0	0.779067	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

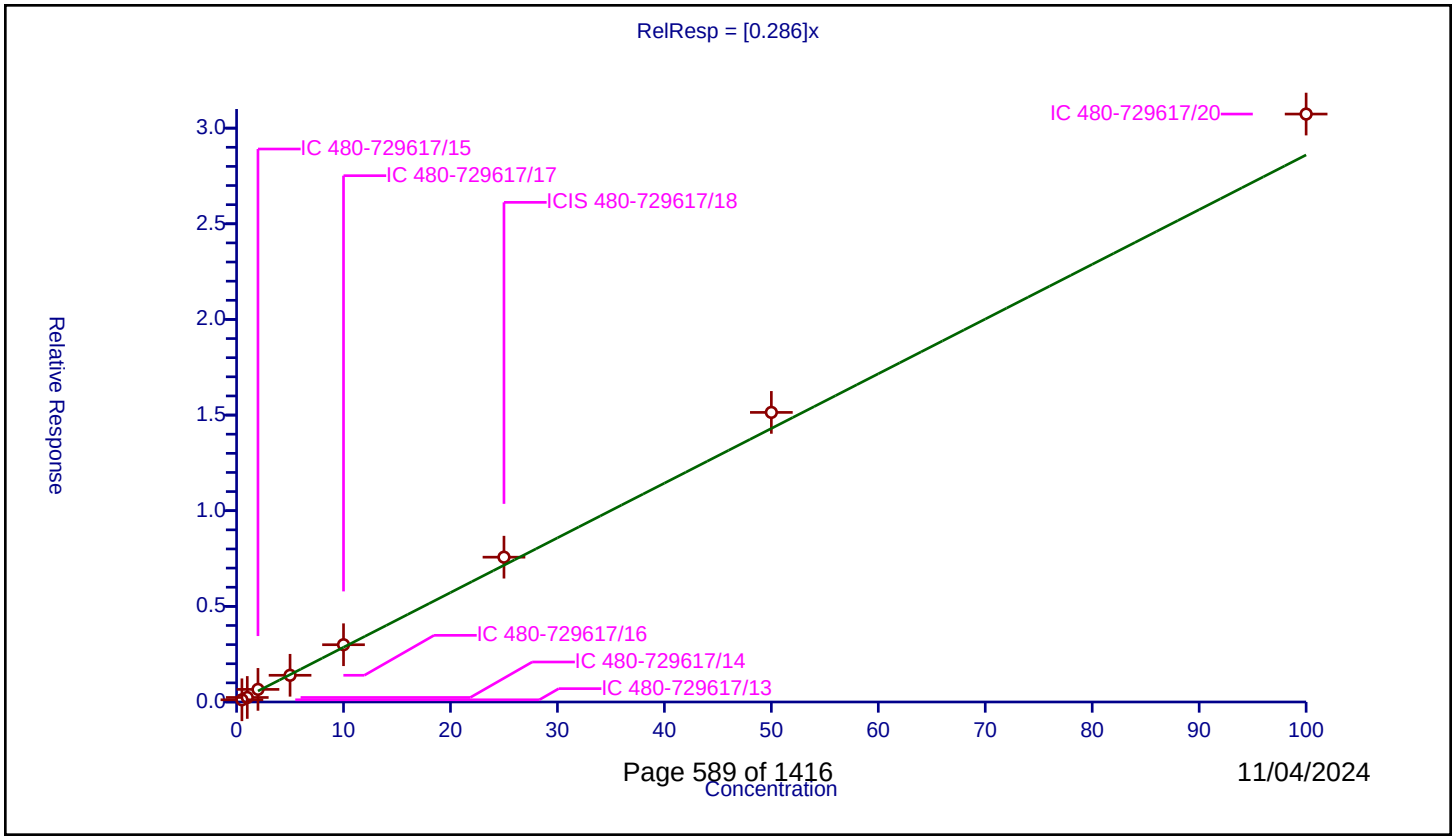
Curve Coefficients

Intercept:	0
Slope:	0.286

Error Coefficients

Relative Standard Deviation:	12.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.115693	25.0	640920.0	0.231386	Y
2	IC 480-729617/14	1.0	0.235926	25.0	656244.0	0.235926	Y
3	IC 480-729617/15	2.0	0.658226	25.0	648789.0	0.329113	Y
4	IC 480-729617/16	5.0	1.395872	25.0	680417.0	0.279174	Y
5	IC 480-729617/17	10.0	2.993289	25.0	627437.0	0.299329	Y
6	ICIS 480-729617/18	25.0	7.570429	25.0	644937.0	0.302817	Y
7	IC 480-729617/19	50.0	15.139517	25.0	683861.0	0.30279	Y
8	IC 480-729617/20	100.0	30.736699	25.0	683407.0	0.307367	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

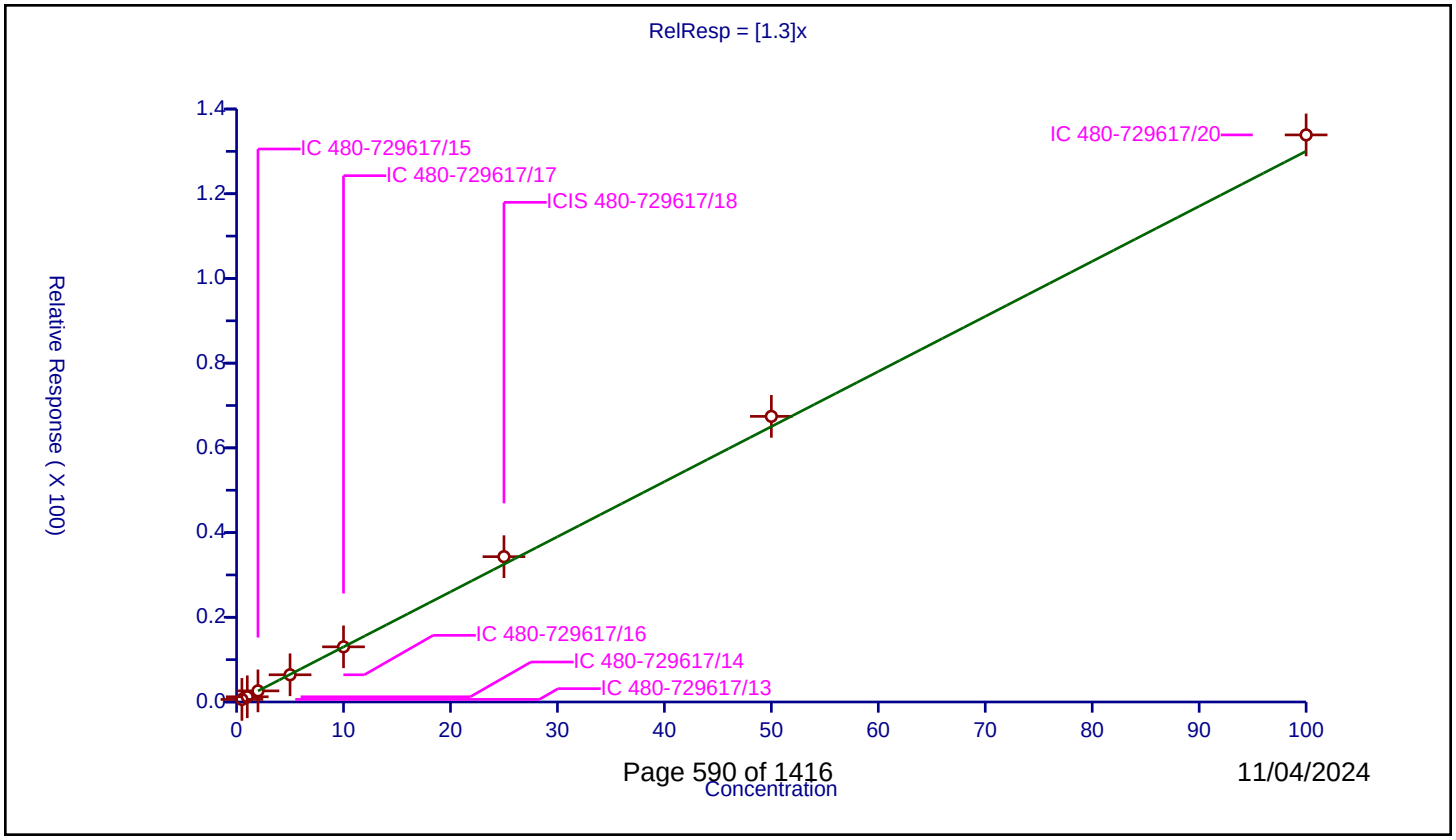
Curve Coefficients

Intercept:	0
Slope:	1.3

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.607135	25.0	640920.0	1.21427	Y
2	IC 480-729617/14	1.0	1.229649	25.0	656244.0	1.229649	Y
3	IC 480-729617/15	2.0	2.624852	25.0	648789.0	1.312426	Y
4	IC 480-729617/16	5.0	6.425141	25.0	680417.0	1.285028	Y
5	IC 480-729617/17	10.0	13.021865	25.0	627437.0	1.302187	Y
6	ICIS 480-729617/18	25.0	34.307963	25.0	644937.0	1.372319	Y
7	IC 480-729617/19	50.0	67.431539	25.0	683861.0	1.348631	Y
8	IC 480-729617/20	100.0	133.887274	25.0	683407.0	1.338873	Y



11/04/2024

Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

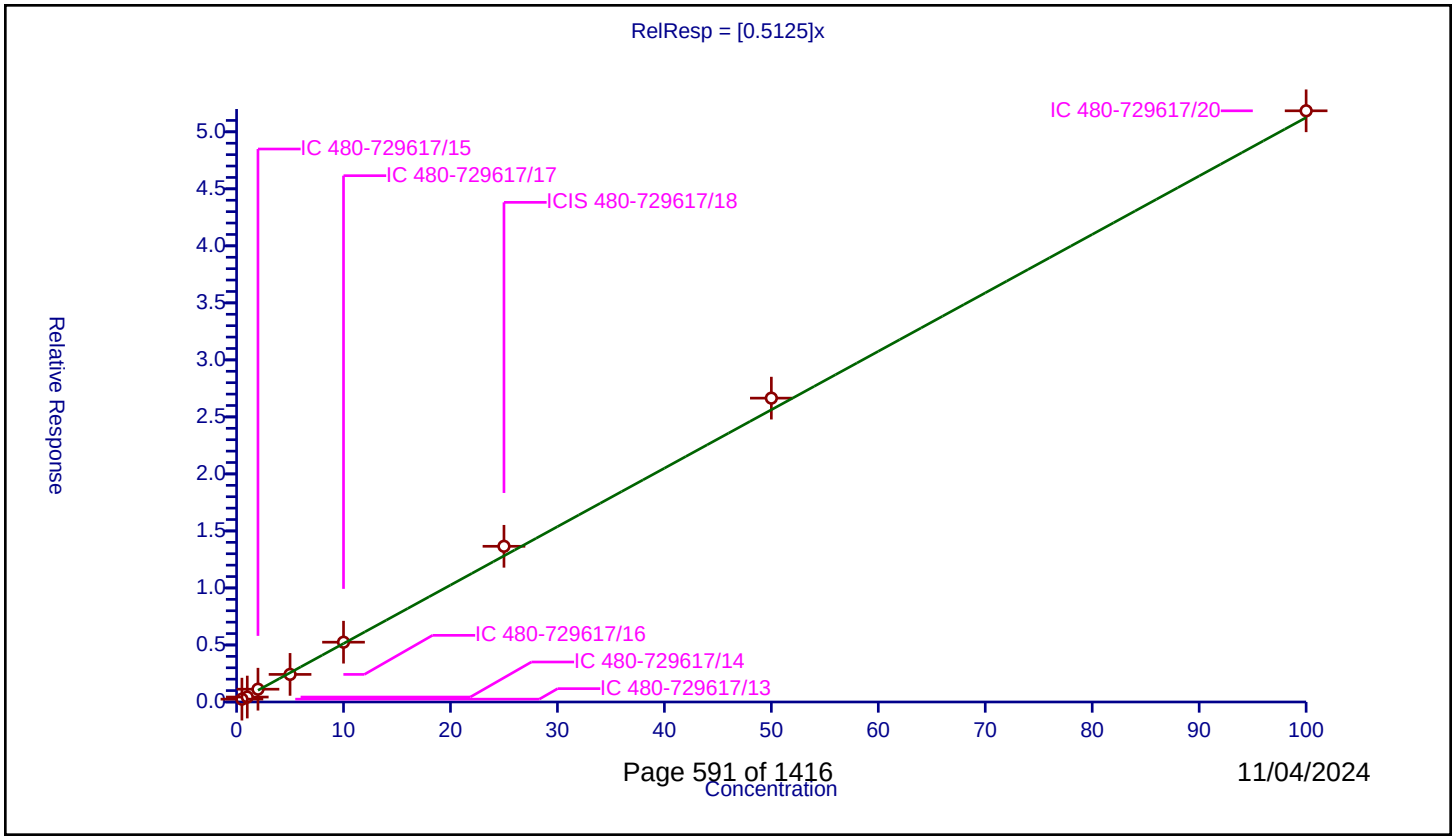
Curve Coefficients

Intercept:	0
Slope:	0.5125

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.249407	25.0	640920.0	0.498814	Y
2	IC 480-729617/14	1.0	0.434785	25.0	656244.0	0.434785	Y
3	IC 480-729617/15	2.0	1.121628	25.0	648789.0	0.560814	Y
4	IC 480-729617/16	5.0	2.419068	25.0	680417.0	0.483814	Y
5	IC 480-729617/17	10.0	5.244989	25.0	627437.0	0.524499	Y
6	ICIS 480-729617/18	25.0	13.652496	25.0	644937.0	0.5461	Y
7	IC 480-729617/19	50.0	26.646387	25.0	683861.0	0.532928	Y
8	IC 480-729617/20	100.0	51.842679	25.0	683407.0	0.518427	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

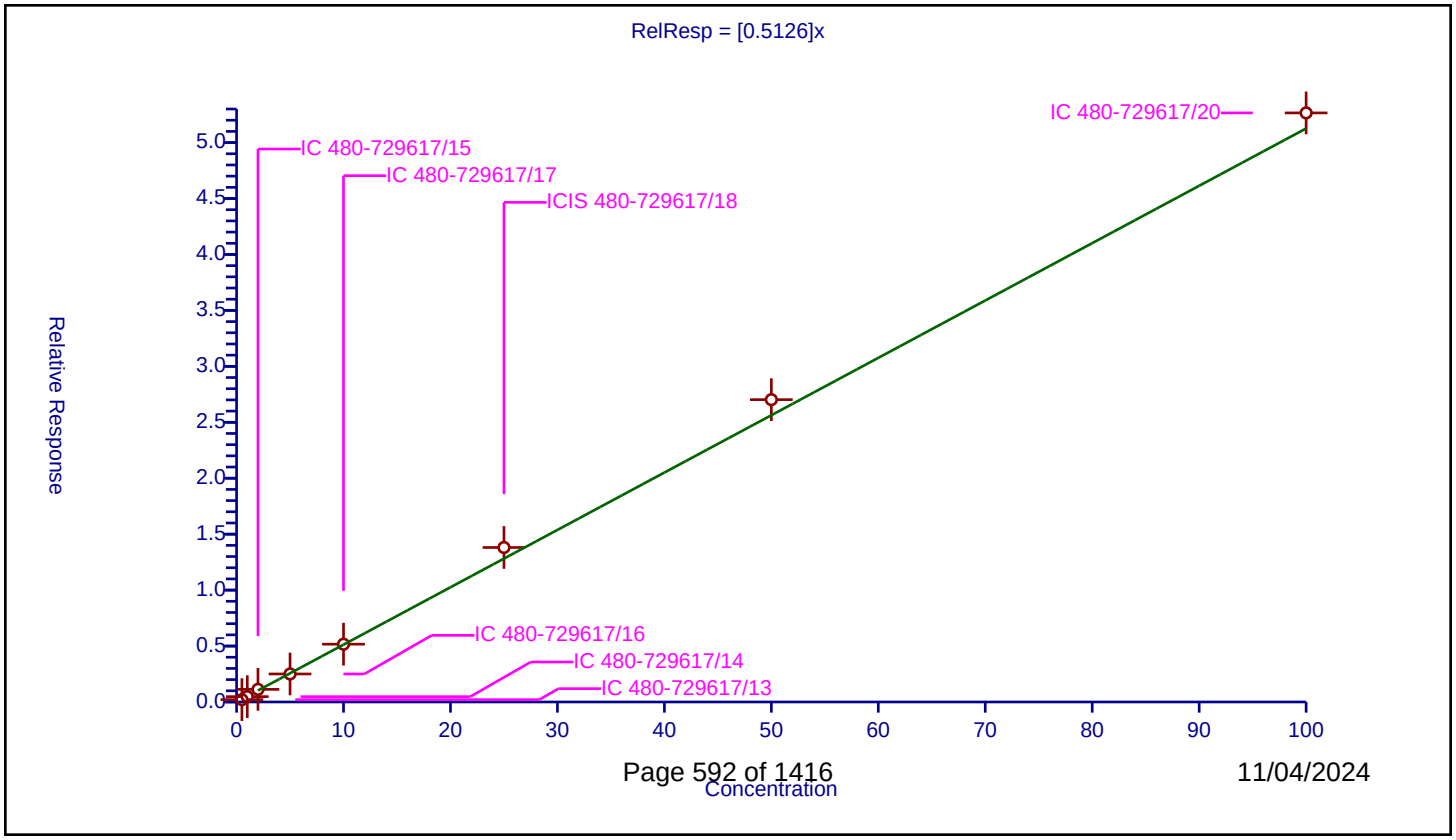
Curve Coefficients

Intercept:	0
Slope:	0.5126

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.211727	25.0	640920.0	0.423454	Y
2	IC 480-729617/14	1.0	0.476842	25.0	656244.0	0.476842	Y
3	IC 480-729617/15	2.0	1.128294	25.0	648789.0	0.564147	Y
4	IC 480-729617/16	5.0	2.503906	25.0	680417.0	0.500781	Y
5	IC 480-729617/17	10.0	5.165299	25.0	627437.0	0.51653	Y
6	ICIS 480-729617/18	25.0	13.809139	25.0	644937.0	0.552366	Y
7	IC 480-729617/19	50.0	27.022341	25.0	683861.0	0.540447	Y
8	IC 480-729617/20	100.0	52.651092	25.0	683407.0	0.526511	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

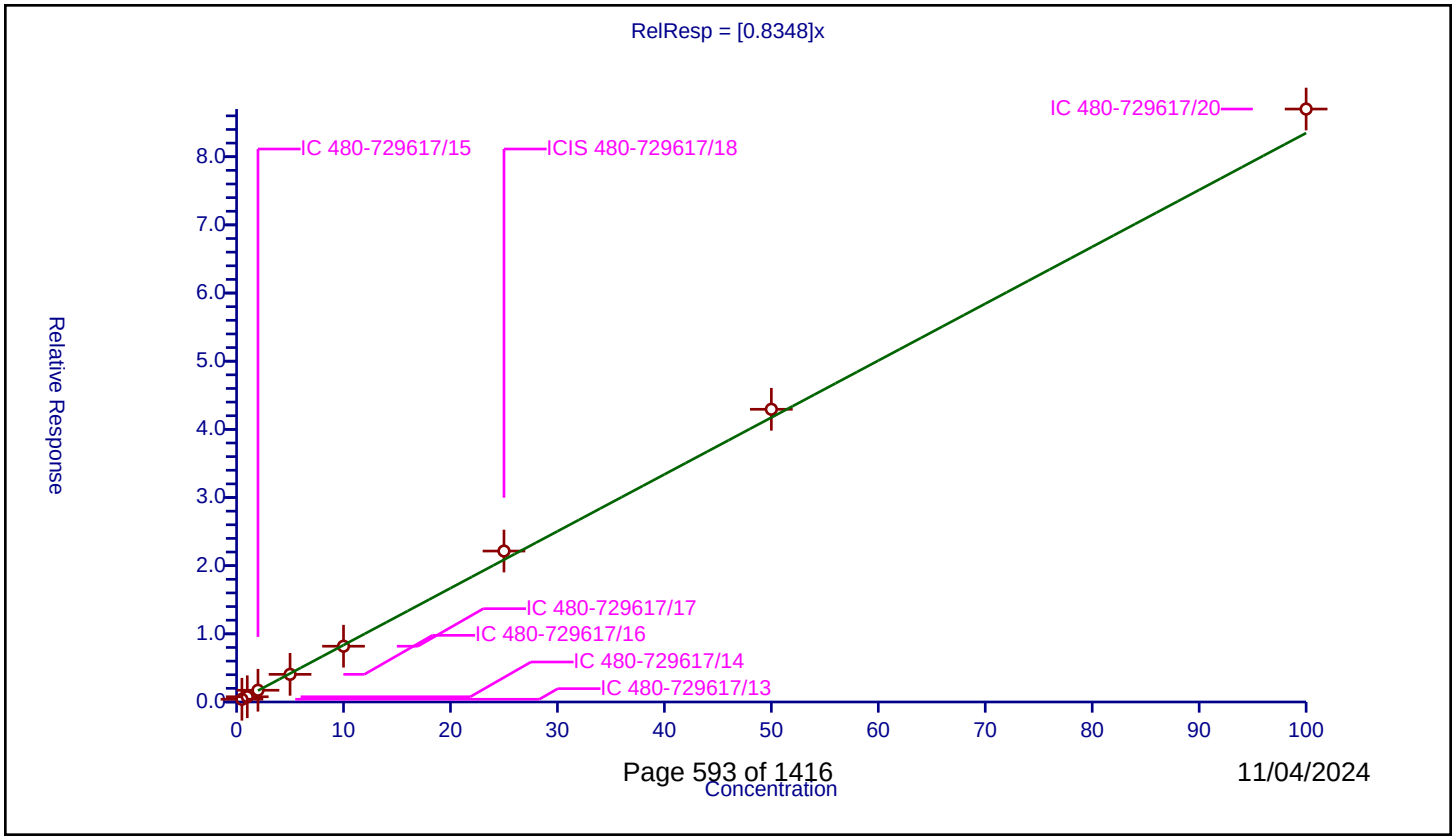
Curve Coefficients

Intercept:	0
Slope:	0.8348

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.402351	25.0	640920.0	0.804703	Y
2	IC 480-729617/14	1.0	0.766978	25.0	656244.0	0.766978	Y
3	IC 480-729617/15	2.0	1.72479	25.0	648789.0	0.862395	Y
4	IC 480-729617/16	5.0	4.054572	25.0	680417.0	0.810914	Y
5	IC 480-729617/17	10.0	8.184368	25.0	627437.0	0.818437	Y
6	ICIS 480-729617/18	25.0	22.144915	25.0	644937.0	0.885797	Y
7	IC 480-729617/19	50.0	42.945021	25.0	683861.0	0.8589	Y
8	IC 480-729617/20	100.0	86.994317	25.0	683407.0	0.869943	Y



11/04/2024

Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

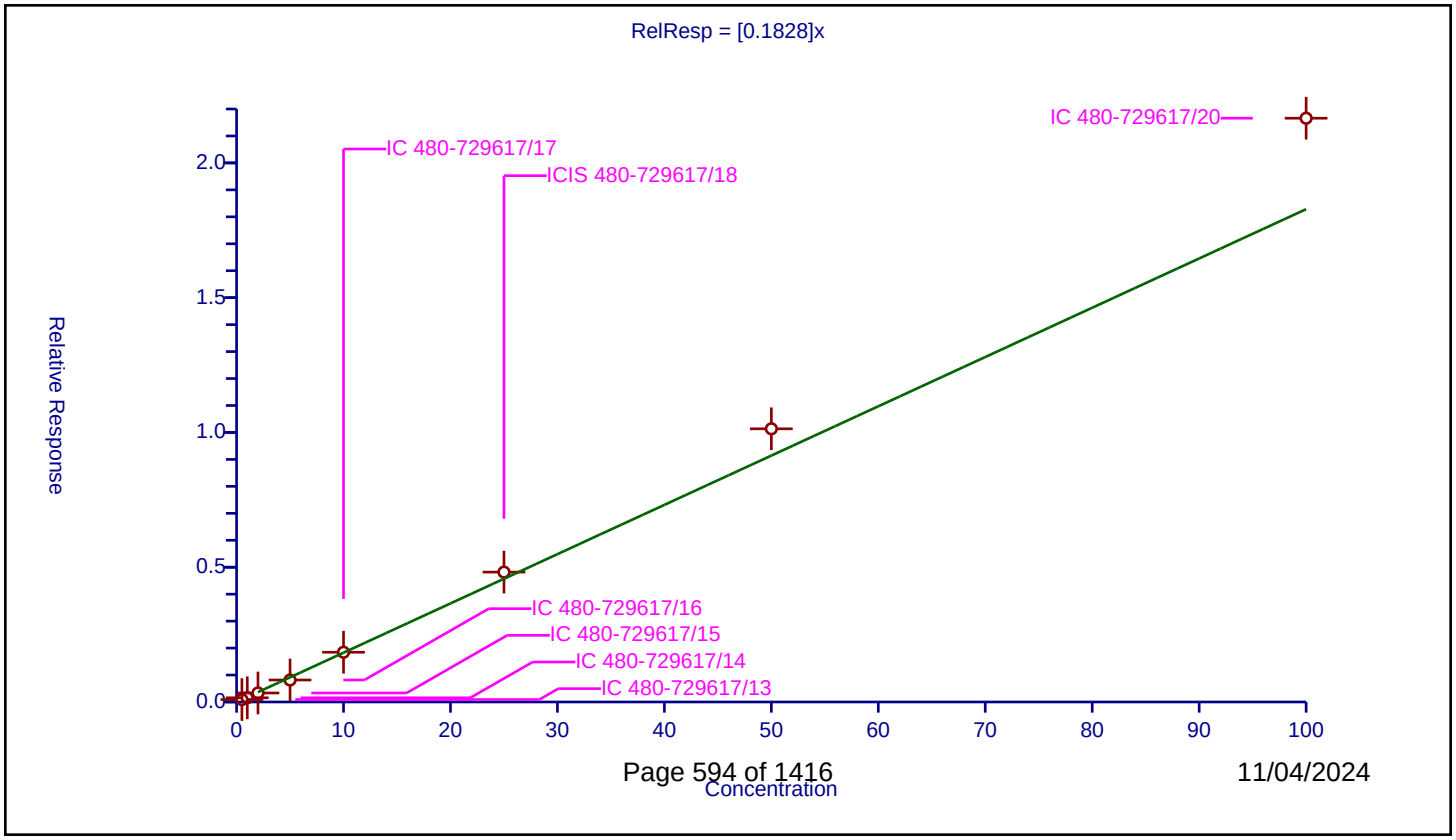
Curve Coefficients

Intercept:	0
Slope:	0.1828

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.090066	25.0	640920.0	0.180132	Y
2	IC 480-729617/14	1.0	0.155887	25.0	656244.0	0.155887	Y
3	IC 480-729617/15	2.0	0.334007	25.0	648789.0	0.167003	Y
4	IC 480-729617/16	5.0	0.815493	25.0	680417.0	0.163099	Y
5	IC 480-729617/17	10.0	1.845165	25.0	627437.0	0.184517	Y
6	ICIS 480-729617/18	25.0	4.818494	25.0	644937.0	0.19274	Y
7	IC 480-729617/19	50.0	10.13543	25.0	683861.0	0.202709	Y
8	IC 480-729617/20	100.0	21.65858	25.0	683407.0	0.216586	Y



11/04/2024

Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

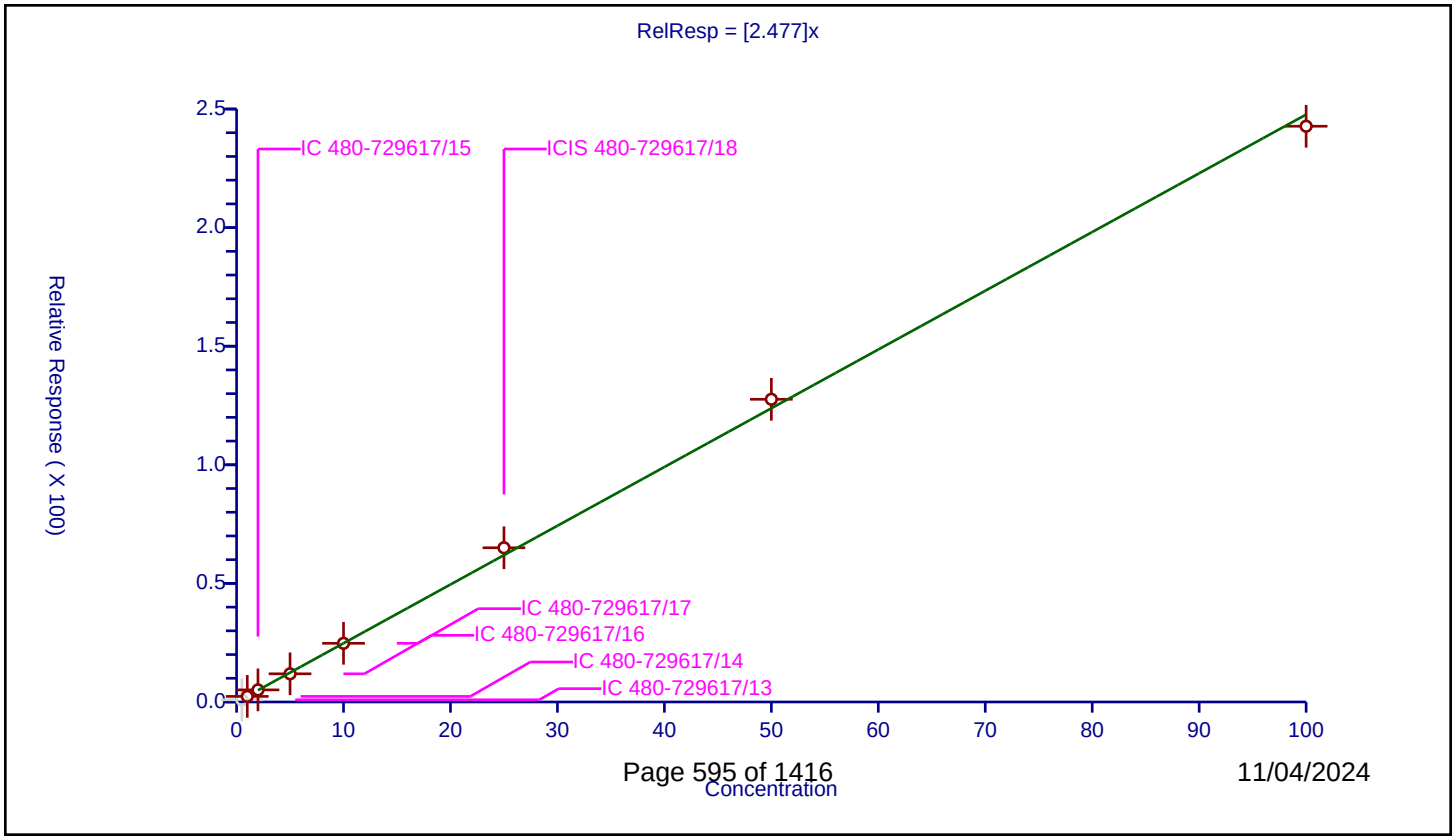
Curve Coefficients

Intercept:	0
Slope:	2.477

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.92496	25.0	329798.0	1.84992	N
2	IC 480-729617/14	1.0	2.35608	25.0	338348.0	2.35608	Y
3	IC 480-729617/15	2.0	5.100055	25.0	332516.0	2.550028	Y
4	IC 480-729617/16	5.0	11.879114	25.0	343944.0	2.375823	Y
5	IC 480-729617/17	10.0	24.737363	25.0	319262.0	2.473736	Y
6	ICIS 480-729617/18	25.0	65.021296	25.0	333633.0	2.600852	Y
7	IC 480-729617/19	50.0	127.626101	25.0	345141.0	2.552522	Y
8	IC 480-729617/20	100.0	242.741329	25.0	353770.0	2.427413	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

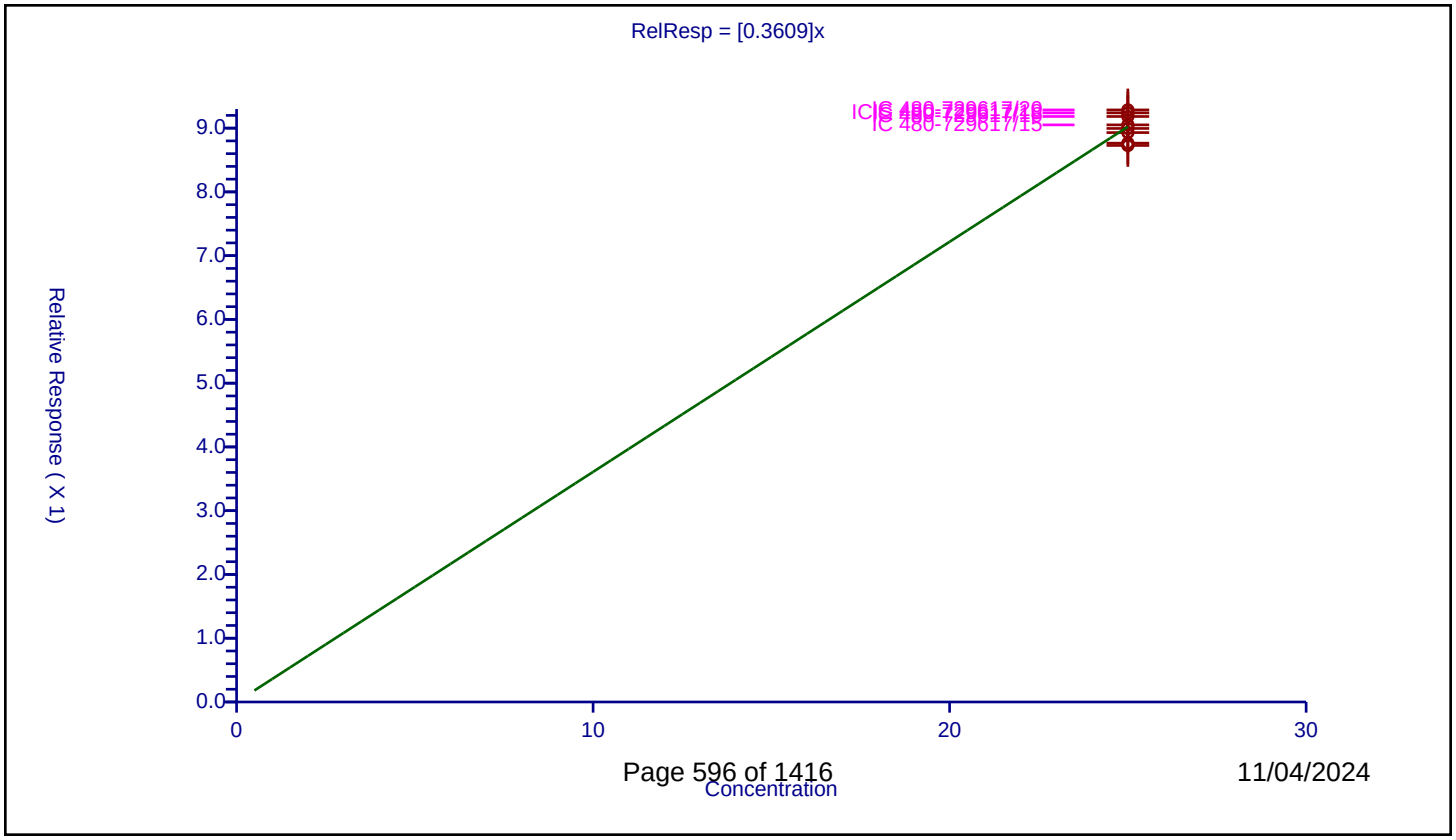
Curve Coefficients

Intercept:	0
Slope:	0.3609

Error Coefficients

Relative Standard Deviation:	2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	25.0	8.764549	25.0	640920.0	0.350582	Y
2	IC 480-729617/14	25.0	8.995016	25.0	656244.0	0.359801	Y
3	IC 480-729617/15	25.0	9.051248	25.0	648789.0	0.36205	Y
4	IC 480-729617/16	25.0	9.182935	25.0	680417.0	0.367317	Y
5	IC 480-729617/17	25.0	8.728247	25.0	627437.0	0.34913	Y
6	ICIS 480-729617/18	25.0	9.239158	25.0	644937.0	0.369566	Y
7	IC 480-729617/19	25.0	8.930141	25.0	683861.0	0.357206	Y
8	IC 480-729617/20	25.0	9.285645	25.0	683407.0	0.371426	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

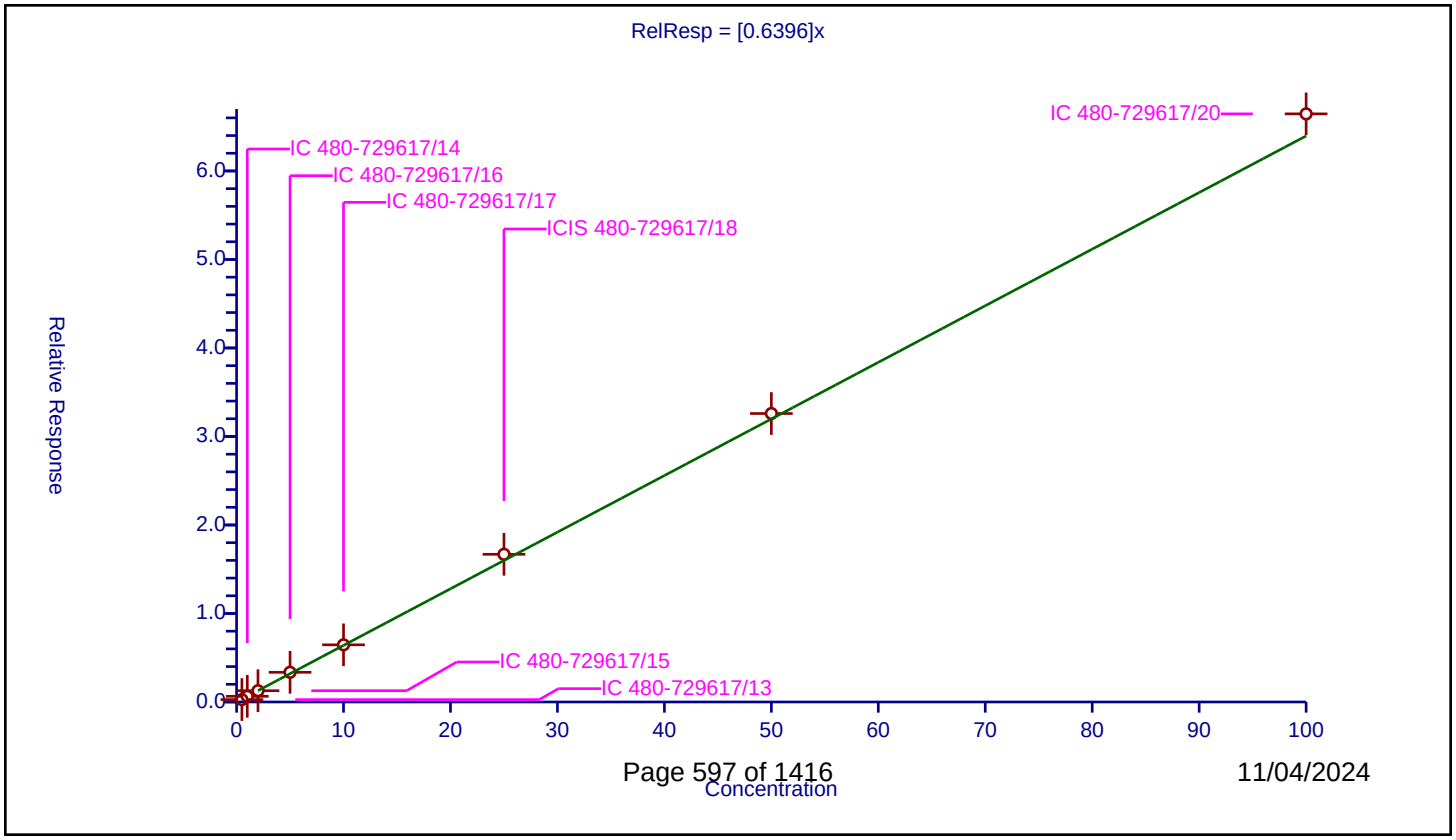
Curve Coefficients

Intercept:	0
Slope:	0.6396

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.268953	25.0	329798.0	0.537905	Y
2	IC 480-729617/14	1.0	0.64113	25.0	338348.0	0.64113	Y
3	IC 480-729617/15	2.0	1.273172	25.0	332516.0	0.636586	Y
4	IC 480-729617/16	5.0	3.355633	25.0	343944.0	0.671127	Y
5	IC 480-729617/17	10.0	6.459428	25.0	319262.0	0.645943	Y
6	ICIS 480-729617/18	25.0	16.688397	25.0	333633.0	0.667536	Y
7	IC 480-729617/19	50.0	32.593201	25.0	345141.0	0.651864	Y
8	IC 480-729617/20	100.0	66.451437	25.0	353770.0	0.664514	Y



11/04/2024

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

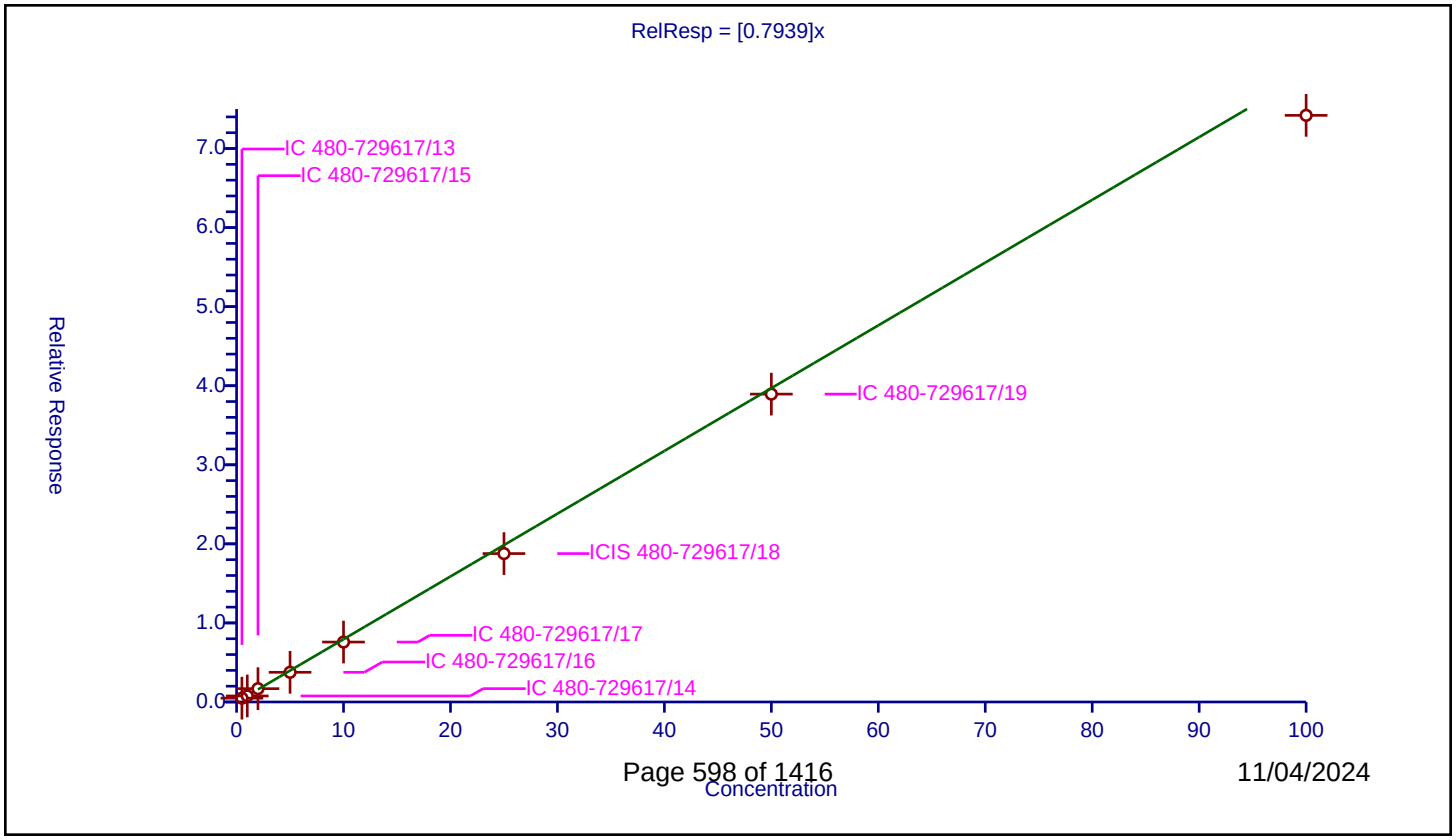
Curve Coefficients

Intercept:	0
Slope:	0.7939

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.482568	25.0	329798.0	0.965136	Y
2	IC 480-729617/14	1.0	0.762824	25.0	338348.0	0.762824	Y
3	IC 480-729617/15	2.0	1.683829	25.0	332516.0	0.841914	Y
4	IC 480-729617/16	5.0	3.756135	25.0	343944.0	0.751227	Y
5	IC 480-729617/17	10.0	7.581313	25.0	319262.0	0.758131	Y
6	ICIS 480-729617/18	25.0	18.772274	25.0	333633.0	0.750891	Y
7	IC 480-729617/19	50.0	38.942345	25.0	345141.0	0.778847	Y
8	IC 480-729617/20	100.0	74.198137	25.0	353770.0	0.741981	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

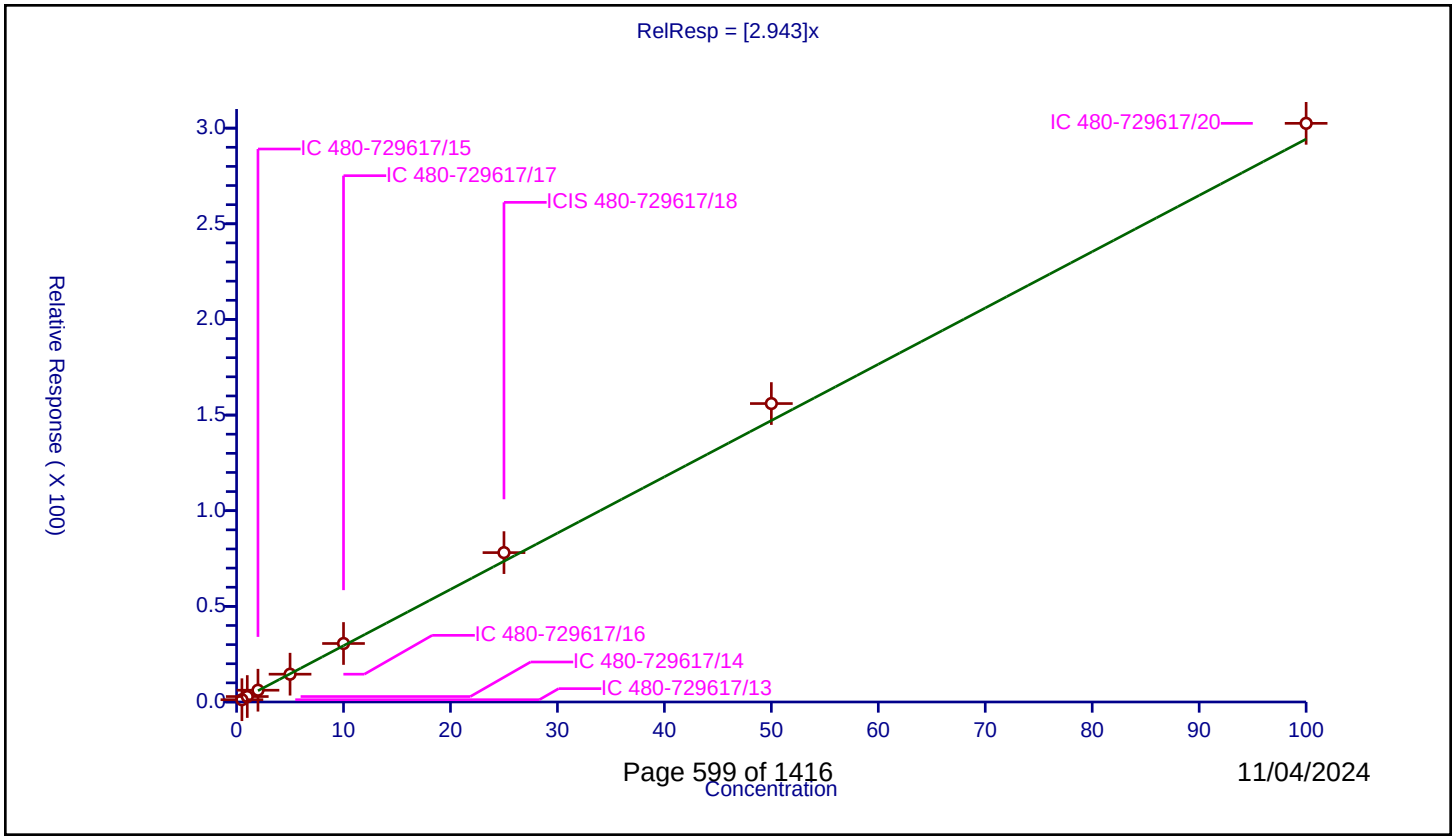
Curve Coefficients

Intercept:	0
Slope:	2.943

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.192018	25.0	329798.0	2.384035	Y
2	IC 480-729617/14	1.0	2.848029	25.0	338348.0	2.848029	Y
3	IC 480-729617/15	2.0	6.153463	25.0	332516.0	3.076732	Y
4	IC 480-729617/16	5.0	14.527074	25.0	343944.0	2.905415	Y
5	IC 480-729617/17	10.0	30.584755	25.0	319262.0	3.058475	Y
6	ICIS 480-729617/18	25.0	78.087974	25.0	333633.0	3.123519	Y
7	IC 480-729617/19	50.0	156.022104	25.0	345141.0	3.120442	Y
8	IC 480-729617/20	100.0	302.513215	25.0	353770.0	3.025132	Y



11/04/2024

Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

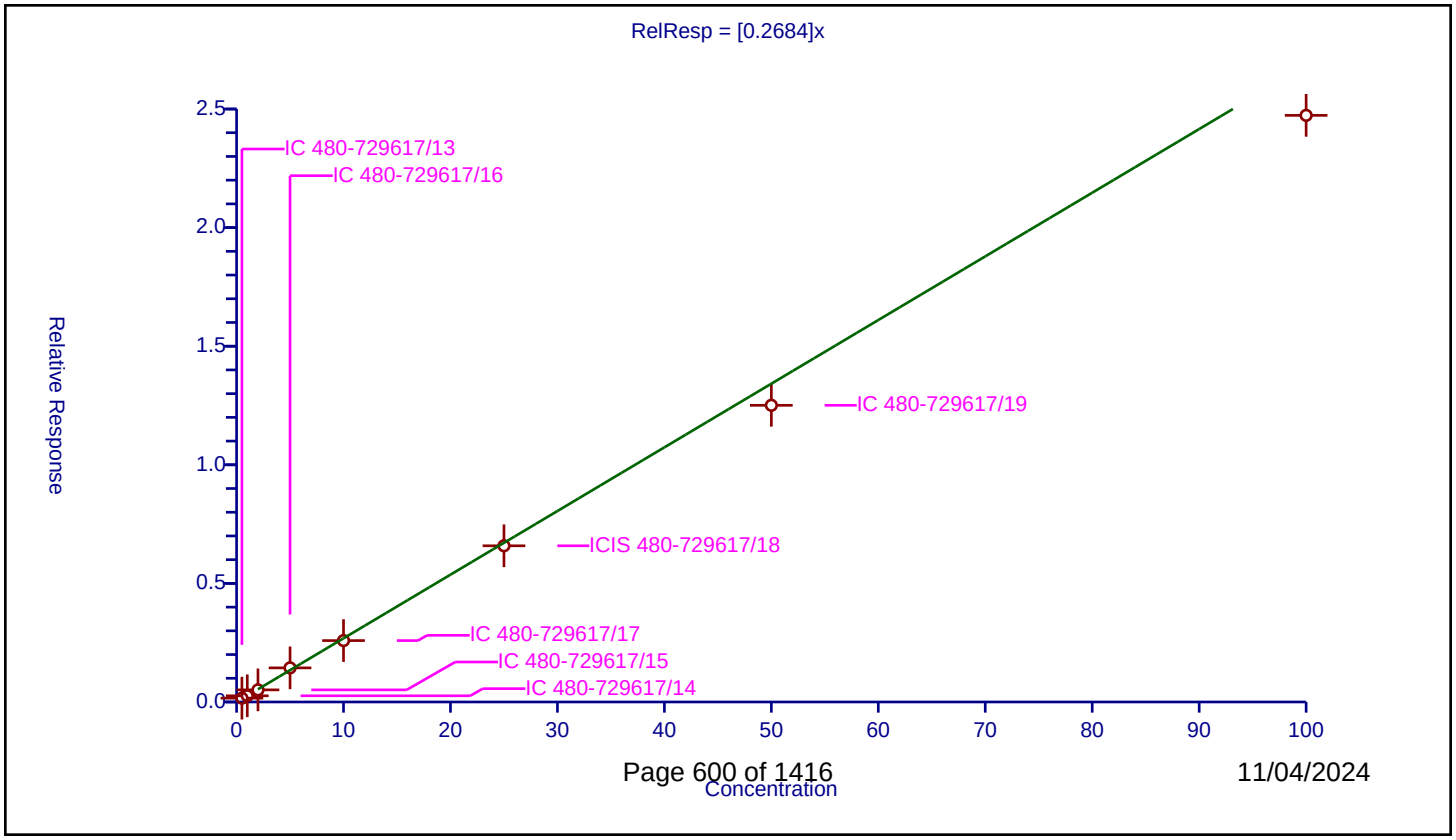
Curve Coefficients

Intercept:	0
Slope:	0.2684

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.161311	25.0	329798.0	0.322622	Y
2	IC 480-729617/14	1.0	0.261269	25.0	338348.0	0.261269	Y
3	IC 480-729617/15	2.0	0.511404	25.0	332516.0	0.255702	Y
4	IC 480-729617/16	5.0	1.438534	25.0	343944.0	0.287707	Y
5	IC 480-729617/17	10.0	2.588391	25.0	319262.0	0.258839	Y
6	ICIS 480-729617/18	25.0	6.585005	25.0	333633.0	0.2634	Y
7	IC 480-729617/19	50.0	12.508439	25.0	345141.0	0.250169	Y
8	IC 480-729617/20	100.0	24.731959	25.0	353770.0	0.24732	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

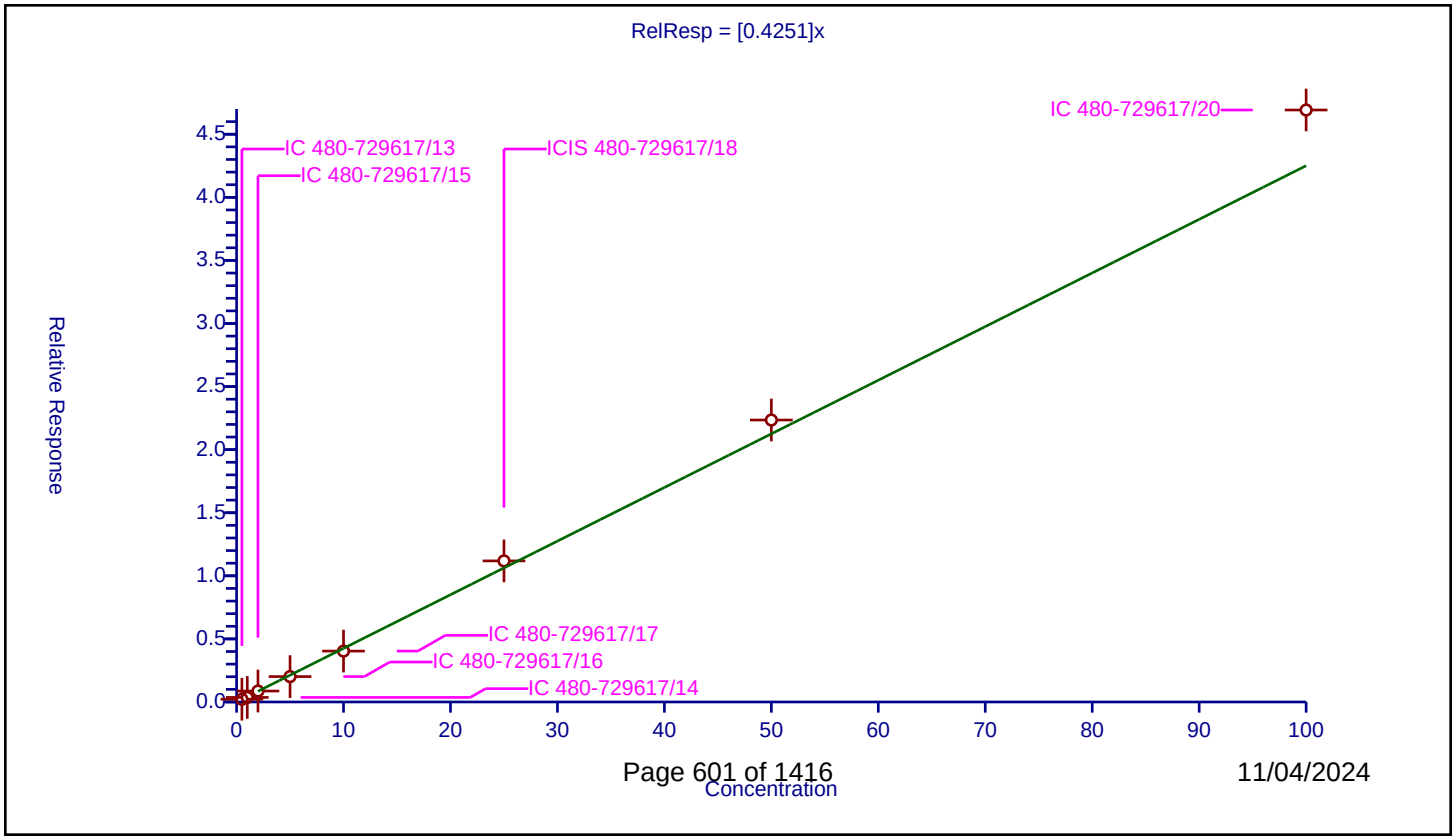
Curve Coefficients

Intercept:	0
Slope:	0.4251

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.216799	25.0	329798.0	0.433599	Y
2	IC 480-729617/14	1.0	0.362866	25.0	338348.0	0.362866	Y
3	IC 480-729617/15	2.0	0.868605	25.0	332516.0	0.434302	Y
4	IC 480-729617/16	5.0	2.014209	25.0	343944.0	0.402842	Y
5	IC 480-729617/17	10.0	4.033364	25.0	319262.0	0.403336	Y
6	ICIS 480-729617/18	25.0	11.181823	25.0	333633.0	0.447273	Y
7	IC 480-729617/19	50.0	22.348113	25.0	345141.0	0.446962	Y
8	IC 480-729617/20	100.0	46.922365	25.0	353770.0	0.469224	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

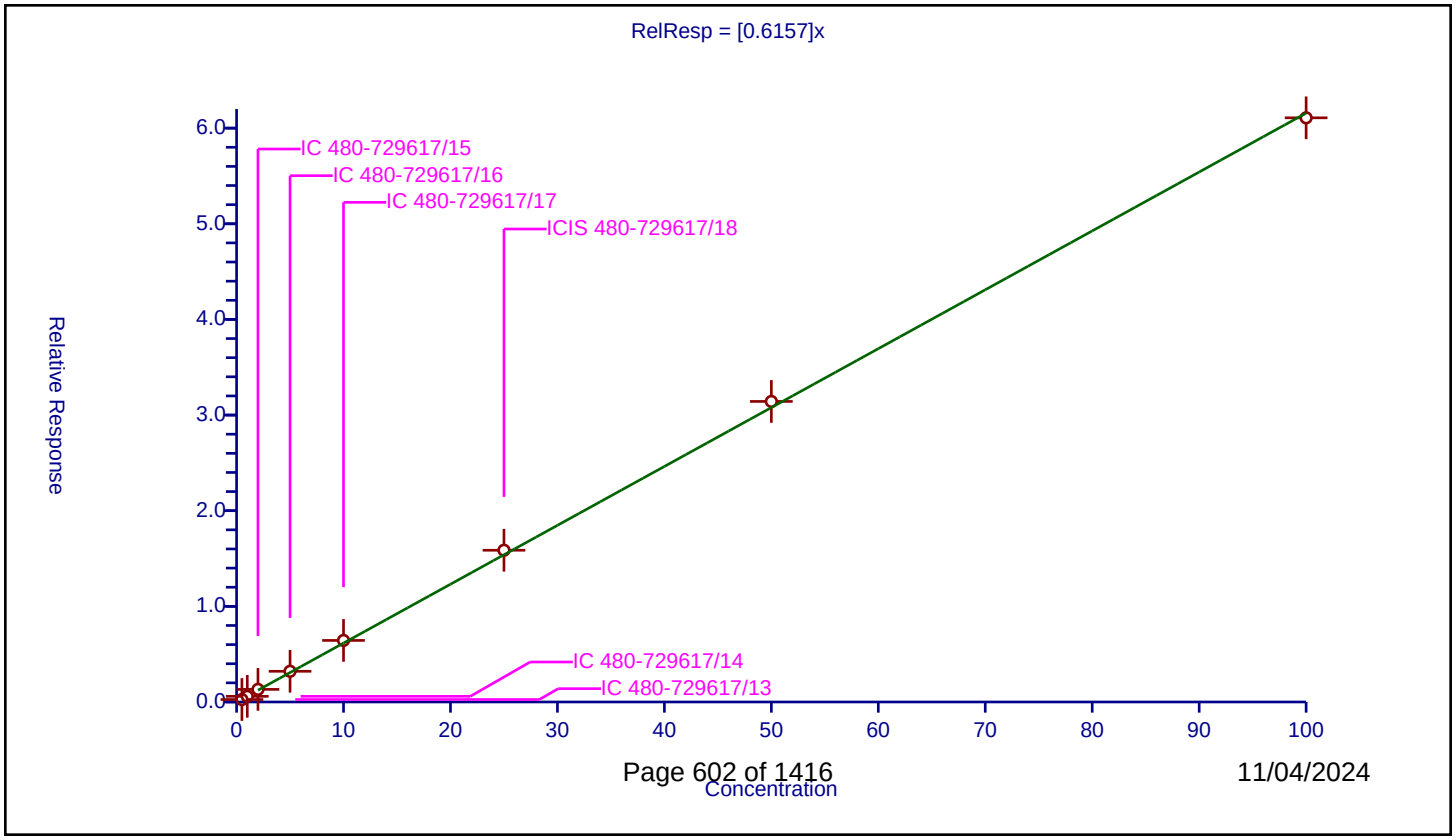
Curve Coefficients

Intercept:	0
Slope:	0.6157

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.256975	25.0	329798.0	0.513951	Y
2	IC 480-729617/14	1.0	0.592659	25.0	338348.0	0.592659	Y
3	IC 480-729617/15	2.0	1.318508	25.0	332516.0	0.659254	Y
4	IC 480-729617/16	5.0	3.209679	25.0	343944.0	0.641936	Y
5	IC 480-729617/17	10.0	6.436641	25.0	319262.0	0.643664	Y
6	ICIS 480-729617/18	25.0	15.86766	25.0	333633.0	0.634706	Y
7	IC 480-729617/19	50.0	31.423896	25.0	345141.0	0.628478	Y
8	IC 480-729617/20	100.0	61.080222	25.0	353770.0	0.610802	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

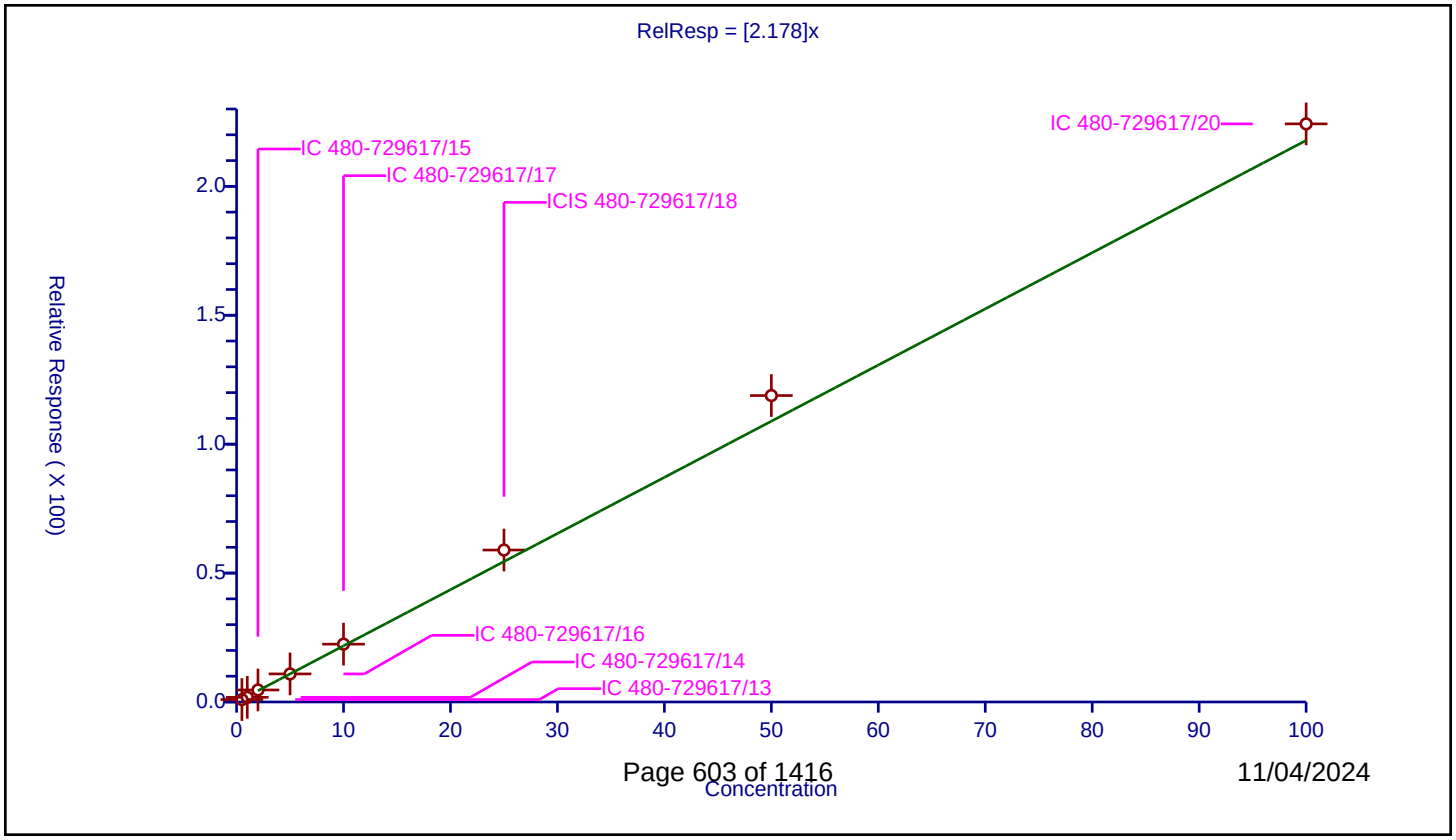
Curve Coefficients

Intercept:	0
Slope:	2.178

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.94141	25.0	329798.0	1.882819	Y
2	IC 480-729617/14	1.0	1.816325	25.0	338348.0	1.816325	Y
3	IC 480-729617/15	2.0	4.660753	25.0	332516.0	2.330377	Y
4	IC 480-729617/16	5.0	10.882876	25.0	343944.0	2.176575	Y
5	IC 480-729617/17	10.0	22.424607	25.0	319262.0	2.242461	Y
6	ICIS 480-729617/18	25.0	58.936541	25.0	333633.0	2.357462	Y
7	IC 480-729617/19	50.0	118.857366	25.0	345141.0	2.377147	Y
8	IC 480-729617/20	100.0	224.238064	25.0	353770.0	2.242381	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

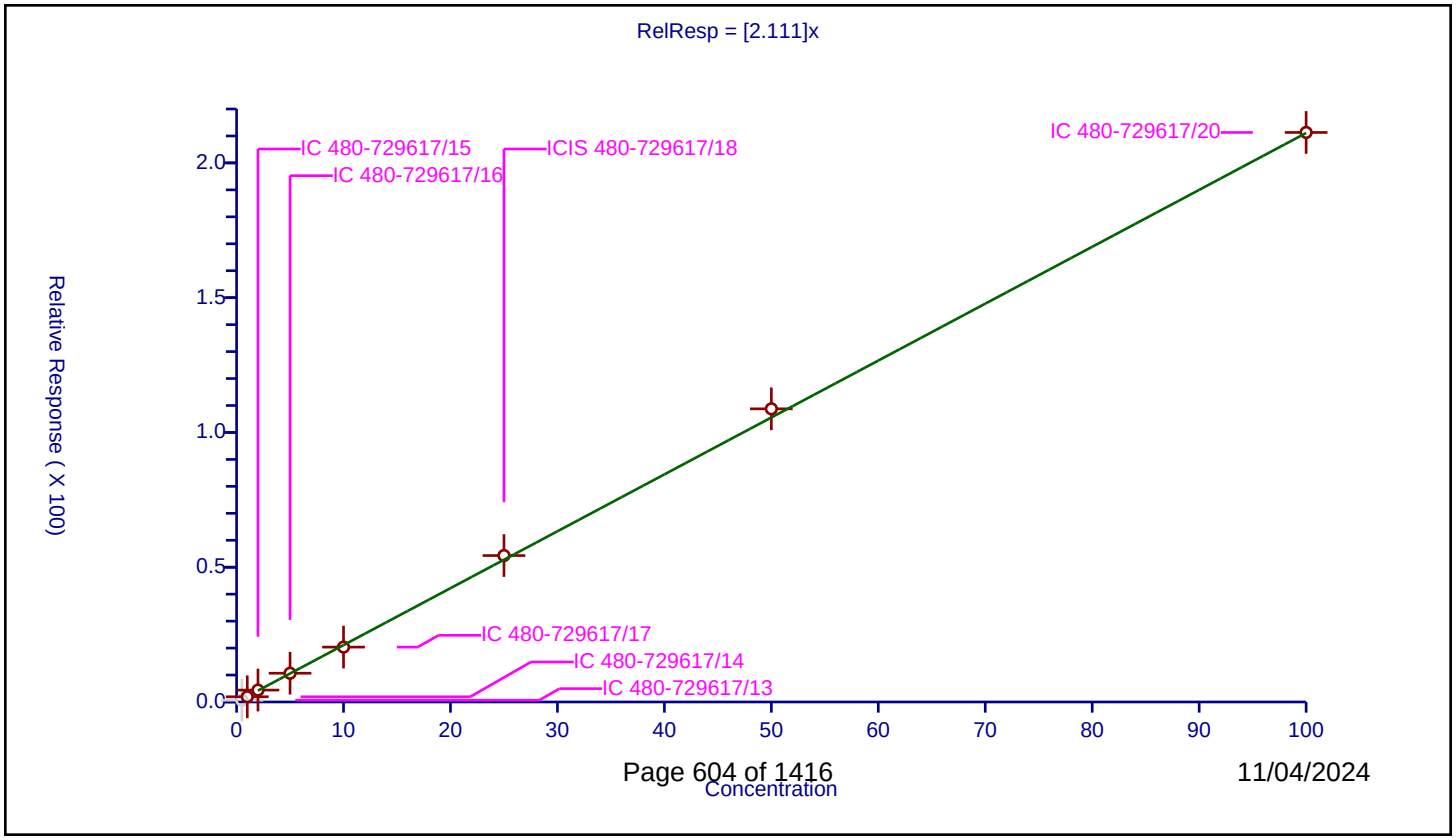
Curve Coefficients

Intercept:	0
Slope:	2.111

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.664801	25.0	329798.0	1.329602	N
2	IC 480-729617/14	1.0	1.936985	25.0	338348.0	1.936985	Y
3	IC 480-729617/15	2.0	4.41693	25.0	332516.0	2.208465	Y
4	IC 480-729617/16	5.0	10.665981	25.0	343944.0	2.133196	Y
5	IC 480-729617/17	10.0	20.369634	25.0	319262.0	2.036963	Y
6	ICIS 480-729617/18	25.0	54.334179	25.0	333633.0	2.173367	Y
7	IC 480-729617/19	50.0	108.762651	25.0	345141.0	2.175253	Y
8	IC 480-729617/20	100.0	211.303743	25.0	353770.0	2.113037	Y



11/04/2024

Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

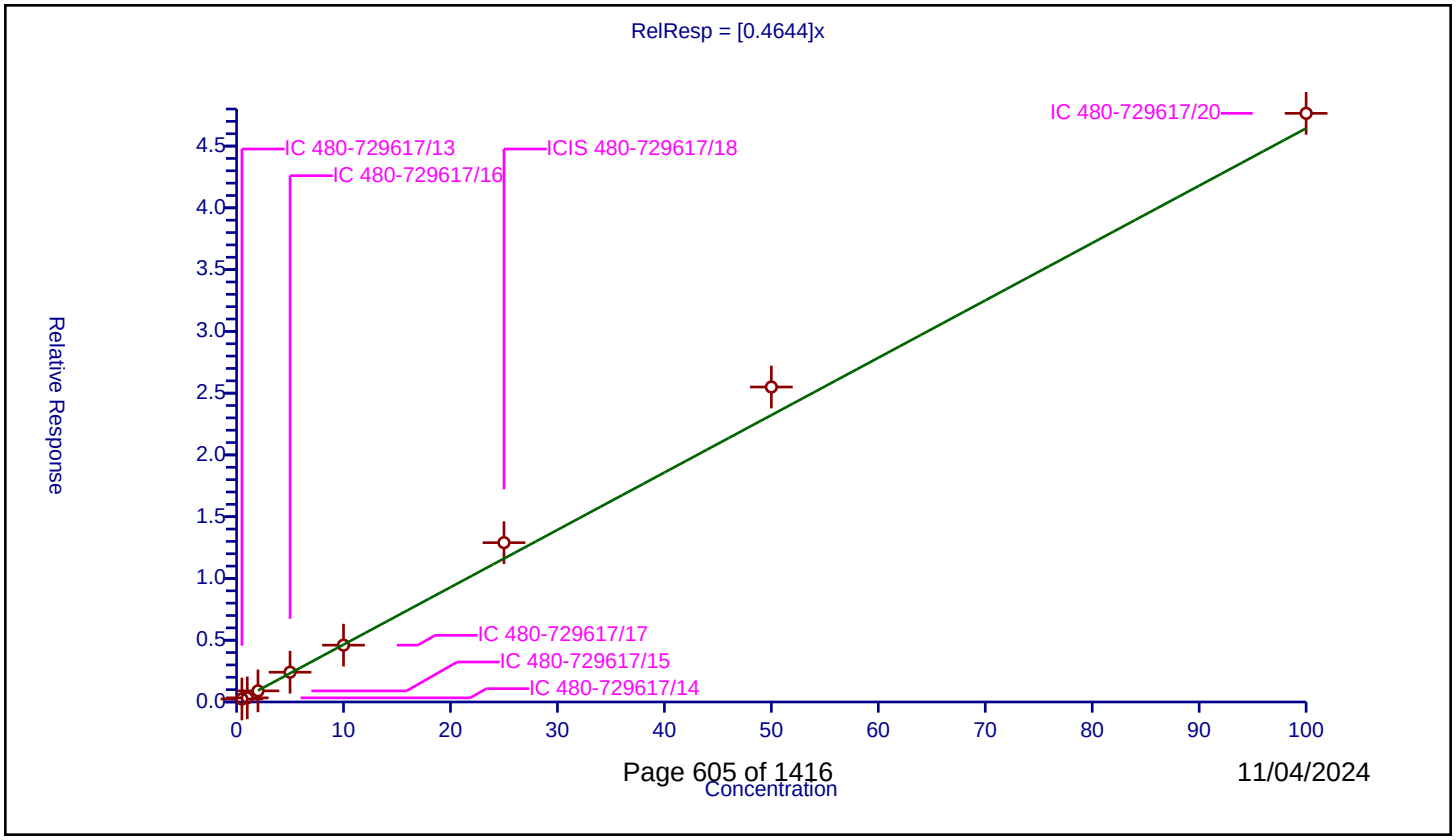
Curve Coefficients

Intercept:	0
Slope:	0.4644

Error Coefficients

Relative Standard Deviation:	12.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.243179	25.0	329798.0	0.486358	Y
2	IC 480-729617/14	1.0	0.334862	25.0	338348.0	0.334862	Y
3	IC 480-729617/15	2.0	0.898453	25.0	332516.0	0.449227	Y
4	IC 480-729617/16	5.0	2.410567	25.0	343944.0	0.482113	Y
5	IC 480-729617/17	10.0	4.601315	25.0	319262.0	0.460131	Y
6	ICIS 480-729617/18	25.0	12.896881	25.0	333633.0	0.515875	Y
7	IC 480-729617/19	50.0	25.497043	25.0	345141.0	0.509941	Y
8	IC 480-729617/20	100.0	47.650875	25.0	353770.0	0.476509	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

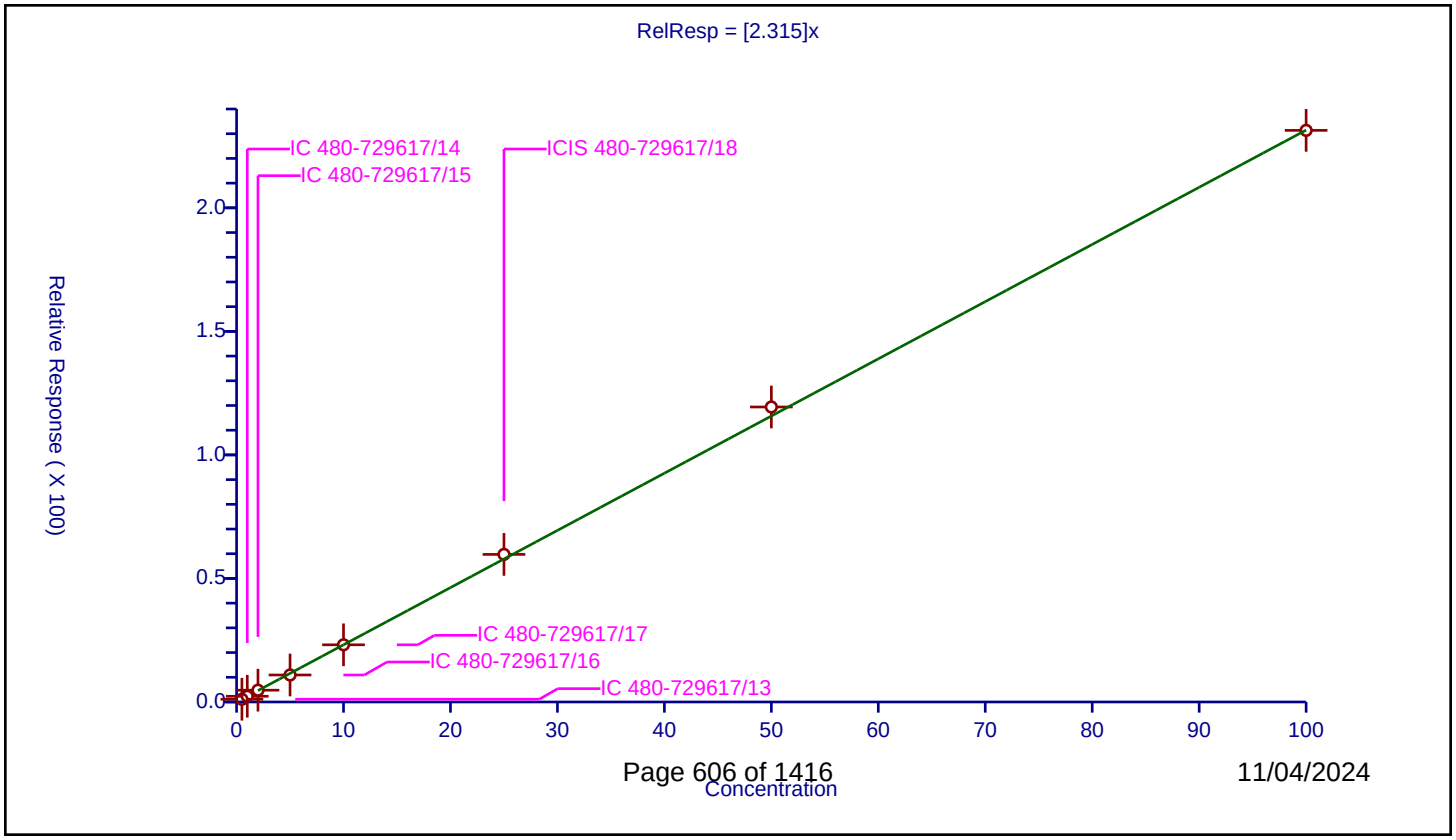
Curve Coefficients

Intercept:	0
Slope:	2.315

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.11159	25.0	329798.0	2.223179	Y
2	IC 480-729617/14	1.0	2.316698	25.0	338348.0	2.316698	Y
3	IC 480-729617/15	2.0	4.772477	25.0	332516.0	2.386239	Y
4	IC 480-729617/16	5.0	10.932376	25.0	343944.0	2.186475	Y
5	IC 480-729617/17	10.0	23.141573	25.0	319262.0	2.314157	Y
6	ICIS 480-729617/18	25.0	59.739219	25.0	333633.0	2.389569	Y
7	IC 480-729617/19	50.0	119.394392	25.0	345141.0	2.387888	Y
8	IC 480-729617/20	100.0	231.359075	25.0	353770.0	2.313591	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

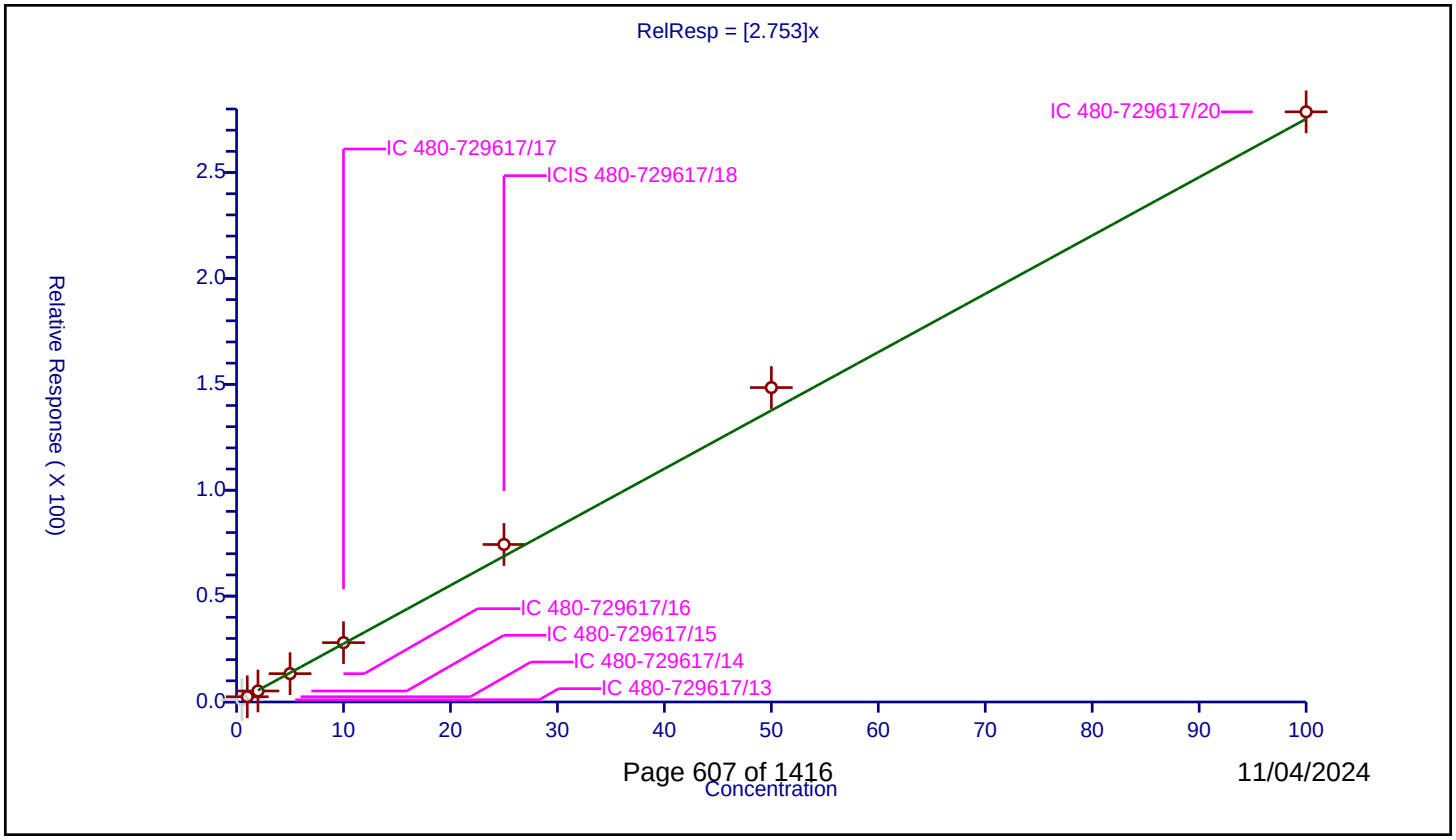
Curve Coefficients

Intercept:	0
Slope:	2.753

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.069822	25.0	329798.0	2.139643	N
2	IC 480-729617/14	1.0	2.468464	25.0	338348.0	2.468464	Y
3	IC 480-729617/15	2.0	5.190051	25.0	332516.0	2.595026	Y
4	IC 480-729617/16	5.0	13.381466	25.0	343944.0	2.676293	Y
5	IC 480-729617/17	10.0	28.023849	25.0	319262.0	2.802385	Y
6	ICIS 480-729617/18	25.0	74.376785	25.0	333633.0	2.975071	Y
7	IC 480-729617/19	50.0	148.460122	25.0	345141.0	2.969202	Y
8	IC 480-729617/20	100.0	278.66269	25.0	353770.0	2.786627	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

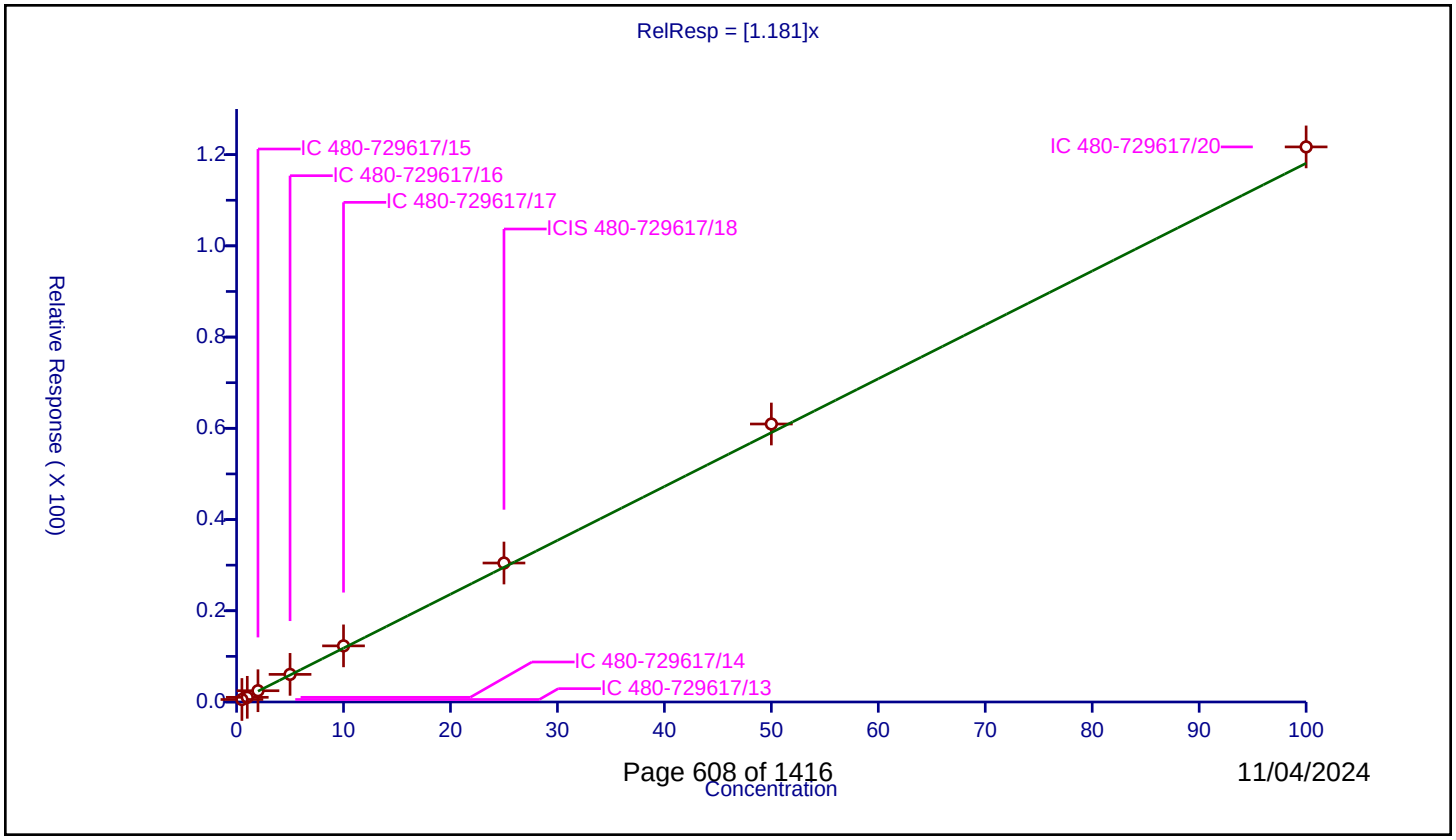
Curve Coefficients

Intercept:	0
Slope:	1.181

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.548139	25.0	329798.0	1.096277	Y
2	IC 480-729617/14	1.0	1.023355	25.0	338348.0	1.023355	Y
3	IC 480-729617/15	2.0	2.468002	25.0	332516.0	1.234001	Y
4	IC 480-729617/16	5.0	6.052075	25.0	343944.0	1.210415	Y
5	IC 480-729617/17	10.0	12.301574	25.0	319262.0	1.230157	Y
6	ICIS 480-729617/18	25.0	30.466186	25.0	333633.0	1.218647	Y
7	IC 480-729617/19	50.0	60.945382	25.0	345141.0	1.218908	Y
8	IC 480-729617/20	100.0	121.691282	25.0	353770.0	1.216913	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

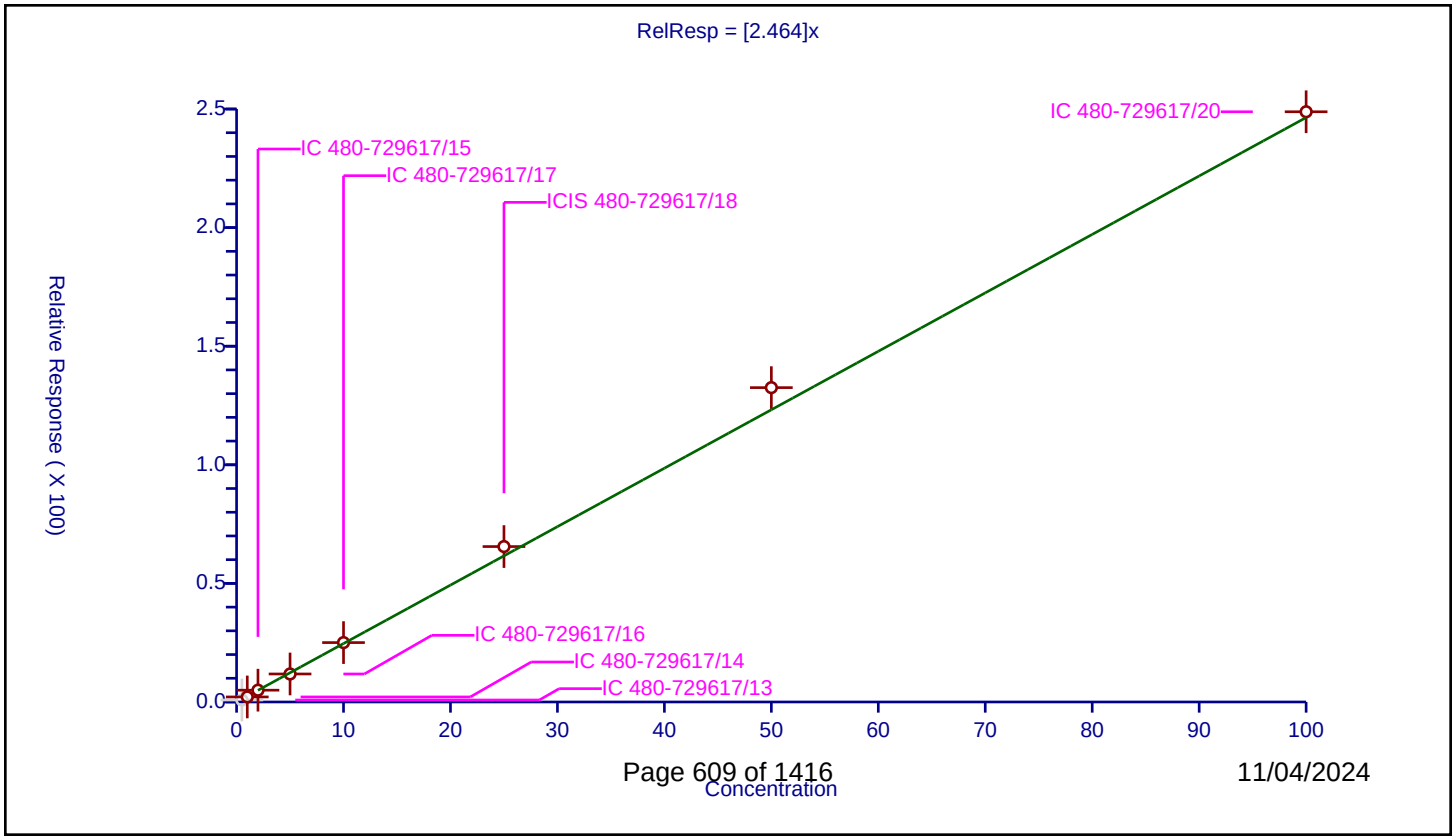
Curve Coefficients

Intercept:	0
Slope:	2.464

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.835057	25.0	329798.0	1.670113	N
2	IC 480-729617/14	1.0	2.133824	25.0	338348.0	2.133824	Y
3	IC 480-729617/15	2.0	4.976377	25.0	332516.0	2.488189	Y
4	IC 480-729617/16	5.0	11.807954	25.0	343944.0	2.361591	Y
5	IC 480-729617/17	10.0	25.047531	25.0	319262.0	2.504753	Y
6	ICIS 480-729617/18	25.0	65.52784	25.0	333633.0	2.621114	Y
7	IC 480-729617/19	50.0	132.535761	25.0	345141.0	2.650715	Y
8	IC 480-729617/20	100.0	248.841479	25.0	353770.0	2.488415	Y



11/04/2024

Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

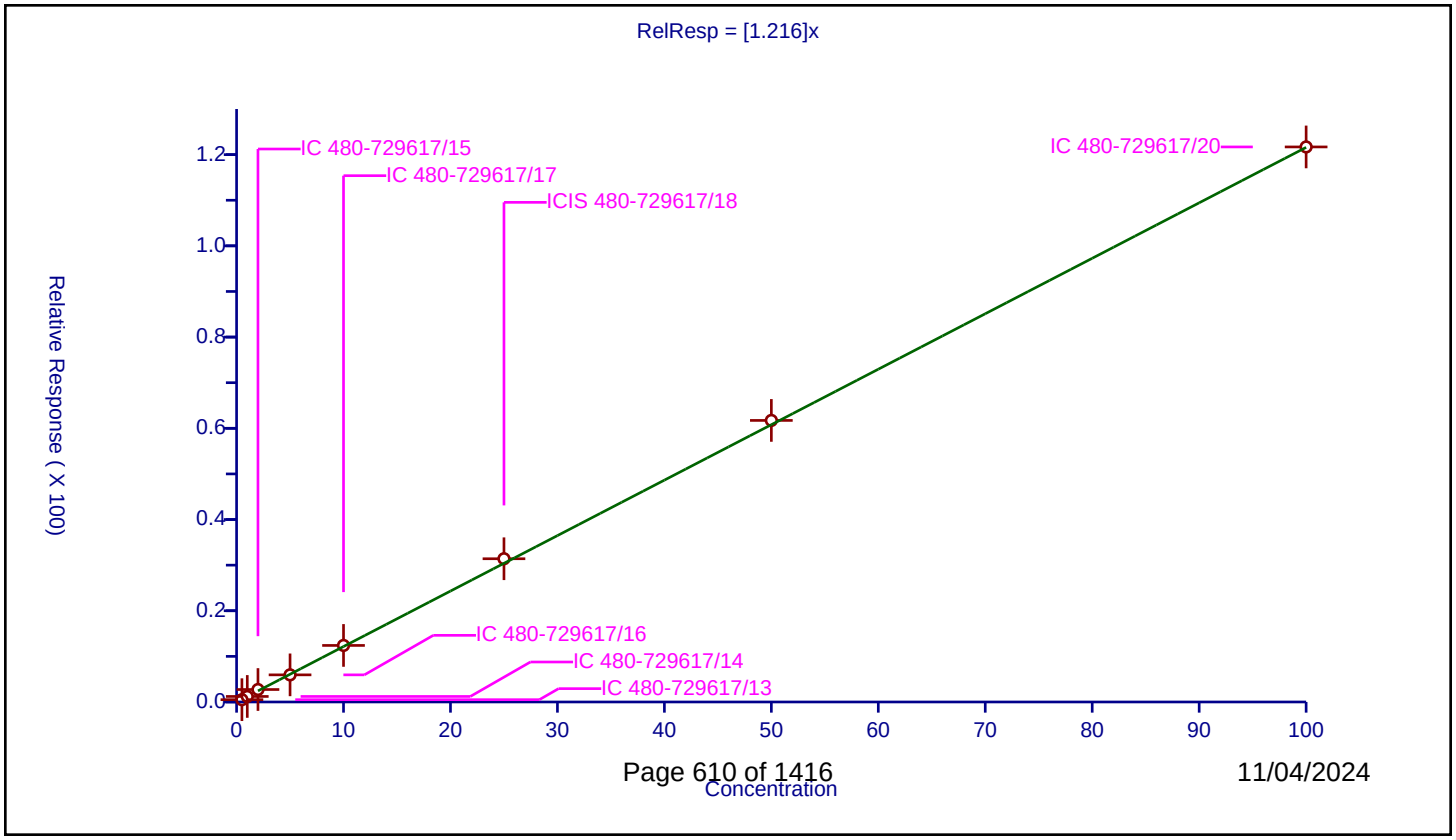
Curve Coefficients

Intercept:	0
Slope:	1.216

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.505688	25.0	329798.0	1.011377	Y
2	IC 480-729617/14	1.0	1.212731	25.0	338348.0	1.212731	Y
3	IC 480-729617/15	2.0	2.731748	25.0	332516.0	1.365874	Y
4	IC 480-729617/16	5.0	5.948279	25.0	343944.0	1.189656	Y
5	IC 480-729617/17	10.0	12.399456	25.0	319262.0	1.239946	Y
6	ICIS 480-729617/18	25.0	31.405841	25.0	333633.0	1.256234	Y
7	IC 480-729617/19	50.0	61.725136	25.0	345141.0	1.234503	Y
8	IC 480-729617/20	100.0	121.686477	25.0	353770.0	1.216865	Y



11/04/2024

Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

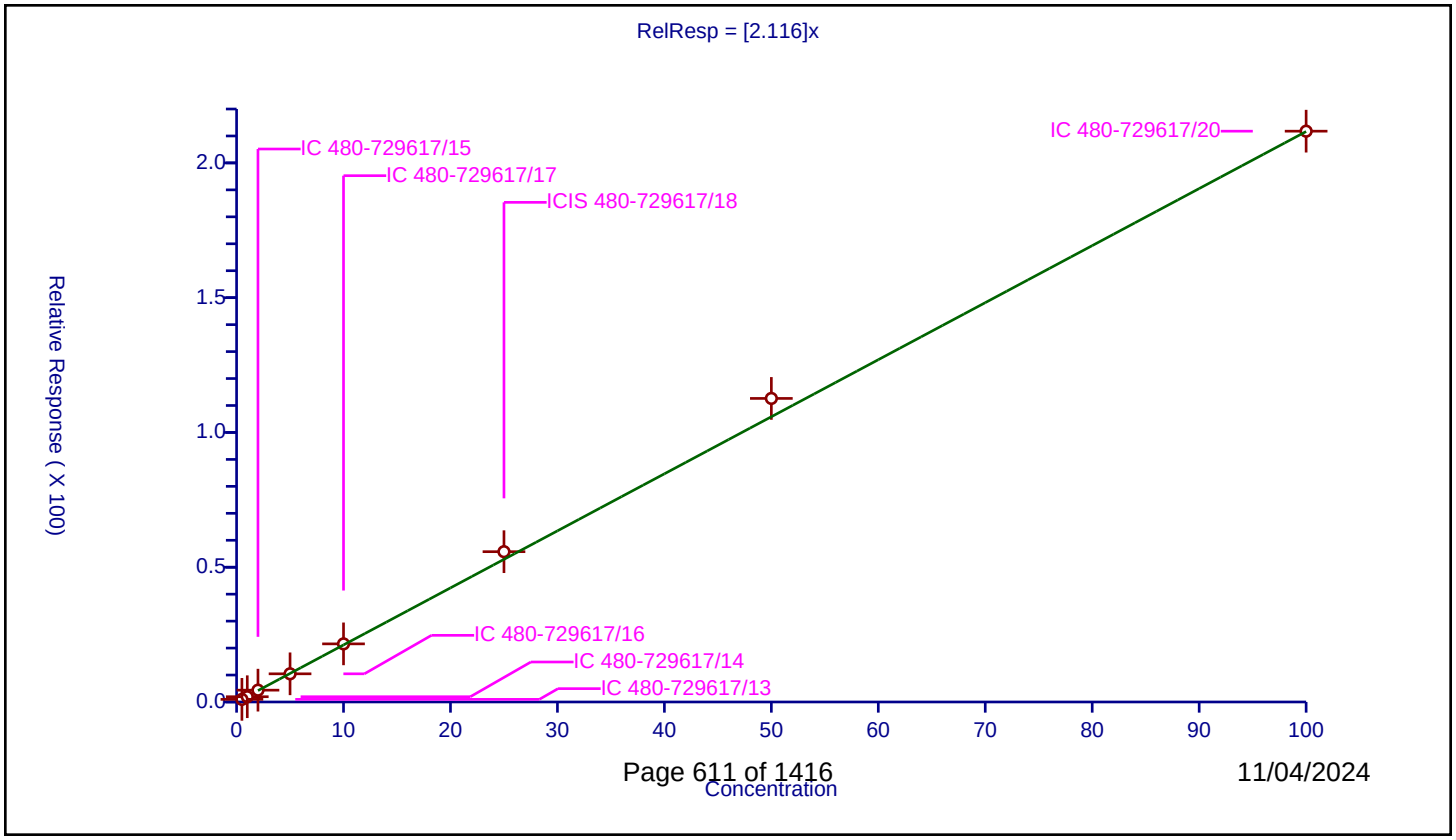
Curve Coefficients

Intercept:	0
Slope:	2.116

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.96976	25.0	329798.0	1.939521	Y
2	IC 480-729617/14	1.0	1.950359	25.0	338348.0	1.950359	Y
3	IC 480-729617/15	2.0	4.387383	25.0	332516.0	2.193691	Y
4	IC 480-729617/16	5.0	10.455917	25.0	343944.0	2.091183	Y
5	IC 480-729617/17	10.0	21.562541	25.0	319262.0	2.156254	Y
6	ICIS 480-729617/18	25.0	55.765467	25.0	333633.0	2.230619	Y
7	IC 480-729617/19	50.0	112.629041	25.0	345141.0	2.252581	Y
8	IC 480-729617/20	100.0	211.775094	25.0	353770.0	2.117751	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

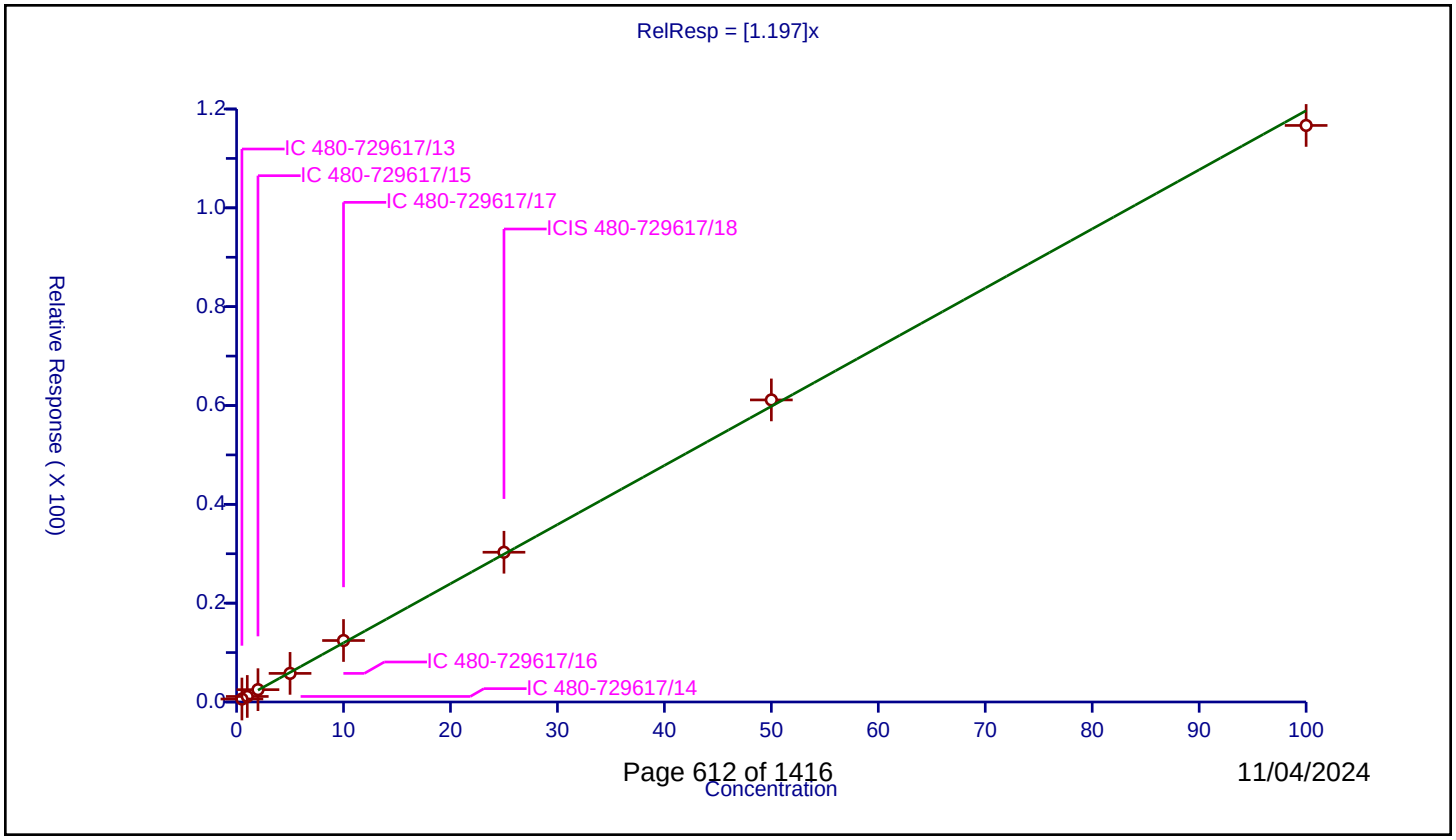
Curve Coefficients

Intercept:	0
Slope:	1.197

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.60014	25.0	329798.0	1.20028	Y
2	IC 480-729617/14	1.0	1.121774	25.0	338348.0	1.121774	Y
3	IC 480-729617/15	2.0	2.497624	25.0	332516.0	1.248812	Y
4	IC 480-729617/16	5.0	5.786843	25.0	343944.0	1.157369	Y
5	IC 480-729617/17	10.0	12.439078	25.0	319262.0	1.243908	Y
6	ICIS 480-729617/18	25.0	30.302233	25.0	333633.0	1.212089	Y
7	IC 480-729617/19	50.0	61.129147	25.0	345141.0	1.222583	Y
8	IC 480-729617/20	100.0	116.675736	25.0	353770.0	1.166757	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

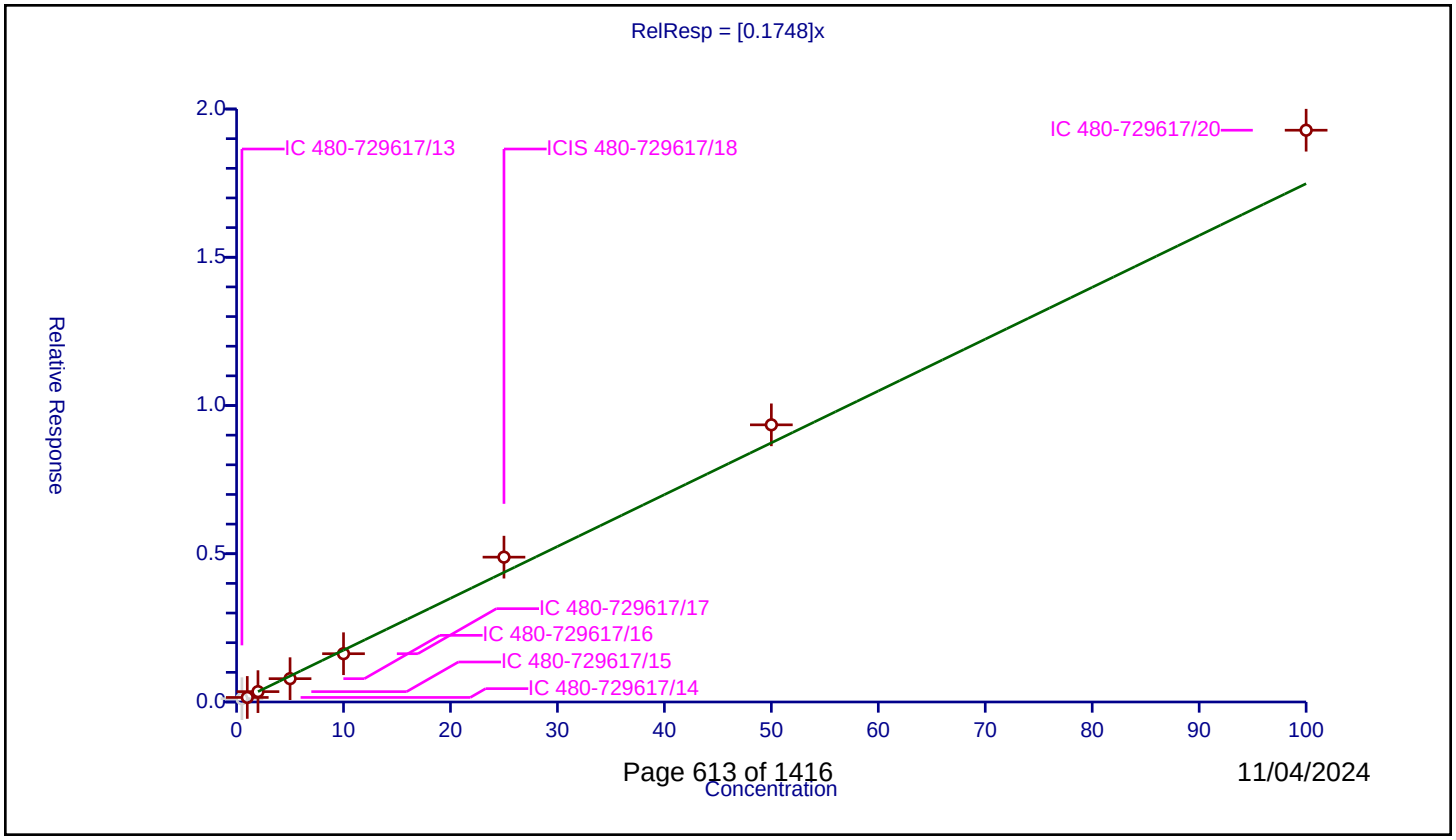
Curve Coefficients

Intercept:	0
Slope:	0.1748

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.112114	25.0	329798.0	0.224228	N
2	IC 480-729617/14	1.0	0.153762	25.0	338348.0	0.153762	Y
3	IC 480-729617/15	2.0	0.349081	25.0	332516.0	0.17454	Y
4	IC 480-729617/16	5.0	0.786974	25.0	343944.0	0.157395	Y
5	IC 480-729617/17	10.0	1.628756	25.0	319262.0	0.162876	Y
6	ICIS 480-729617/18	25.0	4.885083	25.0	333633.0	0.195403	Y
7	IC 480-729617/19	50.0	9.347701	25.0	345141.0	0.186954	Y
8	IC 480-729617/20	100.0	19.285058	25.0	353770.0	0.192851	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

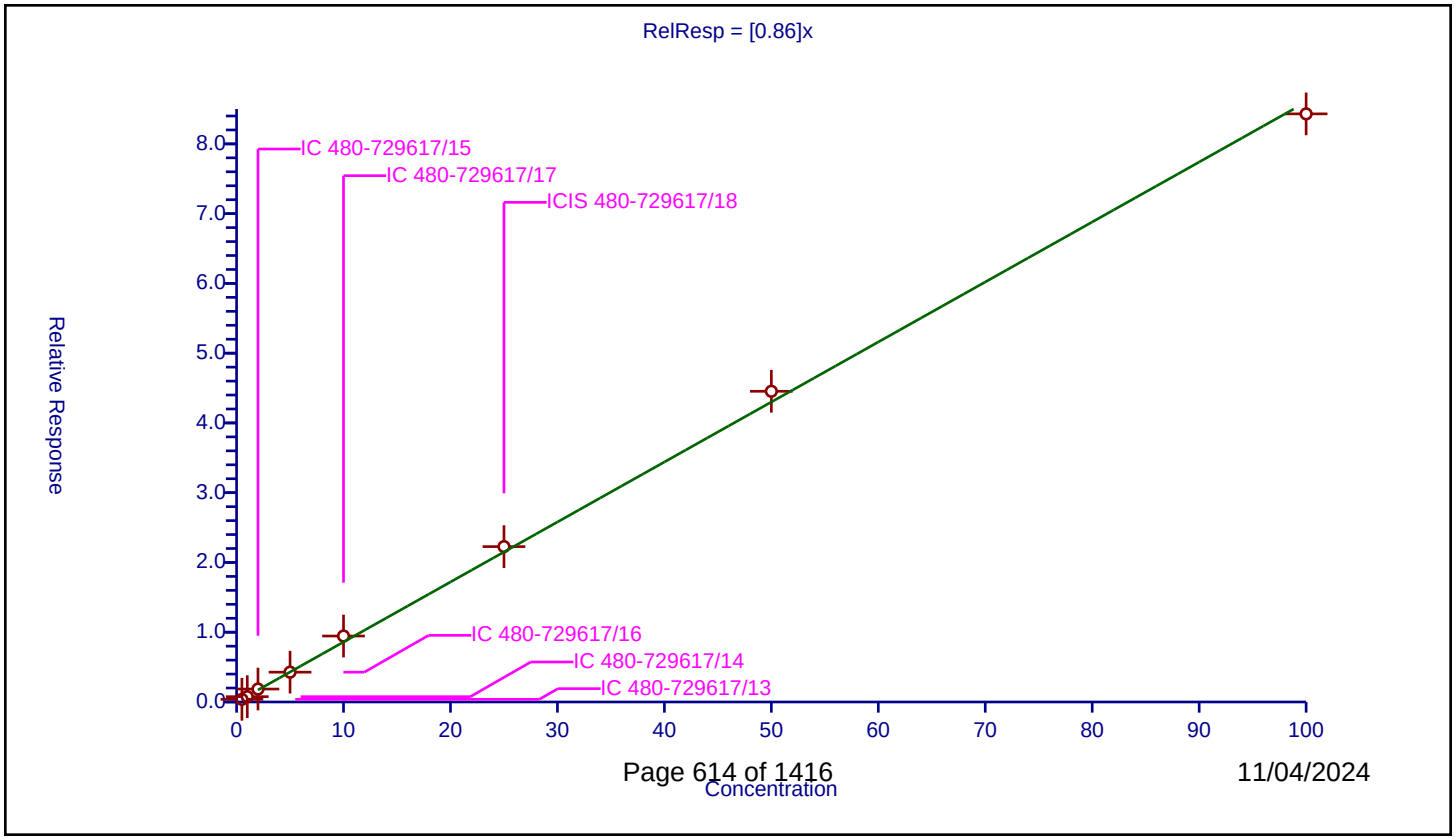
Curve Coefficients

Intercept:	0
Slope:	0.86

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.38281	25.0	329798.0	0.76562	Y
2	IC 480-729617/14	1.0	0.761199	25.0	338348.0	0.761199	Y
3	IC 480-729617/15	2.0	1.856978	25.0	332516.0	0.928489	Y
4	IC 480-729617/16	5.0	4.27446	25.0	343944.0	0.854892	Y
5	IC 480-729617/17	10.0	9.453599	25.0	319262.0	0.94536	Y
6	ICIS 480-729617/18	25.0	22.270804	25.0	333633.0	0.890832	Y
7	IC 480-729617/19	50.0	44.538392	25.0	345141.0	0.890768	Y
8	IC 480-729617/20	100.0	84.305552	25.0	353770.0	0.843056	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

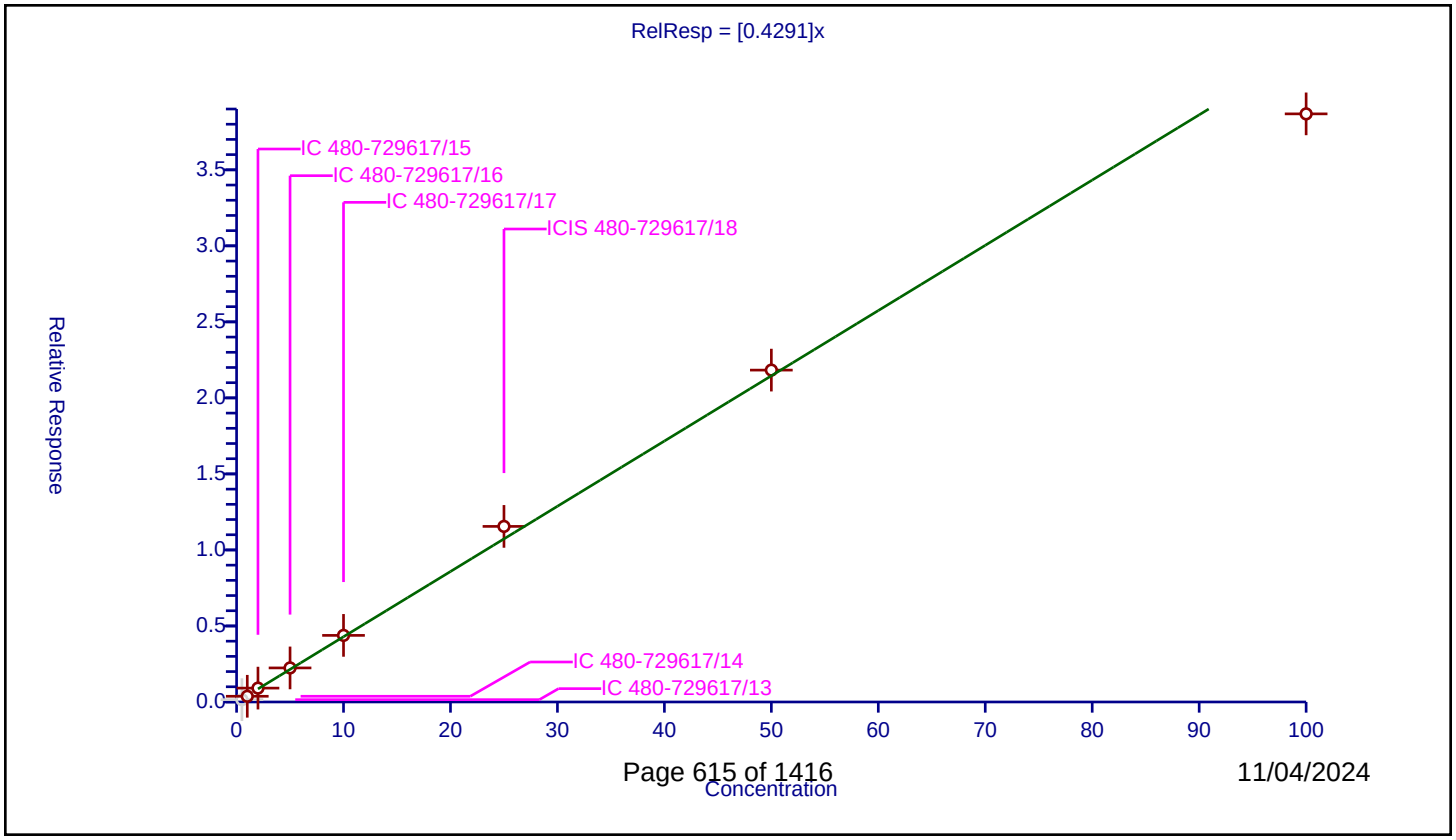
Curve Coefficients

Intercept:	0
Slope:	0.4291

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.1532	25.0	329798.0	0.3064	N
2	IC 480-729617/14	1.0	0.375575	25.0	338348.0	0.375575	Y
3	IC 480-729617/15	2.0	0.913189	25.0	332516.0	0.456595	Y
4	IC 480-729617/16	5.0	2.240481	25.0	343944.0	0.448096	Y
5	IC 480-729617/17	10.0	4.379553	25.0	319262.0	0.437955	Y
6	ICIS 480-729617/18	25.0	11.547868	25.0	333633.0	0.461915	Y
7	IC 480-729617/19	50.0	21.827818	25.0	345141.0	0.436556	Y
8	IC 480-729617/20	100.0	38.681135	25.0	353770.0	0.386811	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

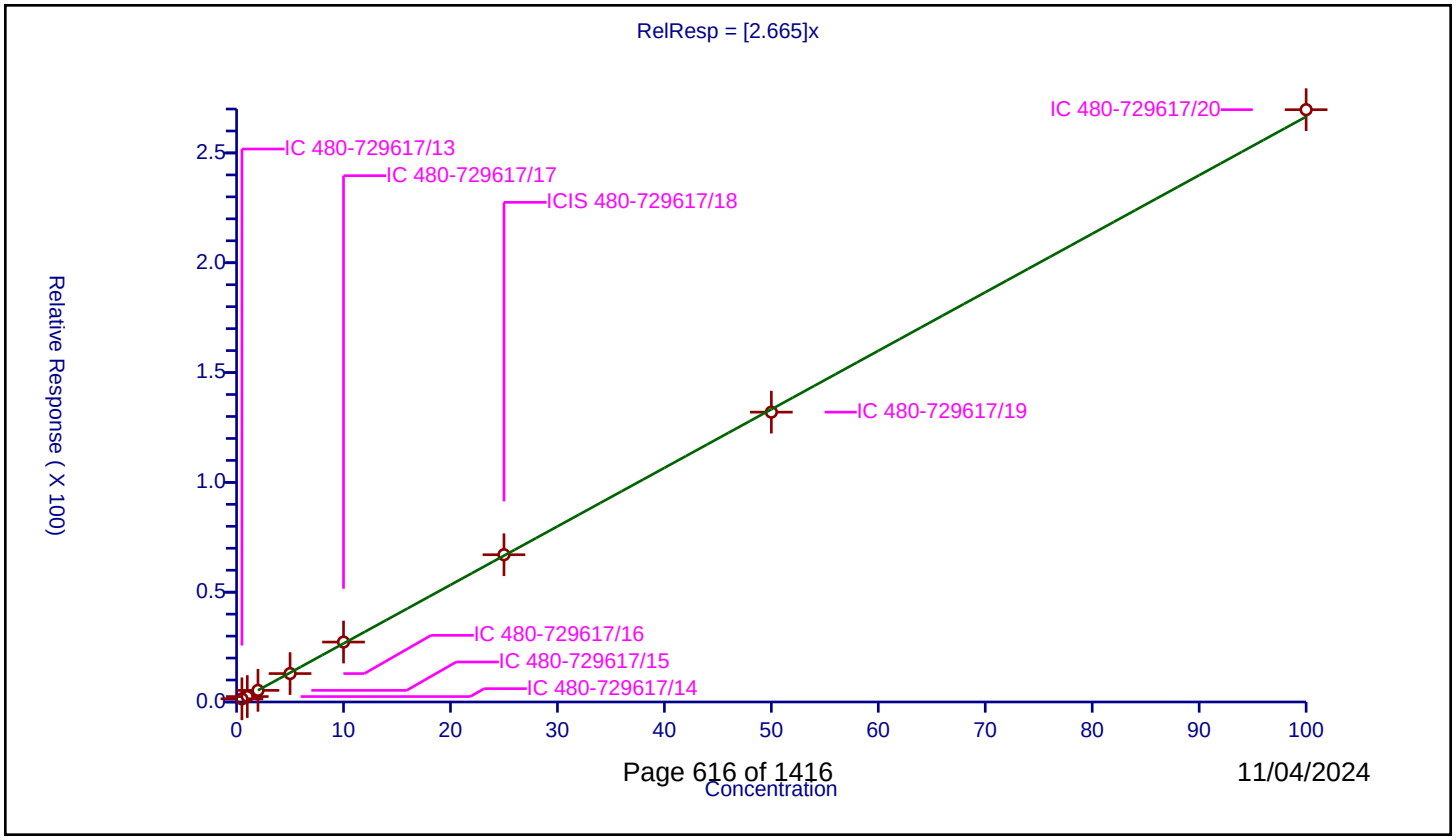
Curve Coefficients

Intercept:	0
Slope:	2.665

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	1.437319	25.0	329798.0	2.874638	Y
2	IC 480-729617/14	1.0	2.466839	25.0	338348.0	2.466839	Y
3	IC 480-729617/15	2.0	5.28531	25.0	332516.0	2.642655	Y
4	IC 480-729617/16	5.0	12.939897	25.0	343944.0	2.587979	Y
5	IC 480-729617/17	10.0	27.293179	25.0	319262.0	2.729318	Y
6	ICIS 480-729617/18	25.0	67.059464	25.0	333633.0	2.682379	Y
7	IC 480-729617/19	50.0	131.974686	25.0	345141.0	2.639494	Y
8	IC 480-729617/20	100.0	269.696696	25.0	353770.0	2.696967	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

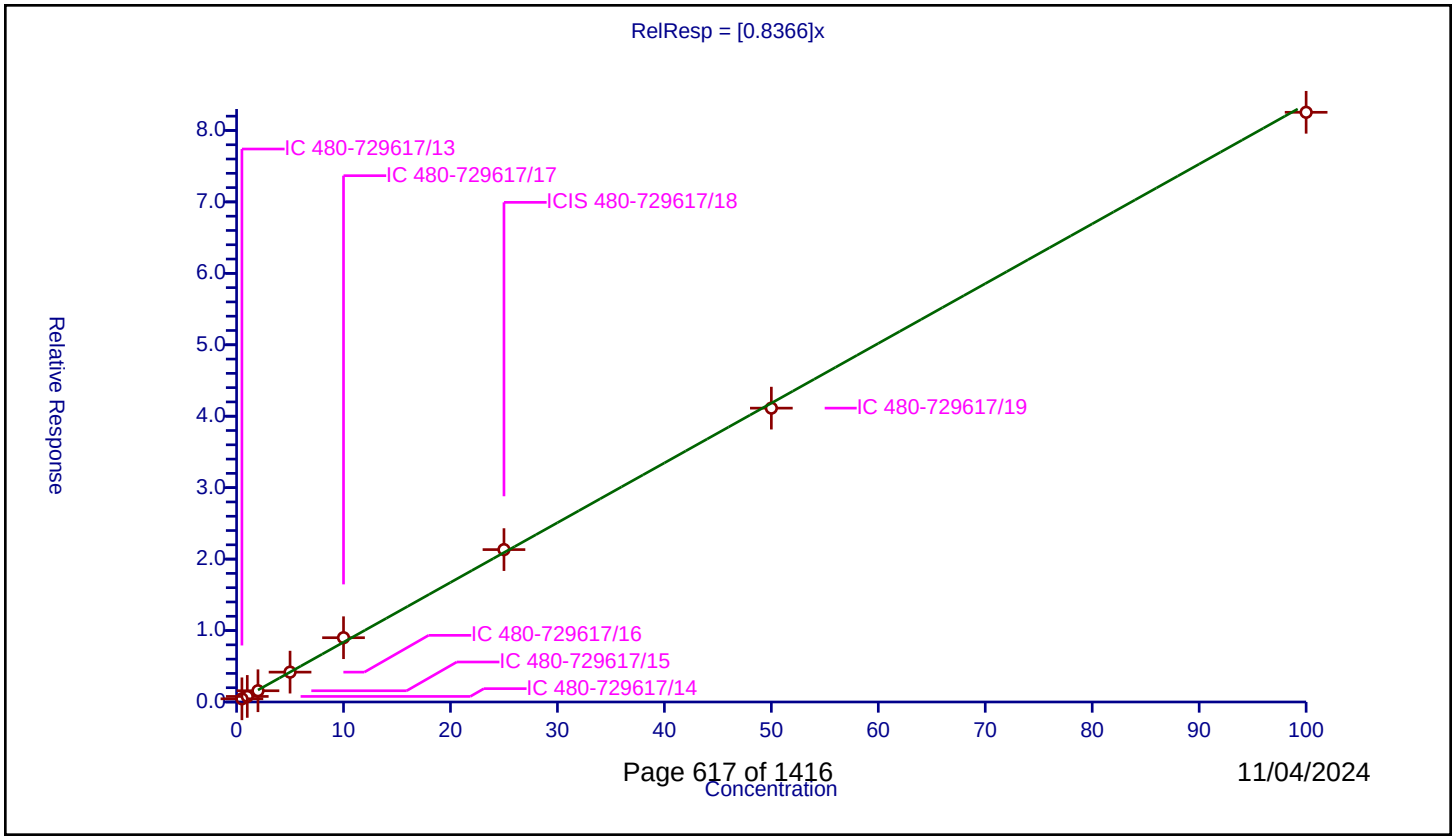
Curve Coefficients

Intercept:	0
Slope:	0.8366

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-729617/13	0.5	0.444818	25.0	329798.0	0.889635	Y
2	IC 480-729617/14	1.0	0.779006	25.0	338348.0	0.779006	Y
3	IC 480-729617/15	2.0	1.574962	25.0	332516.0	0.787481	Y
4	IC 480-729617/16	5.0	4.178224	25.0	343944.0	0.835645	Y
5	IC 480-729617/17	10.0	8.995746	25.0	319262.0	0.899575	Y
6	ICIS 480-729617/18	25.0	21.32905	25.0	333633.0	0.853162	Y
7	IC 480-729617/19	50.0	41.130002	25.0	345141.0	0.8226	Y
8	IC 480-729617/20	100.0	82.539644	25.0	353770.0	0.825396	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-729617/34 Calibration Date: 10/24/2024 23:10

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N0925.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	1.232	1.195	0.1000	24.3	25.0	-3.0	50.0
Chloromethane	Ave	2.532	2.561	0.1000	25.3	25.0	1.1	30.0
Vinyl chloride	Ave	1.336	1.297	0.1000	24.3	25.0	-3.0	30.0
Butadiene	Ave	2.138	1.993		23.3	25.0	-6.8	30.0
Bromomethane	Ave	0.7589	0.7224	0.1000	23.8	25.0	-4.8	50.0
Chloroethane	Ave	0.9367	0.8678	0.1000	23.2	25.0	-7.4	50.0
Trichlorofluoromethane	Ave	1.655	1.579	0.1000	23.9	25.0	-4.6	30.0
Dichlorofluoromethane	Ave	2.138	1.999		23.4	25.0	-6.5	30.0
Ethyl ether	Ave	1.362	1.393		25.6	25.0	2.2	30.0
Acrolein	Ave	0.2087	0.2002		120	125	-4.1	50.0
1,1-Dichloroethene	Ave	0.8512	0.8815	0.1000	25.9	25.0	3.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.8751	0.8926	0.1000	25.5	25.0	2.0	30.0
Acetone	Ave	0.9069	0.8019	0.1000	111	125	-11.6	50.0
Iodomethane	Ave	1.612	1.649		25.6	25.0	2.3	30.0
Carbon disulfide	Ave	3.087	3.079	0.1000	24.9	25.0	-0.3	30.0
Allyl chloride	Ave	3.593	3.488		24.3	25.0	-2.9	30.0
Methyl acetate	Ave	2.427	2.303	0.1000	47.4	50.0	-5.1	50.0
Methylene Chloride	Lin1		1.028	0.1000	24.8	25.0	-1.0	30.0
2-Methyl-2-propanol	Ave	0.2326	0.2244		241	250	-3.5	50.0
Methyl tert-butyl ether	Ave	3.702	3.693	0.1000	24.9	25.0	-0.2	30.0
trans-1,2-Dichloroethene	Ave	1.031	1.065	0.1000	25.8	25.0	3.3	30.0
Acrylonitrile	Ave	1.113	1.093		245	250	-1.8	30.0
Hexane	Ave	2.305	2.259		24.5	25.0	-2.0	30.0
1,1-Dichloroethane	Ave	2.391	2.509	0.2000	26.2	25.0	5.0	30.0
Vinyl acetate	Ave	4.716	4.706		49.9	50.0	-0.2	30.0
2,2-Dichloropropane	Ave	1.435	1.336		23.3	25.0	-6.9	30.0
cis-1,2-Dichloroethene	Ave	1.130	1.118	0.1000	24.7	25.0	-1.1	30.0
2-Butanone (MEK)	Ave	1.481	1.490	0.1000	126	125	0.6	30.0
Chlorobromomethane	Ave	0.5600	0.5669		25.3	25.0	1.2	30.0
Tetrahydrofuran	Ave	1.083	1.032		47.6	50.0	-4.7	30.0
Chloroform	Ave	1.933	1.873	0.2000	24.2	25.0	-3.1	30.0
1,1,1-Trichloroethane	Ave	1.589	1.626	0.1000	25.6	25.0	2.3	30.0
Cyclohexane	Ave	2.956	2.974	0.1000	25.2	25.0	0.6	30.0
Carbon tetrachloride	Ave	1.484	1.499	0.1000	25.2	25.0	1.0	30.0
1,1-Dichloropropene	Ave	1.350	1.455		26.9	25.0	7.8	30.0
Benzene	Ave	4.040	4.110	0.5000	25.4	25.0	1.7	30.0
Isobutyl alcohol	Ave	0.1317	0.1079		512	625	-18.1	50.0
1,2-Dichloroethane	Ave	2.077	2.117	0.1000	25.5	25.0	1.9	30.0
n-Heptane	Ave	2.974	2.739		23.0	25.0	-7.9	30.0
Trichloroethene	Ave	1.042	1.077	0.2000	25.8	25.0	3.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-729617/34 Calibration Date: 10/24/2024 23:10

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N0925.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
Methylcyclohexane	Ave	1.698	1.711	0.1000	25.2	25.0	0.7	30.0
1,2-Dichloropropane	Ave	1.281	1.361	0.1000	26.6	25.0	6.2	30.0
Dibromomethane	Ave	0.7351	0.7113	0.1000	24.2	25.0	-3.2	30.0
1,4-Dioxane	Ave	0.0029	0.0021		363	500	-27.3	50.0
Bromodichloromethane	Ave	1.255	1.374	0.2000	27.4	25.0	9.5	30.0
2-Chloroethyl vinyl ether	Ave	0.8911	1.018		28.5	25.0	14.2	30.0
cis-1,3-Dichloropropene	Ave	1.663	1.783	0.2000	26.8	25.0	7.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2751	0.2786	0.1000	127	125	1.3	30.0
Toluene	Ave	0.6825	0.7047	0.4000	25.8	25.0	3.3	30.0
trans-1,3-Dichloropropene	Ave	0.4252	0.4642	0.1000	27.3	25.0	9.2	30.0
Ethyl methacrylate	Ave	0.4239	0.4371		25.8	25.0	3.1	30.0
1,1,2-Trichloroethane	Ave	0.2125	0.2164	0.1000	25.5	25.0	1.8	30.0
Tetrachloroethene	Ave	0.2859	0.2948	0.2000	25.8	25.0	3.1	30.0
1,3-Dichloropropane	Ave	0.4378	0.4555		26.0	25.0	4.0	30.0
2-Hexanone	Ave	0.6159	0.6340	0.1000	129	125	2.9	30.0
Dibromochloromethane	Ave	0.2800	0.3015	0.1000	26.9	25.0	7.7	30.0
1,2-Dibromoethane	Ave	0.2802	0.2934		26.2	25.0	4.7	30.0
Chlorobenzene	Ave	0.7460	0.7725	0.5000	25.9	25.0	3.6	30.0
Ethylbenzene	Ave	1.300	1.332	0.1000	25.6	25.0	2.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.2860	0.2967		25.9	25.0	3.8	30.0
m,p-Xylene	Ave	0.5125	0.5172	0.1000	25.2	25.0	0.9	30.0
o-Xylene	Ave	0.5126	0.5334	0.3000	26.0	25.0	4.0	30.0
Styrene	Ave	0.8348	0.8490	0.3000	25.4	25.0	1.7	30.0
Bromoform	Ave	0.1828	0.1960	0.1000	26.8	25.0	7.2	50.0
Isopropylbenzene	Ave	2.477	2.568	0.1000	25.9	25.0	3.7	30.0
Bromobenzene	Ave	0.6396	0.6585		25.7	25.0	3.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7939	0.7909	0.3000	24.9	25.0	-0.4	30.0
N-Propylbenzene	Ave	2.943	3.124		26.5	25.0	6.2	30.0
1,2,3-Trichloropropane	Ave	0.2684	0.2606		24.3	25.0	-2.9	30.0
trans-1,4-Dichloro-2-butene	Ave	0.4251	0.4713		27.7	25.0	10.9	50.0
2-Chlorotoluene	Ave	0.6157	0.6333		25.7	25.0	2.9	30.0
1,3,5-Trimethylbenzene	Ave	2.178	2.330		26.7	25.0	7.0	30.0
4-Chlorotoluene	Ave	2.111	2.175		25.8	25.0	3.0	30.0
tert-Butylbenzene	Ave	0.4644	0.5024		27.0	25.0	8.2	30.0
1,2,4-Trimethylbenzene	Ave	2.315	2.361		25.5	25.0	2.0	30.0
sec-Butylbenzene	Ave	2.753	2.882		26.2	25.0	4.7	30.0
1,3-Dichlorobenzene	Ave	1.181	1.191	0.6000	25.2	25.0	0.8	30.0
4-Isopropyltoluene	Ave	2.464	2.526		25.6	25.0	2.5	30.0
1,4-Dichlorobenzene	Ave	1.216	1.225	0.5000	25.2	25.0	0.8	30.0
n-Butylbenzene	Ave	2.116	2.132		25.2	25.0	0.7	30.0
1,2-Dichlorobenzene	Ave	1.197	1.213	0.4000	25.3	25.0	1.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-729617/34 Calibration Date: 10/24/2024 23:10

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N0925.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
1,2-Dibromo-3-Chloropropane	Ave	0.1748	0.1974	0.0500	28.2	25.0	12.9	50.0
1,2,4-Trichlorobenzene	Ave	0.8600	0.8599	0.2000	25.0	25.0	-0.0	30.0
Hexachlorobutadiene	Ave	0.4291	0.4177		24.3	25.0	-2.6	30.0
Naphthalene	Ave	2.665	2.645		24.8	25.0	-0.7	30.0
1,2,3-Trichlorobenzene	Ave	0.8366	0.8074		24.1	25.0	-3.5	30.0
Dibromofluoromethane (Surr)	Ave	1.136	1.076		23.7	25.0	-5.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.690	1.710		25.3	25.0	1.2	30.0
Toluene-d8 (Surr)	Ave	1.144	1.145		25.0	25.0	0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3609	0.3614		25.0	25.0	0.2	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0925.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Oct-2024 23:10:30 ALS Bottle#: 34 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0120783-034
Operator ID: LH/AD Instrument ID: HP5973N
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:17:31 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 25-Oct-2024 10:34:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.826	-0.006	97	187081	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.770	0.001	90	675010	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	333879	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	201339	25.0	23.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	67	319989	25.0	25.3	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	95	772576	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	86	243979	25.0	25.0	
11 Dichlorodifluoromethane	85	1.042	1.042	0.000	98	223589	25.0	24.3	
13 Chloromethane	50	1.188	1.182	0.006	99	479038	25.0	25.3	
14 Vinyl chloride	62	1.261	1.255	0.006	98	242581	25.0	24.3	
144 Butadiene	54	1.267	1.267	0.000	95	372832	25.0	23.3	
15 Bromomethane	94	1.517	1.504	0.013	91	135154	25.0	23.8	
16 Chloroethane	64	1.565	1.565	0.000	94	162341	25.0	23.2	
17 Dichlorofluoromethane	67	1.748	1.742	0.006	94	374050	25.0	23.4	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	83	295376	25.0	23.9	
19 Ethyl ether	59	1.985	1.985	0.000	93	260537	25.0	25.6	
20 Acrolein	56	2.143	2.143	0.000	99	187223	125.0	119.9	
22 1,1-Dichloroethene	96	2.180	2.174	0.006	89	164910	25.0	25.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.186	2.180	0.006	64	166981	25.0	25.5	
23 Acetone	43	2.283	2.283	0.000	97	750085	125.0	110.5	
24 Iodomethane	142	2.320	2.314	0.006	99	308563	25.0	25.6	
25 Carbon disulfide	76	2.350	2.350	0.000	98	575946	25.0	24.9	
27 3-Chloro-1-propene	41	2.521	2.514	0.007	88	652502	25.0	24.3	
28 Methyl acetate	43	2.563	2.563	0.000	99	861741	50.0	47.4	
30 Methylene Chloride	84	2.648	2.654	-0.006	86	192393	25.0	24.8	
31 2-Methyl-2-propanol	59	2.825	2.825	0.000	97	419798	250.0	241.2	M
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	93	690927	25.0	24.9	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	89	199297	25.0	25.8	
34 Acrylonitrile	53	2.922	2.922	0.000	97	2045170	250.0	245.5	
35 Hexane	57	3.056	3.056	0.000	96	422574	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
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	469414	25.0	26.2	
39 Vinyl acetate	43	3.324	3.323	0.001	96	1760714	50.0	49.9	
42 2,2-Dichloropropane	77	3.762	3.761	0.001	86	249847	25.0	23.3	
43 cis-1,2-Dichloroethene	96	3.804	3.798	0.006	87	209121	25.0	24.7	
44 2-Butanone (MEK)	43	3.835	3.834	0.001	96	1393352	125.0	125.7	
47 Chlorobromomethane	128	4.029	4.029	0.000	82	106054	25.0	25.3	
49 Tetrahydrofuran	42	4.041	4.041	0.000	93	386042	50.0	47.6	
50 Chloroform	83	4.108	4.108	0.000	94	350439	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	73	304235	25.0	25.6	
52 Cyclohexane	56	4.212	4.212	0.000	93	556455	25.0	25.2	
53 Carbon tetrachloride	117	4.340	4.339	0.001	96	280448	25.0	25.2	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	82	272141	25.0	26.9	
55 Benzene	78	4.552	4.552	0.000	88	768996	25.0	25.4	
56 Isobutyl alcohol	43	4.607	4.607	0.000	94	504508	625.0	511.7	
57 1,2-Dichloroethane	62	4.625	4.619	0.006	95	396083	25.0	25.5	
59 n-Heptane	43	4.747	4.747	0.000	94	512454	25.0	23.0	
60 Trichloroethene	95	5.155	5.155	0.000	94	201402	25.0	25.8	
62 Methylcyclohexane	83	5.264	5.264	0.000	91	320023	25.0	25.2	
63 1,2-Dichloropropane	63	5.386	5.392	-0.006	88	254610	25.0	26.6	
64 Dibromomethane	93	5.526	5.526	0.000	96	133078	25.0	24.2	
66 1,4-Dioxane	88	5.538	5.538	0.000	84	28208	500.0	363.3	M
67 Dichlorobromomethane	83	5.684	5.684	0.000	94	257088	25.0	27.4	
69 2-Chloroethyl vinyl ether	63	5.970	5.970	0.000	83	190368	25.0	28.5	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	82	333596	25.0	26.8	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	940140	125.0	126.6	
73 Toluene	92	6.371	6.371	0.000	96	475669	25.0	25.8	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	90	313332	25.0	27.3	
77 Ethyl methacrylate	69	6.724	6.724	0.000	86	295026	25.0	25.8	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	94	146067	25.0	25.5	
79 Tetrachloroethene	166	6.895	6.894	0.001	91	198974	25.0	25.8	
80 1,3-Dichloropropane	76	6.998	6.998	0.000	87	307491	25.0	26.0	
82 2-Hexanone	43	7.083	7.083	0.000	97	2139924	125.0	128.7	
83 Chlorodibromomethane	129	7.229	7.229	0.000	88	203506	25.0	26.9	
84 Ethylene Dibromide	107	7.327	7.320	0.007	96	198081	25.0	26.2	
85 Chlorobenzene	112	7.801	7.801	0.000	90	521465	25.0	25.9	
88 Ethylbenzene	91	7.898	7.898	0.000	98	899077	25.0	25.6	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	91	200309	25.0	25.9	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	97	349084	25.0	25.2	
91 o-Xylene	106	8.440	8.440	0.000	98	360022	25.0	26.0	
92 Styrene	104	8.476	8.476	0.000	94	573104	25.0	25.4	
93 Bromoform	173	8.708	8.707	0.001	96	132288	25.0	26.8	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	857254	25.0	25.9	
97 Bromobenzene	156	9.170	9.170	0.000	92	219867	25.0	25.7	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	95	264051	25.0	24.9	
100 N-Propylbenzene	91	9.273	9.273	0.000	99	1042943	25.0	26.5	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	90	87017	25.0	24.3	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	83	157355	25.0	27.7	
102 2-Chlorotoluene	126	9.371	9.377	-0.006	95	211455	25.0	25.7	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	95	778066	25.0	26.7	
105 4-Chlorotoluene	91	9.492	9.492	0.000	99	726248	25.0	25.8	
106 tert-Butylbenzene	134	9.796	9.796	0.000	97	167753	25.0	27.0	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	788318	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
109 sec-Butylbenzene	105	10.022	10.021	0.001	95	962233	25.0	26.2	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	97	397496	25.0	25.2	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	98	843328	25.0	25.6	
113 1,4-Dichlorobenzene	146	10.241	10.240	0.001	92	409095	25.0	25.2	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	711852	25.0	25.2	
116 1,2-Dichlorobenzene	146	10.600	10.599	0.001	95	404974	25.0	25.3	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	76	65902	25.0	28.2	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	287093	25.0	25.0	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	96	139468	25.0	24.3	
121 Naphthalene	128	12.248	12.248	0.000	97	883196	25.0	24.8	
122 1,2,3-Trichlorobenzene	180	12.449	12.455	-0.006	95	269588	25.0	24.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SS GAS CORP_00599	Amount Added:	12.50	Units: uL	
SS 8260 CORP_00117	Amount Added:	12.50	Units: uL	
N_8260_Surr_00475	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent

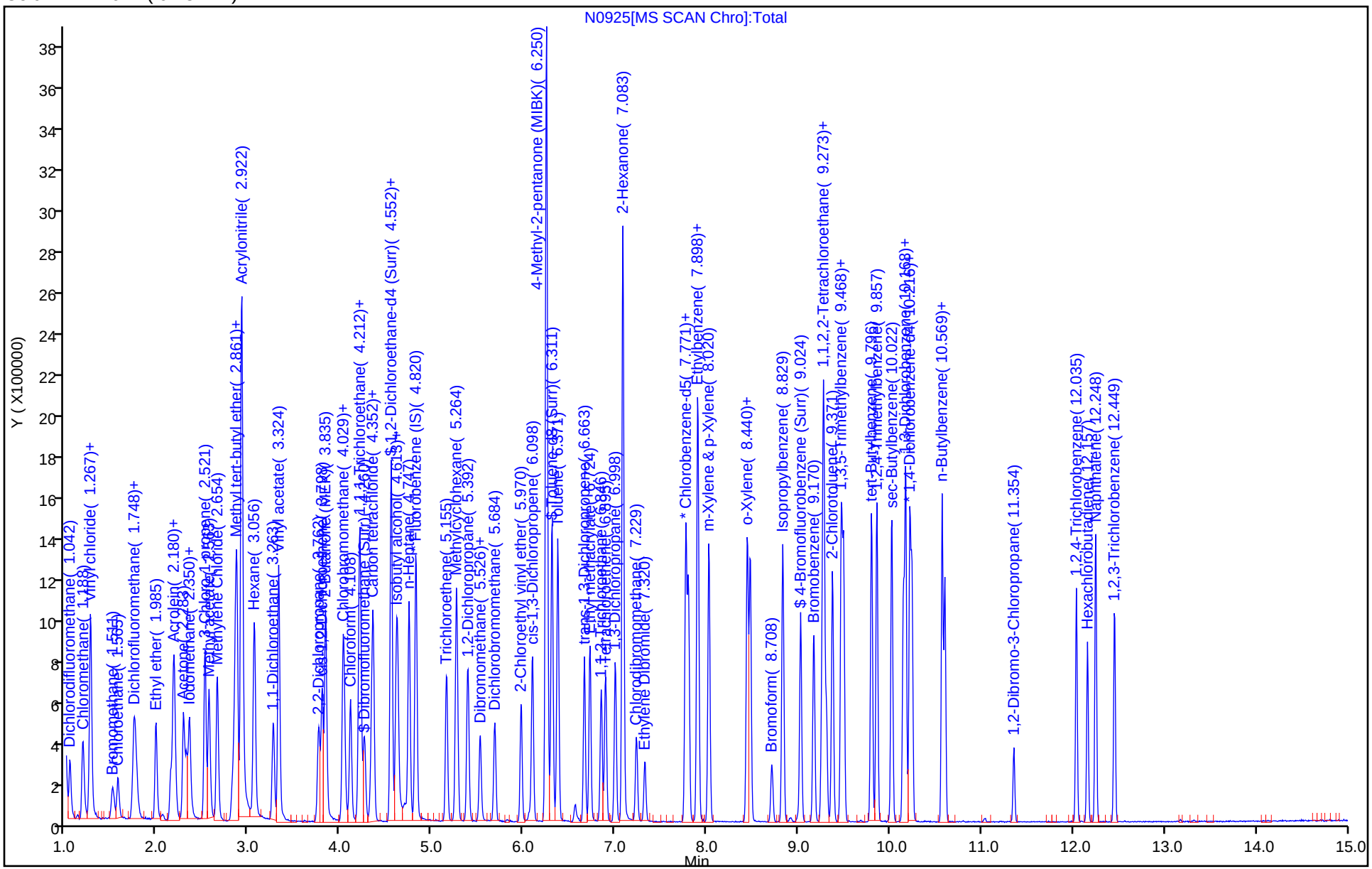
Report Date: 25-Oct-2024 11:20:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0925.d

Injection Date:	24-Oct-2024 23:10:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	ICV			Worklist Smp#:	34
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

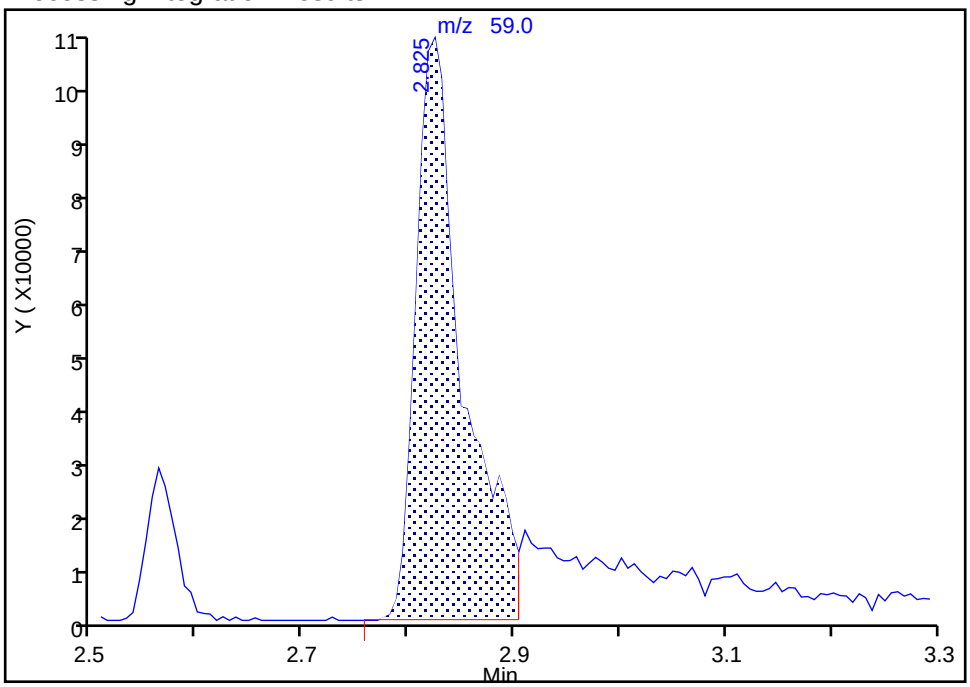
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0925.d
Injection Date: 24-Oct-2024 23:10:30 Instrument ID: HP5973N
Lims ID: ICV
Client ID:
Operator ID: LH/AD ALS Bottle#: 34 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

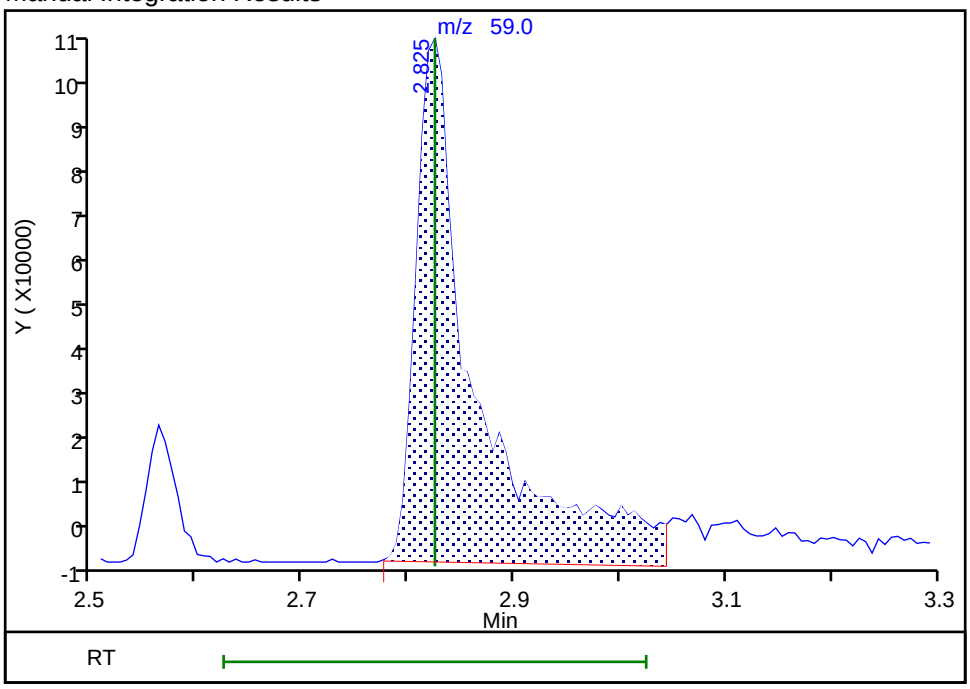
Processing Integration Results

RT: 2.82
Area: 327932
Amount: 188.3994
Amount Units: ug/L



Manual Integration Results

RT: 2.82
Area: 419798
Amount: 241.1771
Amount Units: ug/L



Reviewer: WLL8, 25-Oct-2024 10:32:01 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

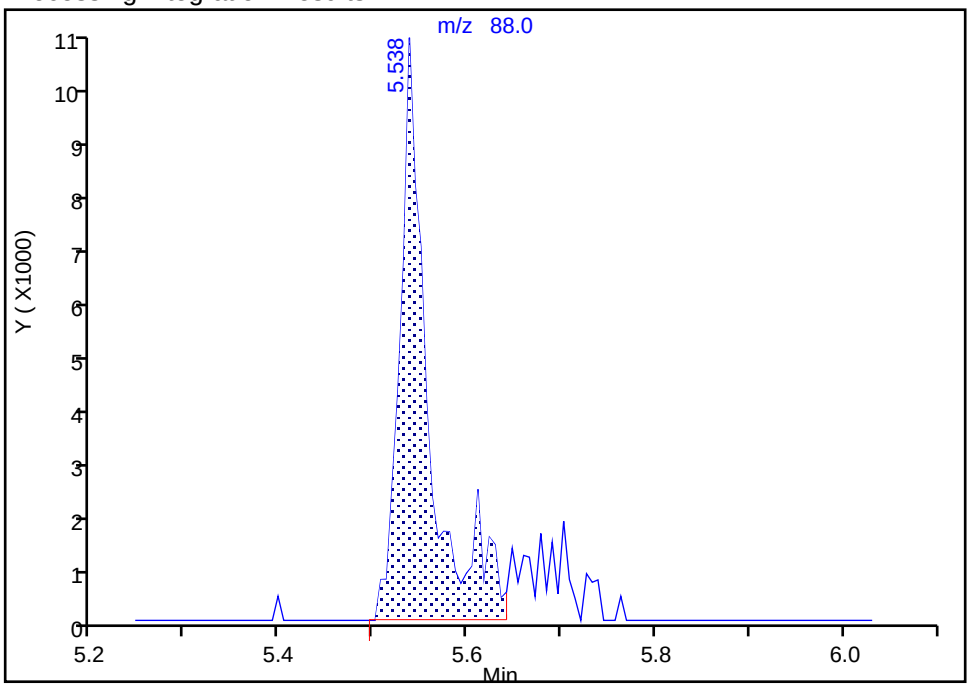
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0925.d
Injection Date: 24-Oct-2024 23:10:30 Instrument ID: HP5973N
Lims ID: ICV
Client ID:
Operator ID: LH/AD ALS Bottle#: 34 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

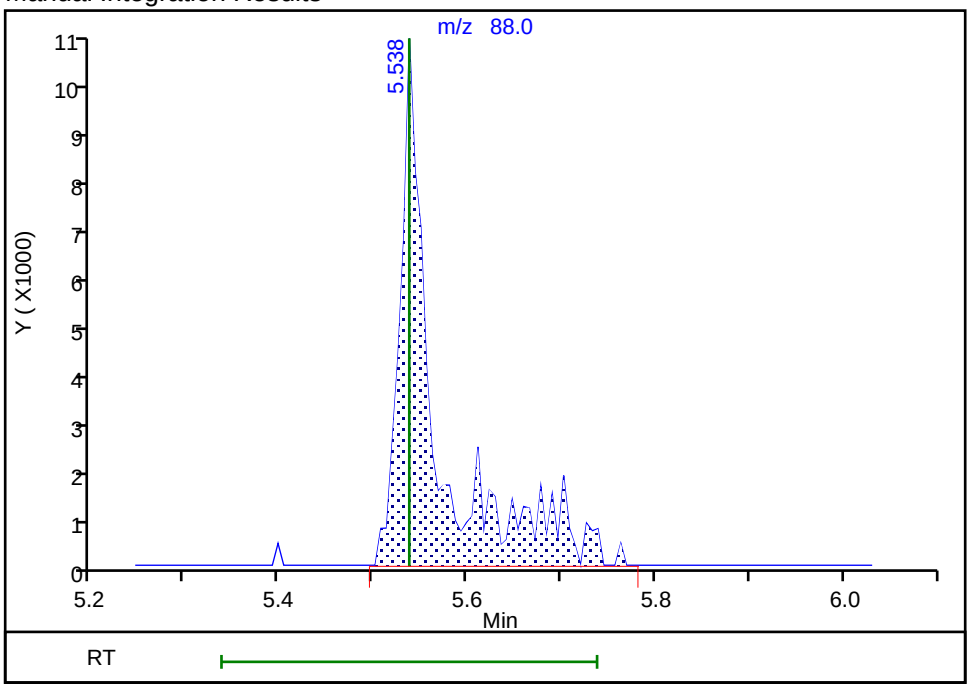
Processing Integration Results

RT: 5.54
Area: 22822
Amount: 293.9592
Amount Units: ug/L



Manual Integration Results

RT: 5.54
Area: 28208
Amount: 363.3337
Amount Units: ug/L



Reviewer: WLL8, 25-Oct-2024 10:32:36 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-729617/35 Calibration Date: 10/24/2024 23:33

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N0926.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
Dibromofluoromethane (Surr)	Ave	1.136	1.117		24.6	25.0	-1.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.690	1.715		25.4	25.0	1.5	30.0
Toluene-d8 (Surr)	Ave	1.144	1.141		24.9	25.0	-0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3609	0.3557		24.6	25.0	-1.4	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0926.d
Lims ID: ICV ADD
Client ID:
Sample Type: ICV
Inject. Date: 24-Oct-2024 23:33:30 ALS Bottle#: 35 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV ADD
Misc. Info.: 480-0120783-035
Operator ID: LH/AD Instrument ID: HP5973N
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:17:31 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 25-Oct-2024 10:36:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.826	-0.006	97	189998	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.770	0.001	90	679618	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	324763	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	93	212268	25.0	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	325778	25.0	25.4	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	95	775208	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	88	241741	25.0	24.6	
12 Chlorodifluoromethane	51	1.060	1.060	0.000	96	444332	25.0	26.8	
141 Ethanol	45	1.991	1.985	0.006	99	100515	1000.0	855.7	
81 Propene oxide	58	2.064	2.058	0.006	95	514297	NC	NC	
26 Isopropyl alcohol	45	2.466	2.466	0.000	99	215121	250.0	220.6	
29 Acetonitrile	40	2.569	2.569	0.000	98	324499	250.0	233.1	M
37 Isopropyl ether	45	3.287	3.287	0.000	98	1380395	25.0	25.9	
38 2-Chloro-1,3-butadiene	53	3.323	3.317	0.006	89	589026	25.0	27.4	
40 1,1-Dimethoxyethane	75	3.360	3.360	0.000	96	303384	125.0	127.3	
41 Tert-butyl ethyl ether	59	3.615	3.609	0.006	96	1016203	25.0	24.9	
45 Ethyl acetate	43	3.877	3.877	0.000	98	1049340	50.0	51.9	
46 Propionitrile	54	3.938	3.932	0.006	99	727712	250.0	253.5	
48 Methacrylonitrile	67	4.041	4.041	0.000	96	1220800	250.0	263.0	
146 Isooctane	57	4.558	4.558	0.000	98	1173795	25.0	26.2	
58 Tert-amyl methyl ether	73	4.644	4.644	0.000	85	800663	25.0	25.4	
140 t-Amyl alcohol	59	4.662	4.656	0.006	79	457032	250.0	245.5	
1 1,4-Difluorobenzene	114	4.942	4.942	0.000	97	594224	25.0	28.2	
61 n-Butanol	56	5.222	5.215	0.007	97	203418	625.0	546.2	
145 Ethyl acrylate	55	5.301	5.301	0.000	98	512913	25.0	25.8	
65 Methyl methacrylate	41	5.507	5.507	0.000	87	855565	50.0	51.7	
68 2-Nitropropane	43	5.933	5.933	0.000	98	230725	50.0	52.0	
70 Epichlorohydrin	57	6.055	6.055	0.000	98	451177	250.0	238.5	
149 n-Butyl acetate	43	7.205	7.205	0.000	95	761057	25.0	24.4	
139 1-Chlorohexane	55	7.771	7.770	0.001	71	310510	25.0	26.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
86 3-Chlorobenzotrifluoride	180	7.795	7.795	0.000	93	304999	25.0	28.4	
87 4-Chlorobenzotrifluoride	180	7.856	7.856	0.000	95	272015	25.0	26.4	
94 2-Chlorobenzotrifluoride	180	8.762	8.762	0.000	97	318408	25.0	28.1	
96 Cyclohexanone	55	8.993	8.993	0.000	95	130999	250.0	208.2	
103 3-Chlorotoluene	126	9.444	9.443	0.001	97	224123	25.0	27.6	
107 Pentachloroethane	167	9.851	9.851	0.000	90	110550	25.0	25.8	
112 Dicyclopentadiene	66	10.210	10.210	0.000	98	1112508	25.0	27.4	
114 1,2,3-Trimethylbenzene	105	10.277	10.277	0.000	99	826528	25.0	26.8	
143 Benzyl chloride	126	10.399	10.399	0.000	99	93766	25.0	22.7	
118 1,3,5-Trichlorobenzene	180	11.488	11.488	0.000	97	310737	25.0	27.1	
142 2-Methylnaphthalene	142	13.173	13.173	0.000	93	531209	25.0	26.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SS ADD CORP_00094	Amount Added: 12.50	Units: uL	
N_8260_Surr_00475	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added: 1.00	Units: uL	Run Reagent

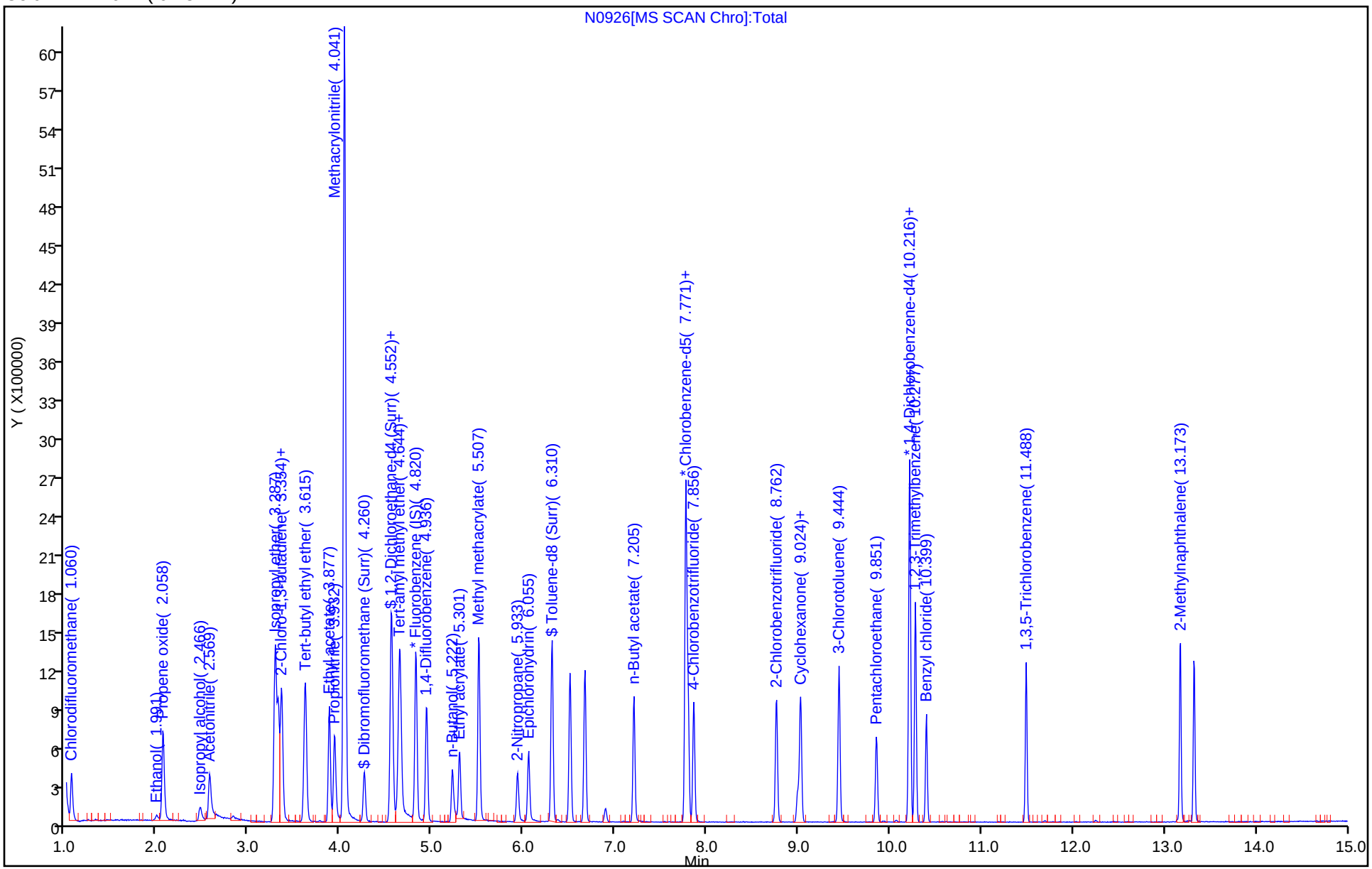
Report Date: 25-Oct-2024 11:20:52 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0926.d

Injection Date:	24-Oct-2024 23:33:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	ICV ADD			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	N-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.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-729617/35 Calibration Date: 10/24/2024 23:33

Instrument ID: HP5973N Calib Start Date: 10/24/2024 19:48

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 22:03

Lab File ID: N0926.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
Chlorodifluoromethane	Ave	2.183	2.339		26.8	25.0	7.1	30.0
Ethanol	Ave	0.0155	0.0132		856	1000	-14.4	30.0
Isopropyl alcohol	Ave	0.1283	0.1132		221	250	-11.8	30.0
Acetonitrile	Ave	0.1832	0.1708		233	250	-6.8	30.0
Isopropyl ether	Ave	7.005	7.265		25.9	25.0	3.7	30.0
Chloroprene	Ave	2.834	3.100		27.4	25.0	9.4	30.0
1,1-Dimethoxyethane	Ave	0.3136	0.3194		127	125	1.8	30.0
Tert-butyl ethyl ether	Ave	5.374	5.348		24.9	25.0	-0.5	30.0
Ethyl acetate	Ave	2.660	2.761		51.9	50.0	3.8	30.0
Propionitrile	Ave	0.3777	0.3830		254	250	1.4	30.0
Methacrylonitrile	Ave	0.6107	0.6425		263	250	5.2	30.0
Isooctane	Ave	5.888	6.178		26.2	25.0	4.9	30.0
Tert-amyl methyl ether	Ave	4.144	4.214		25.4	25.0	1.7	30.0
t-Amyl alcohol	Ave	0.2449	0.2405		246	250	-1.8	30.0
1,4-Difluorobenzene	Ave	2.773	3.128		28.2	25.0	12.8	30.0
n-Butanol	Ave	0.0490	0.0428		546	625	-12.6	30.0
Ethyl acrylate	Ave	2.617	2.700		25.8	25.0	3.2	30.0
Methyl methacrylate	Ave	2.177	2.252		51.7	50.0	3.4	30.0
2-Nitropropane	Ave	0.3413	0.3552		52.0	50.0	4.1	30.0
Epichlorohydrin	Ave	0.2489	0.2375		239	250	-4.6	30.0
n-Butyl acetate	Ave	1.148	1.120	0.1000	24.4	25.0	-2.5	30.0
1-Chlorohexane	Lin1		0.4569		26.6	25.0	6.6	30.0
3-Chlorobenzotrifluoride	Ave	0.8260	0.9391		28.4	25.0	13.7	30.0
4-Chlorobenzotrifluoride	Ave	0.7930	0.8376		26.4	25.0	5.6	30.0
2-Chlorobenzotrifluoride	Ave	0.8727	0.9804		28.1	25.0	12.3	30.0
Cyclohexanone	Ave	0.0484	0.0403		208	250	-16.7	30.0
3-Chlorotoluene	Ave	0.6252	0.6901		27.6	25.0	10.4	30.0
Pentachloroethane	Ave	0.3301	0.3404		25.8	25.0	3.1	30.0
Dicyclopentadiene	Ave	3.128	3.426		27.4	25.0	9.5	30.0
1,2,3-Trimethylbenzene	Ave	2.373	2.545		26.8	25.0	7.2	30.0
Benzyl chloride	Ave	0.1521	0.1380		22.7	25.0	-9.3	30.0
1,3,5-Trichlorobenzene	Ave	0.8843	0.9568		27.1	25.0	8.2	30.0
2-Methylnaphthalene	Ave	1.547	1.636		26.4	25.0	5.7	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0926.d
Lims ID: ICV ADD
Client ID:
Sample Type: ICV
Inject. Date: 24-Oct-2024 23:33:30 ALS Bottle#: 35 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV ADD
Misc. Info.: 480-0120783-035
Operator ID: LH/AD Instrument ID: HP5973N
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 11:17:31 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 25-Oct-2024 10:36:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.826	-0.006	97	189998	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.770	0.001	90	679618	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	324763	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	93	212268	25.0	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	325778	25.0	25.4	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	95	775208	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.030	-0.006	88	241741	25.0	24.6	
12 Chlorodifluoromethane	51	1.060	1.060	0.000	96	444332	25.0	26.8	
141 Ethanol	45	1.991	1.985	0.006	99	100515	1000.0	855.7	
81 Propene oxide	58	2.064	2.058	0.006	95	514297	NC	NC	
26 Isopropyl alcohol	45	2.466	2.466	0.000	99	215121	250.0	220.6	
29 Acetonitrile	40	2.569	2.569	0.000	98	324499	250.0	233.1	M
37 Isopropyl ether	45	3.287	3.287	0.000	98	1380395	25.0	25.9	
38 2-Chloro-1,3-butadiene	53	3.323	3.317	0.006	89	589026	25.0	27.4	
40 1,1-Dimethoxyethane	75	3.360	3.360	0.000	96	303384	125.0	127.3	
41 Tert-butyl ethyl ether	59	3.615	3.609	0.006	96	1016203	25.0	24.9	
45 Ethyl acetate	43	3.877	3.877	0.000	98	1049340	50.0	51.9	
46 Propionitrile	54	3.938	3.932	0.006	99	727712	250.0	253.5	
48 Methacrylonitrile	67	4.041	4.041	0.000	96	1220800	250.0	263.0	
146 Isooctane	57	4.558	4.558	0.000	98	1173795	25.0	26.2	
58 Tert-amyl methyl ether	73	4.644	4.644	0.000	85	800663	25.0	25.4	
140 t-Amyl alcohol	59	4.662	4.656	0.006	79	457032	250.0	245.5	
1 1,4-Difluorobenzene	114	4.942	4.942	0.000	97	594224	25.0	28.2	
61 n-Butanol	56	5.222	5.215	0.007	97	203418	625.0	546.2	
145 Ethyl acrylate	55	5.301	5.301	0.000	98	512913	25.0	25.8	
65 Methyl methacrylate	41	5.507	5.507	0.000	87	855565	50.0	51.7	
68 2-Nitropropane	43	5.933	5.933	0.000	98	230725	50.0	52.0	
70 Epichlorohydrin	57	6.055	6.055	0.000	98	451177	250.0	238.5	
149 n-Butyl acetate	43	7.205	7.205	0.000	95	761057	25.0	24.4	
139 1-Chlorohexane	55	7.771	7.770	0.001	71	310510	25.0	26.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
86 3-Chlorobenzotrifluoride	180	7.795	7.795	0.000	93	304999	25.0	28.4	
87 4-Chlorobenzotrifluoride	180	7.856	7.856	0.000	95	272015	25.0	26.4	
94 2-Chlorobenzotrifluoride	180	8.762	8.762	0.000	97	318408	25.0	28.1	
96 Cyclohexanone	55	8.993	8.993	0.000	95	130999	250.0	208.2	
103 3-Chlorotoluene	126	9.444	9.443	0.001	97	224123	25.0	27.6	
107 Pentachloroethane	167	9.851	9.851	0.000	90	110550	25.0	25.8	
112 Dicyclopentadiene	66	10.210	10.210	0.000	98	1112508	25.0	27.4	
114 1,2,3-Trimethylbenzene	105	10.277	10.277	0.000	99	826528	25.0	26.8	
143 Benzyl chloride	126	10.399	10.399	0.000	99	93766	25.0	22.7	
118 1,3,5-Trichlorobenzene	180	11.488	11.488	0.000	97	310737	25.0	27.1	
142 2-Methylnaphthalene	142	13.173	13.173	0.000	93	531209	25.0	26.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SS ADD CORP_00094	Amount Added: 12.50	Units: uL	
N_8260_Surr_00475	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00282	Amount Added: 1.00	Units: uL	Run Reagent

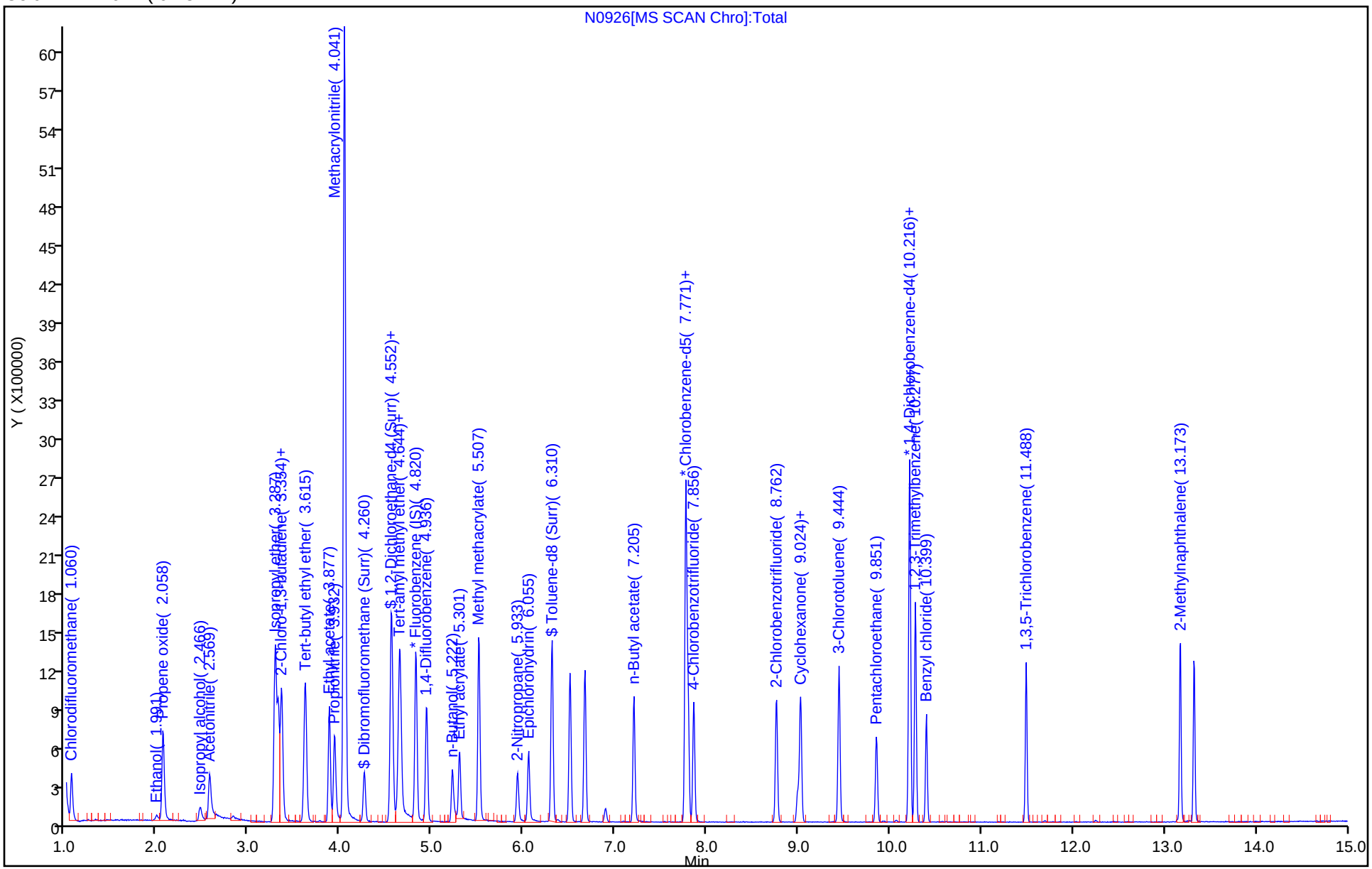
Report Date: 25-Oct-2024 11:20:52 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0926.d

Injection Date:	24-Oct-2024 23:33:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	ICV ADD			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

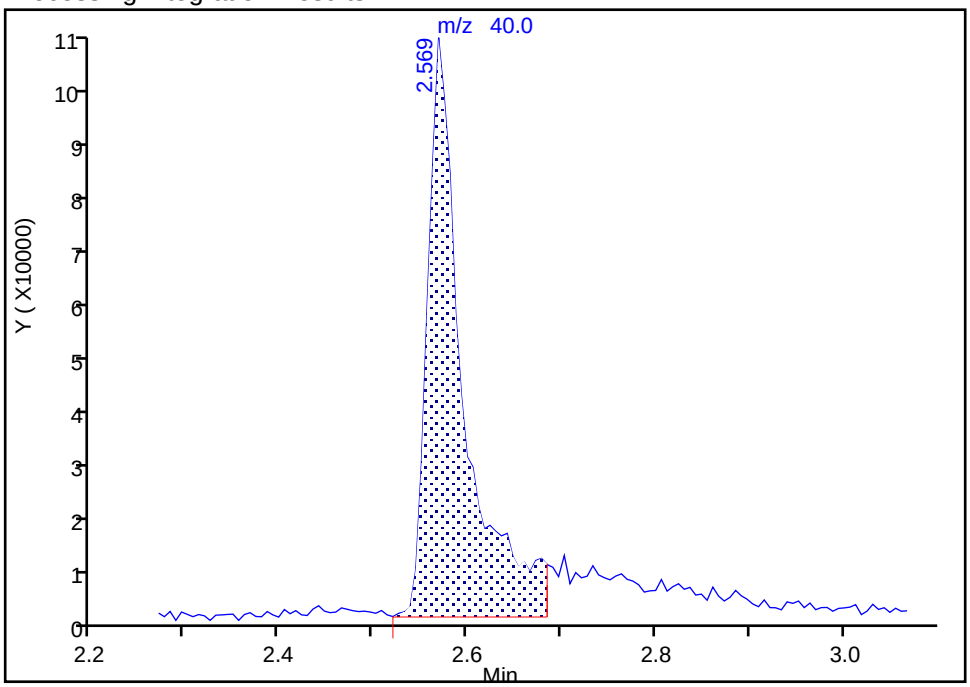
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0926.d
Injection Date: 24-Oct-2024 23:33:30 Instrument ID: HP5973N
Lims ID: ICV ADD
Client ID:
Operator ID: LH/AD ALS Bottle#: 35 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

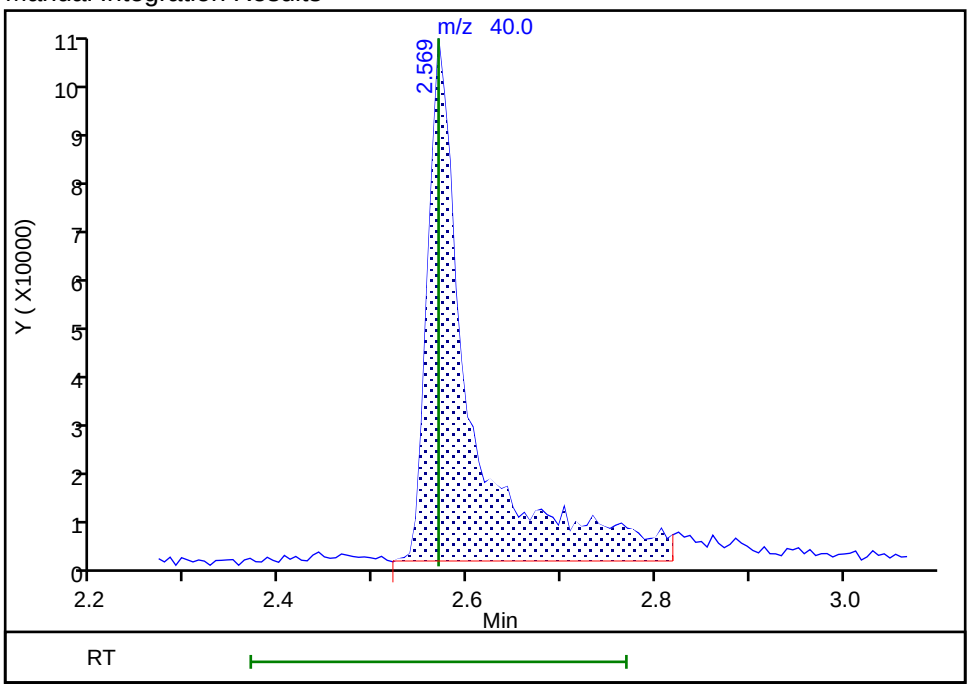
Processing Integration Results

RT: 2.57
Area: 271968
Amount: 195.3727
Amount Units: ug/L



Manual Integration Results

RT: 2.57
Area: 324499
Amount: 233.1092
Amount Units: ug/L



Reviewer: WLL8, 25-Oct-2024 10:36:33 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730495/4 Calibration Date: 10/31/2024 01:32

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N1237.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	1.232	1.287	0.1000	26.1	25.0	4.5	50.0
Chloromethane	Ave	2.532	2.443	0.1000	24.1	25.0	-3.5	20.0
Vinyl chloride	Ave	1.336	1.177	0.1000	22.0	25.0	-11.9	20.0
Butadiene	Ave	2.138	2.571		30.1	25.0	20.3*	20.0
Bromomethane	Ave	0.7589	0.6802	0.1000	22.4	25.0	-10.4	50.0
Chloroethane	Ave	0.9367	0.7806	0.1000	20.8	25.0	-16.7	50.0
Trichlorofluoromethane	Ave	1.655	1.695	0.1000	25.6	25.0	2.4	20.0
Dichlorofluoromethane	Ave	2.138	1.943		22.7	25.0	-9.1	20.0
Ethyl ether	Ave	1.362	1.291		23.7	25.0	-5.2	20.0
Acrolein	Ave	0.2087	0.1606		96.2	125	-23.0	50.0
1,1-Dichloroethene	Ave	0.8512	0.8558	0.1000	25.1	25.0	0.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.8751	0.8663	0.1000	24.7	25.0	-1.0	20.0
Acetone	Ave	0.9069	0.8734	0.1000	120	125	-3.7	50.0
Iodomethane	Ave	1.612	1.512		23.4	25.0	-6.2	20.0
Carbon disulfide	Ave	3.087	2.912	0.1000	23.6	25.0	-5.7	20.0
Allyl chloride	Ave	3.593	3.162		22.0	25.0	-12.0	20.0
Methyl acetate	Ave	2.427	2.151	0.1000	44.3	50.0	-11.4	50.0
Methylene Chloride	Lin1		1.066	0.1000	25.7	25.0	2.7	20.0
2-Methyl-2-propanol	Ave	0.2326	0.2199		236	250	-5.5	50.0
Methyl tert-butyl ether	Ave	3.702	3.656	0.1000	24.7	25.0	-1.3	20.0
trans-1,2-Dichloroethene	Ave	1.031	1.042	0.1000	25.3	25.0	1.1	20.0
Acrylonitrile	Ave	1.113	1.057		237	250	-5.1	20.0
Hexane	Ave	2.305	2.323		25.2	25.0	0.8	20.0
1,1-Dichloroethane	Ave	2.391	2.487	0.2000	26.0	25.0	4.0	20.0
Vinyl acetate	Ave	4.716	4.239		44.9	50.0	-10.1	20.0
2,2-Dichloropropane	Ave	1.435	1.456		25.4	25.0	1.5	20.0
cis-1,2-Dichloroethene	Ave	1.130	1.174	0.1000	26.0	25.0	3.8	20.0
2-Butanone (MEK)	Ave	1.481	1.451	0.1000	122	125	-2.0	20.0
Chlorobromomethane	Ave	0.5600	0.5429		24.2	25.0	-3.1	20.0
Tetrahydrofuran	Ave	1.083	0.9318		43.0	50.0	-14.0	20.0
Chloroform	Ave	1.933	1.882	0.2000	24.3	25.0	-2.6	20.0
1,1,1-Trichloroethane	Ave	1.589	1.746	0.1000	27.5	25.0	9.9	20.0
Cyclohexane	Ave	2.956	2.910	0.1000	24.6	25.0	-1.6	20.0
Carbon tetrachloride	Ave	1.484	1.542	0.1000	26.0	25.0	3.9	20.0
1,1-Dichloropropene	Ave	1.350	1.482		27.4	25.0	9.8	20.0
Benzene	Ave	4.040	3.987	0.5000	24.7	25.0	-1.3	20.0
Isobutyl alcohol	Ave	0.1317	0.1177		558	625	-10.7	50.0
1,2-Dichloroethane	Ave	2.077	2.235	0.1000	26.9	25.0	7.6	20.0
n-Heptane	Ave	2.974	2.990		25.1	25.0	0.5	20.0
Trichloroethene	Ave	1.042	1.107	0.2000	26.6	25.0	6.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730495/4 | Calibration Date: 10/31/2024 01:32

Instrument ID: HP5973N | Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) | Calib End Date: 10/24/2024 17:56

Lab File ID: N1237.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
Methylcyclohexane	Ave	1.698	1.739	0.1000	25.6	25.0	2.4	20.0
1,2-Dichloropropane	Ave	1.281	1.292	0.1000	25.2	25.0	0.9	20.0
Dibromomethane	Ave	0.7351	0.7291	0.1000	24.8	25.0	-0.8	20.0
1,4-Dioxane	Ave	0.0029	0.0028		493	500	-1.4	50.0
Bromodichloromethane	Ave	1.255	1.392	0.2000	27.7	25.0	10.9	20.0
2-Chloroethyl vinyl ether	Ave	0.8911	0.9424		26.4	25.0	5.8	20.0
cis-1,3-Dichloropropene	Ave	1.663	1.651	0.2000	24.8	25.0	-0.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2751	0.2549	0.1000	116	125	-7.3	20.0
Toluene	Ave	0.6825	0.7312	0.4000	26.8	25.0	7.1	20.0
trans-1,3-Dichloropropene	Ave	0.4252	0.4226	0.1000	24.9	25.0	-0.6	20.0
Ethyl methacrylate	Ave	0.4239	0.4123		24.3	25.0	-2.7	20.0
1,1,2-Trichloroethane	Ave	0.2125	0.2125	0.1000	25.0	25.0	0.0	20.0
Tetrachloroethene	Ave	0.2859	0.2864	0.2000	25.0	25.0	0.2	20.0
1,3-Dichloropropane	Ave	0.4378	0.4490		25.6	25.0	2.6	20.0
2-Hexanone	Ave	0.6159	0.5782	0.1000	117	125	-6.1	20.0
Dibromochloromethane	Ave	0.2800	0.2867	0.1000	25.6	25.0	2.4	20.0
1,2-Dibromoethane	Ave	0.2802	0.2604		23.2	25.0	-7.1	20.0
Chlorobenzene	Ave	0.7460	0.7884	0.5000	26.4	25.0	5.7	20.0
Ethylbenzene	Ave	1.300	1.355	0.1000	26.0	25.0	4.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2860	0.3005		26.3	25.0	5.1	20.0
m,p-Xylene	Ave	0.5125	0.4996	0.1000	24.4	25.0	-2.5	20.0
o-Xylene	Ave	0.5126	0.4883	0.3000	23.8	25.0	-4.8	20.0
Styrene	Ave	0.8348	0.7827	0.3000	23.4	25.0	-6.2	20.0
Bromoform	Ave	0.1828	0.1892	0.1000	25.9	25.0	3.5	50.0
Isopropylbenzene	Ave	2.477	2.300	0.1000	23.2	25.0	-7.1	20.0
Bromobenzene	Ave	0.6396	0.6156		24.1	25.0	-3.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7939	0.7211	0.3000	22.7	25.0	-9.2	20.0
N-Propylbenzene	Ave	2.943	2.977		25.3	25.0	1.2	20.0
1,2,3-Trichloropropane	Ave	0.2684	0.2263		21.1	25.0	-15.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4251	0.0760		4.47	25.0	-82.1*	50.0
2-Chlorotoluene	Ave	0.6157	0.5640		22.9	25.0	-8.4	20.0
1,3,5-Trimethylbenzene	Ave	2.178	2.049		23.5	25.0	-5.9	20.0
4-Chlorotoluene	Ave	2.111	2.115		25.0	25.0	0.2	20.0
tert-Butylbenzene	Ave	0.4644	0.4758		25.6	25.0	2.5	20.0
1,2,4-Trimethylbenzene	Ave	2.315	2.178		23.5	25.0	-5.9	20.0
sec-Butylbenzene	Ave	2.753	2.672		24.3	25.0	-3.0	20.0
1,3-Dichlorobenzene	Ave	1.181	1.135	0.6000	24.0	25.0	-3.9	20.0
4-Isopropyltoluene	Ave	2.464	2.333		23.7	25.0	-5.3	20.0
1,4-Dichlorobenzene	Ave	1.216	1.108	0.5000	22.8	25.0	-8.9	20.0
n-Butylbenzene	Ave	2.116	2.105		24.9	25.0	-0.5	20.0
1,2-Dichlorobenzene	Ave	1.197	1.091	0.4000	22.8	25.0	-8.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730495/4 Calibration Date: 10/31/2024 01:32

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N1237.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
1,2-Dibromo-3-Chloropropane	Ave	0.1748	0.1710	0.0500	24.5	25.0	-2.2	50.0
1,2,4-Trichlorobenzene	Ave	0.8600	0.8134	0.2000	23.6	25.0	-5.4	20.0
Hexachlorobutadiene	Ave	0.4291	0.4267		24.9	25.0	-0.6	20.0
Naphthalene	Ave	2.665	2.333		21.9	25.0	-12.5	20.0
1,2,3-Trichlorobenzene	Ave	0.8366	0.7832		23.4	25.0	-6.4	20.0
Dibromofluoromethane (Surr)	Ave	1.136	1.135		25.0	25.0	-0.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.690	1.701		25.2	25.0	0.7	20.0
Toluene-d8 (Surr)	Ave	1.144	1.168		25.5	25.0	2.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3609	0.3816		26.4	25.0	5.7	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1237.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 31-Oct-2024 01:32:30 ALS Bottle#: 37 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0120932-004
Operator ID: AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 09:47:23 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 09:47:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	140709	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	92	498038	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	259011	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	159735	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	66	239399	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	581504	25.0	25.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	190061	25.0	26.4	
11 Dichlorodifluoromethane	85	1.048	1.048	0.000	98	181096	25.0	26.1	
13 Chloromethane	50	1.188	1.188	0.000	99	343794	25.0	24.1	
14 Vinyl chloride	62	1.261	1.261	0.000	49	165607	25.0	22.0	
144 Butadiene	54	1.267	1.267	0.000	96	361758	25.0	30.1	
15 Bromomethane	94	1.511	1.511	0.000	93	95711	25.0	22.4	
16 Chloroethane	64	1.565	1.565	0.000	93	109831	25.0	20.8	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	70	238497	25.0	25.6	
17 Dichlorofluoromethane	67	1.748	1.748	0.000	94	273430	25.0	22.7	
19 Ethyl ether	59	1.985	1.985	0.000	92	181696	25.0	23.7	
20 Acrolein	56	2.143	2.143	0.000	97	113023	125.0	96.2	
22 1,1-Dichloroethene	96	2.174	2.174	0.000	89	120422	25.0	25.1	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.180	0.000	57	121892	25.0	24.7	
23 Acetone	43	2.289	2.289	0.000	97	614480	125.0	120.4	
24 Iodomethane	142	2.320	2.320	0.000	99	212694	25.0	23.4	
25 Carbon disulfide	76	2.350	2.350	0.000	98	409802	25.0	23.6	
27 3-Chloro-1-propene	41	2.520	2.520	0.000	87	444991	25.0	22.0	
28 Methyl acetate	43	2.563	2.563	0.000	99	605424	50.0	44.3	
30 Methylene Chloride	84	2.654	2.654	0.000	87	149956	25.0	25.7	
31 2-Methyl-2-propanol	59	2.837	2.837	0.000	96	309385	250.0	236.3	
32 Methyl tert-butyl ether	73	2.849	2.849	0.000	92	514367	25.0	24.7	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	88	146623	25.0	25.3	
34 Acrylonitrile	53	2.922	2.922	0.000	98	1486757	250.0	237.3	
35 Hexane	57	3.056	3.056	0.000	95	326906	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
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	349977	25.0	26.0	
39 Vinyl acetate	43	3.323	3.323	0.000	96	1193010	50.0	44.9	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	85	204938	25.0	25.4	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	87	165160	25.0	26.0	
44 2-Butanone (MEK)	43	3.841	3.841	0.000	95	1021175	125.0	122.5	
47 Chlorobromomethane	128	4.023	4.023	0.000	82	76387	25.0	24.2	
49 Tetrahydrofuran	42	4.041	4.041	0.000	88	262220	50.0	43.0	
50 Chloroform	83	4.108	4.108	0.000	94	264818	25.0	24.3	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	95	245729	25.0	27.5	
52 Cyclohexane	56	4.212	4.212	0.000	94	409449	25.0	24.6	
53 Carbon tetrachloride	117	4.339	4.339	0.000	95	217032	25.0	26.0	
55 Benzene	78	4.552	4.552	0.000	87	561042	25.0	24.7	a
54 1,1-Dichloropropene	75	4.358	4.358	0.000	85	208499	25.0	27.4	
56 Isobutyl alcohol	43	4.607	4.607	0.000	96	414048	625.0	558.4	
57 1,2-Dichloroethane	62	4.619	4.619	0.000	95	314526	25.0	26.9	
59 n-Heptane	43	4.747	4.747	0.000	95	420656	25.0	25.1	
60 Trichloroethene	95	5.155	5.155	0.000	94	155713	25.0	26.6	
62 Methylcyclohexane	83	5.270	5.270	0.000	92	244651	25.0	25.6	
63 1,2-Dichloropropane	63	5.386	5.386	0.000	86	181846	25.0	25.2	
64 Dibromomethane	93	5.520	5.520	0.000	96	102590	25.0	24.8	
66 1,4-Dioxane	88	5.544	5.544	0.000	84	28232	500.0	492.9	
67 Dichlorobromomethane	83	5.684	5.684	0.000	95	195845	25.0	27.7	
69 2-Chloroethyl vinyl ether	63	5.970	5.970	0.000	84	132611	25.0	26.4	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	82	232320	25.0	24.8	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	634841	125.0	115.8	
73 Toluene	92	6.371	6.371	0.000	96	364184	25.0	26.8	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	90	210490	25.0	24.9	
77 Ethyl methacrylate	69	6.724	6.724	0.000	85	205363	25.0	24.3	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	93	105841	25.0	25.0	
79 Tetrachloroethene	166	6.895	6.895	0.000	94	142623	25.0	25.0	
80 1,3-Dichloropropane	76	7.004	7.004	0.000	87	223623	25.0	25.6	
82 2-Hexanone	43	7.083	7.083	0.000	97	1439758	125.0	117.3	
83 Chlorodibromomethane	129	7.229	7.229	0.000	88	142764	25.0	25.6	
84 Ethylene Dibromide	107	7.326	7.326	0.000	98	129665	25.0	23.2	
85 Chlorobenzene	112	7.801	7.801	0.000	91	392650	25.0	26.4	
88 Ethylbenzene	91	7.898	7.898	0.000	98	674679	25.0	26.0	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	46	149646	25.0	26.3	
90 m-Xylene & p-Xylene	106	8.020	8.020	0.000	97	248836	25.0	24.4	
91 o-Xylene	106	8.440	8.440	0.000	98	243170	25.0	23.8	
92 Styrene	104	8.476	8.476	0.000	91	389827	25.0	23.4	
93 Bromoform	173	8.714	8.714	0.000	95	94232	25.0	25.9	
95 Isopropylbenzene	105	8.829	8.829	0.000	97	595687	25.0	23.2	
97 Bromobenzene	156	9.176	9.176	0.000	92	159440	25.0	24.1	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	96	186785	25.0	22.7	
100 N-Propylbenzene	91	9.273	9.273	0.000	98	771198	25.0	25.3	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	88	58623	25.0	21.1	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	60	19686	25.0	4.47	
102 2-Chlorotoluene	126	9.371	9.371	0.000	94	146089	25.0	22.9	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	95	530668	25.0	23.5	
105 4-Chlorotoluene	91	9.492	9.492	0.000	99	547692	25.0	25.0	
106 tert-Butylbenzene	134	9.802	9.802	0.000	95	123235	25.0	25.6	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	564137	25.0	23.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.021	10.021	0.000	96	692076	25.0	24.3	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	96	294056	25.0	24.0	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	98	604213	25.0	23.7	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	91	286906	25.0	22.8	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	545302	25.0	24.9	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	95	282683	25.0	22.8	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	73	44289	25.0	24.5	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	93	210686	25.0	23.6	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	97	110511	25.0	24.9	
121 Naphthalene	128	12.248	12.248	0.000	97	604261	25.0	21.9	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	94	202851	25.0	23.4	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
GAS CORP mix_00647	Amount Added:	12.50	Units: uL	
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

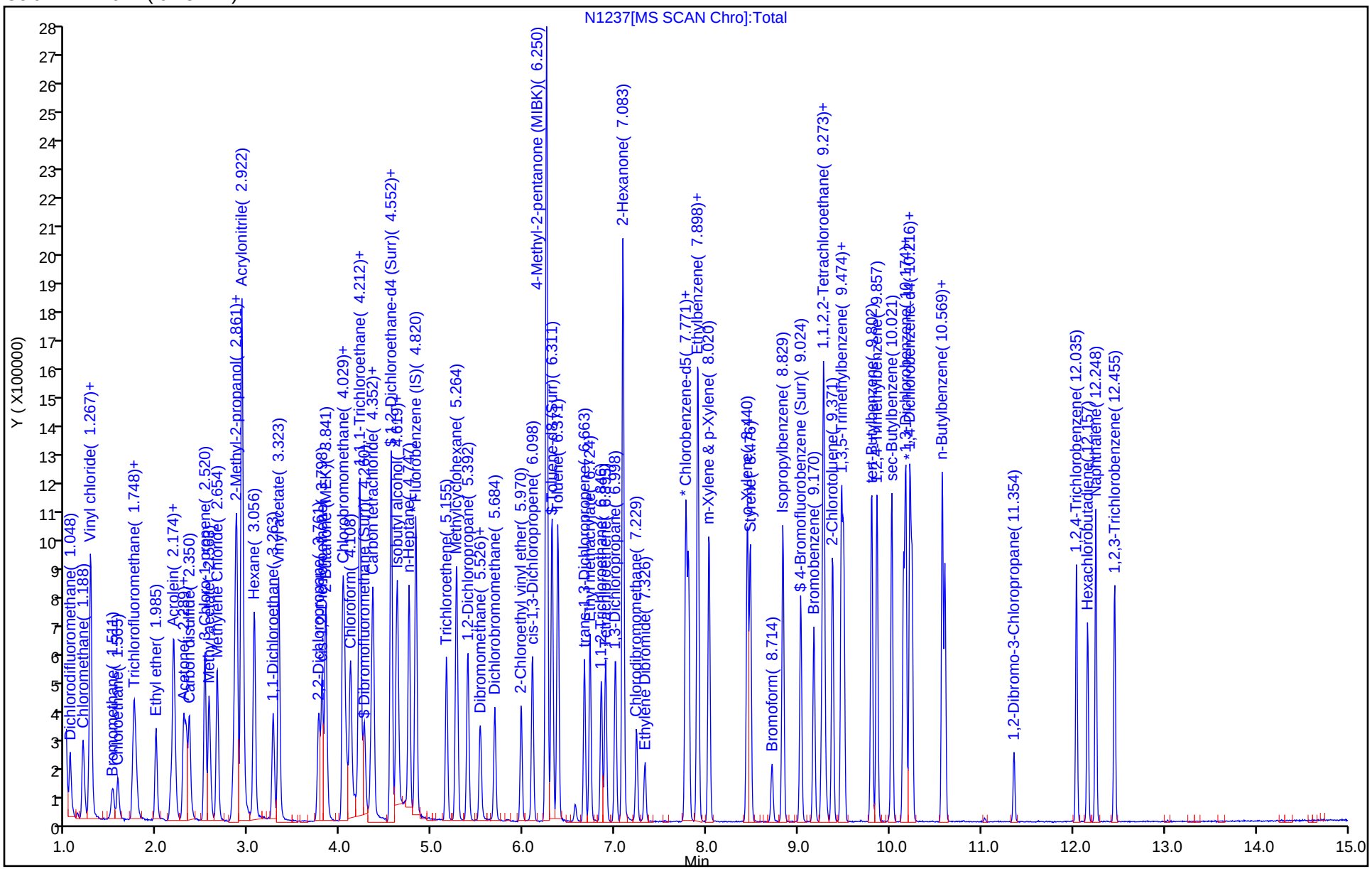
Report Date: 31-Oct-2024 09:47:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1237.d

Injection Date:	31-Oct-2024 01:32:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

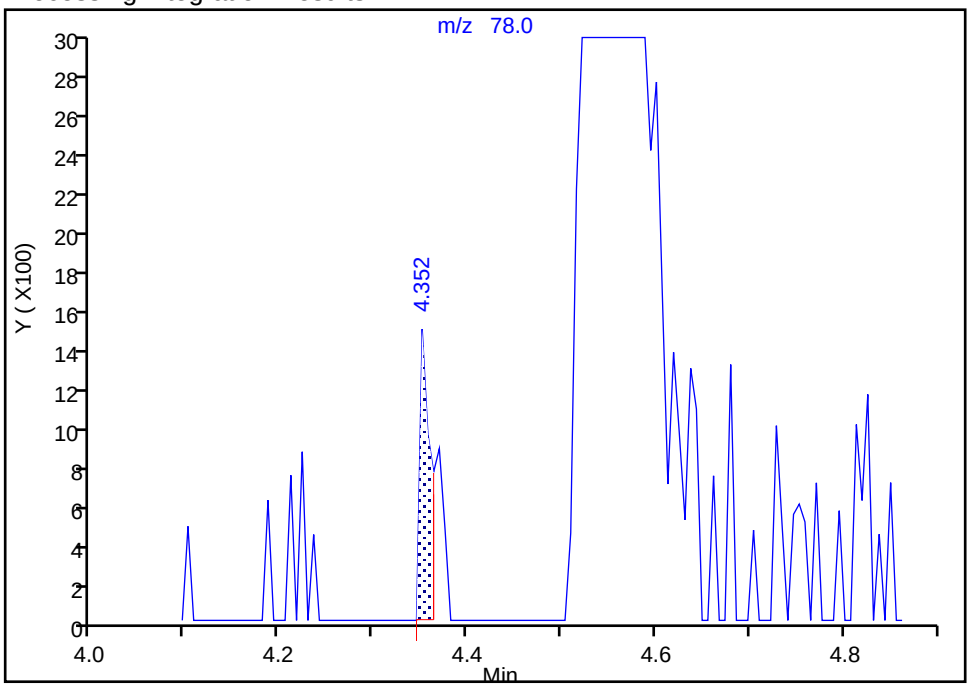
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1237.d
Injection Date: 31-Oct-2024 01:32:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AD ALS Bottle#: 37 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

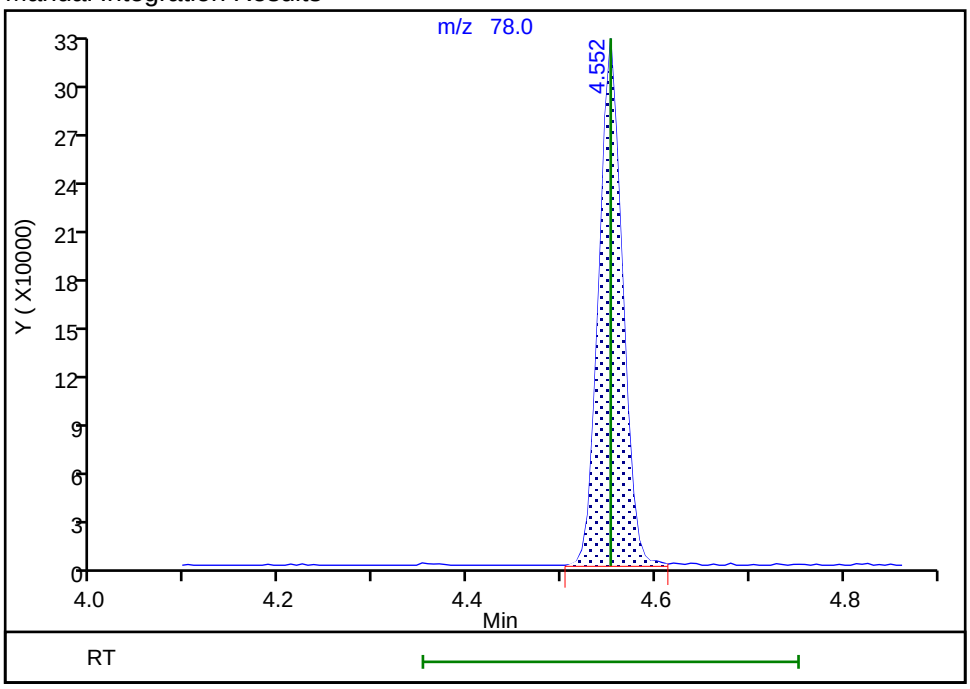
Processing Integration Results

RT: 4.35
Area: 1139
Amount: 0.050092
Amount Units: ug/L



Manual Integration Results

RT: 4.55
Area: 561042
Amount: 24.674055
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 09:46:57 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730696/4 Calibration Date: 10/31/2024 22:36

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N1291.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	1.232	1.134	0.1000	23.0	25.0	-8.0	50.0
Chloromethane	Ave	2.532	2.126	0.1000	21.0	25.0	-16.0	20.0
Vinyl chloride	Ave	1.336	1.135	0.1000	21.2	25.0	-15.0	20.0
Butadiene	Ave	2.138	2.341		27.4	25.0	9.5	20.0
Bromomethane	Ave	0.7589	0.5959	0.1000	19.6	25.0	-21.5	50.0
Chloroethane	Ave	0.9367	0.6969	0.1000	18.6	25.0	-25.6	50.0
Dichlorofluoromethane	Ave	2.138	1.820		21.3	25.0	-14.9	20.0
Trichlorofluoromethane	Ave	1.655	1.550	0.1000	23.4	25.0	-6.3	20.0
Ethyl ether	Ave	1.362	1.166		21.4	25.0	-14.4	20.0
Acrolein	Ave	0.2087	0.1660		99.4	125	-20.5	50.0
1,1-Dichloroethene	Ave	0.8512	0.7426	0.1000	21.8	25.0	-12.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.8751	0.7434	0.1000	21.2	25.0	-15.1	20.0
Acetone	Ave	0.9069	0.8598	0.1000	119	125	-5.2	50.0
Iodomethane	Ave	1.612	1.329		20.6	25.0	-17.6	20.0
Carbon disulfide	Ave	3.087	2.440	0.1000	19.8	25.0	-21.0*	20.0
Allyl chloride	Ave	3.593	2.814		19.6	25.0	-21.7*	20.0
Methyl acetate	Ave	2.427	2.041	0.1000	42.1	50.0	-15.9	50.0
Methylene Chloride	Lin1		0.995	0.1000	24.0	25.0	-4.2	20.0
2-Methyl-2-propanol	Ave	0.2326	0.2276		245	250	-2.1	50.0
Methyl tert-butyl ether	Ave	3.702	3.269	0.1000	22.1	25.0	-11.7	20.0
trans-1,2-Dichloroethene	Ave	1.031	0.9238	0.1000	22.4	25.0	-10.4	20.0
Acrylonitrile	Ave	1.113	0.9888		222	250	-11.2	20.0
Hexane	Ave	2.305	2.051		22.2	25.0	-11.0	20.0
1,1-Dichloroethane	Ave	2.391	2.133	0.2000	22.3	25.0	-10.8	20.0
Vinyl acetate	Ave	4.716	3.978		42.2	50.0	-15.7	20.0
2,2-Dichloropropane	Ave	1.435	1.261		22.0	25.0	-12.1	20.0
cis-1,2-Dichloroethene	Ave	1.130	1.004	0.1000	22.2	25.0	-11.2	20.0
2-Butanone (MEK)	Ave	1.481	1.449	0.1000	122	125	-2.2	20.0
Chlorobromomethane	Ave	0.5600	0.4879		21.8	25.0	-12.9	20.0
Tetrahydrofuran	Ave	1.083	0.9777		45.1	50.0	-9.7	20.0
Chloroform	Ave	1.933	1.721	0.2000	22.3	25.0	-11.0	20.0
1,1,1-Trichloroethane	Ave	1.589	1.540	0.1000	24.2	25.0	-3.1	20.0
Cyclohexane	Ave	2.956	2.631	0.1000	22.3	25.0	-11.0	20.0
Carbon tetrachloride	Ave	1.484	1.419	0.1000	23.9	25.0	-4.4	20.0
1,1-Dichloropropene	Ave	1.350	1.289		23.9	25.0	-4.5	20.0
Benzene	Ave	4.040	3.576	0.5000	22.1	25.0	-11.5	20.0
Isobutyl alcohol	Ave	0.1317	0.1254		595	625	-4.9	50.0
1,2-Dichloroethane	Ave	2.077	2.032	0.1000	24.5	25.0	-2.2	20.0
n-Heptane	Ave	2.974	2.722		22.9	25.0	-8.5	20.0
Trichloroethene	Ave	1.042	0.9656	0.2000	23.2	25.0	-7.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730696/4 Calibration Date: 10/31/2024 22:36

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N1291.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
Methylcyclohexane	Ave	1.698	1.557	0.1000	22.9	25.0	-8.3	20.0
1,2-Dichloropropane	Ave	1.281	1.164	0.1000	22.7	25.0	-9.1	20.0
Dibromomethane	Ave	0.7351	0.6388	0.1000	21.7	25.0	-13.1	20.0
1,4-Dioxane	Ave	0.0029	0.0030		527	500	5.4	50.0
Bromodichloromethane	Ave	1.255	1.238	0.2000	24.7	25.0	-1.3	20.0
2-Chloroethyl vinyl ether	Ave	0.8911	0.8832		24.8	25.0	-0.9	20.0
cis-1,3-Dichloropropene	Ave	1.663	1.556	0.2000	23.4	25.0	-6.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2751	0.2629	0.1000	119	125	-4.4	20.0
Toluene	Ave	0.6825	0.7128	0.4000	26.1	25.0	4.4	20.0
trans-1,3-Dichloropropene	Ave	0.4252	0.4264	0.1000	25.1	25.0	0.3	20.0
Ethyl methacrylate	Ave	0.4239	0.4227		24.9	25.0	-0.3	20.0
1,1,2-Trichloroethane	Ave	0.2125	0.2048	0.1000	24.1	25.0	-3.6	20.0
Tetrachloroethene	Ave	0.2859	0.2700	0.2000	23.6	25.0	-5.5	20.0
1,3-Dichloropropane	Ave	0.4378	0.4290		24.5	25.0	-2.0	20.0
2-Hexanone	Ave	0.6159	0.6283	0.1000	128	125	2.0	20.0
Dibromochloromethane	Ave	0.2800	0.2651	0.1000	23.7	25.0	-5.3	20.0
1,2-Dibromoethane	Ave	0.2802	0.2726		24.3	25.0	-2.7	20.0
Chlorobenzene	Ave	0.7460	0.7609	0.5000	25.5	25.0	2.0	20.0
Ethylbenzene	Ave	1.300	1.295	0.1000	24.9	25.0	-0.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2860	0.2780		24.3	25.0	-2.8	20.0
m,p-Xylene	Ave	0.5125	0.4905	0.1000	23.9	25.0	-4.3	20.0
o-Xylene	Ave	0.5126	0.4894	0.3000	23.9	25.0	-4.5	20.0
Styrene	Ave	0.8348	0.7650	0.3000	22.9	25.0	-8.4	20.0
Bromoform	Ave	0.1828	0.1898	0.1000	26.0	25.0	3.8	50.0
Isopropylbenzene	Ave	2.477	2.089	0.1000	21.1	25.0	-15.7	20.0
Bromobenzene	Ave	0.6396	0.5706		22.3	25.0	-10.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7939	0.6977	0.3000	22.0	25.0	-12.1	20.0
N-Propylbenzene	Ave	2.943	2.766		23.5	25.0	-6.0	20.0
1,2,3-Trichloropropane	Ave	0.2684	0.2167		20.2	25.0	-19.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4251	0.0974		5.73	25.0	-77.1*	50.0
2-Chlorotoluene	Ave	0.6157	0.5391		21.9	25.0	-12.4	20.0
1,3,5-Trimethylbenzene	Ave	2.178	1.951		22.4	25.0	-10.4	20.0
4-Chlorotoluene	Ave	2.111	2.003		23.7	25.0	-5.1	20.0
tert-Butylbenzene	Ave	0.4644	0.4312		23.2	25.0	-7.1	20.0
1,2,4-Trimethylbenzene	Ave	2.315	1.993		21.5	25.0	-13.9	20.0
sec-Butylbenzene	Ave	2.753	2.551		23.2	25.0	-7.4	20.0
1,3-Dichlorobenzene	Ave	1.181	1.045	0.6000	22.1	25.0	-11.5	20.0
4-Isopropyltoluene	Ave	2.464	2.183		22.1	25.0	-11.4	20.0
1,4-Dichlorobenzene	Ave	1.216	1.060	0.5000	21.8	25.0	-12.8	20.0
n-Butylbenzene	Ave	2.116	1.942		22.9	25.0	-8.2	20.0
1,2-Dichlorobenzene	Ave	1.197	1.015	0.4000	21.2	25.0	-15.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730696/4 Calibration Date: 10/31/2024 22:36

Instrument ID: HP5973N Calib Start Date: 10/24/2024 15:19

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/24/2024 17:56

Lab File ID: N1291.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
1,2-Dibromo-3-Chloropropane	Ave	0.1748	0.1618	0.0500	23.1	25.0	-7.5	50.0
1,2,4-Trichlorobenzene	Ave	0.8600	0.7455	0.2000	21.7	25.0	-13.3	20.0
Hexachlorobutadiene	Ave	0.4291	0.3908		22.8	25.0	-8.9	20.0
Naphthalene	Ave	2.665	2.267		21.3	25.0	-15.0	20.0
1,2,3-Trichlorobenzene	Ave	0.8366	0.7149		21.4	25.0	-14.5	20.0
Dibromofluoromethane (Surr)	Ave	1.136	1.013		22.3	25.0	-10.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.690	1.600		23.7	25.0	-5.3	20.0
Toluene-d8 (Surr)	Ave	1.144	1.137		24.8	25.0	-0.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3609	0.4033		27.9	25.0	11.8	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1291.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 31-Oct-2024 22:36:30 ALS Bottle#: 32 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0120960-004
Operator ID: AD Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:00:40 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:00:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	96	148709	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	93	499220	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.222	10.222	0.000	95	270277	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.000	92	150694	25.0	22.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	67	237919	25.0	23.7	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	96	567365	25.0	24.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	86	201334	25.0	27.9	
11 Dichlorodifluoromethane	85	1.048	1.048	0.000	97	168569	25.0	23.0	
13 Chloromethane	50	1.188	1.188	0.000	99	316162	25.0	21.0	
14 Vinyl chloride	62	1.261	1.261	0.000	96	168815	25.0	21.2	
144 Butadiene	54	1.273	1.273	0.000	96	348148	25.0	27.4	
15 Bromomethane	94	1.511	1.511	0.000	92	88621	25.0	19.6	
16 Chloroethane	64	1.571	1.571	0.000	93	103628	25.0	18.6	
18 Trichlorofluoromethane	101	1.748	1.748	0.000	70	230525	25.0	23.4	
17 Dichlorofluoromethane	67	1.748	1.748	0.000	94	270626	25.0	21.3	
19 Ethyl ether	59	1.985	1.985	0.000	90	173456	25.0	21.4	
20 Acrolein	56	2.149	2.149	0.000	98	123416	125.0	99.4	
22 1,1-Dichloroethene	96	2.180	2.180	0.000	89	110434	25.0	21.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.186	2.186	0.000	58	110546	25.0	21.2	
23 Acetone	43	2.289	2.289	0.000	97	639332	125.0	118.5	
24 Iodomethane	142	2.320	2.320	0.000	100	197679	25.0	20.6	
25 Carbon disulfide	76	2.350	2.350	0.000	97	362813	25.0	19.8	
27 3-Chloro-1-propene	41	2.520	2.520	0.000	87	418401	25.0	19.6	
28 Methyl acetate	43	2.569	2.569	0.000	99	607123	50.0	42.1	
30 Methylene Chloride	84	2.654	2.654	0.000	87	148015	25.0	24.0	
31 2-Methyl-2-propanol	59	2.831	2.831	0.000	99	338478	250.0	244.6	
32 Methyl tert-butyl ether	73	2.855	2.855	0.000	94	486161	25.0	22.1	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	88	137375	25.0	22.4	
34 Acrylonitrile	53	2.922	2.922	0.000	97	1470464	250.0	222.1	
35 Hexane	57	3.056	3.056	0.000	95	304977	25.0	22.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.269	3.269	0.000	97	317211	25.0	22.3	
39 Vinyl acetate	43	3.323	3.323	0.000	96	1183168	50.0	42.2	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	83	187538	25.0	22.0	
43 cis-1,2-Dichloroethene	96	3.804	3.804	0.000	87	149311	25.0	22.2	
44 2-Butanone (MEK)	43	3.834	3.834	0.000	95	1077730	125.0	122.3	
47 Chlorobromomethane	128	4.029	4.029	0.000	83	72557	25.0	21.8	
49 Tetrahydrofuran	42	4.041	4.041	0.000	92	290774	50.0	45.1	
50 Chloroform	83	4.108	4.108	0.000	94	255916	25.0	22.3	
51 1,1,1-Trichloroethane	97	4.212	4.212	0.000	77	228968	25.0	24.2	
52 Cyclohexane	56	4.212	4.212	0.000	95	391224	25.0	22.3	
53 Carbon tetrachloride	117	4.339	4.339	0.000	95	211019	25.0	23.9	
55 Benzene	78	4.552	4.552	0.000	87	531801	25.0	22.1	a
54 1,1-Dichloropropene	75	4.358	4.358	0.000	81	191743	25.0	23.9	
56 Isobutyl alcohol	43	4.613	4.613	0.000	93	466027	625.0	594.7	
57 1,2-Dichloroethane	62	4.625	4.625	0.000	95	302132	25.0	24.5	
59 n-Heptane	43	4.747	4.747	0.000	94	404828	25.0	22.9	
60 Trichloroethene	95	5.155	5.155	0.000	91	143599	25.0	23.2	
62 Methylcyclohexane	83	5.270	5.270	0.000	92	231544	25.0	22.9	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	85	173129	25.0	22.7	
64 Dibromomethane	93	5.520	5.520	0.000	95	95001	25.0	21.7	
66 1,4-Dioxane	88	5.538	5.538	0.000	66	30249	500.0	526.8	
67 Dichlorobromomethane	83	5.684	5.684	0.000	94	184111	25.0	24.7	
69 2-Chloroethyl vinyl ether	63	5.970	5.970	0.000	82	131341	25.0	24.8	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	83	231418	25.0	23.4	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	656138	125.0	119.5	
73 Toluene	92	6.371	6.371	0.000	97	355848	25.0	26.1	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	92	212887	25.0	25.1	
77 Ethyl methacrylate	69	6.724	6.724	0.000	85	211022	25.0	24.9	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	92	102258	25.0	24.1	
79 Tetrachloroethene	166	6.895	6.895	0.000	90	134812	25.0	23.6	
80 1,3-Dichloropropane	76	6.998	6.998	0.000	85	214170	25.0	24.5	
82 2-Hexanone	43	7.083	7.083	0.000	97	1568211	125.0	127.5	
83 Chlorodibromomethane	129	7.235	7.235	0.000	88	132364	25.0	23.7	
84 Ethylene Dibromide	107	7.326	7.326	0.000	99	136067	25.0	24.3	
85 Chlorobenzene	112	7.801	7.801	0.000	90	379861	25.0	25.5	
88 Ethylbenzene	91	7.898	7.898	0.000	98	646353	25.0	24.9	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	91	138777	25.0	24.3	
90 m-Xylene & p-Xylene	106	8.026	8.026	0.000	97	244866	25.0	23.9	
91 o-Xylene	106	8.440	8.440	0.000	98	244299	25.0	23.9	
92 Styrene	104	8.476	8.476	0.000	90	381882	25.0	22.9	
93 Bromoform	173	8.714	8.714	0.000	94	94756	25.0	26.0	
95 Isopropylbenzene	105	8.829	8.829	0.000	97	564515	25.0	21.1	
97 Bromobenzene	156	9.170	9.170	0.000	91	154217	25.0	22.3	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	96	188573	25.0	22.0	
100 N-Propylbenzene	91	9.273	9.273	0.000	99	747506	25.0	23.5	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	91	58563	25.0	20.2	
101 trans-1,4-Dichloro-2-butene	53	9.310	9.310	0.000	58	26338	25.0	5.73	
102 2-Chlorotoluene	126	9.377	9.377	0.000	95	145717	25.0	21.9	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	95	527436	25.0	22.4	
105 4-Chlorotoluene	91	9.492	9.492	0.000	99	541341	25.0	23.7	
106 tert-Butylbenzene	134	9.802	9.802	0.000	94	116543	25.0	23.2	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	538534	25.0	21.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.021	10.021	0.000	95	689345	25.0	23.2	
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	96	282521	25.0	22.1	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	97	589929	25.0	22.1	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	91	286415	25.0	21.8	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	524909	25.0	22.9	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	93	274355	25.0	21.2	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	73	43730	25.0	23.1	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	201502	25.0	21.7	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	97	105630	25.0	22.8	
121 Naphthalene	128	12.248	12.248	0.000	97	612597	25.0	21.3	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	96	193234	25.0	21.4	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
GAS CORP mix_00647	Amount Added:	12.50	Units: uL	
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

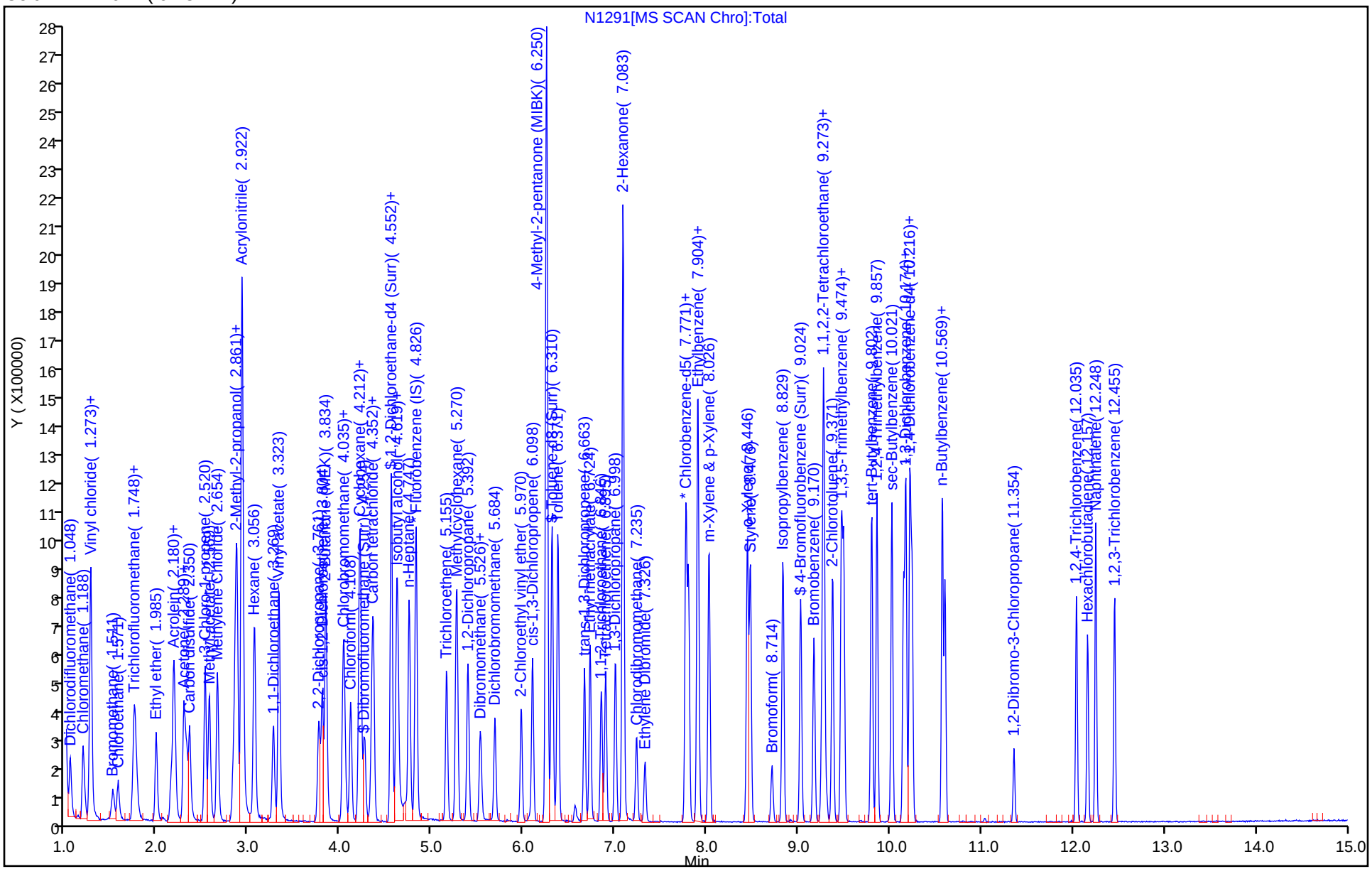
Report Date: 01-Nov-2024 10:00:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1291.d

Injection Date:	31-Oct-2024 22:36:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

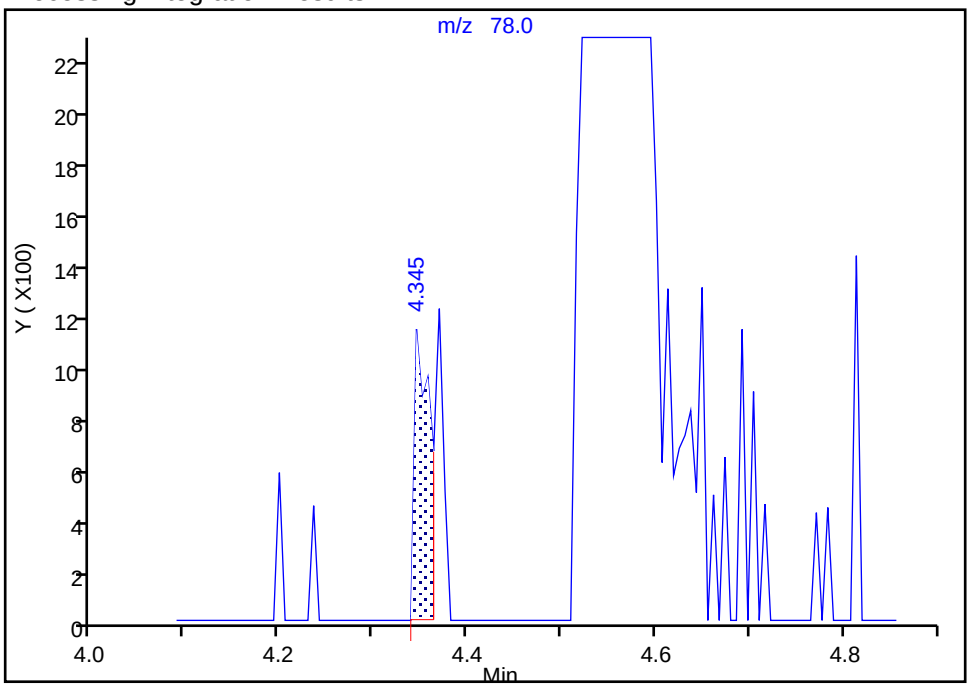
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1291.d
Injection Date: 31-Oct-2024 22:36:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AD ALS Bottle#: 32 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

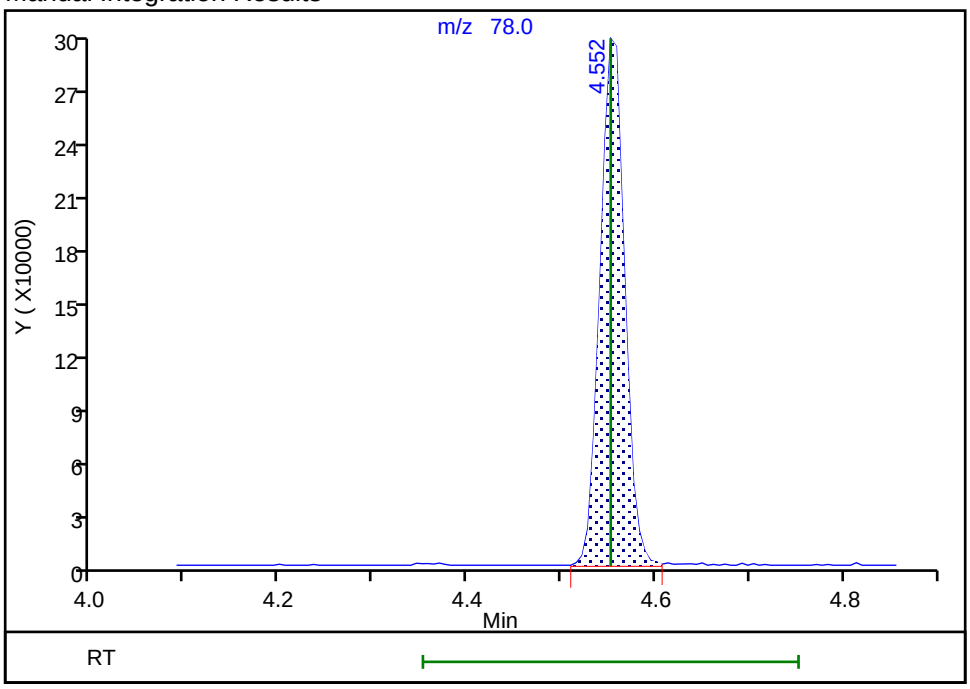
Processing Integration Results

RT: 4.35
Area: 1309
Amount: 0.054472
Amount Units: ug/L



Manual Integration Results

RT: 4.55
Area: 531801
Amount: 22.129873
Amount Units: ug/L



Reviewer: HF3K, 01-Nov-2024 10:00:11 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0901.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 24-Oct-2024 14:11:30 ALS Bottle#: 10 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0120783-011
Operator ID: LH/AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Oct-2024 13:11:25 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: WLL8 Date: 25-Oct-2024 13:11:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.296	4.296	0.000	0	250067	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

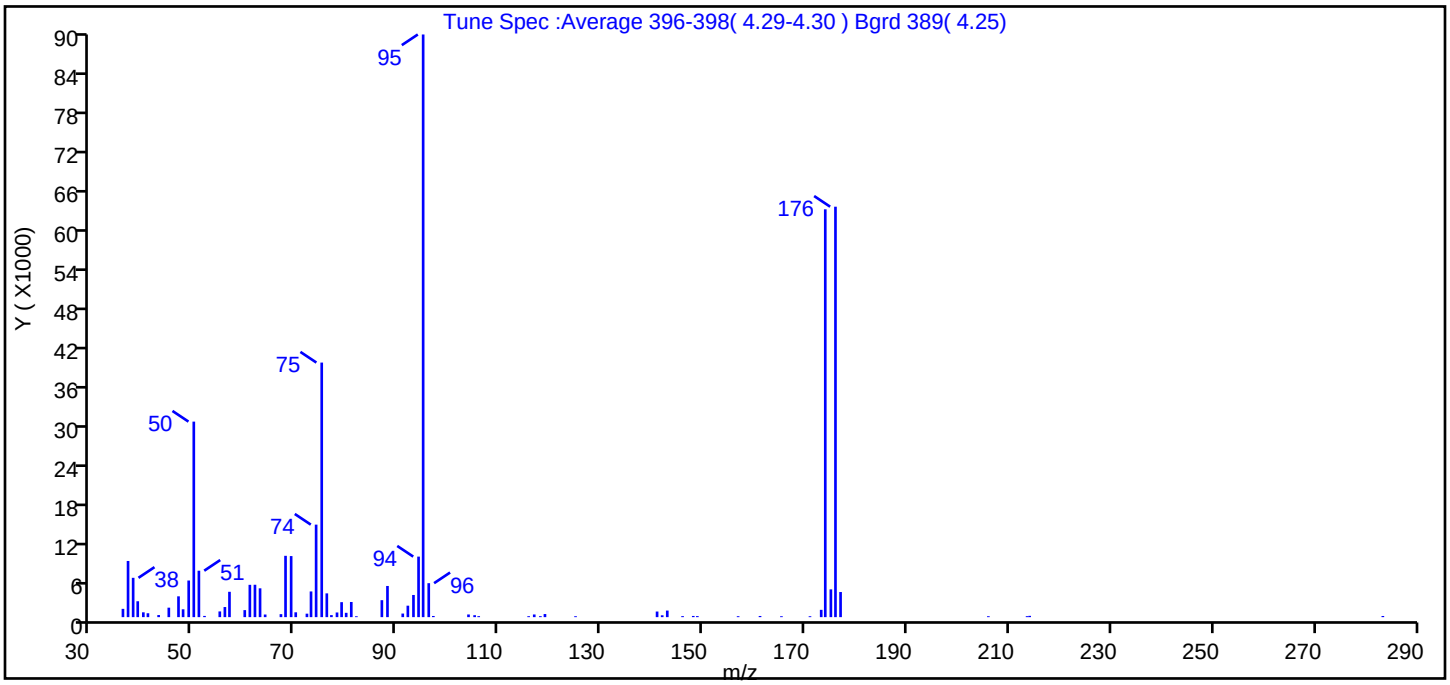
BFB_WRK_00167 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0901.d
Injection Date: 24-Oct-2024 14:11:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: LH/AD ALS Bottle#: 10 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	33.6
75	30 to 60% of m/z 95	43.7
96	5 to 9% of m/z 95	5.8
173	Less than 2% of m/z 174	1.3 (1.8)
174	50 to 120% of m/z 95	70.0
175	5 to 9% of m/z 174	4.8 (6.8)
176	Greater than 95% but less than 101% of m/z 174	70.4 (100.6)
177	5 to 9% of m/z 176	4.3 (6.1)

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0901.d\N-8260.rslt\spectra.d
Injection Date: 24-Oct-2024 14:11:30
Spectrum: Tune Spec :Average 396-398(4.29-4.30) Bgrd 389(4.25)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1269	62.00	4958	88.00	4773	146.00	155
37.00	8599	63.00	4413	91.00	550	148.00	182
38.00	6021	64.00	403	92.00	1755	149.00	159
39.00	2434	67.00	458	93.00	3394	157.00	142
40.00	740	68.00	9389	94.00	9268	161.00	177
41.00	597	69.00	9350	95.00	89208	165.00	137
43.00	320	70.00	741	96.00	5199	171.00	137
45.00	1450	72.00	532	97.00	178	173.00	1120
47.00	3187	73.00	3935	104.00	409	174.00	62440
48.00	1202	74.00	14164	105.00	298	175.00	4251
49.00	5607	75.00	38976	106.00	151	176.00	62840
50.00	29936	76.00	3639	116.00	143	177.00	3846
51.00	7108	77.00	309	117.00	409	206.00	139
52.00	187	78.00	714	118.00	147	214.00	147
55.00	875	79.00	2294	119.00	476	214.00	198
56.00	1547	80.00	662	125.00	141	283.00	176
57.00	3881	81.00	2320	141.00	859		
60.00	1075	82.00	134	142.00	283		
61.00	4948	87.00	2598	143.00	1006		

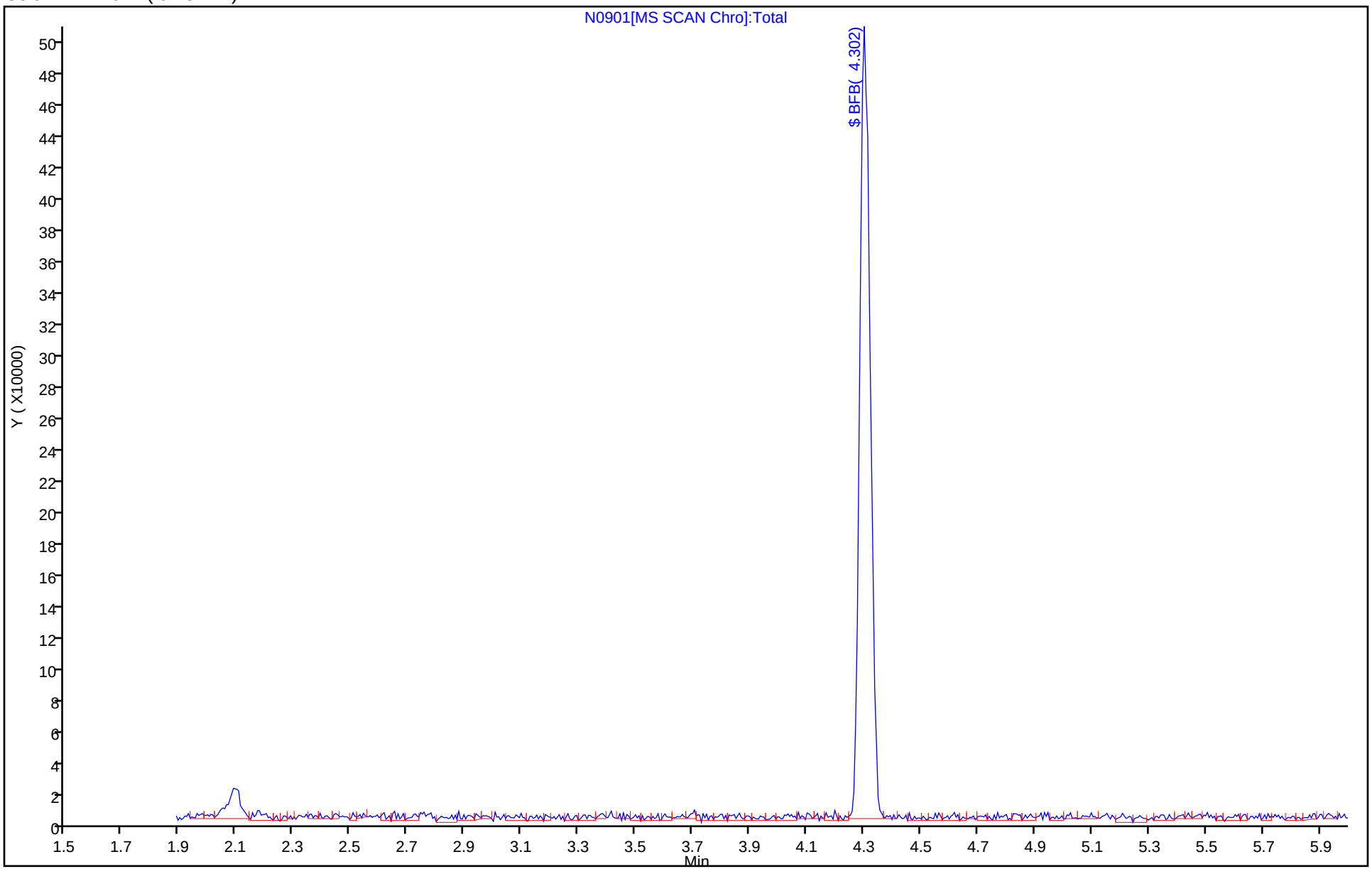
Report Date: 25-Oct-2024 13:11:26 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0901.d

Injection Date:	24-Oct-2024 14:11:30	Instrument ID:	HP5973N	Operator ID:	LH/AD
Lims ID:	BFB			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1236.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 31-Oct-2024 01:09:30 ALS Bottle#: 36 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0120932-003
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 09:46:46 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 09:46:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.412	4.412	0.000	84	842973	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

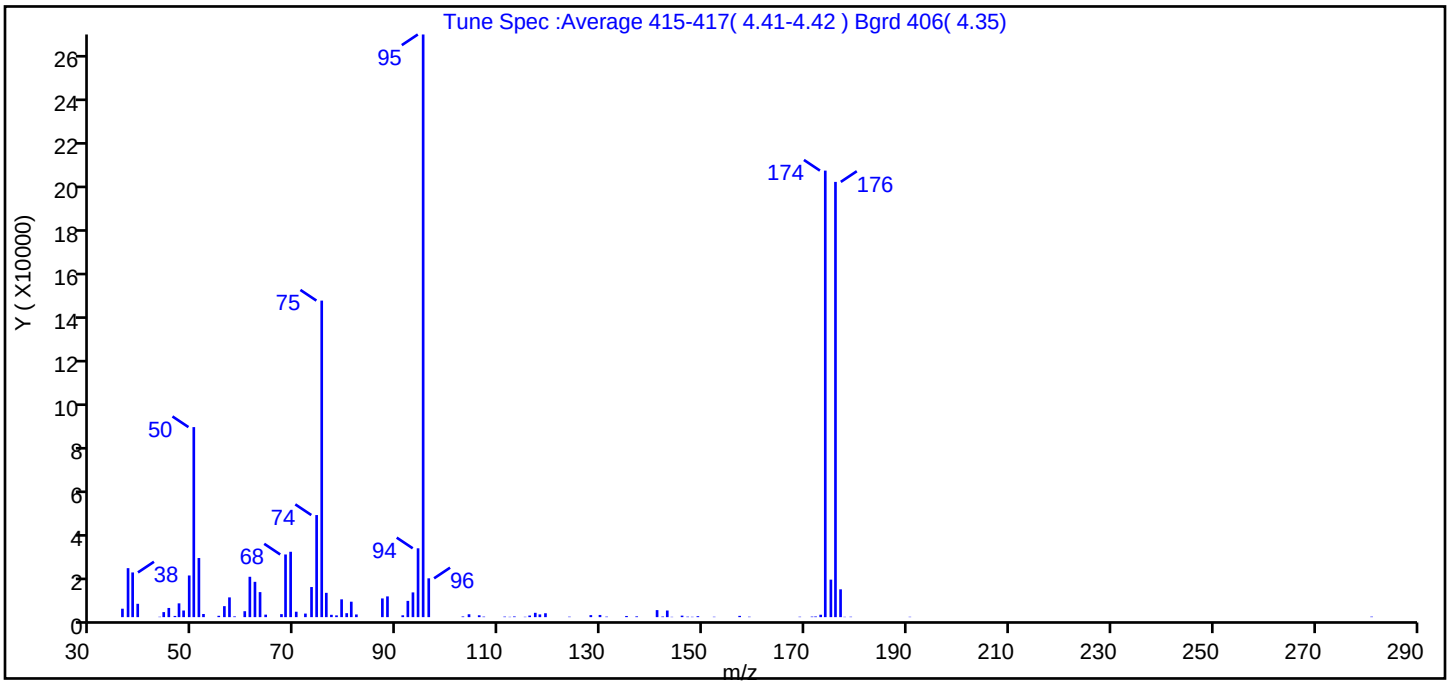
BFB_WRK_00167 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1236.d
Injection Date: 31-Oct-2024 01:09:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: AD ALS Bottle#: 36 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	32.6
75	30 to 60% of m/z 95	54.3
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	76.6
175	5 to 9% of m/z 174	6.4 (8.4)
176	Greater than 95% but less than 101% of m/z 174	74.7 (97.5)
177	5 to 9% of m/z 176	4.8 (6.4)

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1236.d\N-8260.rslt\spectra.d
Injection Date: 31-Oct-2024 01:09:30
Spectrum: Tune Spec :Average 415-417(4.41-4.42) Bgrd 406(4.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3779	64.00	1124	95.00	261056	143.00	2971
37.00	21952	67.00	1349	96.00	17392	144.00	141
38.00	20032	68.00	28080	103.00	307	146.00	674
39.00	5980	69.00	29288	104.00	1290	147.00	217
43.00	168	70.00	2434	106.00	832	148.00	157
44.00	2255	72.00	1598	107.00	230	149.00	430
45.00	4116	73.00	13484	111.00	242	152.00	171
46.00	546	74.00	45744	112.00	143	157.00	571
47.00	6178	75.00	141824	113.00	311	159.00	192
48.00	2974	76.00	10893	115.00	160	169.00	186
49.00	18672	77.00	1046	116.00	715	171.00	244
50.00	85144	78.00	790	117.00	1940	172.00	299
51.00	26488	79.00	7981	118.00	1225	173.00	1075
52.00	1411	80.00	1768	119.00	1745	174.00	200064
55.00	601	81.00	6921	124.00	205	175.00	16808
56.00	4921	82.00	1204	128.00	901	176.00	195008
57.00	8855	87.00	8382	130.00	978	177.00	12465
58.00	334	88.00	9295	131.00	226	178.00	145
60.00	2657	91.00	826	135.00	520	179.00	184
61.00	18088	92.00	7286	137.00	355	190.00	155
62.00	15823	93.00	11085	141.00	3151	281.00	222
63.00	11217	94.00	30848	142.00	279		

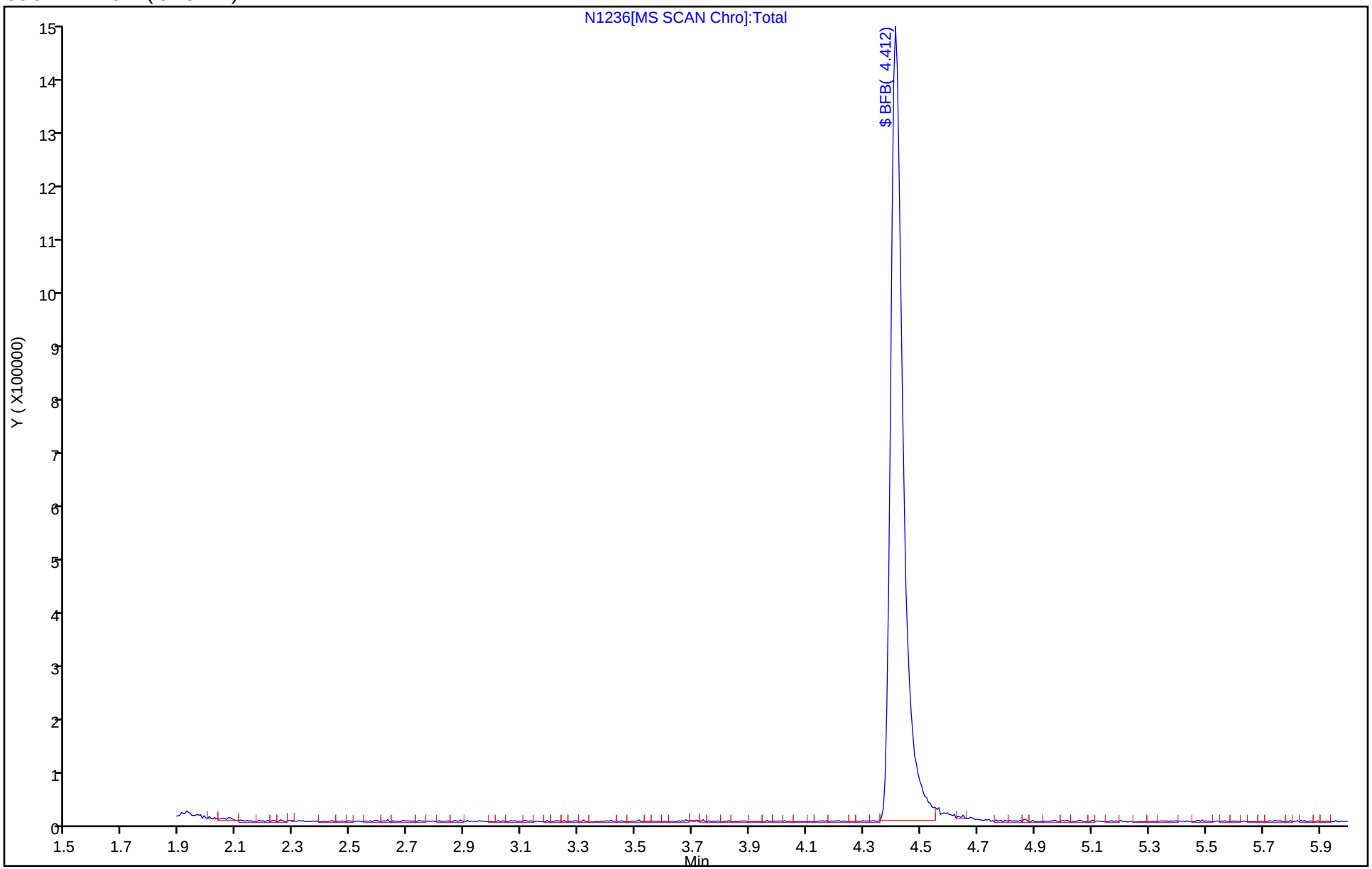
Report Date: 31-Oct-2024 09:46:46 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1236.d

Injection Date:	31-Oct-2024 01:09:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1290.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 31-Oct-2024 22:14:30 ALS Bottle#: 31 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0120960-003
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:00:00 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:00:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.418	4.418	0.000	81	897230	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

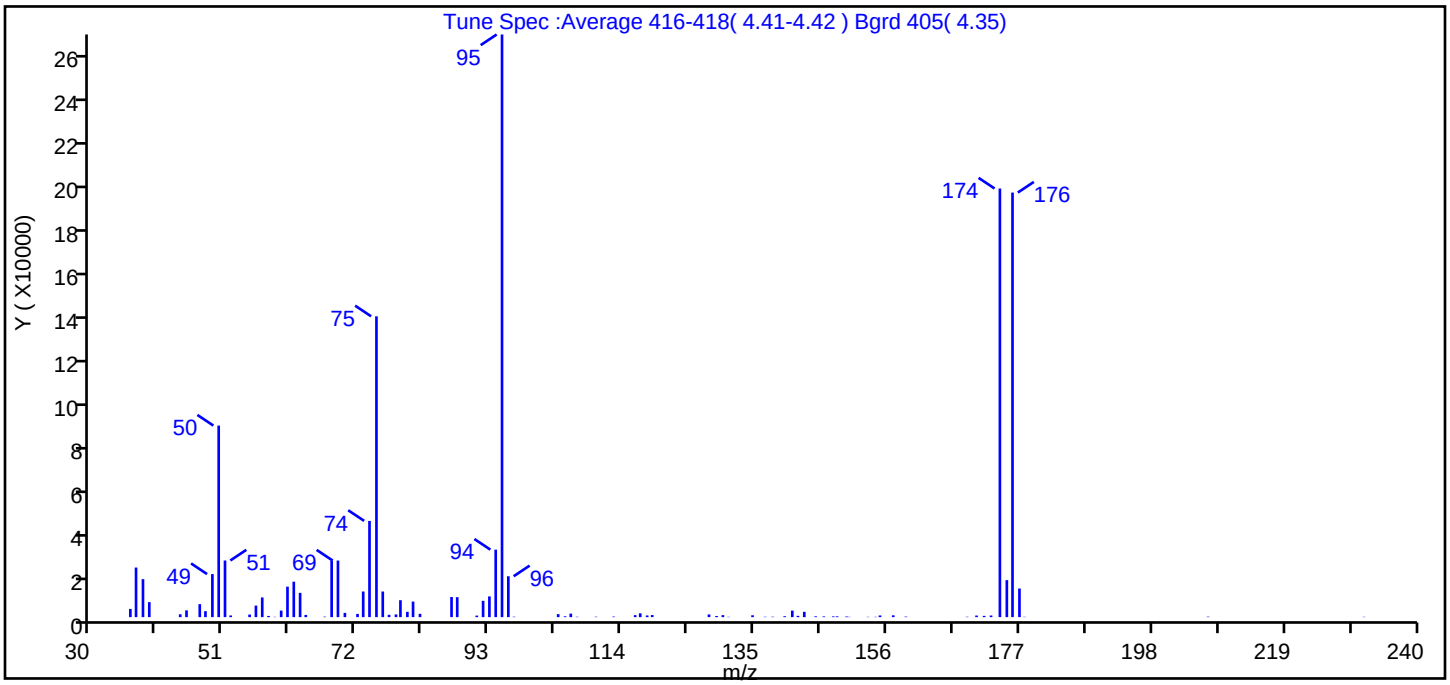
BFB_WRK_00167 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1290.d
Injection Date: 31-Oct-2024 22:14:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: AD ALS Bottle#: 31 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	32.9
75	30 to 60% of m/z 95	51.6
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	73.6
175	5 to 9% of m/z 174	6.4 (8.6)
176	Greater than 95% but less than 101% of m/z 174	72.9 (99.1)
177	5 to 9% of m/z 176	4.9 (6.7)

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1290.d\N-8260.rslt\spectra.d
Injection Date: 31-Oct-2024 22:14:30
Spectrum: Tune Spec :Average 416-418(4.41-4.42) Bgrd 405(4.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3769	68.00	25888	104.00	1378	148.00	330
37.00	22752	69.00	25960	105.00	382	148.00	371
38.00	17424	70.00	1958	106.00	1616	150.00	292
39.00	6882	72.00	1479	107.00	176	150.00	138
44.00	1310	73.00	11764	110.00	194	153.00	142
45.00	3106	74.00	44144	113.00	263	154.00	141
47.00	5957	75.00	137984	116.00	908	155.00	776
48.00	2736	76.00	11751	117.00	1754	157.00	842
49.00	19752	77.00	1072	118.00	769	159.00	257
50.00	87864	78.00	1245	119.00	969	169.00	182
51.00	25984	79.00	7775	128.00	1237	170.00	742
52.00	764	80.00	2443	129.00	529	171.00	588
55.00	1202	81.00	7142	130.00	927	172.00	752
56.00	5296	82.00	1538	131.00	139	174.00	196608
57.00	9036	87.00	9229	135.00	856	175.00	16976
58.00	554	88.00	9161	137.00	178	176.00	194752
59.00	142	91.00	711	138.00	200	177.00	13131
60.00	3018	92.00	7494	140.00	424	178.00	146
61.00	13979	93.00	9506	141.00	3006	207.00	221
62.00	16270	94.00	30952	142.00	601	232.00	150
63.00	11138	95.00	267264	143.00	2441		
64.00	1002	96.00	18752	145.00	364		
67.00	224	97.00	210	146.00	328		

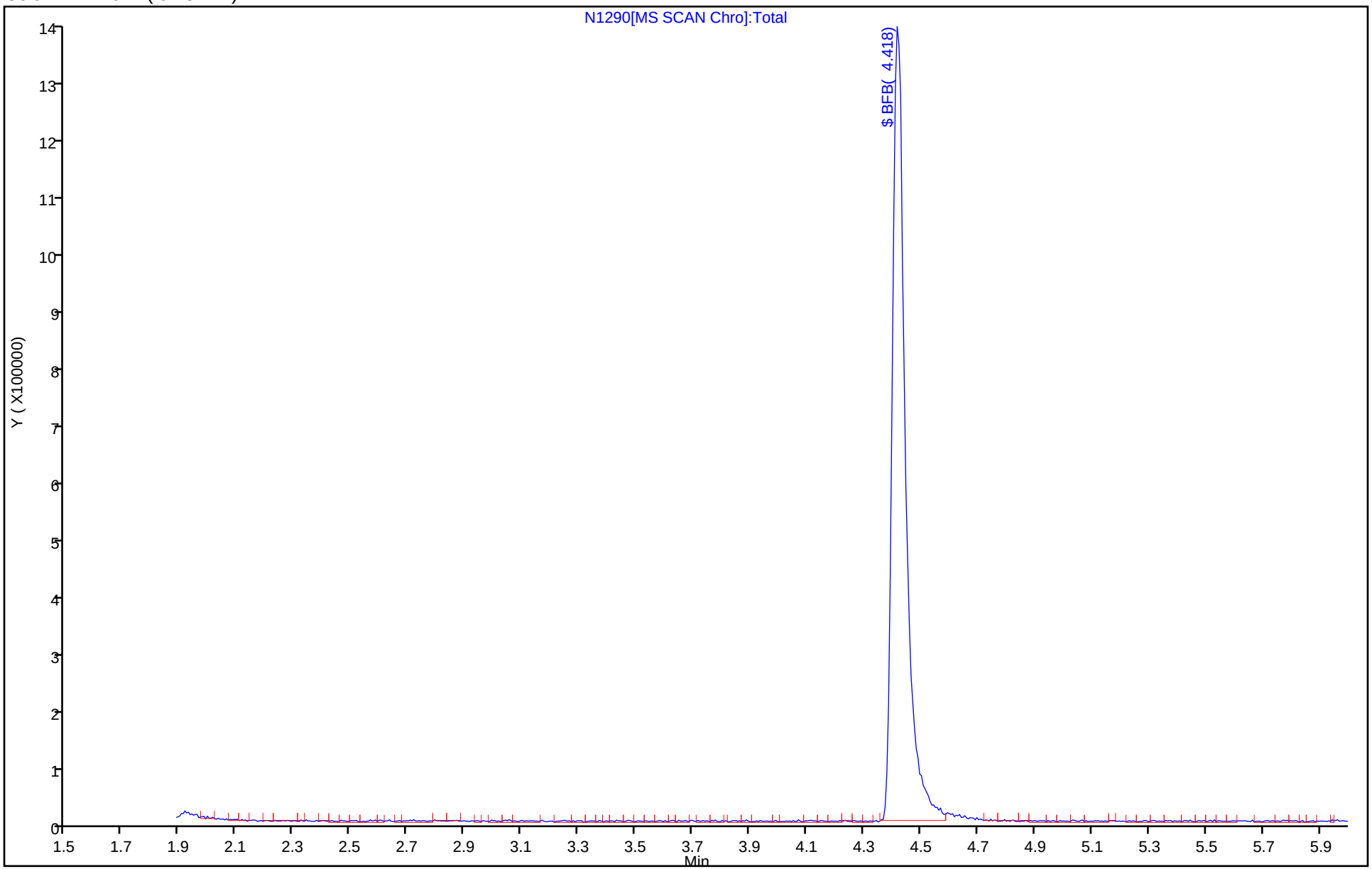
Report Date: 01-Nov-2024 10:00:00 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1290.d

Injection Date:	31-Oct-2024 22:14:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730495/8

Matrix: Water | Lab File ID: N1241.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 03:02

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730495/8

Matrix: Water | Lab File ID: N1241.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 03:02

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	90		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1241.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 31-Oct-2024 03:02:30 ALS Bottle#: 41 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120932-008
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 10:07:35 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 10:07:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	146365	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	92	476444	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	96	255580	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	149915	25.0	22.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	96	237708	25.0	24.0	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	97	554371	25.0	25.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	187531	25.0	27.3	
11 Dichlorodifluoromethane	85		1.048					ND	
12 Chlorodifluoromethane	51		1.060					ND	
13 Chloromethane	50		1.188					ND	
14 Vinyl chloride	62		1.261					ND	
144 Butadiene	54		1.267					ND	
15 Bromomethane	94		1.511					ND	
16 Chloroethane	64		1.565					ND	
18 Trichlorofluoromethane	101		1.742					ND	
17 Dichlorofluoromethane	67		1.748					ND	
19 Ethyl ether	59		1.985					ND	
141 Ethanol	45		1.991					ND	
81 Propene oxide	58		2.058					ND	
20 Acrolein	56		2.143					ND	
22 1,1-Dichloroethene	96		2.174					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.180					ND	
23 Acetone	43		2.289					ND	
24 Iodomethane	142		2.320					ND	
25 Carbon disulfide	76		2.350					ND	
26 Isopropyl alcohol	45		2.472					ND	
27 3-Chloro-1-propene	41		2.520					ND	
28 Methyl acetate	43		2.563					ND	
29 Acetonitrile	40		2.569					ND	
30 Methylene Chloride	84	2.654	2.654	0.000	83	2335		0.2362	Ma
31 2-Methyl-2-propanol	59		2.837					ND	

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		2.849					ND	
33 trans-1,2-Dichloroethene	96		2.867					ND	
34 Acrylonitrile	53		2.922					ND	
35 Hexane	57		3.056					ND	
36 1,1-Dichloroethane	63		3.263					ND	
37 Isopropyl ether	45		3.287					ND	
38 2-Chloro-1,3-butadiene	53		3.317					ND	
39 Vinyl acetate	43		3.323					ND	
40 1,1-Dimethoxyethane	75		3.354					ND	
41 Tert-butyl ethyl ether	59		3.609					ND	
42 2,2-Dichloropropane	77		3.761					ND	
43 cis-1,2-Dichloroethene	96		3.798					ND	
44 2-Butanone (MEK)	43		3.841					ND	
45 Ethyl acetate	43		3.877					ND	
46 Propionitrile	54		3.932					ND	
47 Chlorobromomethane	128		4.023					ND	
48 Methacrylonitrile	67		4.041					ND	
49 Tetrahydrofuran	42		4.041					ND	
50 Chloroform	83	4.096	4.096	-0.012	1	1592		0.1407	a
51 1,1,1-Trichloroethane	97		4.206					ND	
52 Cyclohexane	56		4.212					ND	
53 Carbon tetrachloride	117		4.339					ND	
54 1,1-Dichloropropene	75		4.358					ND	
55 Benzene	78		4.552					ND	
146 Isooctane	57		4.558					ND	
56 Isobutyl alcohol	43		4.607					ND	
57 1,2-Dichloroethane	62		4.619					ND	
58 Tert-amyl methyl ether	73		4.644					ND	
140 t-Amyl alcohol	59		4.662					ND	
59 n-Heptane	43		4.747					ND	
1 1,4-Difluorobenzene	114		4.936					ND	
60 Trichloroethene	95		5.155					ND	
61 n-Butanol	56		5.222					ND	
62 Methylcyclohexane	83		5.270					ND	
145 Ethyl acrylate	55		5.301					ND	
63 1,2-Dichloropropane	63		5.386					ND	
65 Methyl methacrylate	41		5.507					ND	
64 Dibromomethane	93		5.520					ND	
66 1,4-Dioxane	88		5.544					ND	
67 Dichlorobromomethane	83		5.684					ND	
68 2-Nitropropane	43		5.933					ND	
69 2-Chloroethyl vinyl ether	63		5.970					ND	
70 Epichlorohydrin	57		6.055					ND	
71 cis-1,3-Dichloropropene	75		6.098					ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250					ND	
73 Toluene	92		6.371					ND	
74 2-Methylthiophene	97		6.505					ND	
75 trans-1,3-Dichloropropene	75		6.663					ND	
76 3-Methylthiophene	97		6.669					ND	
77 Ethyl methacrylate	69		6.724					ND	
78 1,1,2-Trichloroethane	83		6.846					ND	
79 Tetrachloroethene	166		6.895					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 1,3-Dichloropropane	76		7.004					ND	
82 2-Hexanone	43		7.083					ND	
149 n-Butyl acetate	43		7.205					ND	
83 Chlorodibromomethane	129		7.229					ND	
84 Ethylene Dibromide	107		7.326					ND	
139 1-Chlorohexane	55		7.771					ND	U
86 3-Chlorobenzotrifluoride	180		7.795					ND	
85 Chlorobenzene	112		7.801					ND	
87 4-Chlorobenzotrifluoride	180		7.856					ND	
88 Ethylbenzene	91		7.898					ND	
89 1,1,1,2-Tetrachloroethane	131		7.904					ND	
90 m-Xylene & p-Xylene	106		8.020					ND	
91 o-Xylene	106		8.440					ND	
92 Styrene	104		8.476					ND	
93 Bromoform	173		8.714					ND	
94 2-Chlorobenzotrifluoride	180		8.762					ND	
95 Isopropylbenzene	105		8.829					ND	
96 Cyclohexanone	55		8.987					ND	U
97 Bromobenzene	156		9.176					ND	
98 1,1,2,2-Tetrachloroethane	83		9.261					ND	
100 N-Propylbenzene	91		9.273					ND	
99 1,2,3-Trichloropropane	110		9.279					ND	
101 trans-1,4-Dichloro-2-butene	53		9.304					ND	
102 2-Chlorotoluene	126		9.371					ND	
103 3-Chlorotoluene	126		9.444					ND	
104 1,3,5-Trimethylbenzene	105		9.468					ND	
105 4-Chlorotoluene	91		9.492					ND	
106 tert-Butylbenzene	134		9.802					ND	
107 Pentachloroethane	167		9.857					ND	
108 1,2,4-Trimethylbenzene	105		9.857					ND	
109 sec-Butylbenzene	105		10.021					ND	
110 1,3-Dichlorobenzene	146		10.149					ND	
111 4-Isopropyltoluene	119		10.174					ND	
112 Dicyclopentadiene	66		10.210					ND	U
113 1,4-Dichlorobenzene	146		10.240					ND	
114 1,2,3-Trimethylbenzene	105		10.277					ND	
143 Benzyl chloride	126		10.399					ND	
115 n-Butylbenzene	91		10.569					ND	
116 1,2-Dichlorobenzene	146		10.599					ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354					ND	
118 1,3,5-Trichlorobenzene	180		11.494					ND	
119 1,2,4-Trichlorobenzene	180		12.035					ND	
120 Hexachlorobutadiene	225		12.157					ND	
121 Naphthalene	128		12.248					ND	
122 1,2,3-Trichlorobenzene	180		12.455					ND	
142 2-Methylnaphthalene	142		13.173					ND	
138 1-Bromopropane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
133 Halothane	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	7
S 124 1,2-Dichloroethene, Total	1		30.000					ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 Total BTEX	1		30.000					ND	7
S 126 Xylenes, Total	1		30.000					ND	7
S 151 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

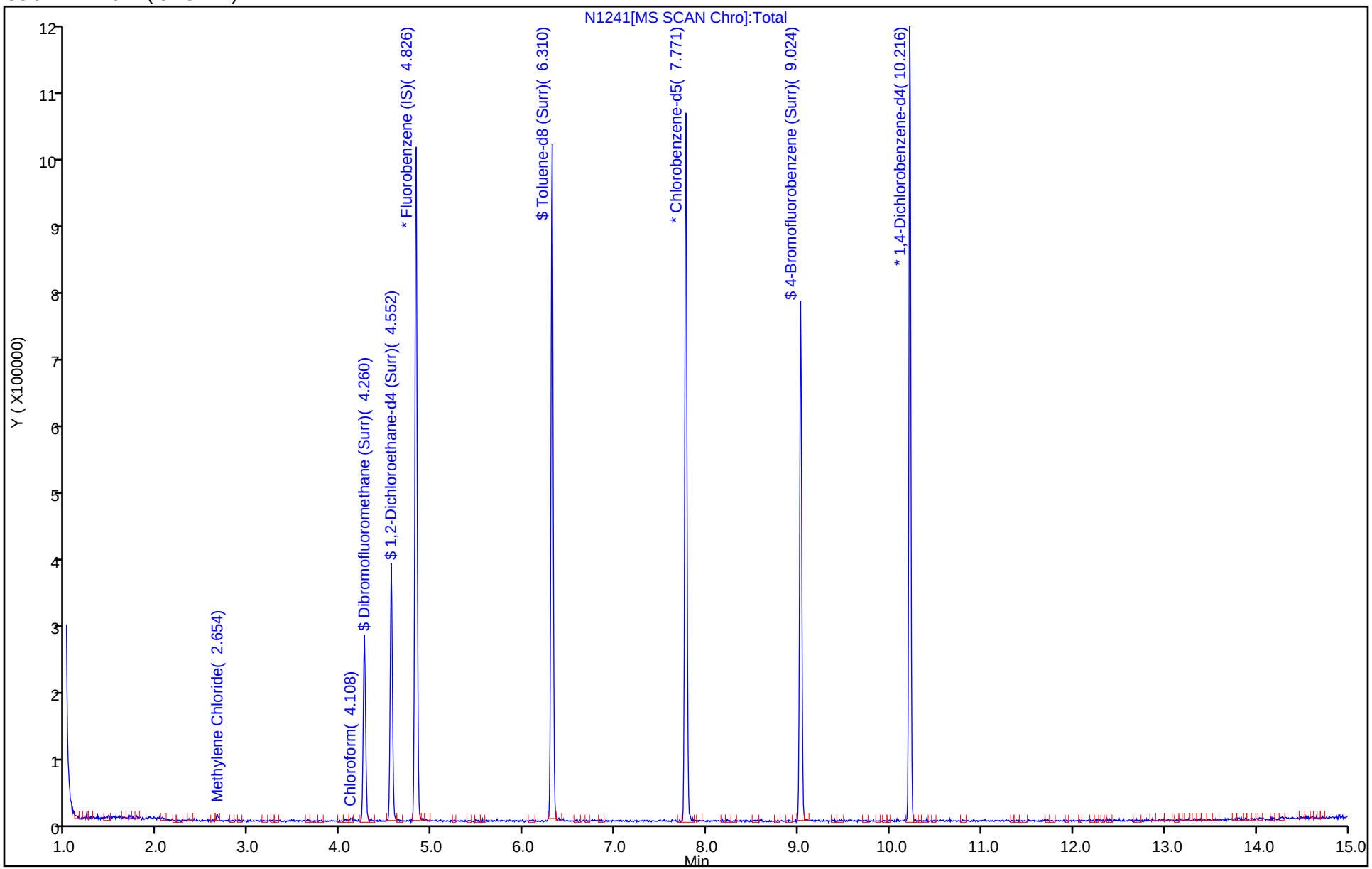
Report Date: 31-Oct-2024 10:07:36 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1241.d

Injection Date:	31-Oct-2024 03:02:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	41
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1241.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 31-Oct-2024 03:02:30 ALS Bottle#: 41 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120932-008
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 10:07:35 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 10:07:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	22.5	90.17
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.0	96.10
$ 6 Toluene-d8 (Surr)	25.0	25.4	101.69
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.3	109.07

Manual Integration/User Assign Peak Report

Eurofins Buffalo

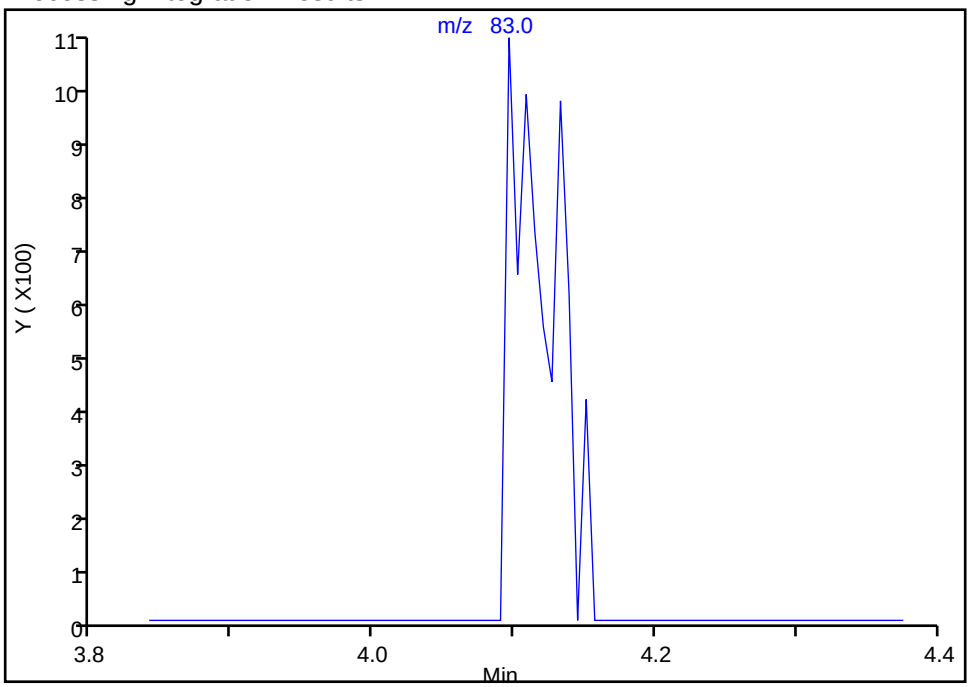
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1241.d
Injection Date: 31-Oct-2024 03:02:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: AD ALS Bottle#: 41 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

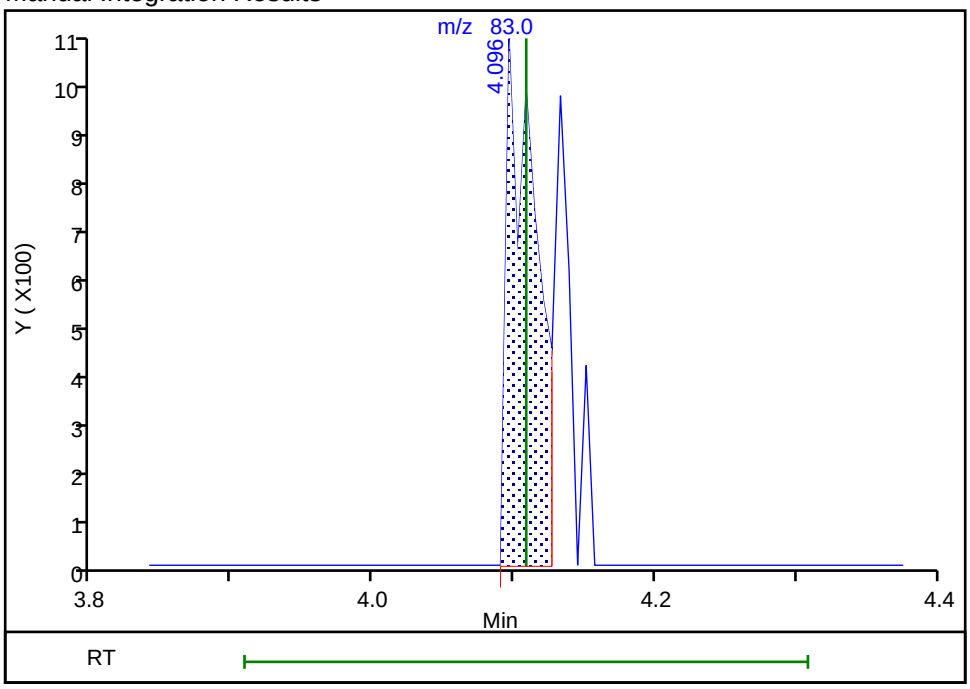
Not Detected
Expected RT: 4.11

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 1592
Amount: 0.140690
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 10:01:10 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

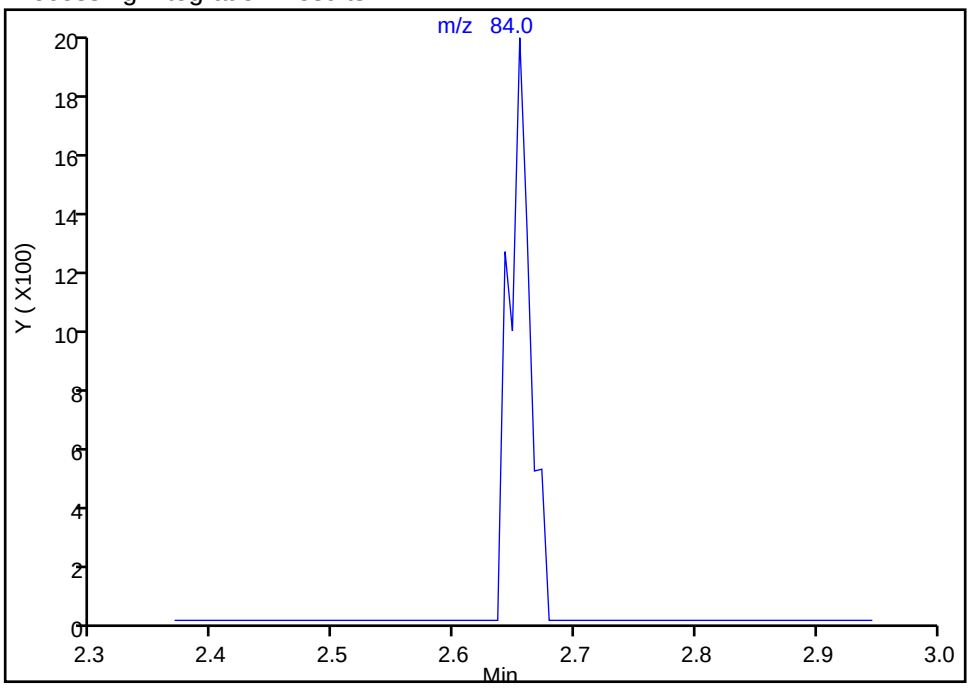
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1241.d
Injection Date: 31-Oct-2024 03:02:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: AD ALS Bottle#: 41 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

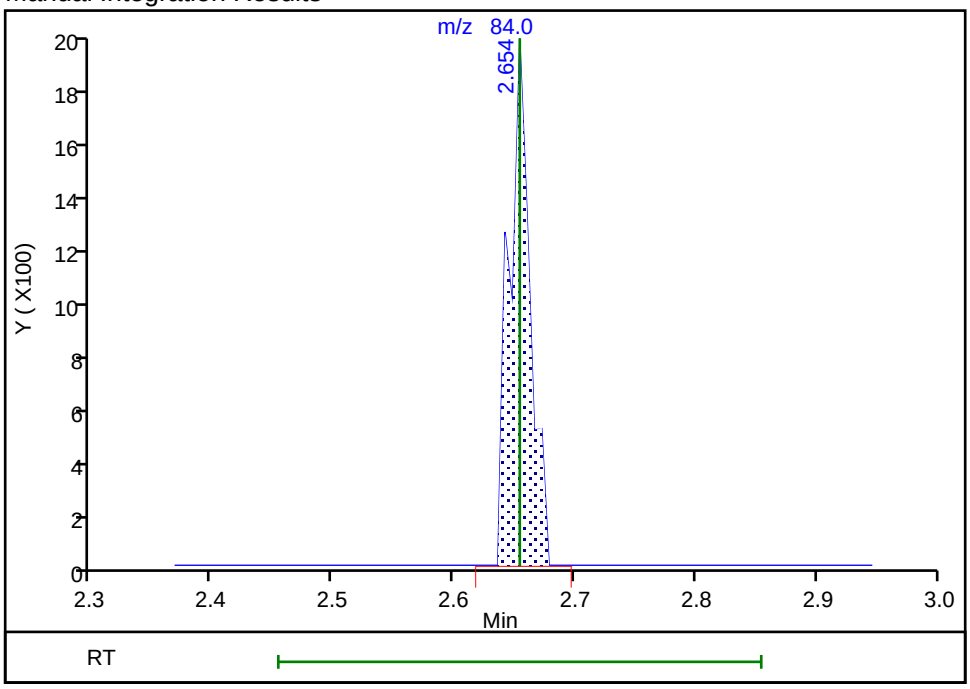
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.65
Area: 2335
Amount: 0.236196
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 10:00:56 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730696/8

Matrix: Water | Lab File ID: N1295.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 00:06

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.: 730696 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730696/8

Matrix: Water | Lab File ID: N1295.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/01/2024 00:06

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.: 730696 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1295.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Nov-2024 00:06:30 ALS Bottle#: 36 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120960-008
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:06:03 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:06:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	132118	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	94	443683	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	257542	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.260	-0.006	91	145646	25.0	24.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	95	225137	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	509367	25.0	25.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	178819	25.0	27.9	
11 Dichlorodifluoromethane	85		1.048					ND	
12 Chlorodifluoromethane	51		1.067					ND	
13 Chloromethane	50		1.188					ND	
14 Vinyl chloride	62		1.261					ND	
144 Butadiene	54		1.273					ND	
15 Bromomethane	94		1.511					ND	
16 Chloroethane	64		1.571					ND	
18 Trichlorofluoromethane	101		1.748					ND	
17 Dichlorofluoromethane	67		1.748					ND	
19 Ethyl ether	59		1.985					ND	
141 Ethanol	45		1.997					ND	
81 Propene oxide	58		2.064					ND	
20 Acrolein	56		2.149					ND	
22 1,1-Dichloroethene	96		2.180					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.186					ND	
23 Acetone	43		2.289					ND	
24 Iodomethane	142		2.320					ND	
25 Carbon disulfide	76		2.350					ND	
26 Isopropyl alcohol	45		2.472					ND	
27 3-Chloro-1-propene	41		2.520					ND	
28 Methyl acetate	43		2.569					ND	
29 Acetonitrile	40		2.575					ND	
30 Methylene Chloride	84	2.660	2.660	0.006	85	3058		0.4104	Ma
31 2-Methyl-2-propanol	59		2.831					ND	

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		2.855					ND	
33 trans-1,2-Dichloroethene	96		2.867					ND	
34 Acrylonitrile	53		2.922					ND	
35 Hexane	57		3.056					ND	
36 1,1-Dichloroethane	63		3.269					ND	
37 Isopropyl ether	45		3.287					ND	
39 Vinyl acetate	43		3.323					ND	
38 2-Chloro-1,3-butadiene	53		3.324					ND	7
40 1,1-Dimethoxyethane	75		3.360					ND	
41 Tert-butyl ethyl ether	59		3.622					ND	
42 2,2-Dichloropropane	77		3.761					ND	
43 cis-1,2-Dichloroethene	96		3.804					ND	
44 2-Butanone (MEK)	43		3.834					ND	
45 Ethyl acetate	43		3.877					ND	7
46 Propionitrile	54		3.938					ND	
47 Chlorobromomethane	128		4.029					ND	
49 Tetrahydrofuran	42		4.041					ND	
48 Methacrylonitrile	67		4.047					ND	
50 Chloroform	83		4.108					ND	
52 Cyclohexane	56		4.212					ND	
51 1,1,1-Trichloroethane	97		4.212					ND	
53 Carbon tetrachloride	117		4.339					ND	
54 1,1-Dichloropropene	75		4.358					ND	
55 Benzene	78		4.552					ND	
146 Isooctane	57		4.559					ND	
56 Isobutyl alcohol	43		4.613					ND	
57 1,2-Dichloroethane	62		4.625					ND	
58 Tert-amyl methyl ether	73		4.644					ND	
140 t-Amyl alcohol	59		4.662					ND	
59 n-Heptane	43		4.747					ND	
1 1,4-Difluorobenzene	114		4.942					ND	
60 Trichloroethene	95		5.155					ND	
61 n-Butanol	56		5.222					ND	
62 Methylcyclohexane	83		5.270					ND	
145 Ethyl acrylate	55		5.301					ND	
63 1,2-Dichloropropane	63		5.392					ND	
65 Methyl methacrylate	41		5.514					ND	
64 Dibromomethane	93		5.520					ND	
66 1,4-Dioxane	88		5.538					ND	
67 Dichlorobromomethane	83		5.684					ND	
68 2-Nitropropane	43		5.933					ND	
69 2-Chloroethyl vinyl ether	63		5.970					ND	
70 Epichlorohydrin	57		6.055					ND	
71 cis-1,3-Dichloropropene	75		6.098					ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.250					ND	
73 Toluene	92		6.371					ND	
74 2-Methylthiophene	97		6.505					ND	
75 trans-1,3-Dichloropropene	75		6.663					ND	
76 3-Methylthiophene	97		6.670					ND	
77 Ethyl methacrylate	69		6.724					ND	
78 1,1,2-Trichloroethane	83		6.846					ND	
79 Tetrachloroethene	166		6.895					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 1,3-Dichloropropane	76		6.998					ND	
82 2-Hexanone	43		7.083					ND	
149 n-Butyl acetate	43		7.205					ND	
83 Chlorodibromomethane	129		7.235					ND	
84 Ethylene Dibromide	107		7.326					ND	
139 1-Chlorohexane	55		7.771					ND	U
86 3-Chlorobenzotrifluoride	180		7.795					ND	
85 Chlorobenzene	112		7.801					ND	
87 4-Chlorobenzotrifluoride	180		7.856					ND	
88 Ethylbenzene	91		7.898					ND	
89 1,1,1,2-Tetrachloroethane	131		7.904					ND	
90 m-Xylene & p-Xylene	106		8.026					ND	
91 o-Xylene	106		8.440					ND	
92 Styrene	104		8.476					ND	
93 Bromoform	173		8.714					ND	
94 2-Chlorobenzotrifluoride	180		8.762					ND	
95 Isopropylbenzene	105		8.829					ND	
96 Cyclohexanone	55		8.993					ND	
97 Bromobenzene	156		9.170					ND	
98 1,1,2,2-Tetrachloroethane	83		9.261					ND	
100 N-Propylbenzene	91		9.273					ND	
99 1,2,3-Trichloropropane	110		9.279					ND	
101 trans-1,4-Dichloro-2-butene	53		9.310					ND	
102 2-Chlorotoluene	126		9.377					ND	
103 3-Chlorotoluene	126		9.444					ND	
104 1,3,5-Trimethylbenzene	105		9.468					ND	
105 4-Chlorotoluene	91		9.492					ND	
106 tert-Butylbenzene	134		9.802					ND	
107 Pentachloroethane	167		9.851					ND	
108 1,2,4-Trimethylbenzene	105		9.857					ND	
109 sec-Butylbenzene	105		10.021					ND	
110 1,3-Dichlorobenzene	146		10.149					ND	
111 4-Isopropyltoluene	119		10.174					ND	
112 Dicyclopentadiene	66		10.210					ND	
113 1,4-Dichlorobenzene	146		10.240					ND	
114 1,2,3-Trimethylbenzene	105		10.277					ND	
143 Benzyl chloride	126		10.399					ND	
115 n-Butylbenzene	91		10.569					ND	
116 1,2-Dichlorobenzene	146		10.599					ND	
117 1,2-Dibromo-3-Chloropropane	75		11.354					ND	
118 1,3,5-Trichlorobenzene	180		11.488					ND	
119 1,2,4-Trichlorobenzene	180		12.035					ND	
120 Hexachlorobutadiene	225		12.157					ND	
121 Naphthalene	128		12.248					ND	
122 1,2,3-Trichlorobenzene	180		12.455					ND	
142 2-Methylnaphthalene	142		13.173					ND	
138 1-Bromopropane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
133 Halothane	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	7
S 124 1,2-Dichloroethene, Total	1		30.000					ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 Total BTEX	1		30.000					ND	7
S 126 Xylenes, Total	1		30.000					ND	7
S 151 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

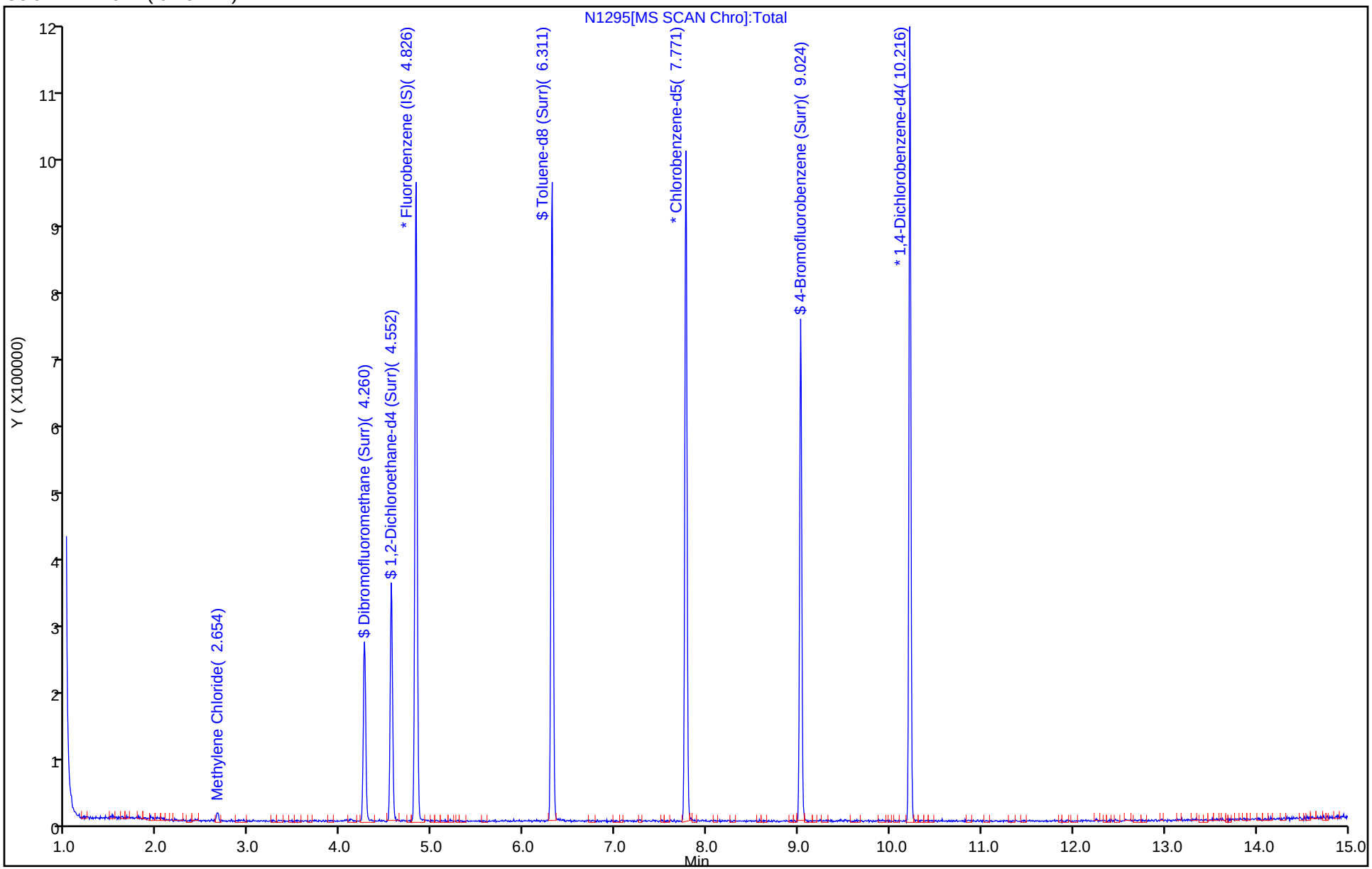
Report Date: 01-Nov-2024 10:06:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1295.d

Injection Date:	01-Nov-2024 00:06:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1295.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Nov-2024 00:06:30 ALS Bottle#: 36 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120960-008
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:06:03 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:06:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.3	97.04
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.2	100.84
$ 6 Toluene-d8 (Surr)	25.0	25.1	100.33
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.9	111.68

Manual Integration/User Assign Peak Report

Eurofins Buffalo

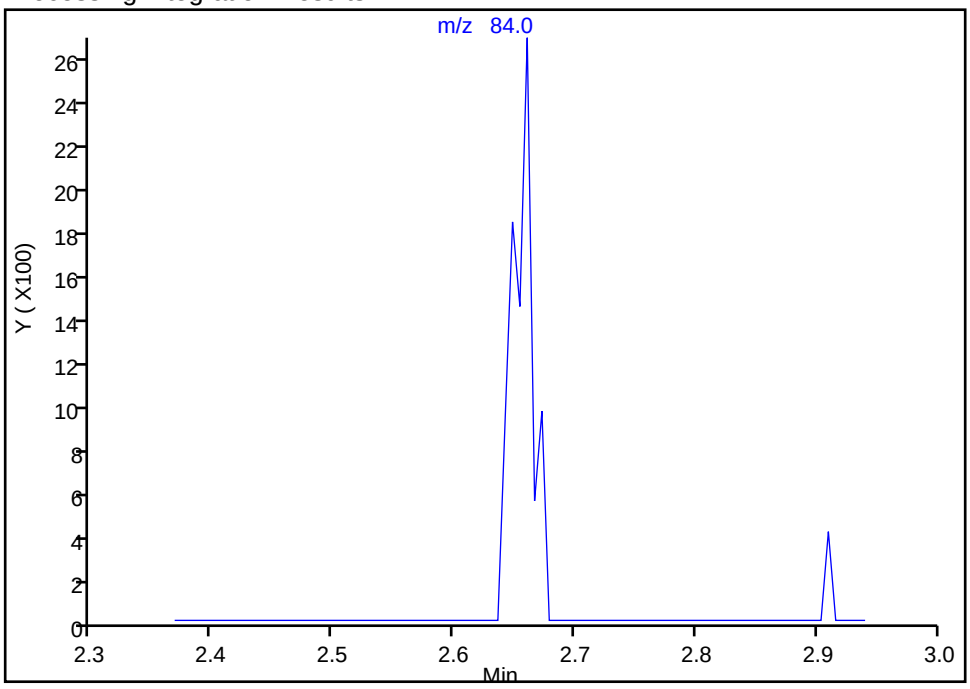
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1295.d
Injection Date: 01-Nov-2024 00:06:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: AD ALS Bottle#: 36 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

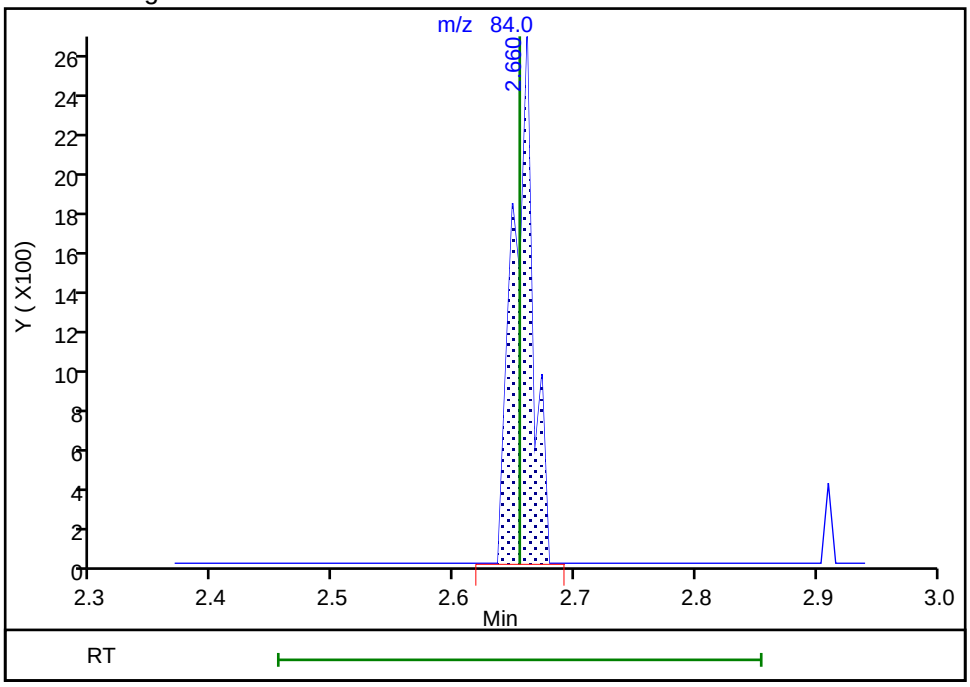
Not Detected
Expected RT: 2.65

Processing Integration Results



Manual Integration Results

RT: 2.66
Area: 3058
Amount: 0.410419
Amount Units: ug/L



Reviewer: HF3K, 01-Nov-2024 10:05:11 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730495/6

Matrix: Water | Lab File ID: N1239.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 02:17

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	21.6		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.5		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.2		1.0	0.31
75-34-3	1,1-Dichloroethane	23.4		1.0	0.38
75-35-4	1,1-Dichloroethene	23.0		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	22.5		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	23.5		1.0	0.39
106-93-4	1,2-Dibromoethane	24.1		1.0	0.73
95-50-1	1,2-Dichlorobenzene	21.9		1.0	0.79
107-06-2	1,2-Dichloroethane	25.0		1.0	0.21
78-87-5	1,2-Dichloropropane	23.2		1.0	0.72
541-73-1	1,3-Dichlorobenzene	21.8		1.0	0.78
106-46-7	1,4-Dichlorobenzene	21.3		1.0	0.84
591-78-6	2-Hexanone	116		5.0	1.2
78-93-3	2-Butanone (MEK)	115		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	116		5.0	2.1
67-64-1	Acetone	115		10	3.0
71-43-2	Benzene	22.9		1.0	0.41
75-27-4	Bromodichloromethane	26.2		1.0	0.39
75-25-2	Bromoform	24.9		1.0	0.26
74-83-9	Bromomethane	19.3		1.0	0.69
75-15-0	Carbon disulfide	21.2		1.0	0.19
56-23-5	Carbon tetrachloride	23.7		1.0	0.27
108-90-7	Chlorobenzene	24.6		1.0	0.75
124-48-1	Dibromochloromethane	24.7		1.0	0.32
75-00-3	Chloroethane	18.5		1.0	0.32
67-66-3	Chloroform	23.0		1.0	0.34
74-87-3	Chloromethane	21.8		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	23.4		1.0	0.36
110-82-7	Cyclohexane	23.1		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730495/6

Matrix: Water | Lab File ID: N1239.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 02:17

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	22.7		1.0	0.68
100-41-4	Ethylbenzene	25.2		1.0	0.74
98-82-8	Isopropylbenzene	22.0		1.0	0.79
79-20-9	Methyl acetate	42.1		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.0		1.0	0.16
108-87-2	Methylcyclohexane	24.4		1.0	0.16
75-09-2	Methylene Chloride	23.0		1.0	0.44
100-42-5	Styrene	22.6		1.0	0.73
127-18-4	Tetrachloroethene	23.0		1.0	0.36
108-88-3	Toluene	25.1		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.9		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.1		1.0	0.37
79-01-6	Trichloroethene	23.7		1.0	0.46
75-69-4	Trichlorofluoromethane	22.9		1.0	0.88
75-01-4	Vinyl chloride	20.1		1.0	0.90
1330-20-7	Xylenes, Total	46.5		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	93		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1239.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Oct-2024 02:17:30 ALS Bottle#: 39 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0120932-006
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 09:48:49 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 09:48:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	148109	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.770	7.771	-0.001	91	500296	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	266361	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	93	156944	25.0	23.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	67	238112	25.0	23.8	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	95	561241	25.0	24.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.030	9.024	0.006	89	190954	25.0	26.4	
11 Dichlorodifluoromethane	85	1.048	1.048	0.000	97	165591	25.0	22.7	
13 Chloromethane	50	1.188	1.188	0.000	99	327297	25.0	21.8	
14 Vinyl chloride	62	1.261	1.261	0.000	97	158795	25.0	20.1	
144 Butadiene	54	1.273	1.267	0.006	95	346209	25.0	27.3	
15 Bromomethane	94	1.510	1.511	-0.001	92	86908	25.0	19.3	
16 Chloroethane	64	1.565	1.565	0.000	94	102647	25.0	18.5	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	72	224581	25.0	22.9	
17 Dichlorofluoromethane	67	1.748	1.748	0.000	93	269234	25.0	21.3	
19 Ethyl ether	59	1.985	1.985	0.000	93	177189	25.0	22.0	
20 Acrolein	56	2.149	2.143	0.006	96	118578	125.0	95.9	
22 1,1-Dichloroethene	96	2.180	2.174	0.006	92	116164	25.0	23.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.186	2.180	0.006	57	115274	25.0	22.2	
23 Acetone	43	2.289	2.289	0.000	98	619006	125.0	115.2	
24 Iodomethane	142	2.320	2.320	0.000	99	213404	25.0	22.3	
25 Carbon disulfide	76	2.350	2.350	0.000	97	387554	25.0	21.2	
27 3-Chloro-1-propene	41	2.520	2.520	0.000	87	435395	25.0	20.5	
28 Methyl acetate	43	2.569	2.563	0.006	99	605414	50.0	42.1	
30 Methylene Chloride	84	2.654	2.654	0.000	85	141598	25.0	23.0	
31 2-Methyl-2-propanol	59	2.837	2.837	0.000	97	292125	250.0	212.0	
32 Methyl tert-butyl ether	73	2.855	2.849	0.006	92	504169	25.0	23.0	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	90	146196	25.0	23.9	
34 Acrylonitrile	53	2.922	2.922	0.000	100	1476764	250.0	223.9	
35 Hexane	57	3.062	3.056	0.006	94	290799	25.0	21.3	
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	330716	25.0	23.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.323	3.323	0.000	96	1145050	50.0	41.0	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	85	196454	25.0	23.1	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	87	155329	25.0	23.2	
44 2-Butanone (MEK)	43	3.834	3.841	-0.007	96	1009580	125.0	115.0	
47 Chlorobromomethane	128	4.023	4.023	0.000	81	75556	25.0	22.8	
49 Tetrahydrofuran	42	4.041	4.041	0.000	91	274688	50.0	42.8	
50 Chloroform	83	4.108	4.108	0.000	94	263708	25.0	23.0	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	94	238152	25.0	25.3	
52 Cyclohexane	56	4.212	4.212	0.000	94	405012	25.0	23.1	
53 Carbon tetrachloride	117	4.339	4.339	0.000	95	208478	25.0	23.7	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	85	201401	25.0	25.2	
55 Benzene	78	4.552	4.552	0.000	88	548043	25.0	22.9	a
56 Isobutyl alcohol	43	4.613	4.607	0.006	94	437067	625.0	560.0	
57 1,2-Dichloroethane	62	4.625	4.619	0.006	95	307676	25.0	25.0	
59 n-Heptane	43	4.747	4.747	0.000	95	393957	25.0	22.4	
60 Trichloroethene	95	5.161	5.155	0.006	90	146422	25.0	23.7	
62 Methylcyclohexane	83	5.270	5.270	0.000	92	245261	25.0	24.4	
63 1,2-Dichloropropane	63	5.386	5.386	0.000	84	175939	25.0	23.2	
64 Dibromomethane	93	5.526	5.520	0.006	96	99881	25.0	22.9	
66 1,4-Dioxane	88	5.538	5.544	-0.006	84	36862	500.0	640.6	
67 Dichlorobromomethane	83	5.684	5.684	0.000	94	194777	25.0	26.2	
69 2-Chloroethyl vinyl ether	63	5.976	5.970	0.006	82	126447	25.0	24.0	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	83	230742	25.0	23.4	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	637648	125.0	115.8	
73 Toluene	92	6.377	6.371	0.006	96	343042	25.0	25.1	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	92	204792	25.0	24.1	
77 Ethyl methacrylate	69	6.724	6.724	0.000	87	205960	25.0	24.3	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	92	108441	25.0	25.5	
79 Tetrachloroethene	166	6.894	6.895	-0.001	92	131638	25.0	23.0	
80 1,3-Dichloropropane	76	6.998	7.004	-0.006	88	217946	25.0	24.9	
82 2-Hexanone	43	7.083	7.083	0.000	97	1432003	125.0	116.2	
83 Chlorodibromomethane	129	7.229	7.229	0.000	87	138289	25.0	24.7	
84 Ethylene Dibromide	107	7.326	7.326	0.000	93	135362	25.0	24.1	
85 Chlorobenzene	112	7.801	7.801	0.000	90	367859	25.0	24.6	
88 Ethylbenzene	91	7.898	7.898	0.000	98	656900	25.0	25.2	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	64	143864	25.0	25.1	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	97	239538	25.0	23.4	
91 o-Xylene	106	8.440	8.440	0.000	98	236656	25.0	23.1	
92 Styrene	104	8.476	8.476	0.000	91	377717	25.0	22.6	
93 Bromoform	173	8.707	8.714	-0.007	94	91130	25.0	24.9	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	581546	25.0	22.0	
97 Bromobenzene	156	9.170	9.176	-0.006	90	155000	25.0	22.7	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.261	-0.006	97	182948	25.0	21.6	
100 N-Propylbenzene	91	9.273	9.273	0.000	99	739606	25.0	23.6	
99 1,2,3-Trichloropropane	110	9.279	9.279	0.000	92	60868	25.0	21.3	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.304	0.000	81	28393	25.0	6.27	
102 2-Chlorotoluene	126	9.370	9.371	-0.001	94	142561	25.0	21.7	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	94	526146	25.0	22.7	
105 4-Chlorotoluene	91	9.492	9.492	0.000	99	523441	25.0	23.3	
106 tert-Butylbenzene	134	9.796	9.802	-0.006	95	121822	25.0	24.6	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	533408	25.0	21.6	
109 sec-Butylbenzene	105	10.021	10.021	0.000	96	673376	25.0	23.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	96	273847	25.0	21.8	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	97	583842	25.0	22.2	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	91	276171	25.0	21.3	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	517859	25.0	23.0	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	93	278607	25.0	21.9	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	71	43853	25.0	23.5	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	206068	25.0	22.5	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	96	104498	25.0	22.9	
121 Naphthalene	128	12.248	12.248	0.000	97	610230	25.0	21.5	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	94	203492	25.0	22.8	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
GAS CORP mix_00647	Amount Added:	12.50	Units: uL	
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

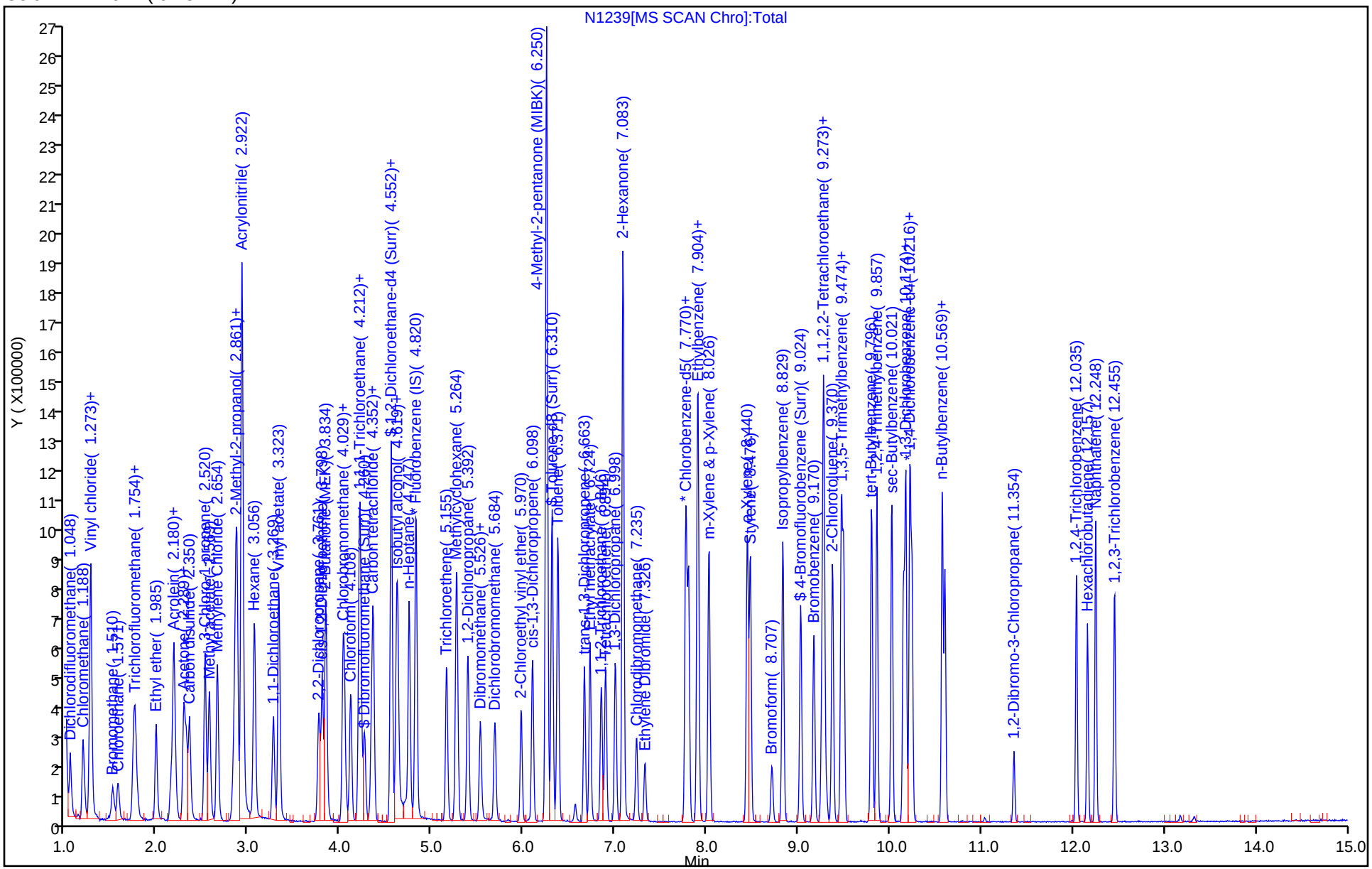
Report Date: 31-Oct-2024 09:48:51 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1239.d

Injection Date:	31-Oct-2024 02:17:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1239.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Oct-2024 02:17:30 ALS Bottle#: 39 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0120932-006
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 09:48:49 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 09:48:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.3	93.28
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.8	95.13
$ 6 Toluene-d8 (Surr)	25.0	24.5	98.04
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.4	105.76

Manual Integration/User Assign Peak Report

Eurofins Buffalo

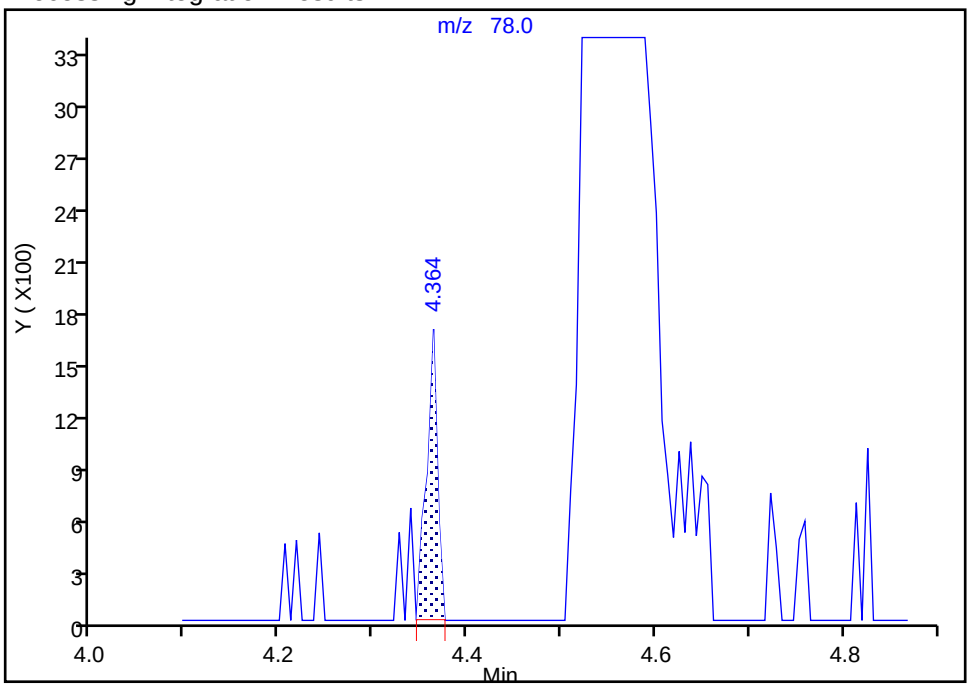
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1239.d
Injection Date: 31-Oct-2024 02:17:30 Instrument ID: HP5973N
Lims ID: LCS
Client ID:
Operator ID: AD ALS Bottle#: 39 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

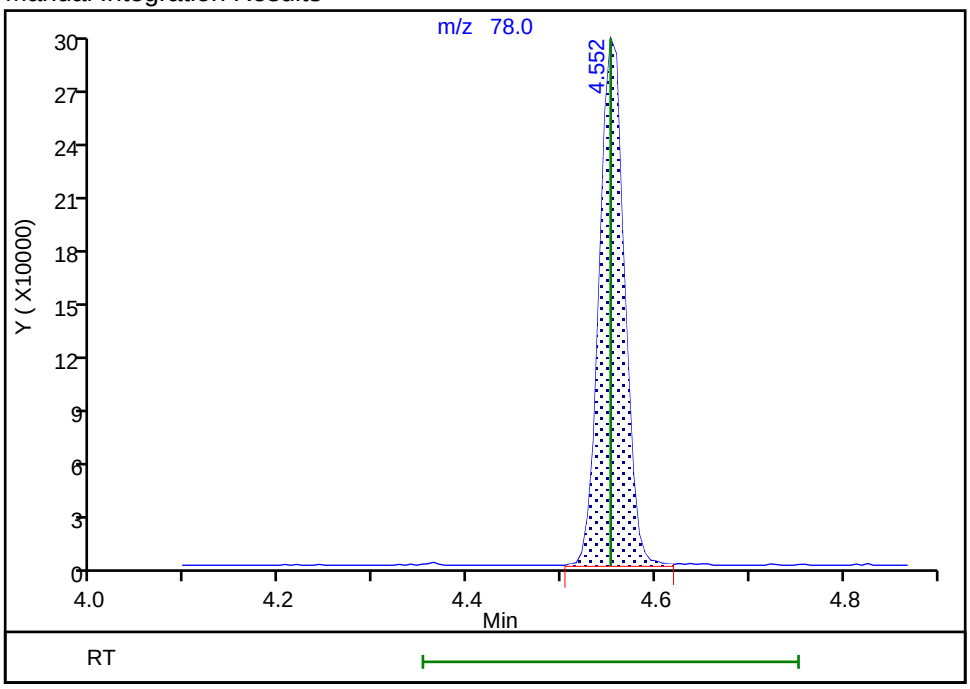
Processing Integration Results

RT: 4.36
Area: 1325
Amount: 0.055361
Amount Units: ug/L



Manual Integration Results

RT: 4.55
Area: 548043
Amount: 22.898140
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 09:48:09 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730696/6

Matrix: Water | Lab File ID: N1293.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 23:22

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.: 730696 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	24.1		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	21.9		1.0	0.21
79-00-5	1,1,2-Trichloroethane	24.2		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20.5		1.0	0.31
75-34-3	1,1-Dichloroethane	21.6		1.0	0.38
75-35-4	1,1-Dichloroethene	20.7		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	21.6		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	24.4		1.0	0.39
106-93-4	1,2-Dibromoethane	23.0		1.0	0.73
95-50-1	1,2-Dichlorobenzene	21.8		1.0	0.79
107-06-2	1,2-Dichloroethane	24.2		1.0	0.21
78-87-5	1,2-Dichloropropane	22.8		1.0	0.72
541-73-1	1,3-Dichlorobenzene	22.6		1.0	0.78
106-46-7	1,4-Dichlorobenzene	21.4		1.0	0.84
591-78-6	2-Hexanone	126		5.0	1.2
78-93-3	2-Butanone (MEK)	122		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	121		5.0	2.1
67-64-1	Acetone	119		10	3.0
71-43-2	Benzene	21.5		1.0	0.41
75-27-4	Bromodichloromethane	25.2		1.0	0.39
75-25-2	Bromoform	24.8		1.0	0.26
74-83-9	Bromomethane	17.7		1.0	0.69
75-15-0	Carbon disulfide	19.3		1.0	0.19
56-23-5	Carbon tetrachloride	22.8		1.0	0.27
108-90-7	Chlorobenzene	24.4		1.0	0.75
124-48-1	Dibromochloromethane	23.3		1.0	0.32
75-00-3	Chloroethane	17.7		1.0	0.32
67-66-3	Chloroform	21.5		1.0	0.34
74-87-3	Chloromethane	19.8		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	22.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	22.7		1.0	0.36
110-82-7	Cyclohexane	21.4		1.0	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730696/6

Matrix: Water | Lab File ID: N1293.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 23:22

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.: 730696 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	21.9		1.0	0.68
100-41-4	Ethylbenzene	24.3		1.0	0.74
98-82-8	Isopropylbenzene	21.8		1.0	0.79
79-20-9	Methyl acetate	42.8		2.5	1.3
1634-04-4	Methyl tert-butyl ether	22.6		1.0	0.16
108-87-2	Methylcyclohexane	22.8		1.0	0.16
75-09-2	Methylene Chloride	22.9		1.0	0.44
100-42-5	Styrene	22.7		1.0	0.73
127-18-4	Tetrachloroethene	22.6		1.0	0.36
108-88-3	Toluene	24.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	20.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.3		1.0	0.37
79-01-6	Trichloroethene	22.6		1.0	0.46
75-69-4	Trichlorofluoromethane	22.9		1.0	0.88
75-01-4	Vinyl chloride	19.6		1.0	0.90
1330-20-7	Xylenes, Total	45.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120
1868-53-7	Dibromofluoromethane (Surr)	93		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1293.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Oct-2024 23:22:30 ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0120960-006
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:02:09 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:02:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	147082	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	91	503636	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	95	263557	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	155747	25.0	23.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	68	232152	25.0	23.3	
$ 6 Toluene-d8 (Surr)	98	6.311	6.311	-0.001	97	580013	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.030	9.024	0.006	91	203274	25.0	28.0	
11 Dichlorodifluoromethane	85	1.048	1.048	0.000	98	158340	25.0	21.9	
13 Chloromethane	50	1.188	1.188	0.000	99	295250	25.0	19.8	
14 Vinyl chloride	62	1.261	1.261	0.000	50	153929	25.0	19.6	
144 Butadiene	54	1.273	1.273	0.000	94	321647	25.0	25.6	
15 Bromomethane	94	1.511	1.511	0.000	90	79086	25.0	17.7	
16 Chloroethane	64	1.571	1.571	0.000	94	97273	25.0	17.7	
18 Trichlorofluoromethane	101	1.754	1.748	0.006	72	222958	25.0	22.9	
17 Dichlorofluoromethane	67	1.748	1.748	0.000	94	253959	25.0	20.2	
19 Ethyl ether	59	1.985	1.985	0.000	90	165915	25.0	20.7	
20 Acrolein	56	2.143	2.149	-0.006	99	119611	125.0	97.4	
22 1,1-Dichloroethene	96	2.180	2.180	0.000	90	103867	25.0	20.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.186	2.186	0.000	59	105354	25.0	20.5	
23 Acetone	43	2.289	2.289	0.000	97	635077	125.0	119.0	
24 Iodomethane	142	2.320	2.320	0.000	97	192952	25.0	20.3	
25 Carbon disulfide	76	2.350	2.350	0.000	98	350084	25.0	19.3	
27 3-Chloro-1-propene	41	2.520	2.520	0.000	86	396937	25.0	18.8	
28 Methyl acetate	43	2.563	2.569	-0.006	99	610897	50.0	42.8	
30 Methylene Chloride	84	2.654	2.654	0.000	86	140236	25.0	22.9	
31 2-Methyl-2-propanol	59	2.831	2.831	0.000	98	336253	250.0	245.7	
32 Methyl tert-butyl ether	73	2.861	2.855	0.006	94	491485	25.0	22.6	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	89	124901	25.0	20.6	
34 Acrylonitrile	53	2.922	2.922	0.000	97	1481291	250.0	226.2	
35 Hexane	57	3.056	3.056	0.000	96	284090	25.0	21.0	
36 1,1-Dichloroethane	63	3.263	3.269	-0.006	96	303395	25.0	21.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.323	3.323	0.000	96	1180784	50.0	42.6	
42 2,2-Dichloropropane	77	3.761	3.761	0.000	86	177787	25.0	21.1	
43 cis-1,2-Dichloroethene	96	3.798	3.804	-0.006	86	149052	25.0	22.4	
44 2-Butanone (MEK)	43	3.841	3.834	0.007	96	1064840	125.0	122.2	
47 Chlorobromomethane	128	4.029	4.029	0.000	83	71983	25.0	21.9	
49 Tetrahydrofuran	42	4.041	4.041	0.000	91	280581	50.0	44.0	
50 Chloroform	83	4.108	4.108	0.000	94	244612	25.0	21.5	
52 Cyclohexane	56	4.212	4.212	0.000	93	372520	25.0	21.4	
51 1,1,1-Trichloroethane	97	4.206	4.212	-0.006	95	225721	25.0	24.1	
53 Carbon tetrachloride	117	4.339	4.339	0.000	95	199510	25.0	22.8	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	83	191984	25.0	24.2	
55 Benzene	78	4.552	4.552	0.000	87	511871	25.0	21.5	a
56 Isobutyl alcohol	43	4.613	4.613	0.000	94	483954	625.0	624.4	
57 1,2-Dichloroethane	62	4.625	4.625	0.000	95	295286	25.0	24.2	
59 n-Heptane	43	4.747	4.747	0.000	94	355268	25.0	20.3	
60 Trichloroethene	95	5.161	5.155	0.006	93	138498	25.0	22.6	
62 Methylcyclohexane	83	5.270	5.270	0.000	91	227641	25.0	22.8	
63 1,2-Dichloropropane	63	5.392	5.392	0.000	87	172047	25.0	22.8	
64 Dibromomethane	93	5.520	5.520	0.000	95	96790	25.0	22.4	
66 1,4-Dioxane	88	5.538	5.538	0.000	88	40196	500.0	693.9	
67 Dichlorobromomethane	83	5.684	5.684	0.000	94	185650	25.0	25.2	
69 2-Chloroethyl vinyl ether	63	5.976	5.970	0.006	86	136736	25.0	26.1	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	81	222244	25.0	22.7	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	669856	125.0	120.9	
73 Toluene	92	6.371	6.371	0.000	96	342225	25.0	24.9	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	91	216785	25.0	25.3	
77 Ethyl methacrylate	69	6.724	6.724	0.000	85	205080	25.0	24.0	
78 1,1,2-Trichloroethane	83	6.846	6.846	0.000	93	103710	25.0	24.2	
79 Tetrachloroethene	166	6.895	6.895	0.000	89	130201	25.0	22.6	
80 1,3-Dichloropropane	76	6.998	6.998	0.000	86	221004	25.0	25.1	
82 2-Hexanone	43	7.083	7.083	0.000	97	1568746	125.0	126.4	
83 Chlorodibromomethane	129	7.235	7.235	0.000	91	131399	25.0	23.3	
84 Ethylene Dibromide	107	7.326	7.326	0.000	97	129911	25.0	23.0	
85 Chlorobenzene	112	7.801	7.801	0.000	90	366965	25.0	24.4	
88 Ethylbenzene	91	7.904	7.898	0.006	98	636927	25.0	24.3	
89 1,1,1,2-Tetrachloroethane	131	7.904	7.904	0.000	45	138253	25.0	24.0	
90 m-Xylene & p-Xylene	106	8.026	8.026	0.000	96	230863	25.0	22.4	
91 o-Xylene	106	8.446	8.440	0.006	97	239729	25.0	23.2	
92 Styrene	104	8.476	8.476	0.000	93	382340	25.0	22.7	
93 Bromoform	173	8.714	8.714	0.000	95	91367	25.0	24.8	
95 Isopropylbenzene	105	8.829	8.829	0.000	96	569450	25.0	21.8	
97 Bromobenzene	156	9.170	9.170	0.000	90	158780	25.0	23.5	
98 1,1,2,2-Tetrachloroethane	83	9.261	9.261	0.000	95	183626	25.0	21.9	
100 N-Propylbenzene	91	9.273	9.273	0.000	97	719292	25.0	23.2	
99 1,2,3-Trichloropropane	110	9.285	9.279	0.006	89	63483	25.0	22.4	
101 trans-1,4-Dichloro-2-butene	53	9.304	9.310	-0.006	69	36576	25.0	8.16	
102 2-Chlorotoluene	126	9.371	9.377	-0.006	94	145248	25.0	22.4	
104 1,3,5-Trimethylbenzene	105	9.468	9.468	0.000	95	507484	25.0	22.1	
105 4-Chlorotoluene	91	9.492	9.492	0.000	99	516630	25.0	23.2	
106 tert-Butylbenzene	134	9.802	9.802	0.000	94	115593	25.0	23.6	
108 1,2,4-Trimethylbenzene	105	9.857	9.857	0.000	98	524450	25.0	21.5	
109 sec-Butylbenzene	105	10.021	10.021	0.000	96	644655	25.0	22.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.149	10.149	0.000	95	280832	25.0	22.6	
111 4-Isopropyltoluene	119	10.174	10.174	0.000	97	560606	25.0	21.6	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	90	274665	25.0	21.4	
115 n-Butylbenzene	91	10.569	10.569	0.000	98	511001	25.0	22.9	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	95	274600	25.0	21.8	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	73	45023	25.0	24.4	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	195987	25.0	21.6	
120 Hexachlorobutadiene	225	12.157	12.157	0.000	95	103419	25.0	22.9	
121 Naphthalene	128	12.248	12.248	0.000	97	599766	25.0	21.3	
122 1,2,3-Trichlorobenzene	180	12.455	12.455	0.000	95	184238	25.0	20.9	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
GAS CORP mix_00647	Amount Added:	12.50	Units: uL	
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

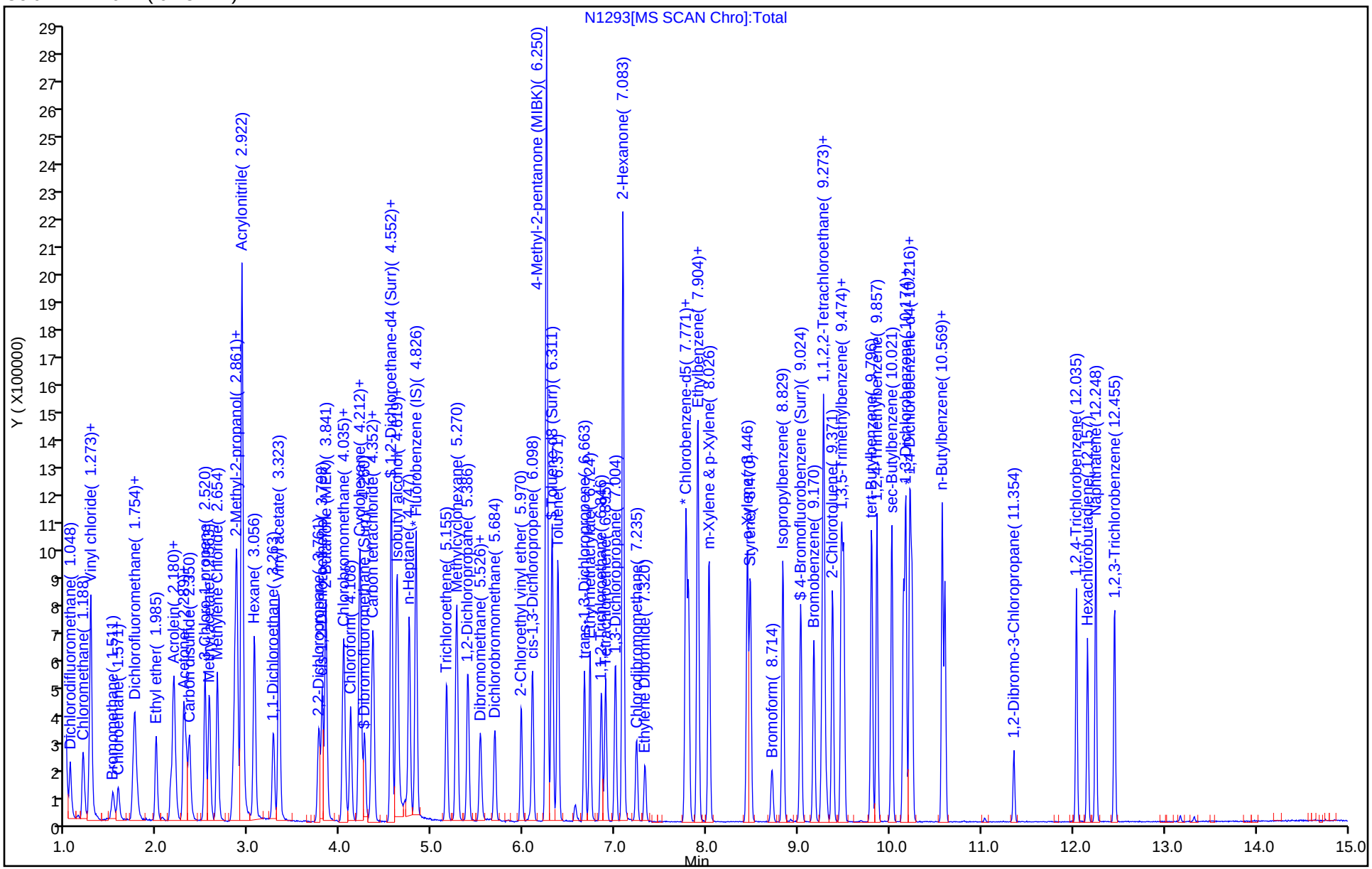
Report Date: 01-Nov-2024 10:02:10 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1293.d

Injection Date:	31-Oct-2024 23:22:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1293.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Oct-2024 23:22:30 ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0120960-006
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2024 10:02:09 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: HF3K Date: 01-Nov-2024 10:02:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.3	93.22
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.3	93.40
$ 6 Toluene-d8 (Surr)	25.0	25.2	100.64
$ 7 4-Bromofluorobenzene (Surr)	25.0	28.0	111.84

Manual Integration/User Assign Peak Report

Eurofins Buffalo

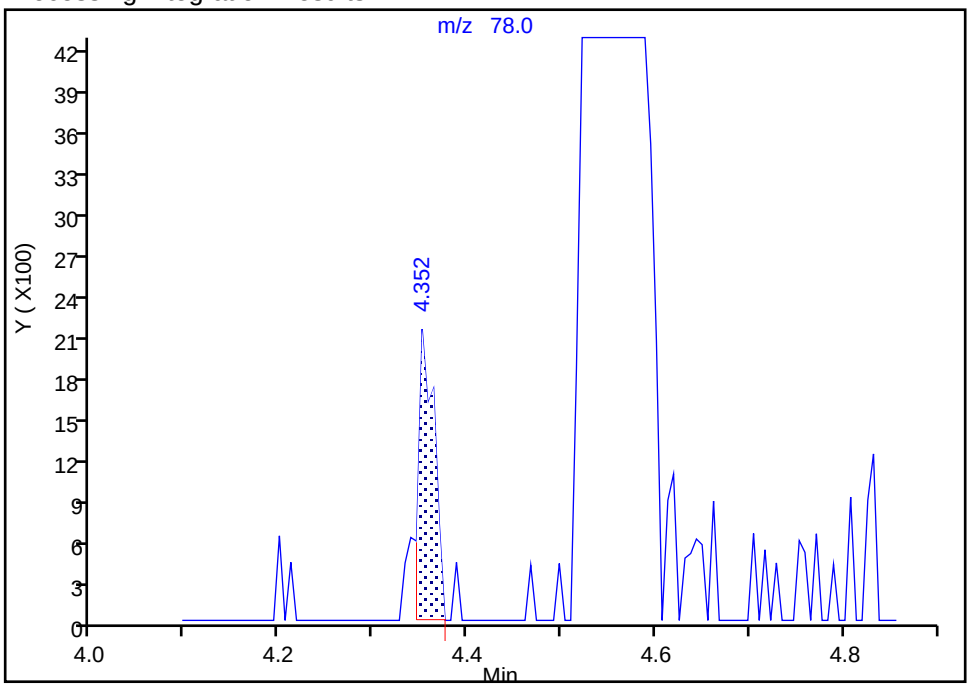
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241031-120960.b\N1293.d
Injection Date: 31-Oct-2024 23:22:30 Instrument ID: HP5973N
Lims ID: LCS
Client ID:
Operator ID: AD ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

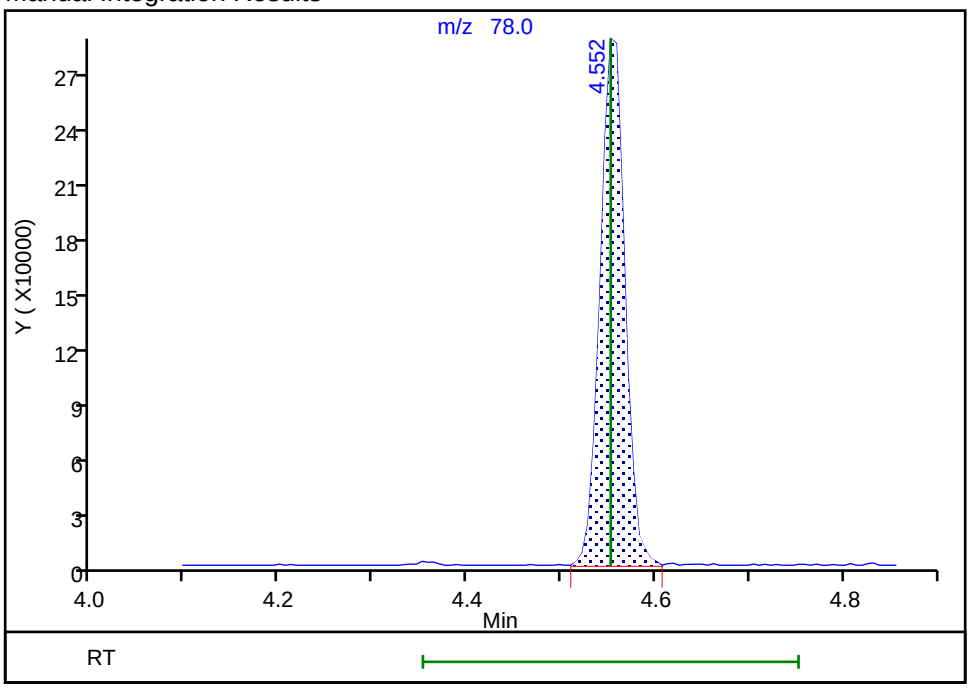
Processing Integration Results

RT: 4.35
Area: 2420
Amount: 0.101818
Amount Units: ug/L



Manual Integration Results

RT: 4.55
Area: 511871
Amount: 21.536148
Amount Units: ug/L



Reviewer: HF3K, 01-Nov-2024 10:01:46 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 MS | Lab Sample ID: 480-224869-9 MS

Matrix: Water | Lab File ID: N1258.d

Analysis Method: 8260C | Date Collected: 10/25/2024 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 09:24

Soil Aliquot Vol: | Dilution Factor: 100

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2550		100	82
79-34-5	1,1,2,2-Tetrachloroethane	2080		100	21
79-00-5	1,1,2-Trichloroethane	2500		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2230		100	31
75-34-3	1,1-Dichloroethane	2430		100	38
75-35-4	1,1-Dichloroethene	2300		100	29
120-82-1	1,2,4-Trichlorobenzene	2220		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	2310		100	39
106-93-4	1,2-Dibromoethane	2250		100	73
95-50-1	1,2-Dichlorobenzene	2210		100	79
107-06-2	1,2-Dichloroethane	2500		100	21
78-87-5	1,2-Dichloropropane	2410		100	72
541-73-1	1,3-Dichlorobenzene	2200		100	78
106-46-7	1,4-Dichlorobenzene	2120		100	84
591-78-6	2-Hexanone	11600		500	120
78-93-3	2-Butanone (MEK)	11400		1000	130
108-10-1	4-Methyl-2-pentanone (MIBK)	11900		500	210
67-64-1	Acetone	10700		1000	300
71-43-2	Benzene	5000		100	41
75-27-4	Bromodichloromethane	2540		100	39
75-25-2	Bromoform	2390		100	26
74-83-9	Bromomethane	2130		100	69
75-15-0	Carbon disulfide	2190		100	19
56-23-5	Carbon tetrachloride	2530		100	27
108-90-7	Chlorobenzene	2580		100	75
124-48-1	Dibromochloromethane	2430		100	32
75-00-3	Chloroethane	2020		100	32
67-66-3	Chloroform	2330		100	34
74-87-3	Chloromethane	2280		100	35
156-59-2	cis-1,2-Dichloroethene	2330		100	81
10061-01-5	cis-1,3-Dichloropropene	2260		100	36
110-82-7	Cyclohexane	2380		100	18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 MS | Lab Sample ID: 480-224869-9 MS

Matrix: Water | Lab File ID: N1258.d

Analysis Method: 8260C | Date Collected: 10/25/2024 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 09:24

Soil Aliquot Vol: | Dilution Factor: 100

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	2510		100	68
100-41-4	Ethylbenzene	2570		100	74
98-82-8	Isopropylbenzene	2190		100	79
79-20-9	Methyl acetate	4300		250	130
1634-04-4	Methyl tert-butyl ether	2330		100	16
108-87-2	Methylcyclohexane	2400		100	16
75-09-2	Methylene Chloride	2500		100	44
100-42-5	Styrene	2430		100	73
127-18-4	Tetrachloroethene	2450		100	36
108-88-3	Toluene	3520		100	51
156-60-5	trans-1,2-Dichloroethene	2410		100	90
10061-02-6	trans-1,3-Dichloropropene	2550		100	37
79-01-6	Trichloroethene	2470		100	46
75-69-4	Trichlorofluoromethane	2420		100	88
75-01-4	Vinyl chloride	2030		100	90
1330-20-7	Xylenes, Total	5320		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	92		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1258.d
Lims ID: 480-224869-G-9 MS
Client ID:
Sample Type: MS
Inject. Date: 31-Oct-2024 09:24:30 ALS Bottle#: 58 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224869-G-9 MS
Misc. Info.: 480-0120932-025
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 16:01:33 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 16:01:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.826	4.820	0.006	97	144881	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	0.000	92	494753	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	94	272021	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	92	150867	25.0	22.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.552	4.552	0.000	55	244995	25.0	25.0	
$ 6 Toluene-d8 (Surr)	98	6.311	6.310	0.001	96	573178	25.0	25.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	85	196856	25.0	27.6	
11 Dichlorodifluoromethane	85	1.048	1.048	0.000	96	179439	25.0	25.1	
13 Chloromethane	50	1.188	1.188	0.000	99	334176	25.0	22.8	
14 Vinyl chloride	62	1.261	1.255	0.000	98	157436	25.0	20.3	
15 Bromomethane	94	1.511	1.498	0.000	92	93595	25.0	21.3	
16 Chloroethane	64	1.565	1.565	0.000	93	109385	25.0	20.2	
18 Trichlorofluoromethane	101	1.748	1.742	0.006	94	232193	25.0	24.2	
22 1,1-Dichloroethene	96	2.180	2.180	0.006	88	113547	25.0	23.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.186	2.167	0.006	57	112895	25.0	22.3	
23 Acetone	43	2.289	2.289	0.000	97	560359	125.0	106.6	
25 Carbon disulfide	76	2.350	2.356	0.000	97	392017	25.0	21.9	
28 Methyl acetate	43	2.563	2.569	0.000	99	605129	50.0	43.0	
30 Methylene Chloride	84	2.654	2.648	0.000	86	150351	25.0	25.0	
32 Methyl tert-butyl ether	73	2.855	2.849	0.006	92	499374	25.0	23.3	
33 trans-1,2-Dichloroethene	96	2.873	2.867	0.006	88	144002	25.0	24.1	
36 1,1-Dichloroethane	63	3.269	3.263	0.006	96	337316	25.0	24.3	
43 cis-1,2-Dichloroethene	96	3.804	3.798	0.006	88	152575	25.0	23.3	
44 2-Butanone (MEK)	43	3.841	3.840	0.000	95	977290	125.0	113.8	
50 Chloroform	83	4.114	4.108	0.006	94	261422	25.0	23.3	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	93	234433	25.0	25.5	
52 Cyclohexane	56	4.212	4.212	0.000	94	408191	25.0	23.8	
53 Carbon tetrachloride	117	4.346	4.358	0.007	93	217770	25.0	25.3	
55 Benzene	78	4.552	4.552	0.000	90	1169758	25.0	50.0	a
57 1,2-Dichloroethane	62	4.625	4.619	0.006	95	301549	25.0	25.0	
60 Trichloroethene	95	5.155	5.148	0.000	92	149317	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.270	5.270	0.000	91	236515	25.0	24.0	
63 1,2-Dichloropropane	63	5.392	5.386	0.006	87	178932	25.0	24.1	
67 Dichlorobromomethane	83	5.690	5.684	0.006	94	184904	25.0	25.4	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	78	217806	25.0	22.6	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	646333	125.0	118.7	
73 Toluene	92	6.371	6.365	0.000	97	474954	25.0	35.2	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	91	214731	25.0	25.5	
78 1,1,2-Trichloroethane	83	6.846	6.852	0.000	91	105041	25.0	25.0	
79 Tetrachloroethene	166	6.895	6.895	0.000	90	138774	25.0	24.5	
82 2-Hexanone	43	7.083	7.095	0.000	97	1413979	125.0	116.0	
83 Chlorodibromomethane	129	7.229	7.229	0.000	87	134902	25.0	24.3	
84 Ethylene Dibromide	107	7.321	7.326	-0.005	99	124933	25.0	22.5	
85 Chlorobenzene	112	7.801	7.801	0.000	89	381603	25.0	25.8	
88 Ethylbenzene	91	7.898	7.898	0.000	98	660780	25.0	25.7	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	96	276830		27.3	
91 o-Xylene	106	8.440	8.434	0.000	98	262782		25.9	
92 Styrene	104	8.476	8.470	0.000	92	401337	25.0	24.3	
93 Bromoform	173	8.714	8.714	0.000	95	86571	25.0	23.9	
95 Isopropylbenzene	105	8.829	8.835	0.000	96	589422	25.0	21.9	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.261	-0.006	96	179448	25.0	20.8	
110 1,3-Dichlorobenzene	146	10.149	10.241	0.000	94	282252	25.0	22.0	
113 1,4-Dichlorobenzene	146	10.241	10.240	0.001	90	280149	25.0	21.2	
116 1,2-Dichlorobenzene	146	10.600	10.599	0.001	94	287914	25.0	22.1	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	73	43868	25.0	23.1	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	95	208075	25.0	22.2	
S 126 Xylenes, Total	1				0			53.2	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

GAS CORP mix_00647	Amount Added:	12.50	Units: uL	
8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

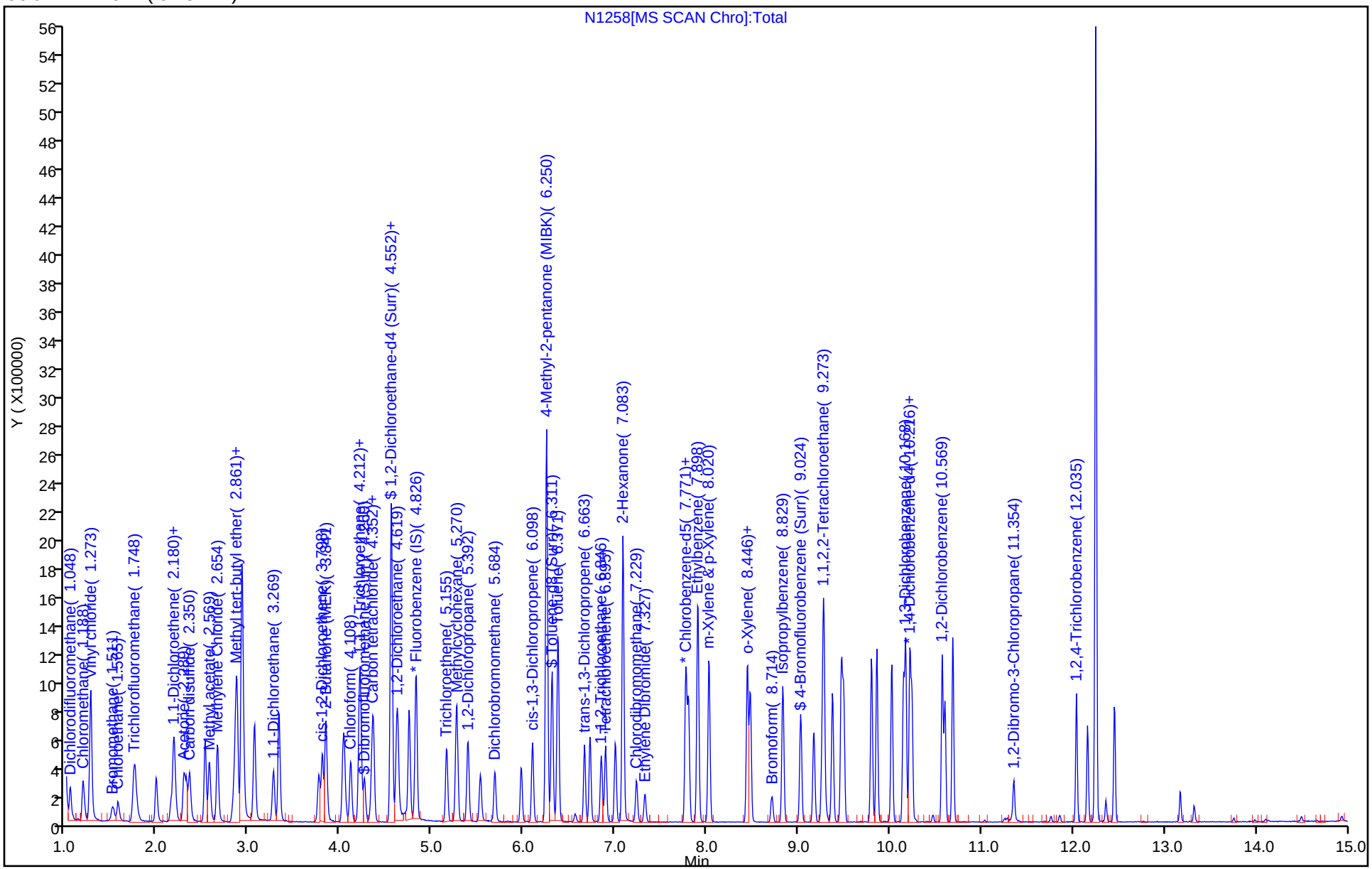
Report Date: 31-Oct-2024 16:01:33 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1258.d

Injection Date:	31-Oct-2024 09:24:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-9 MS			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	100.0000	ALS Bottle#:	58
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1258.d
Lims ID: 480-224869-G-9 MS
Client ID:
Sample Type: MS
Inject. Date: 31-Oct-2024 09:24:30 ALS Bottle#: 58 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224869-G-9 MS
Misc. Info.: 480-0120932-025
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 16:01:33 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 16:01:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	22.9	91.67
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.0	100.06
$ 6 Toluene-d8 (Surr)	25.0	25.3	101.24
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.6	110.25

Manual Integration/User Assign Peak Report

Eurofins Buffalo

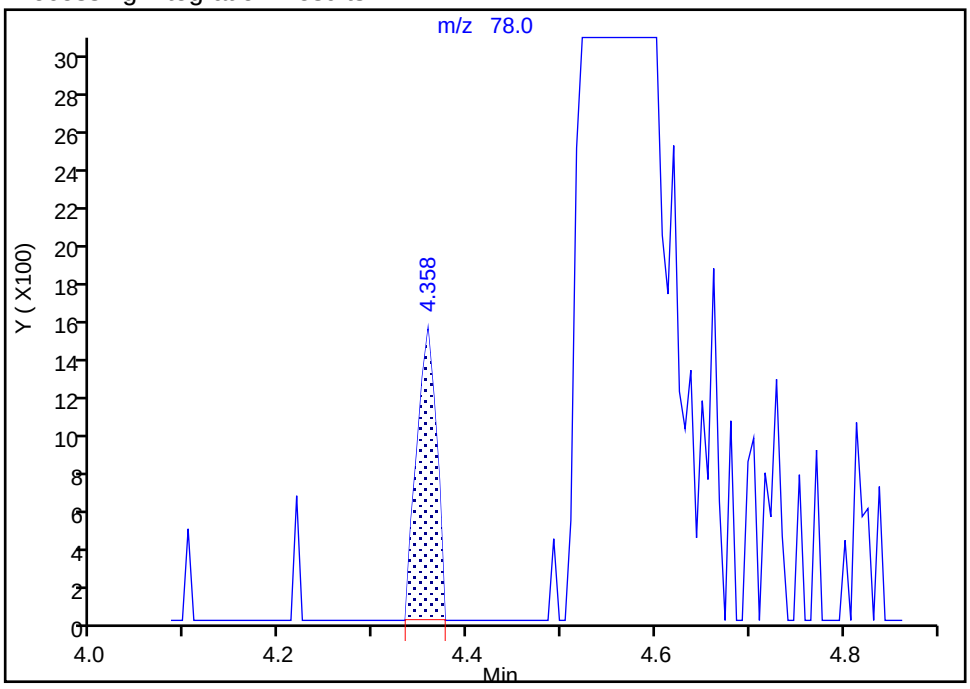
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1258.d
Injection Date: 31-Oct-2024 09:24:30 Instrument ID: HP5973N
Lims ID: 480-224869-G-9 MS
Client ID:
Operator ID: AD ALS Bottle#: 58 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

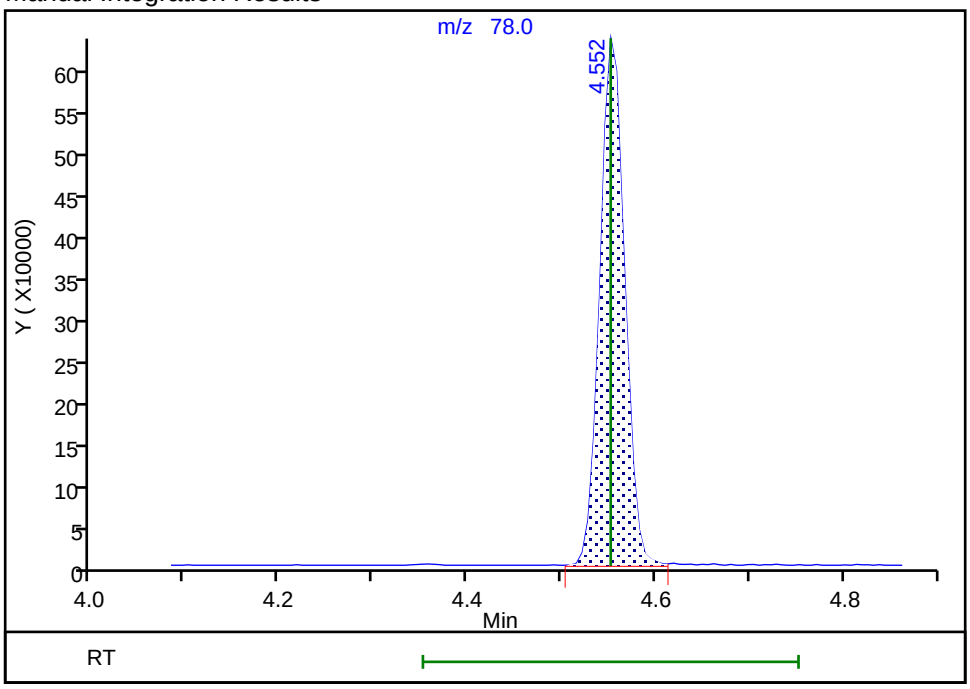
Processing Integration Results

RT: 4.36
Area: 2229
Amount: 0.095206
Amount Units: ug/L



Manual Integration Results

RT: 4.55
Area: 1169758
Amount: 49.963358
Amount Units: ug/L



Reviewer: HF3K, 31-Oct-2024 16:01:17 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 MSD | Lab Sample ID: 480-224869-9 MSD

Matrix: Water | Lab File ID: N1259.d

Analysis Method: 8260C | Date Collected: 10/25/2024 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 09:46

Soil Aliquot Vol: | Dilution Factor: 100

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2530		100	82
79-34-5	1,1,2,2-Tetrachloroethane	2190		100	21
79-00-5	1,1,2-Trichloroethane	2350		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2300		100	31
75-34-3	1,1-Dichloroethane	2430		100	38
75-35-4	1,1-Dichloroethene	2360		100	29
120-82-1	1,2,4-Trichlorobenzene	2250		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	2490		100	39
106-93-4	1,2-Dibromoethane	2230		100	73
95-50-1	1,2-Dichlorobenzene	2210		100	79
107-06-2	1,2-Dichloroethane	2560		100	21
78-87-5	1,2-Dichloropropane	2360		100	72
541-73-1	1,3-Dichlorobenzene	2250		100	78
106-46-7	1,4-Dichlorobenzene	2190		100	84
591-78-6	2-Hexanone	11200		500	120
78-93-3	2-Butanone (MEK)	11000		1000	130
108-10-1	4-Methyl-2-pentanone (MIBK)	11300		500	210
67-64-1	Acetone	11100		1000	300
71-43-2	Benzene	4910		100	41
75-27-4	Bromodichloromethane	2570		100	39
75-25-2	Bromoform	2470		100	26
74-83-9	Bromomethane	2080		100	69
75-15-0	Carbon disulfide	2170		100	19
56-23-5	Carbon tetrachloride	2490		100	27
108-90-7	Chlorobenzene	2510		100	75
124-48-1	Dibromochloromethane	2420		100	32
75-00-3	Chloroethane	2080		100	32
67-66-3	Chloroform	2270		100	34
74-87-3	Chloromethane	2270		100	35
156-59-2	cis-1,2-Dichloroethene	2370		100	81
10061-01-5	cis-1,3-Dichloropropene	2260		100	36
110-82-7	Cyclohexane	2420		100	18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 MSD | Lab Sample ID: 480-224869-9 MSD

Matrix: Water | Lab File ID: N1259.d

Analysis Method: 8260C | Date Collected: 10/25/2024 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/31/2024 09:46

Soil Aliquot Vol: | Dilution Factor: 100

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.: 730495 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5973N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	2560		100	68
100-41-4	Ethylbenzene	2570		100	74
98-82-8	Isopropylbenzene	2240		100	79
79-20-9	Methyl acetate	4180		250	130
1634-04-4	Methyl tert-butyl ether	2360		100	16
108-87-2	Methylcyclohexane	2430		100	16
75-09-2	Methylene Chloride	2690		100	44
100-42-5	Styrene	2380		100	73
127-18-4	Tetrachloroethene	2270		100	36
108-88-3	Toluene	3330		100	51
156-60-5	trans-1,2-Dichloroethene	2350		100	90
10061-02-6	trans-1,3-Dichloropropene	2450		100	37
79-01-6	Trichloroethene	2470		100	46
75-69-4	Trichlorofluoromethane	2420		100	88
75-01-4	Vinyl chloride	2030		100	90
1330-20-7	Xylenes, Total	5170		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	95		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1259.d
Lims ID: 480-224869-G-9 MSD
Client ID:
Sample Type: MSD
Inject. Date: 31-Oct-2024 09:46:30 ALS Bottle#: 59 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224869-G-9 MSD
Misc. Info.: 480-0120932-026
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 16:01:33 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 16:01:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.820	4.820	0.000	97	144405	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.771	7.771	-0.001	92	501558	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.216	10.216	0.000	94	263137	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	0.000	91	155171	25.0	23.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.558	4.552	0.006	55	236712	25.0	24.2	
$ 6 Toluene-d8 (Surr)	98	6.310	6.310	0.000	96	573638	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.024	9.024	0.000	86	193028	25.0	26.7	
11 Dichlorodifluoromethane	85	1.042	1.048	-0.006	97	182192	25.0	25.6	
13 Chloromethane	50	1.182	1.188	-0.006	99	331477	25.0	22.7	
14 Vinyl chloride	62	1.255	1.255	-0.006	97	156905	25.0	20.3	
15 Bromomethane	94	1.511	1.498	-0.001	93	91226	25.0	20.8	
16 Chloroethane	64	1.565	1.565	0.000	93	112408	25.0	20.8	
18 Trichlorofluoromethane	101	1.742	1.742	0.000	71	230928	25.0	24.2	
22 1,1-Dichloroethene	96	2.174	2.180	0.000	89	116089	25.0	23.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.180	2.167	0.000	58	116154	25.0	23.0	
23 Acetone	43	2.289	2.289	0.000	97	582709	125.0	111.2	
25 Carbon disulfide	76	2.350	2.356	0.000	97	386753	25.0	21.7	
28 Methyl acetate	43	2.563	2.569	0.000	99	586059	50.0	41.8	
30 Methylene Chloride	84	2.654	2.648	0.000	87	161008	25.0	26.9	
32 Methyl tert-butyl ether	73	2.855	2.849	0.006	94	505416	25.0	23.6	
33 trans-1,2-Dichloroethene	96	2.867	2.867	0.000	87	139778	25.0	23.5	
36 1,1-Dichloroethane	63	3.263	3.263	0.000	96	335091	25.0	24.3	
43 cis-1,2-Dichloroethene	96	3.798	3.798	0.000	86	154853	25.0	23.7	
44 2-Butanone (MEK)	43	3.834	3.840	-0.007	96	945140	125.0	110.5	
50 Chloroform	83	4.108	4.108	0.000	93	253486	25.0	22.7	
51 1,1,1-Trichloroethane	97	4.206	4.206	0.000	76	232608	25.0	25.3	
52 Cyclohexane	56	4.212	4.212	0.000	91	412412	25.0	24.2	
53 Carbon tetrachloride	117	4.339	4.358	0.000	95	213743	25.0	24.9	
55 Benzene	78	4.552	4.552	0.000	90	1145868	25.0	49.1	
57 1,2-Dichloroethane	62	4.625	4.619	0.006	95	306828	25.0	25.6	
60 Trichloroethene	95	5.161	5.148	0.006	93	148649	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.270	5.270	0.000	92	237929	25.0	24.3	
63 1,2-Dichloropropane	63	5.392	5.386	0.006	86	174736	25.0	23.6	
67 Dichlorobromomethane	83	5.684	5.684	0.000	94	186561	25.0	25.7	
71 cis-1,3-Dichloropropene	75	6.098	6.098	0.000	81	217465	25.0	22.6	
72 4-Methyl-2-pentanone (MIBK)	58	6.250	6.250	0.000	97	621028	125.0	112.5	
73 Toluene	92	6.371	6.365	0.000	96	456547	25.0	33.3	
75 trans-1,3-Dichloropropene	75	6.663	6.663	0.000	90	208824	25.0	24.5	
78 1,1,2-Trichloroethane	83	6.846	6.852	0.000	93	100068	25.0	23.5	
79 Tetrachloroethene	166	6.894	6.895	-0.001	91	130312	25.0	22.7	
82 2-Hexanone	43	7.083	7.095	0.000	97	1388072	125.0	112.3	
83 Chlorodibromomethane	129	7.229	7.229	0.000	89	135879	25.0	24.2	
84 Ethylene Dibromide	107	7.326	7.326	0.000	99	125393	25.0	22.3	
85 Chlorobenzene	112	7.801	7.801	0.000	91	375116	25.0	25.1	
88 Ethylbenzene	91	7.898	7.898	0.000	98	670089	25.0	25.7	
90 m-Xylene & p-Xylene	106	8.026	8.020	0.006	97	273453		26.6	
91 o-Xylene	106	8.440	8.434	0.000	98	257653		25.1	
92 Styrene	104	8.470	8.470	-0.006	90	397841	25.0	23.8	
93 Bromoform	173	8.713	8.714	-0.001	95	90614	25.0	24.7	
95 Isopropylbenzene	105	8.829	8.835	0.000	97	584631	25.0	22.4	
98 1,1,2,2-Tetrachloroethane	83	9.255	9.261	-0.006	97	183028	25.0	21.9	
110 1,3-Dichlorobenzene	146	10.149	10.241	0.000	95	279775	25.0	22.5	
113 1,4-Dichlorobenzene	146	10.240	10.240	0.000	91	280435	25.0	21.9	
116 1,2-Dichlorobenzene	146	10.599	10.599	0.000	95	278159	25.0	22.1	
117 1,2-Dibromo-3-Chloropropane	75	11.354	11.354	0.000	75	45868	25.0	24.9	
119 1,2,4-Trichlorobenzene	180	12.035	12.035	0.000	94	203692	25.0	22.5	
S 126 Xylenes, Total	1				0			51.6	

QC Flag Legend

Processing Flags

Reagents:

GAS CORP mix_00647	Amount Added:	12.50	Units: uL	
8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
N 8260 IS_00282	Amount Added:	1.00	Units: uL	Run Reagent
N_8260_Surr_00477	Amount Added:	1.00	Units: uL	Run Reagent

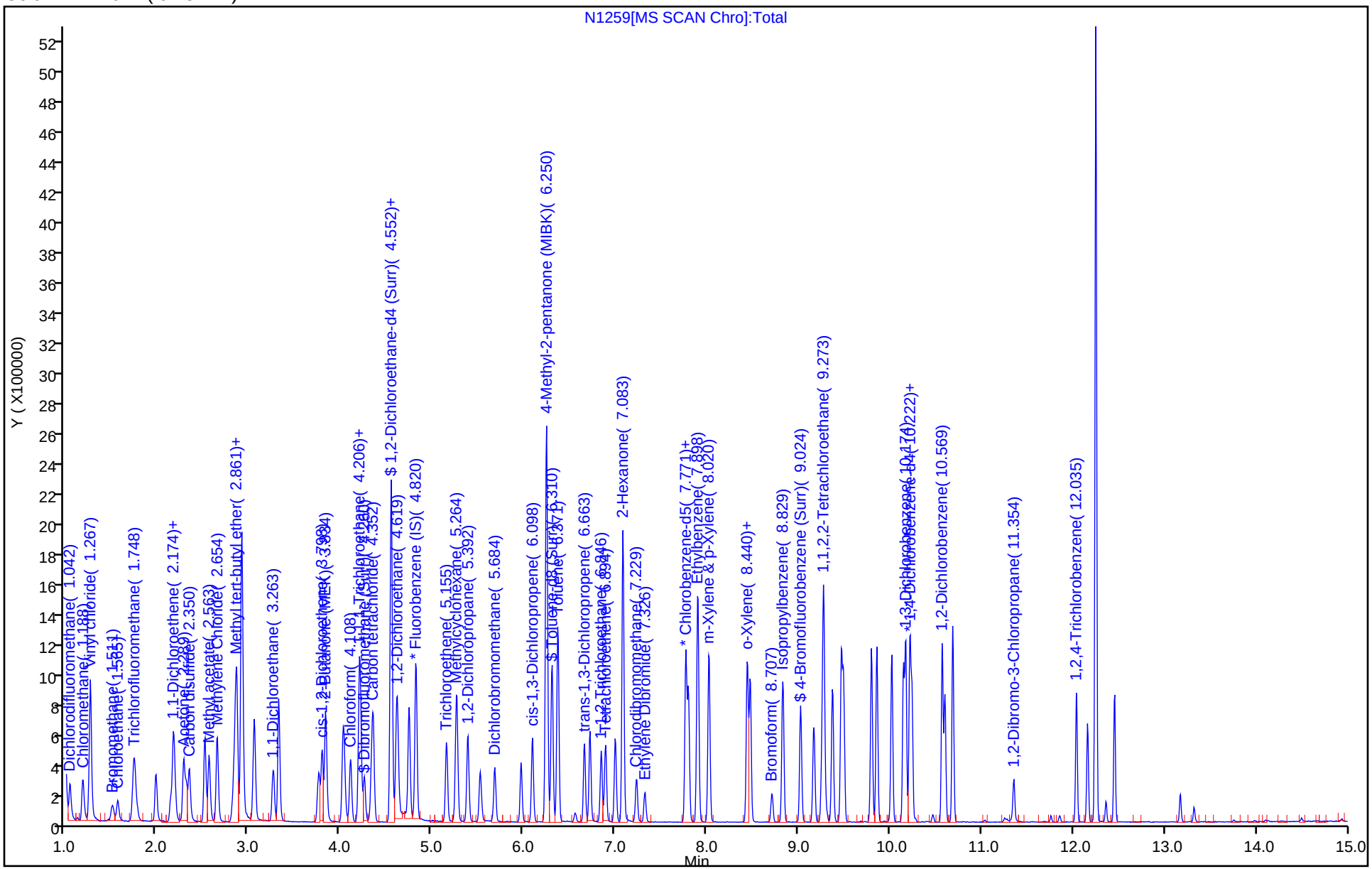
Report Date: 31-Oct-2024 16:01:55 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1259.d

Injection Date:	31-Oct-2024 09:46:30	Instrument ID:	HP5973N	Operator ID:	AD
Lims ID:	480-224869-G-9 MSD			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	100.0000	ALS Bottle#:	59
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N1259.d
Lims ID: 480-224869-G-9 MSD
Client ID:
Sample Type: MSD
Inject. Date: 31-Oct-2024 09:46:30 ALS Bottle#: 59 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224869-G-9 MSD
Misc. Info.: 480-0120932-026
Operator ID: AD Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20241030-120932.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Oct-2024 16:01:33 Calib Date: 24-Oct-2024 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20241024-120783.b\N0922.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: HF3K Date: 31-Oct-2024 16:01:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.6	94.59
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.2	97.00
$ 6 Toluene-d8 (Surr)	25.0	25.0	99.95
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.7	106.64

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: HP5973N Start Date: 10/24/2024 14:11

Analysis Batch Number: 729617 End Date: 10/24/2024 23:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-729617/11		10/24/2024 14:11	1	N0901.d	ZB-624 (20) 0.18(mm)
IC 480-729617/13		10/24/2024 15:19	1	N0904.d	ZB-624 (20) 0.18(mm)
IC 480-729617/14		10/24/2024 15:41	1	N0905.d	ZB-624 (20) 0.18(mm)
IC 480-729617/15		10/24/2024 16:04	1	N0906.d	ZB-624 (20) 0.18(mm)
IC 480-729617/16		10/24/2024 16:27	1	N0907.d	ZB-624 (20) 0.18(mm)
IC 480-729617/17		10/24/2024 16:49	1	N0908.d	ZB-624 (20) 0.18(mm)
ICIS 480-729617/18		10/24/2024 17:11	1	N0909.d	ZB-624 (20) 0.18(mm)
IC 480-729617/19		10/24/2024 17:34	1	N0910.d	ZB-624 (20) 0.18(mm)
IC 480-729617/20		10/24/2024 17:56	1	N0911.d	ZB-624 (20) 0.18(mm)
ZZZZZ (QC)		10/24/2024 18:41	1		ZB-624 (20) 0.18(mm)
ZZZZZ (QC)		10/24/2024 19:03	1		ZB-624 (20) 0.18(mm)
IC 480-729617/25		10/24/2024 19:48	1		ZB-624 (20) 0.18(mm)
IC 480-729617/26		10/24/2024 20:10	1		ZB-624 (20) 0.18(mm)
IC 480-729617/27		10/24/2024 20:32	1		ZB-624 (20) 0.18(mm)
IC 480-729617/28		10/24/2024 20:55	1		ZB-624 (20) 0.18(mm)
IC 480-729617/29		10/24/2024 21:17	1		ZB-624 (20) 0.18(mm)
IC 480-729617/30		10/24/2024 21:40	1		ZB-624 (20) 0.18(mm)
IC 480-729617/31		10/24/2024 22:03	1		ZB-624 (20) 0.18(mm)
ZZZZZ (QC)		10/24/2024 22:48	1		ZB-624 (20) 0.18(mm)
ICV 480-729617/34		10/24/2024 23:10	1	N0925.d	ZB-624 (20) 0.18(mm)
ICV 480-729617/35		10/24/2024 23:33	1	N0926.d	ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: HP5973N Start Date: 10/31/2024 01:09

Analysis Batch Number: 730495 End Date: 10/31/2024 09:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-730495/3		10/31/2024 01:09	1	N1236.d	ZB-624 (20) 0.18(mm)
CCVIS 480-730495/4		10/31/2024 01:32	1	N1237.d	ZB-624 (20) 0.18(mm)
CCV 480-730495/5		10/31/2024 01:54	1		ZB-624 (20) 0.18(mm)
LCS 480-730495/6		10/31/2024 02:17	1	N1239.d	ZB-624 (20) 0.18(mm)
RL 480-730495/7		10/31/2024 02:39	1		ZB-624 (20) 0.18(mm)
MB 480-730495/8		10/31/2024 03:02	1	N1241.d	ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/31/2024 03:24	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/31/2024 03:47	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/31/2024 04:09	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/31/2024 04:32	10		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/31/2024 04:54	1		ZB-624 (20) 0.18(mm)
480-224869-1	MW-BCP-09A-10252024	10/31/2024 05:16	1	N1247.d	ZB-624 (20) 0.18(mm)
480-224869-3	MW-BCP-10A-10242024	10/31/2024 05:39	5	N1248.d	ZB-624 (20) 0.18(mm)
480-224869-5	MW-BCP-11A-10242024	10/31/2024 06:01	1	N1249.d	ZB-624 (20) 0.18(mm)
480-224869-7	MW-BCP-12A-10242024	10/31/2024 06:23	1	N1250.d	ZB-624 (20) 0.18(mm)
480-224869-9	MW-BCP-13A-10252024	10/31/2024 06:46	100	N1251.d	ZB-624 (20) 0.18(mm)
480-224869-10	MW-BCP-13B-10252024	10/31/2024 07:08	2	N1252.d	ZB-624 (20) 0.18(mm)
480-224869-11	MW-BCP-24A-10252024	10/31/2024 07:31	1	N1253.d	ZB-624 (20) 0.18(mm)
480-224869-12	MW-BCP-25A-10252024	10/31/2024 07:54	1	N1254.d	ZB-624 (20) 0.18(mm)
480-224869-13	MW-BCP-19B-10252024	10/31/2024 08:16	1	N1255.d	ZB-624 (20) 0.18(mm)
480-224869-18	MW-BCP-21A-10252024	10/31/2024 08:39	1	N1256.d	ZB-624 (20) 0.18(mm)
480-224869-19	MW-BCP-19A-10252024	10/31/2024 09:01	8	N1257.d	ZB-624 (20) 0.18(mm)
480-224869-9 MS	MW-BCP-13A-10252024 MS	10/31/2024 09:24	100	N1258.d	ZB-624 (20) 0.18(mm)
480-224869-9 MSD	MW-BCP-13A-10252024 MSD	10/31/2024 09:46	100	N1259.d	ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: HP5973N Start Date: 10/31/2024 22:14

Analysis Batch Number: 730696 End Date: 11/01/2024 07:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-730696/3		10/31/2024 22:14	1	N1290.d	ZB-624 (20) 0.18(mm)
CCVIS 480-730696/4		10/31/2024 22:36	1	N1291.d	ZB-624 (20) 0.18(mm)
CCV 480-730696/5		10/31/2024 22:59	1		ZB-624 (20) 0.18(mm)
LCS 480-730696/6		10/31/2024 23:22	1	N1293.d	ZB-624 (20) 0.18(mm)
RL 480-730696/7		10/31/2024 23:44	1		ZB-624 (20) 0.18(mm)
MB 480-730696/8		11/01/2024 00:06	1	N1295.d	ZB-624 (20) 0.18(mm)
480-224869-3 DL	MW-BCP-10A-10242024 DL	11/01/2024 00:29	50	N1296.d	ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 00:51	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 01:15	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 01:35	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 01:58	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 02:20	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 02:43	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 03:05	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 03:27	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 03:50	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 04:12	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 04:35	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 04:58	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 05:20	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 05:42	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 06:04	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 06:26	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 06:48	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		11/01/2024 07:10	1		ZB-624 (20) 0.18(mm)
ZZZZZ (QC)		11/01/2024 07:33	1		ZB-624 (20) 0.18(mm)
ZZZZZ (QC)		11/01/2024 07:55	1		ZB-624 (20) 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 729617 Batch Start Date: 10/24/24 14:11 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	8260 CORP mix 00260	BFB_WRK 00167	GAS CORP mix 00646	N 8260 IS 00282
BFB 480-729617/11		8260C			1 uL	1 uL		1 uL		
IC 480-729617/13		8260C			5 mL	5 mL	0.5 uL		0.5 uL	1 uL
IC 480-729617/14		8260C			5 mL	5 mL	1 uL		1 uL	1 uL
IC 480-729617/15		8260C			5 mL	5 mL	2 uL		2 uL	1 uL
IC 480-729617/16		8260C			5 mL	5 mL	5 uL		5 uL	1 uL
IC 480-729617/17		8260C			5 mL	5 mL	5 uL		5 uL	1 uL
ICIS 480-729617/18		8260C			5 mL	5 mL	12.5 uL		12.5 uL	1 uL
IC 480-729617/19		8260C			5 mL	5 mL	25 uL		25 uL	1 uL
IC 480-729617/20		8260C			5 mL	5 mL	50 uL		50 uL	1 uL
ICV 480-729617/34		8260C			5 mL	5 mL				1 uL
ICV 480-729617/35		8260C			5 mL	5 mL				1 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	N_8260_Surr 00475	SS 8260 CORP 00117	SS ADD CORP 00094	SS GAS CORP 00599		
BFB 480-729617/11		8260C								
IC 480-729617/13		8260C			1 uL					
IC 480-729617/14		8260C			1 uL					
IC 480-729617/15		8260C			1 uL					
IC 480-729617/16		8260C			1 uL					
IC 480-729617/17		8260C			1 uL					
ICIS 480-729617/18		8260C			1 uL					
IC 480-729617/19		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 729617 Batch Start Date: 10/24/24 14:11 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	N_8260_Surr 00475	SS 8260 CORP 00117	SS ADD CORP 00094	SS GAS CORP 00599		
IC 480-729617/20		8260C			1 uL					
ICV 480-729617/34		8260C			1 uL	12.5 uL		12.5 uL		
ICV 480-729617/35		8260C			1 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.: 480-224869-1

SDG No.:

Batch Number: 730495 Batch Start Date: 10/31/24 01:09 Batch Analyst: Daniels, Aiden

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00259	BFB_WRK 00167	GAS CORP mix 00647
BFB 480-730495/3		8260C			1 uL	1 uL			1 uL	
CCVIS 480-730495/4		8260C			5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-730495/6		8260C			5 mL	5 mL		12.5 uL		12.5 uL
MB 480-730495/8		8260C			5 mL	5 mL				
480-224869-G-1	MW-BCP-09A-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-3	MW-BCP-10A-1024 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-5	MW-BCP-11A-1024 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-7	MW-BCP-12A-1024 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-9	MW-BCP-13A-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-10	MW-BCP-13B-1025 2024	8260C	Water	T	5 mL	5 mL	7 SU			
480-224869-G-11	MW-BCP-24A-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-12	MW-BCP-25A-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-E-13	MW-BCP-19B-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-18	MW-BCP-21A-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-E-19	MW-BCP-19A-1025 2024	8260C	Water	T	5 mL	5 mL	<2 SU			
480-224869-G-9 MS	MW-BCP-13A-1025 2024	8260C		T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL
480-224869-G-9 MSD	MW-BCP-13A-1025 2024	8260C		T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	N 8260 IS 00282	N_8260_Surr 00477	AnalysisComment			
BFB 480-730495/3		8260C								
CCVIS 480-730495/4		8260C			1 uL	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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730495 Batch Start Date: 10/31/24 01:09 Batch Analyst: Daniels, Aiden

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	N 8260 IS 00282	N_8260_Surr 00477	AnalysisComment			
LCS 480-730495/6		8260C			1 uL	1 uL				
MB 480-730495/8		8260C			1 uL	1 uL				
480-224869-G-1	MW-BCP-09A-1025 2024	8260C	Water	T	1 uL	1 uL				
480-224869-G-3	MW-BCP-10A-1024 2024	8260C	Water	T	1 uL	1 uL	ReRun @50x (eFlag), Target			
480-224869-G-5	MW-BCP-11A-1024 2024	8260C	Water	T	1 uL	1 uL				
480-224869-G-7	MW-BCP-12A-1024 2024	8260C	Water	T	1 uL	1 uL				
480-224869-G-9	MW-BCP-13A-1025 2024	8260C	Water	T	1 uL	1 uL	Target			
480-224869-G-10	MW-BCP-13B-1025 2024	8260C	Water	T	1 uL	1 uL	Preserved, Target			
480-224869-G-11	MW-BCP-24A-1025 2024	8260C	Water	T	1 uL	1 uL				
480-224869-G-12	MW-BCP-25A-1025 2024	8260C	Water	T	1 uL	1 uL				
480-224869-E-13	MW-BCP-19B-1025 2024	8260C	Water	T	1 uL	1 uL				
480-224869-G-18	MW-BCP-21A-1025 2024	8260C	Water	T	1 uL	1 uL				
480-224869-E-19	MW-BCP-19A-1025 2024	8260C	Water	T	1 uL	1 uL	Target			
480-224869-G-9 MS	MW-BCP-13A-1025 2024	8260C		T	1 uL	1 uL				
480-224869-G-9 MSD	MW-BCP-13A-1025 2024	8260C		T	1 uL	1 uL				

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730696 Batch Start Date: 10/31/24 22:14 Batch Analyst: Daniels, Aiden

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00259	BFB_WRK 00167	GAS CORP mix 00647
BFB 480-730696/3		8260C			1 uL	1 uL			1 uL	
CCVIS 480-730696/4		8260C			5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-730696/6		8260C			5 mL	5 mL		12.5 uL		12.5 uL
MB 480-730696/8		8260C			5 mL	5 mL				
480-224869-H-3	MW-BCP-10A-102420 24	8260C	Water	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	N 8260 IS 00282	N_8260_Surr 00477	AnalysisComment			
BFB 480-730696/3		8260C								
CCVIS 480-730696/4		8260C			1 uL	1 uL				
LCS 480-730696/6		8260C			1 uL	1 uL				
MB 480-730696/8		8260C			1 uL	1 uL				
480-224869-H-3	MW-BCP-10A-102420 24	8260C	Water	T	1 uL	1 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.

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
MW-BCP-09A-10252024	480-224869-1	56	41	77	68	66	40
MW-BCP-10A-10242024	480-224869-3	0 S1-	44	73	71	93	66
MW-BCP-10A-10242024 DL	480-224869-3 DL	0 S1-	0 S1-	129	75	0 S1-	66
MW-BCP-11A-10242024	480-224869-5	63	46	91	82	79	79
MW-BCP-12A-10242024	480-224869-7	61	43	84	78	86	69
MW-BCP-13A-10252024	480-224869-9	0 S1-	0 S1-	0 S1-	74	0 S1-	0 S1-
MW-BCP-13B-10252024	480-224869-10	58	48	61	78	84	51
MW-BCP-13B-10252024 DL	480-224869-10 DL	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
MW-BCP-24A-10252024	480-224869-11	73	55	104	94	86	83
MW-BCP-25A-10252024	480-224869-12	70	53	95	86	84	69
MW-BCP-19B-10252024	480-224869-13	69	51	100	91	97	70
MW-BCP-19B-10252024 DL	480-224869-13 DL	67	49	94	86	83	69
MW-BCP-21A-10252024	480-224869-18	70	52	100	89	93	48
MW-BCP-19A-10252024	480-224869-19	0 S1-	0 S1-	0 S1-	88	0 S1-	58
	MB 480-730138/1-A	56	43	83	70	71	91
	LCS 480-730138/2-A	67	53	91	85	89	93

	QC LIMITS
2FP = 2-Fluorophenol	24-120
PHL = Phenol-d5	10-120
NBZ = Nitrobenzene-d5	29-129
FBP = 2-Fluorobiphenyl	53-126
TBP = 2,4,6-Tribromophenol	25-144
TPHd14 = p-Terphenyl-d14	33-132

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Y04576.D

Lab ID: LCS 480-730138/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Biphenyl	32.0	26.6	83	59-120	
bis (2-chloroisopropyl) ether	32.0	36.3	114	21-136	
2,4,5-Trichlorophenol	32.0	29.7	93	65-126	
2,4,6-Trichlorophenol	32.0	28.2	88	64-120	
2,4-Dichlorophenol	32.0	27.0	84	63-120	
2,4-Dimethylphenol	32.0	30.8	96	47-120	
2,4-Dinitrophenol	64.0	63.2	99	31-137	
2,4-Dinitrotoluene	32.0	31.9	100	69-120	
2,6-Dinitrotoluene	32.0	30.3	95	68-120	
2-Chloronaphthalene	32.0	26.5	83	58-120	
2-Chlorophenol	32.0	26.5	83	48-120	
2-Methylnaphthalene	32.0	25.4	80	59-120	
2-Methylphenol	32.0	27.5	86	39-120	
2-Nitroaniline	32.0	38.6	121	54-127	
2-Nitrophenol	32.0	28.0	88	52-125	
3,3'-Dichlorobenzidine	32.0	22.7	71	49-135	
3-Nitroaniline	32.0	23.7	74	51-120	
4,6-Dinitro-2-methylphenol	64.0	66.1	103	46-136	
4-Bromophenyl phenyl ether	32.0	27.3	85	65-120	
4-Chloro-3-methylphenol	32.0	31.7	99	61-123	
4-Chloroaniline	32.0	18.5	58	30-120	
4-Chlorophenyl phenyl ether	32.0	27.8	87	62-120	
4-Methylphenol	32.0	28.1	88	29-131	
4-Nitroaniline	32.0	29.5	92	65-120	
4-Nitrophenol	64.0	81.5	127	45-120	*+
Acenaphthene	32.0	29.0	91	60-120	
Acenaphthylene	32.0	30.0	94	63-120	
Acetophenone	32.0	30.9	97	45-120	
Anthracene	32.0	32.4	101	67-120	
Atrazine	64.0	73.5	115	71-130	E
Benzaldehyde	64.0	63.8	100	10-140	
Benzo(a)anthracene	32.0	31.8	99	70-121	
Benzo(a)pyrene	32.0	31.1	97	60-123	
Benzo(b)fluoranthene	32.0	30.9	97	66-126	
Benzo(g,h,i)perylene	32.0	32.1	100	66-150	
Benzo(k)fluoranthene	32.0	30.4	95	65-124	
Bis(2-chloroethoxy)methane	32.0	28.1	88	50-128	
Bis(2-chloroethyl)ether	32.0	29.8	93	44-120	
Bis(2-ethylhexyl) phthalate	32.0	38.1	119	63-139	
Butyl benzyl phthalate	32.0	37.8	118	70-129	
Caprolactam	64.0	23.5	37	22-120	
Carbazole	32.0	30.7	96	66-123	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Y04576.D

Lab ID: LCS 480-730138/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chrysene	32.0	31.2	98	69-120	
Di-n-butyl phthalate	32.0	36.7	115	69-131	
Di-n-octyl phthalate	32.0	37.3	116	63-140	
Dibenz(a,h)anthracene	32.0	31.8	99	65-135	
Dibenzofuran	32.0	28.8	90	66-120	
Diethyl phthalate	32.0	36.1	113	59-127	
Dimethyl phthalate	32.0	32.4	101	68-120	
Fluoranthene	32.0	32.1	100	69-126	
Fluorene	32.0	29.1	91	66-120	
Hexachlorobenzene	32.0	28.1	88	61-120	
Hexachlorobutadiene	32.0	19.7	62	35-120	
Hexachlorocyclopentadiene	32.0	10.1	31	31-120	
Hexachloroethane	32.0	25.1	78	33-120	
Indeno(1,2,3-cd)pyrene	32.0	32.2	101	69-146	
Isophorone	32.0	31.7	99	55-120	
N-Nitrosodi-n-propylamine	32.0	32.0	100	32-140	
N-Nitrosodiphenylamine	32.0	30.4	95	61-120	
Naphthalene	32.0	25.2	79	57-120	
Nitrobenzene	32.0	31.0	97	53-123	
Pentachlorophenol	64.0	52.6	82	10-136	
Phenanthrene	32.0	31.8	99	68-120	
Phenol	32.0	18.1	57	17-120	
Pyrene	32.0	33.4	104	70-125	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: Y04575.D Lab Sample ID: MB 480-730138/1-A

Matrix: Water Date Extracted: 10/28/2024 14:16

Instrument ID: HP5973Y Date Analyzed: 10/29/2024 13:06

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-730138/2-A	Y04576.D	10/29/2024 13:33
MW-BCP-09A-10252024	480-224869-1	Y04588.D	10/29/2024 19:01
MW-BCP-10A-10242024	480-224869-3	Y04589.D	10/29/2024 19:29
MW-BCP-11A-10242024	480-224869-5	Y04590.D	10/29/2024 19:56
MW-BCP-12A-10242024	480-224869-7	Y04591.D	10/29/2024 20:23
MW-BCP-13B-10252024	480-224869-10	Y04593.D	10/29/2024 21:18
MW-BCP-24A-10252024	480-224869-11	Y04594.D	10/29/2024 21:45
MW-BCP-25A-10252024	480-224869-12	Y04595.D	10/29/2024 22:13
MW-BCP-19B-10252024	480-224869-13	Y04596.D	10/29/2024 22:40
MW-BCP-21A-10252024	480-224869-18	Y04597.D	10/29/2024 23:07
MW-BCP-10A-10242024 DL	480-224869-3 DL	Y04604.D	10/30/2024 11:12
MW-BCP-13A-10252024	480-224869-9	Y04605.D	10/30/2024 11:40
MW-BCP-19B-10252024 DL	480-224869-13 DL	Y04606.D	10/30/2024 12:07
MW-BCP-19A-10252024	480-224869-19	Y04607.D	10/30/2024 12:34
MW-BCP-13B-10252024 DL	480-224869-10 DL	Y04614.D	10/30/2024 15:46

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: Y04074.D DFTPP Injection Date: 10/10/2024

Instrument ID: HP5973Y DFTPP Injection Time: 14:20

Analysis Batch No.: 727763

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	39.8	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	42.0	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	47.8	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	28.1	
365	Greater than 1% of mass 198	3.6	
441	present but less than 24% of mass 442	14.3	(16.6) 2
442	Greater than 50% of mass 198	86.3	
443	15-24% of mass 442	17.9	(20.7) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-727763/3	Y04075.D	10/10/2024	14:47
	IC 480-727763/4	Y04076.D	10/10/2024	15:14
	IC 480-727763/5	Y04077.D	10/10/2024	15:42
	IC 480-727763/6	Y04078.D	10/10/2024	16:10
	ICIS 480-727763/7	Y04079.D	10/10/2024	16:37
	IC 480-727763/8	Y04080.D	10/10/2024	17:05
	IC 480-727763/9	Y04081.D	10/10/2024	17:32
	IC 480-727763/10	Y04082.D	10/10/2024	18:00
	ICV 480-727763/11	Y04083.D	10/10/2024	18:27

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: Y04571.D DFTPP Injection Date: 10/29/2024

Instrument ID: HP5973Y DFTPP Injection Time: 11:16

Analysis Batch No.: 730212

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	70.7
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	64.3
70	Less than 2% of mass 69	0.3 (0.5) 1
127	10-80% of Base Peak	63.0
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	7.0
275	10-60% of Base Peak	28.0
365	Greater than 1% of mass 198	5.4
441	present but less than 24% of mass 442	12.4 (16.2) 2
442	Greater than 50% of mass 198	76.7
443	15-24% of mass 442	15.2 (19.8) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-730212/3	Y04572.D	10/29/2024	11:44
	MB 480-730138/1-A	Y04575.D	10/29/2024	13:06
	LCS 480-730138/2-A	Y04576.D	10/29/2024	13:33
MW-BCP-09A-10252024	480-224869-1	Y04588.D	10/29/2024	19:01
MW-BCP-10A-10242024	480-224869-3	Y04589.D	10/29/2024	19:29
MW-BCP-11A-10242024	480-224869-5	Y04590.D	10/29/2024	19:56
MW-BCP-12A-10242024	480-224869-7	Y04591.D	10/29/2024	20:23
MW-BCP-13B-10252024	480-224869-10	Y04593.D	10/29/2024	21:18
MW-BCP-24A-10252024	480-224869-11	Y04594.D	10/29/2024	21:45
MW-BCP-25A-10252024	480-224869-12	Y04595.D	10/29/2024	22:13
MW-BCP-19B-10252024	480-224869-13	Y04596.D	10/29/2024	22:40
MW-BCP-21A-10252024	480-224869-18	Y04597.D	10/29/2024	23:07

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab File ID: Y04601.D DFTPP Injection Date: 10/30/2024

Instrument ID: HP5973Y DFTPP Injection Time: 09:51

Analysis Batch No.: 730403

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	67.3
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	57.5
70	Less than 2% of mass 69	0.4 (0.6) 1
127	10-80% of Base Peak	59.5
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	7.0
275	10-60% of Base Peak	28.4
365	Greater than 1% of mass 198	6.5
441	present but less than 24% of mass 442	15.0 (17.5) 2
442	Greater than 50% of mass 198	85.4
443	15-24% of mass 442	18.6 (21.8) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-730403/3	Y04602.D	10/30/2024	10:18
MW-BCP-10A-10242024 DL	480-224869-3 DL	Y04604.D	10/30/2024	11:12
MW-BCP-13A-10252024	480-224869-9	Y04605.D	10/30/2024	11:40
MW-BCP-19B-10252024 DL	480-224869-13 DL	Y04606.D	10/30/2024	12:07
MW-BCP-19A-10252024	480-224869-19	Y04607.D	10/30/2024	12:34
MW-BCP-13B-10252024 DL	480-224869-10 DL	Y04614.D	10/30/2024	15:46

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: ICIS 480-727763/7 Date Analyzed: 10/10/2024 16:37

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y04079.D Heated Purge: (Y/N) N

Calibration ID: 47387

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		213896	6.02	773798	7.22	455089	8.78
UPPER LIMIT		427792	6.52	1547596	7.72	910178	9.28
LOWER LIMIT		106948	5.52	386899	6.72	227545	8.28
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-727763/11		197997	6.02	729067	7.22	430428	8.78
CCVIS 480-730212/3		175464	5.89	686874	7.09	395738	8.65
CCVIS 480-730403/3		153871	5.88	563716	7.09	329934	8.65

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: ICIS 480-727763/7 Date Analyzed: 10/10/2024 16:37

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y04079.D Heated Purge: (Y/N) N

Calibration ID: 47387

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		755758	10.06	695335	12.95	758890	14.66
UPPER LIMIT		1511516	10.56	1390670	13.45	1517780	15.16
LOWER LIMIT		377879	9.56	347668	12.45	379445	14.16
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-727763/11		722244	10.05	659917	12.94	725946	14.66
CCVIS 480-730212/3		671113	9.93	562758	12.77	639845	14.46
CCVIS 480-730403/3		565127	9.93	468318	12.78	537948	14.46

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: CCVIS 480-730212/3 Date Analyzed: 10/29/2024 11:44

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y04572.D Heated Purge: (Y/N) N

Calibration ID: 47393

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		175464	5.89	686874	7.09	395738	8.65
UPPER LIMIT		350928	6.39	1373748	7.59	791476	9.15
LOWER LIMIT		87732	5.39	343437	6.59	197869	8.15
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-730138/1-A		174744	5.89	654428	7.09	374380	8.65
LCS 480-730138/2-A		174253	5.89	656574	7.09	379955	8.65
480-224869-1	MW-BCP-09A-10252024	162844	5.89	605409	7.09	332522	8.65
480-224869-3	MW-BCP-10A-10242024	168787	5.89	704460	7.10	379486	8.65
480-224869-5	MW-BCP-11A-10242024	162319	5.89	604078	7.09	349640	8.65
480-224869-7	MW-BCP-12A-10242024	162631	5.89	615840	7.09	350501	8.65
480-224869-10	MW-BCP-13B-10252024	170437	5.89	929237	7.13	370485	8.65
480-224869-11	MW-BCP-24A-10252024	164815	5.89	611843	7.09	343501	8.65
480-224869-12	MW-BCP-25A-10252024	162551	5.89	611626	7.08	342410	8.65
480-224869-13	MW-BCP-19B-10252024	163000	5.89	610447	7.09	347940	8.65
480-224869-18	MW-BCP-21A-10252024	166540	5.89	603903	7.09	344558	8.65

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: CCVIS 480-730212/3 Date Analyzed: 10/29/2024 11:44

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y04572.D Heated Purge: (Y/N) N

Calibration ID: 47393

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		671113	9.93	562758	12.77	639845	14.46
UPPER LIMIT		1342226	10.43	1125516	13.27	1279690	14.96
LOWER LIMIT		335557	9.43	281379	12.27	319923	13.96
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-730138/1-A		601911	9.92	508252	12.77	581726	14.46
LCS 480-730138/2-A		643789	9.93	555925	12.78	607785	14.47
480-224869-1	MW-BCP-09A-10252024	609672	9.92	513065	12.77	562087	14.46
480-224869-3	MW-BCP-10A-10242024	619131	9.92	535337	12.78	593065	14.47
480-224869-5	MW-BCP-11A-10242024	591859	9.92	494590	12.77	548241	14.46
480-224869-7	MW-BCP-12A-10242024	606653	9.93	520031	12.77	589136	14.47
480-224869-10	MW-BCP-13B-10252024	637231	9.92	544295	12.77	610821	14.46
480-224869-11	MW-BCP-24A-10252024	608481	9.92	488725	12.77	564966	14.46
480-224869-12	MW-BCP-25A-10252024	598636	9.92	496149	12.78	566199	14.46
480-224869-13	MW-BCP-19B-10252024	594796	9.93	521486	12.78	575292	14.47
480-224869-18	MW-BCP-21A-10252024	600706	9.92	510087	12.77	595588	14.47

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: CCVIS 480-730403/3 Date Analyzed: 10/30/2024 10:18

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y04602.D Heated Purge: (Y/N) N

Calibration ID: 47393

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		153871	5.88	563716	7.09	329934	8.65
UPPER LIMIT		307742	6.38	1127432	7.59	659868	9.15
LOWER LIMIT		76936	5.38	281858	6.59	164967	8.15
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-224869-3 DL	MW-BCP-10A-10242024 DL	152823	5.89	584265	7.09	323918	8.65
480-224869-9	MW-BCP-13A-10252024	151473	5.89	592087	7.09	327316	8.65
480-224869-13 DL	MW-BCP-19B-10252024 DL	152701	5.89	578547	7.09	328376	8.65
480-224869-19	MW-BCP-19A-10252024	149305	5.89	580517	7.09	313224	8.65
480-224869-10 DL	MW-BCP-13B-10252024 DL	152688	5.89	569595	7.09	325934	8.65

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Sample No.: CCVIS 480-730403/3 Date Analyzed: 10/30/2024 10:18

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y04602.D Heated Purge: (Y/N) N

Calibration ID: 47393

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		565127	9.93	468318	12.78	537948	14.46
UPPER LIMIT		1130254	10.43	936636	13.28	1075896	14.96
LOWER LIMIT		282564	9.43	234159	12.28	268974	13.96
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-224869-3 DL	MW-BCP-10A-10242024 DL	552317	9.92	447683	12.78	506286	14.46
480-224869-9	MW-BCP-13A-10252024	566110	9.92	445952	12.78	521236	14.46
480-224869-13 DL	MW-BCP-19B-10252024 DL	513338	9.92	456316	12.77	509986	14.46
480-224869-19	MW-BCP-19A-10252024	551205	9.92	448752	12.77	508008	14.46
480-224869-10 DL	MW-BCP-13B-10252024 DL	499406	9.92	442099	12.77	508795	14.46

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-09A-10252024 | Lab Sample ID: 480-224869-1

Matrix: Water | Lab File ID: Y04588.D

Analysis Method: 8270D | Date Collected: 10/25/2024 16:30

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 19:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.2	0.68
108-60-1	bis (2-chloroisopropyl) ether	ND		5.2	0.54
95-95-4	2,4,5-Trichlorophenol	ND		5.2	0.50
88-06-2	2,4,6-Trichlorophenol	ND		5.2	0.64
120-83-2	2,4-Dichlorophenol	ND		5.2	0.53
105-67-9	2,4-Dimethylphenol	ND		5.2	0.52
51-28-5	2,4-Dinitrophenol	ND		10	2.3
121-14-2	2,4-Dinitrotoluene	ND		5.2	0.47
606-20-2	2,6-Dinitrotoluene	ND		5.2	0.42
91-58-7	2-Chloronaphthalene	ND		5.2	0.48
95-57-8	2-Chlorophenol	ND		5.2	0.55
91-57-6	2-Methylnaphthalene	ND		5.2	0.63
95-48-7	2-Methylphenol	ND		5.2	0.42
88-74-4	2-Nitroaniline	ND		10	0.44
88-75-5	2-Nitrophenol	ND		5.2	0.50
91-94-1	3,3'-Dichlorobenzidine	ND		5.2	0.42
99-09-2	3-Nitroaniline	ND		10	0.50
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.3
101-55-3	4-Bromophenyl phenyl ether	ND		5.2	0.47
59-50-7	4-Chloro-3-methylphenol	ND		5.2	0.47
106-47-8	4-Chloroaniline	ND		5.2	0.61
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.2	0.36
106-44-5	4-Methylphenol	ND		10	0.38
100-01-6	4-Nitroaniline	ND		10	0.26
100-02-7	4-Nitrophenol	ND	*+	10	1.6
83-32-9	Acenaphthene	ND		5.2	0.43
208-96-8	Acenaphthylene	ND		5.2	0.40
98-86-2	Acetophenone	ND		5.2	0.56
120-12-7	Anthracene	ND		5.2	0.29
1912-24-9	Atrazine	ND		5.2	0.48
100-52-7	Benzaldehyde	ND		5.2	0.28

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-09A-10252024 | Lab Sample ID: 480-224869-1

Matrix: Water | Lab File ID: Y04588.D

Analysis Method: 8270D | Date Collected: 10/25/2024 16:30

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 19:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		5.2	0.38
50-32-8	Benzo(a)pyrene	ND		5.2	0.49
205-99-2	Benzo(b)fluoranthene	ND		5.2	0.35
191-24-2	Benzo(g,h,i)perylene	ND		5.2	0.36
207-08-9	Benzo(k)fluoranthene	ND		5.2	0.76
111-91-1	Bis(2-chloroethoxy)methane	ND		5.2	0.36
111-44-4	Bis(2-chloroethyl)ether	ND		5.2	0.42
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.2	2.3
85-68-7	Butyl benzyl phthalate	ND		5.2	1.0
105-60-2	Caprolactam	ND		5.2	2.3
86-74-8	Carbazole	ND		5.2	0.31
218-01-9	Chrysene	ND		5.2	0.34
84-74-2	Di-n-butyl phthalate	ND		5.2	0.32
117-84-0	Di-n-octyl phthalate	ND		5.2	0.49
53-70-3	Dibenz(a,h)anthracene	ND		5.2	0.44
132-64-9	Dibenzofuran	ND		10	0.53
84-66-2	Diethyl phthalate	ND		5.2	0.23
131-11-3	Dimethyl phthalate	ND		5.2	0.38
206-44-0	Fluoranthene	ND		5.2	0.42
86-73-7	Fluorene	ND		5.2	0.38
118-74-1	Hexachlorobenzene	ND		5.2	0.53
87-68-3	Hexachlorobutadiene	ND		5.2	0.71
77-47-4	Hexachlorocyclopentadiene	ND		5.2	0.61
67-72-1	Hexachloroethane	ND		5.2	0.61
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.2	0.49
78-59-1	Isophorone	ND		5.2	0.45
621-64-7	N-Nitrosodi-n-propylamine	ND		5.2	0.56
86-30-6	N-Nitrosodiphenylamine	ND		5.2	0.53
91-20-3	Naphthalene	ND		5.2	0.79
98-95-3	Nitrobenzene	ND		5.2	0.30
87-86-5	Pentachlorophenol	ND		10	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-09A-10252024 | Lab Sample ID: 480-224869-1

Matrix: Water | Lab File ID: Y04588.D

Analysis Method: 8270D | Date Collected: 10/25/2024 16:30

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 19:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		5.2	0.46
108-95-2	Phenol	ND		5.2	0.41
129-00-0	Pyrene	ND		5.2	0.35

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	66		25-144
321-60-8	2-Fluorobiphenyl	68		53-126
367-12-4	2-Fluorophenol	56		24-120
4165-60-0	Nitrobenzene-d5	77		29-129
1718-51-0	p-Terphenyl-d14	40		33-132
4165-62-2	Phenol-d5	41		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D
Lims ID: 480-224869-B-1-A
Client ID: MW-BCP-09A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 19:01:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-019
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:04:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.000	95	162844	4.00	
* 2 Naphthalene-d8	136	7.089	7.089	0.000	99	605409	4.00	
* 3 Acenaphthene-d10	164	8.648	8.648	0.000	95	332522	4.00	
* 4 Phenanthrene-d10	188	9.923	9.929	-0.006	97	609672	4.00	
* 5 Chrysene-d12	240	12.774	12.774	0.000	99	513065	4.00	
* 6 Perylene-d12	264	14.463	14.463	0.000	97	562087	4.00	
$ 7 2-Fluorophenol	112	4.671	4.644	0.030	92	226742	4.52	
$ 8 Phenol-d5	99	5.530	5.527	0.006	88	203545	3.28	
$ 9 Nitrobenzene-d5	82	6.413	6.410	-0.001	96	359255	6.18	
$ 10 2-Fluorobiphenyl	172	8.038	8.040	0.000	99	620451	5.43	
$ 11 2,4,6-Tribromophenol	330	9.330	9.327	0.000	83	78965	5.25	
$ 12 p-Terphenyl-d14	244	11.482	11.484	0.000	97	449487	3.23	
35 Benzaldehyde	77		5.471				ND	
37 Phenol	94		5.536				ND	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108		6.111				ND	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108		6.254				ND	
52 Acetophenone	105		6.265				ND	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107		6.751				ND	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.107	7.113	0.000	92	5263	0.0329	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113	7.457	7.462	-0.006	71	1197	0.1482	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142		7.730				ND	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154		8.133				ND	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152		8.530				ND	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153		8.678				ND	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	
115 Dibenzofuran	168		8.826				ND	
120 Diethyl phthalate	149	8.962	8.968	-0.006	68	2139	0.0205	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166		9.123				ND	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.946	9.946	-0.001	89	3870	0.0230	
152 Anthracene	178		9.988				ND	
153 Carbazole	167		10.118				ND	
157 Di-n-butyl phthalate	149	10.355	10.352	-0.001	97	7950	0.0412	
164 Fluoranthene	202	11.108	11.104	0.000	74	4659	0.0260	
167 Pyrene	202	11.369	11.366	0.000	94	3833	0.0223	
174 Butyl benzyl phthalate	149	12.009	12.012	0.000	91	4625	0.1453	
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228		12.762				ND	
182 Chrysene	228		12.810				ND	
184 Di-n-octyl phthalate	149		13.420				ND	U
186 Benzo[b]fluoranthene	252		14.007				ND	
187 Benzo[k]fluoranthene	252		14.037				ND	
189 Benzo[a]pyrene	252	14.404	14.401	0.006	57	1932	0.0346	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.945				ND	
195 Benzo[g,h,i]perylene	276		16.396				ND	

QC Flag Legend

Processing Flags

Review Flags
U - Marked Undetected

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

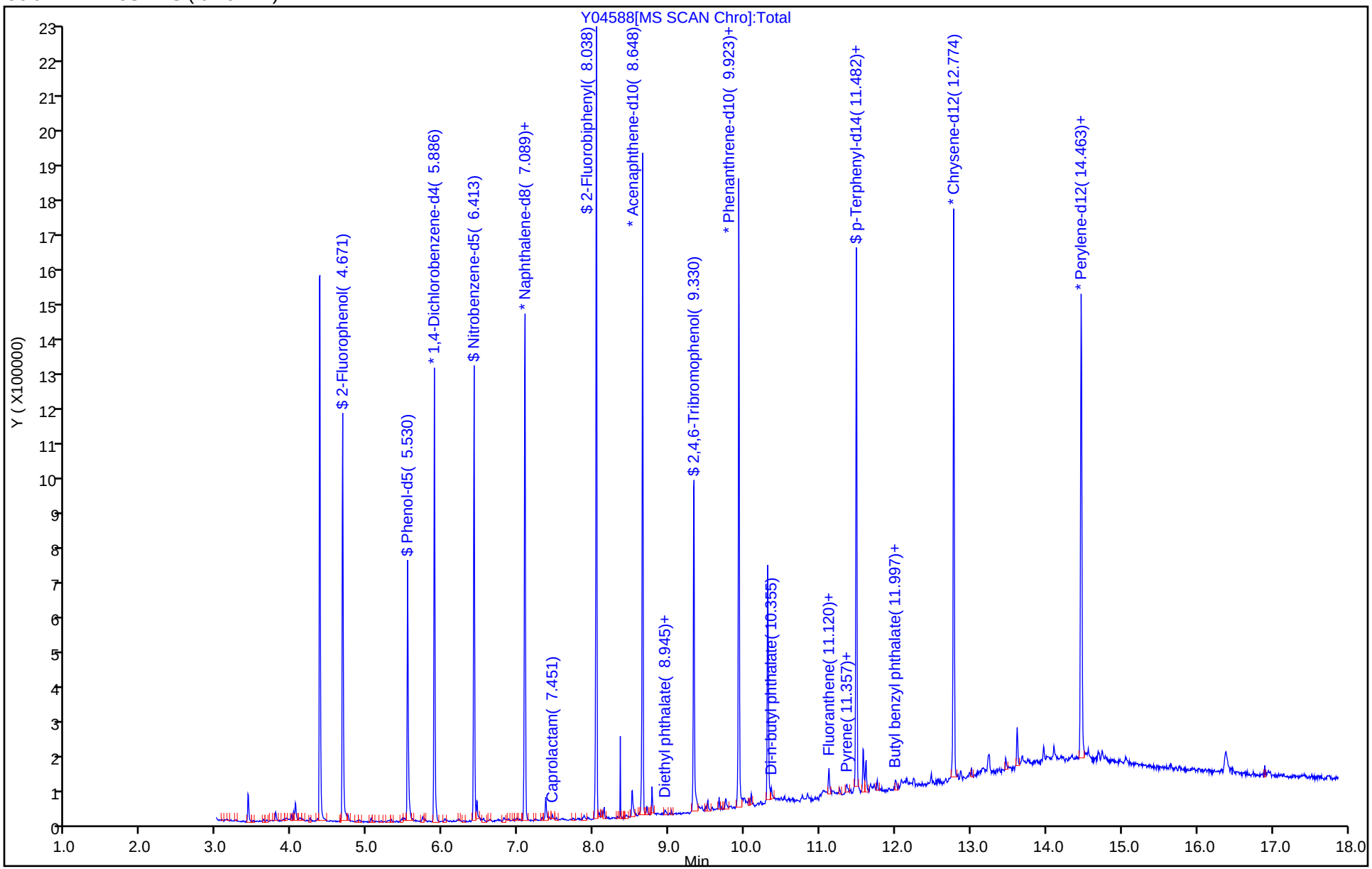
Report Date: 30-Oct-2024 15:16:58 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D

Injection Date:	29-Oct-2024 19:01:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-1-A	Lab Sample ID:	480-224869-1	Worklist Smp#:	19
Client ID:	MW-BCP-09A-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D
Lims ID: 480-224869-B-1-A
Client ID: MW-BCP-09A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 19:01:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-019
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:04:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	4.52	56.49
$ 8 Phenol-d5	8.00	3.28	41.04
$ 9 Nitrobenzene-d5	8.00	6.18	77.19
$ 10 2-Fluorobiphenyl	8.00	5.43	67.86
$ 11 2,4,6-Tribromophenol	8.00	5.25	65.68
$ 12 p-Terphenyl-d14	8.00	3.23	40.40

Manual Integration/User Assign Peak Report

Eurofins Buffalo

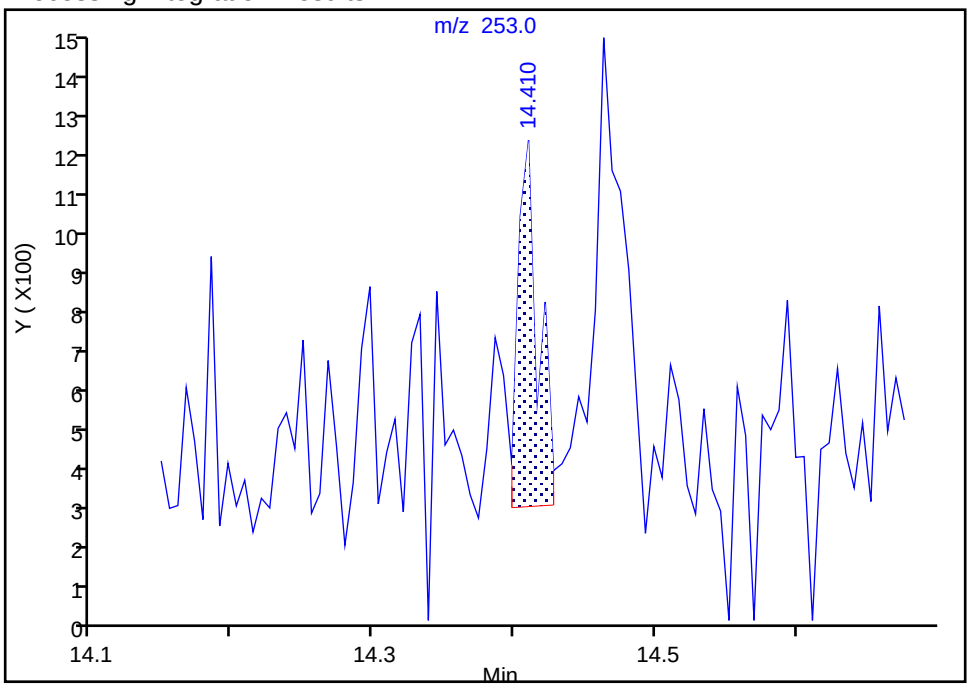
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D				
Injection Date:	29-Oct-2024 19:01:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-1-A	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	JM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

189 Benzo[a]pyrene, CAS: 50-32-8

Signal: 2

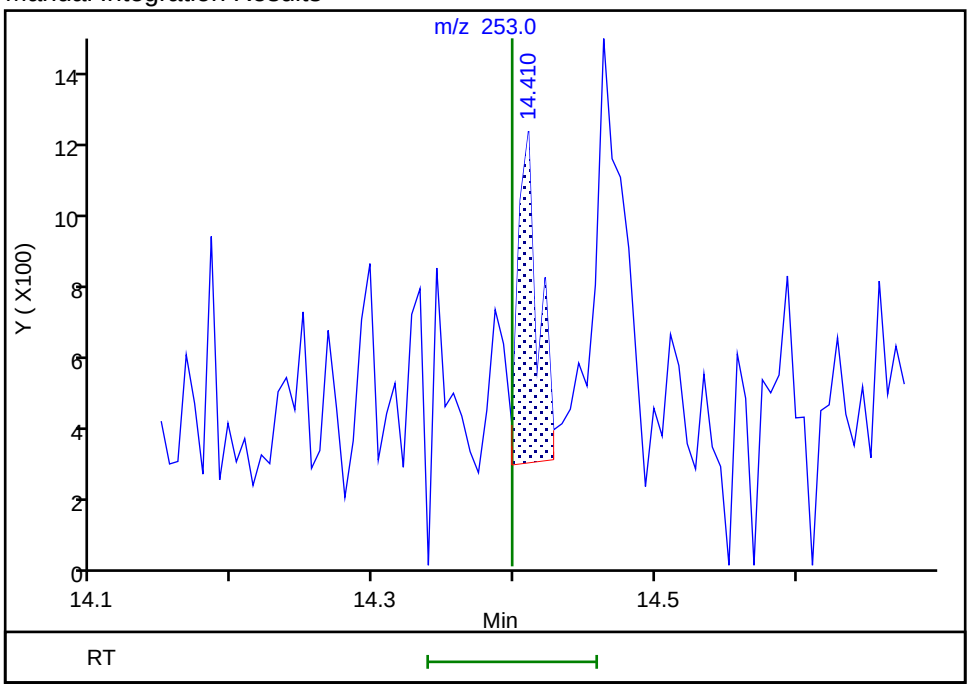
Processing Integration Results

RT: 14.41
Area: 914
Amount: 0.034550
Amount Units: ng/uL



Manual Integration Results

RT: 14.41
Area: 914
Amount: 0.034550
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:04:31 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

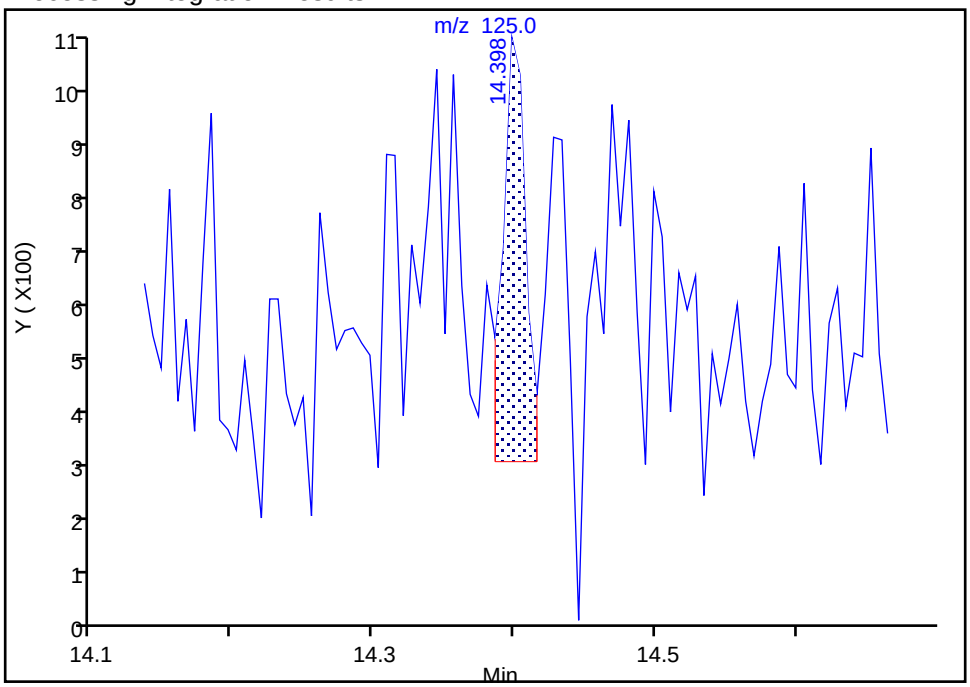
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D				
Injection Date:	29-Oct-2024 19:01:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-1-A	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	JM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

189 Benzo[a]pyrene, CAS: 50-32-8

Signal: 3

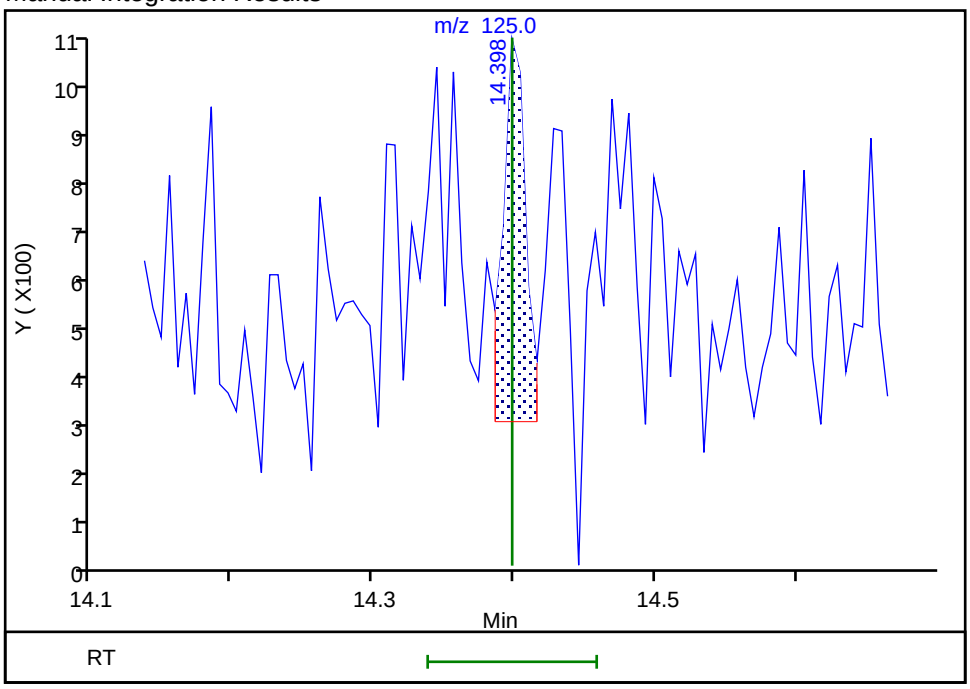
Processing Integration Results

RT: 14.40
Area: 904
Amount: 0.034550
Amount Units: ng/uL



Manual Integration Results

RT: 14.40
Area: 904
Amount: 0.034550
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:04:31 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

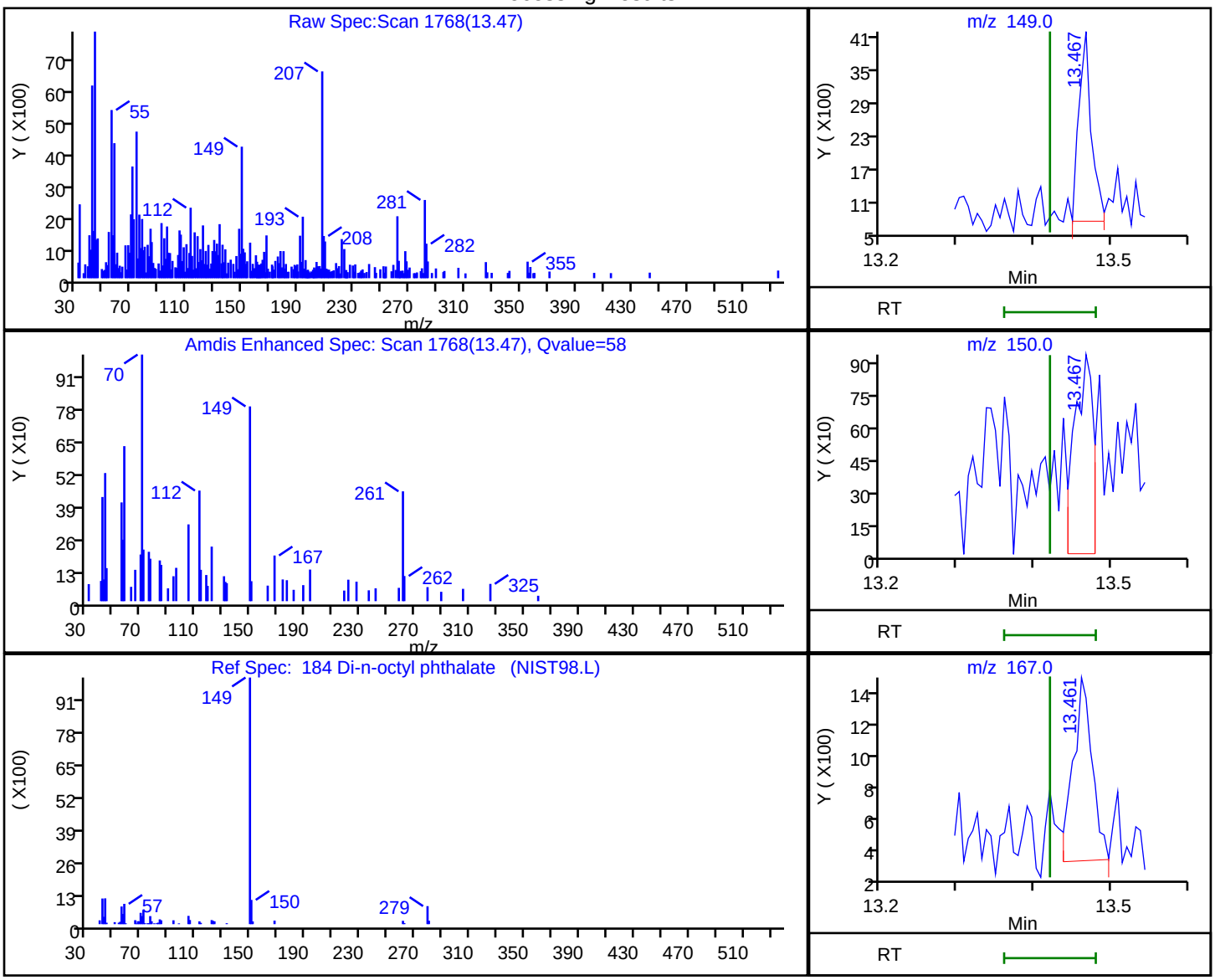
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D				
Injection Date:	29-Oct-2024 19:01:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-1-A	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	JM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

184 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
13.47	149.00	3828	0.099530
13.47	150.00	1610	
13.46	167.00	2019	

Reviewer: IZ8L, 30-Oct-2024 15:04:28 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

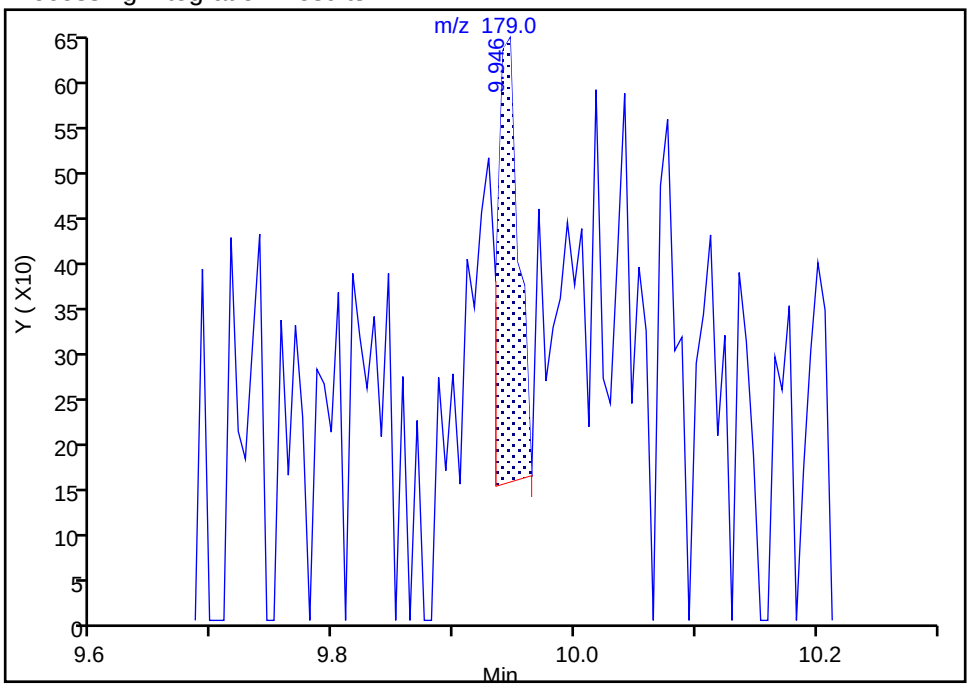
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D				
Injection Date:	29-Oct-2024 19:01:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-1-A	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	JM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

151 Phenanthrene, CAS: 85-01-8

Signal: 2

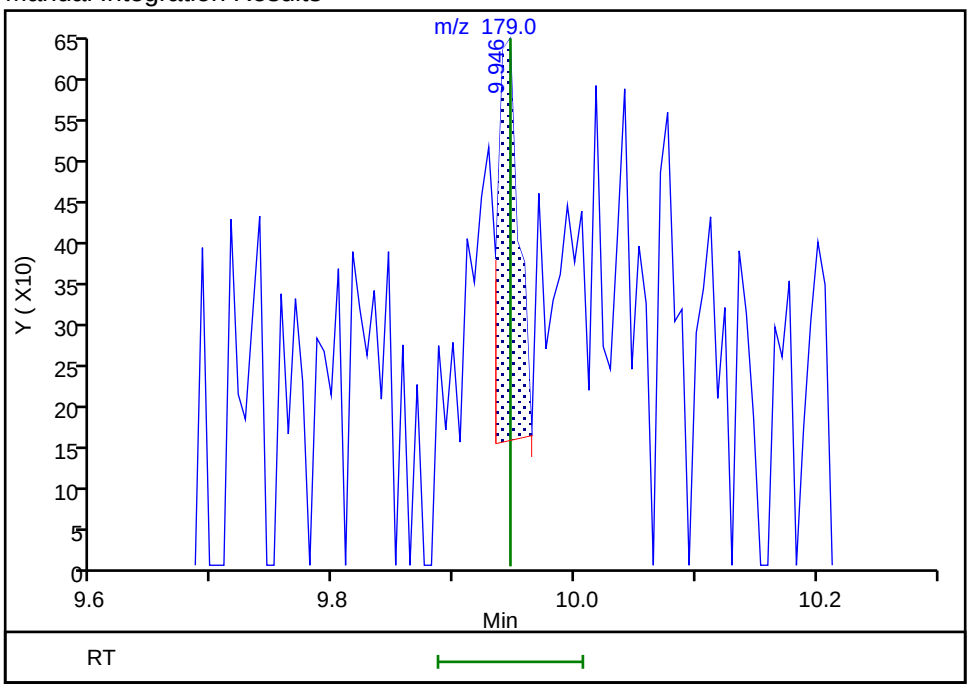
Processing Integration Results

RT: 9.95
Area: 592
Amount: 0.022962
Amount Units: ng/uL



Manual Integration Results

RT: 9.95
Area: 592
Amount: 0.022962
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:04:22 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

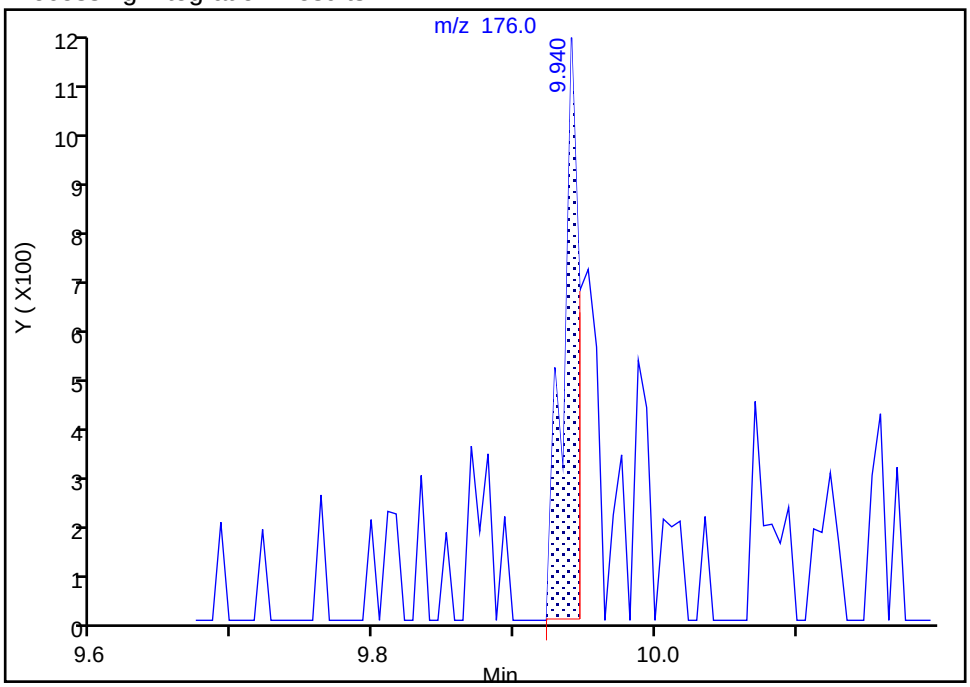
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04588.D				
Injection Date:	29-Oct-2024 19:01:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-1-A	Lab Sample ID:	480-224869-1		
Client ID:	MW-BCP-09A-10252024				
Operator ID:	JM	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

151 Phenanthrene, CAS: 85-01-8

Signal: 3

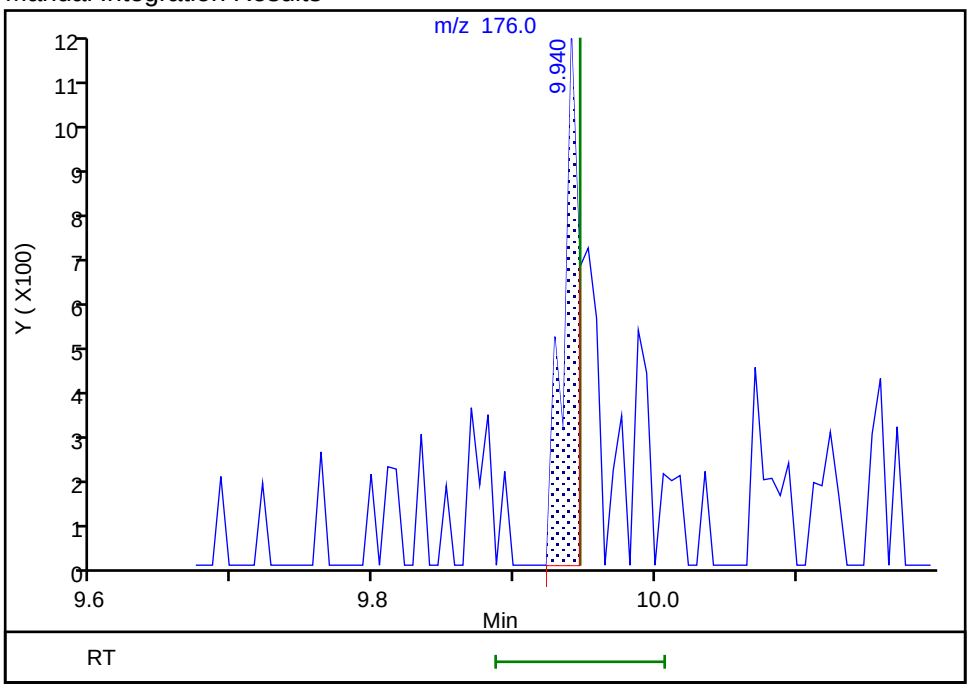
Processing Integration Results

RT: 9.94
Area: 908
Amount: 0.022962
Amount Units: ng/uL



Manual Integration Results

RT: 9.94
Area: 908
Amount: 0.022962
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:04:22 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 | Lab Sample ID: 480-224869-3

Matrix: Water | Lab File ID: Y04589.D

Analysis Method: 8270D | Date Collected: 10/24/2024 10:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 50(mL) | Date Analyzed: 10/29/2024 19:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	86	J	250	33
108-60-1	bis (2-chloroisopropyl) ether	ND		250	26
95-95-4	2,4,5-Trichlorophenol	ND		250	24
88-06-2	2,4,6-Trichlorophenol	ND		250	31
120-83-2	2,4-Dichlorophenol	ND		250	26
105-67-9	*2,4-Dimethylphenol*	*5300*	*E*	*250*	*25*
51-28-5	2,4-Dinitrophenol	ND		500	110
121-14-2	2,4-Dinitrotoluene	ND		250	22
606-20-2	2,6-Dinitrotoluene	ND		250	20
91-58-7	2-Chloronaphthalene	ND		250	23
95-57-8	2-Chlorophenol	ND		250	27
91-57-6	2-Methylnaphthalene	1000		250	30
95-48-7	*2-Methylphenol*	*6500*	*E*	*250*	*20*
88-74-4	2-Nitroaniline	ND		500	21
88-75-5	2-Nitrophenol	ND		250	24
91-94-1	3,3'-Dichlorobenzidine	ND		250	20
99-09-2	3-Nitroaniline	ND		500	24
534-52-1	4,6-Dinitro-2-methylphenol	ND		500	110
101-55-3	4-Bromophenyl phenyl ether	ND		250	23
59-50-7	4-Chloro-3-methylphenol	ND		250	23
106-47-8	4-Chloroaniline	ND		250	30
7005-72-3	4-Chlorophenyl phenyl ether	ND		250	18
106-44-5	*4-Methylphenol*	*7500*	*E*	*500*	*18*
100-01-6	4-Nitroaniline	ND		500	13
100-02-7	4-Nitrophenol	ND	*+	500	76
83-32-9	Acenaphthene	40	J	250	21
208-96-8	Acenaphthylene	720		250	19
98-86-2	Acetophenone	ND		250	27
120-12-7	Anthracene	100	J	250	14
1912-24-9	Atrazine	ND		250	23
100-52-7	Benzaldehyde	ND		250	13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 | Lab Sample ID: 480-224869-3

Matrix: Water | Lab File ID: Y04589.D

Analysis Method: 8270D | Date Collected: 10/24/2024 10:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 50(mL) | Date Analyzed: 10/29/2024 19:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	73	J	250	18
50-32-8	Benzo(a)pyrene	49	J	250	24
205-99-2	Benzo(b)fluoranthene	62	J	250	17
191-24-2	Benzo(g,h,i)perylene	25	J	250	18
207-08-9	Benzo(k)fluoranthene	ND		250	37
111-91-1	Bis(2-chloroethoxy)methane	ND		250	18
111-44-4	Bis(2-chloroethyl)ether	ND		250	20
117-81-7	Bis(2-ethylhexyl) phthalate	ND		250	110
85-68-7	Butyl benzyl phthalate	ND		250	50
105-60-2	Caprolactam	ND		250	110
86-74-8	Carbazole	530		250	15
218-01-9	Chrysene	68	J	250	17
84-74-2	Di-n-butyl phthalate	ND		250	16
117-84-0	Di-n-octyl phthalate	ND		250	24
53-70-3	Dibenz(a,h)anthracene	ND		250	21
132-64-9	Dibenzofuran	210	J	500	26
84-66-2	Diethyl phthalate	ND		250	11
131-11-3	Dimethyl phthalate	ND		250	18
206-44-0	Fluoranthene	190	J	250	20
86-73-7	Fluorene	280		250	18
118-74-1	Hexachlorobenzene	ND		250	26
87-68-3	Hexachlorobutadiene	ND		250	34
77-47-4	Hexachlorocyclopentadiene	ND		250	30
67-72-1	Hexachloroethane	ND		250	30
193-39-5	Indeno(1,2,3-cd)pyrene	24	J	250	24
78-59-1	Isophorone	ND		250	22
621-64-7	N-Nitrosodi-n-propylamine	ND		250	27
86-30-6	N-Nitrosodiphenylamine	ND		250	26
91-20-3	*Naphthalene*	*13000*	*E*	*250*	*38*
98-95-3	Nitrobenzene	ND		250	15
87-86-5	Pentachlorophenol	ND		500	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 | Lab Sample ID: 480-224869-3

Matrix: Water | Lab File ID: Y04589.D

Analysis Method: 8270D | Date Collected: 10/24/2024 10:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 50(mL) | Date Analyzed: 10/29/2024 19:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	420		250	22
108-95-2	Phenol	3100		250	20
129-00-0	Pyrene	130	J	250	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	93		25-144
321-60-8	2-Fluorobiphenyl	71		53-126
367-12-4	2-Fluorophenol	0	S1-	24-120
4165-60-0	Nitrobenzene-d5	73		29-129
1718-51-0	p-Terphenyl-d14	66		33-132
4165-62-2	Phenol-d5	44		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D
Lims ID: 480-224869-B-3-A
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 29-Oct-2024 19:29:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 480-0120882-020
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 08:00:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.887	5.886	0.001	96	168787	4.00	
* 2 Naphthalene-d8	136	7.097	7.089	0.008	99	704460	4.00	
* 3 Acenaphthene-d10	164	8.650	8.648	0.002	93	379486	4.00	
* 4 Phenanthrene-d10	188	9.924	9.929	-0.005	98	619131	4.00	
* 5 Chrysene-d12	240	12.775	12.774	0.001	99	535337	4.00	
* 6 Perylene-d12	264	14.465	14.463	0.002	97	593065	4.00	
$ 7 2-Fluorophenol	112		4.641				ND	
$ 8 Phenol-d5	99	5.526	5.527	0.002	86	22500	0.3502	
$ 9 Nitrobenzene-d5	82	6.415	6.410	0.001	96	36431	0.5819	
$ 10 2-Fluorobiphenyl	172	8.033	8.040	-0.005	97	74223	0.5691	
$ 11 2,4,6-Tribromophenol	330	9.331	9.327	0.001	86	9043	0.7472	
$ 12 p-Terphenyl-d14	244	11.483	11.484	0.001	97	76704	0.5286	
35 Benzaldehyde	77		5.471				ND	U
37 Phenol	94	5.538	5.538	0.002	93	1002331	15.3	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108	6.113	6.111	0.002	96	1613819	32.6	E
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.261	6.314	0.007	84	1942503	37.7	E
52 Acetophenone	105		6.265				ND	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107	6.759	6.751	0.008	95	1612881	26.3	E
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.114	7.113	0.007	97	11799015	63.4	Ee
76 4-Chloroaniline	127		7.149				ND	U
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113		7.463				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	U
87 2-Methylnaphthalene	142	7.731	7.726	0.001	90	601791	5.24	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154	8.128	8.132	-0.005	98	59938	0.4305	
97 2-Chloronaphthalene	162		8.162				ND	U
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152	8.531	8.532	0.001	98	606975	3.61	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153	8.679	8.675	0.001	95	22719	0.2019	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	U
115 Dibenzofuran	168	8.822	8.829	-0.004	95	160135	1.05	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166	9.118	9.125	-0.005	95	176786	1.39	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	U
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.948	9.946	0.001	98	363437	2.12	
152 Anthracene	178	9.989	10.001	0.001	95	87638	0.5117	a
153 Carbazole	167	10.120	10.149	0.002	97	406150	2.67	
157 Di-n-butyl phthalate	149		10.356				ND	
164 Fluoranthene	202	11.110	11.104	0.002	98	176739	0.9727	
167 Pyrene	202	11.371	11.366	0.002	97	117974	0.6580	
174 Butyl benzyl phthalate	149		12.009				ND	U
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228	12.758	12.764	-0.004	99	66447	0.3625	
182 Chrysene	228	12.805	12.809	-0.005	97	57357	0.3425	
184 Di-n-octyl phthalate	149		13.420				ND	
186 Benzo[b]fluoranthene	252	14.014	14.019	0.007	97	55409	0.3109	
187 Benzo[k]fluoranthene	252	14.038	14.037	0.001	90	24413	0.1284	Ma
189 Benzo[a]pyrene	252	14.400	14.401	0.002	80	38037	0.2468	
194 Dibenz(a,h)anthracene	278	15.935	15.941	-0.004	83	8808	0.0748	
193 Indeno[1,2,3-cd]pyrene	276	15.953	15.942	0.008	93	20927	0.1204	
195 Benzo[g,h,i]perylene	276	16.403	16.417	0.007	94	17776	0.1254	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284	Amount Added:	20.00	Units: uL	Run Reagent

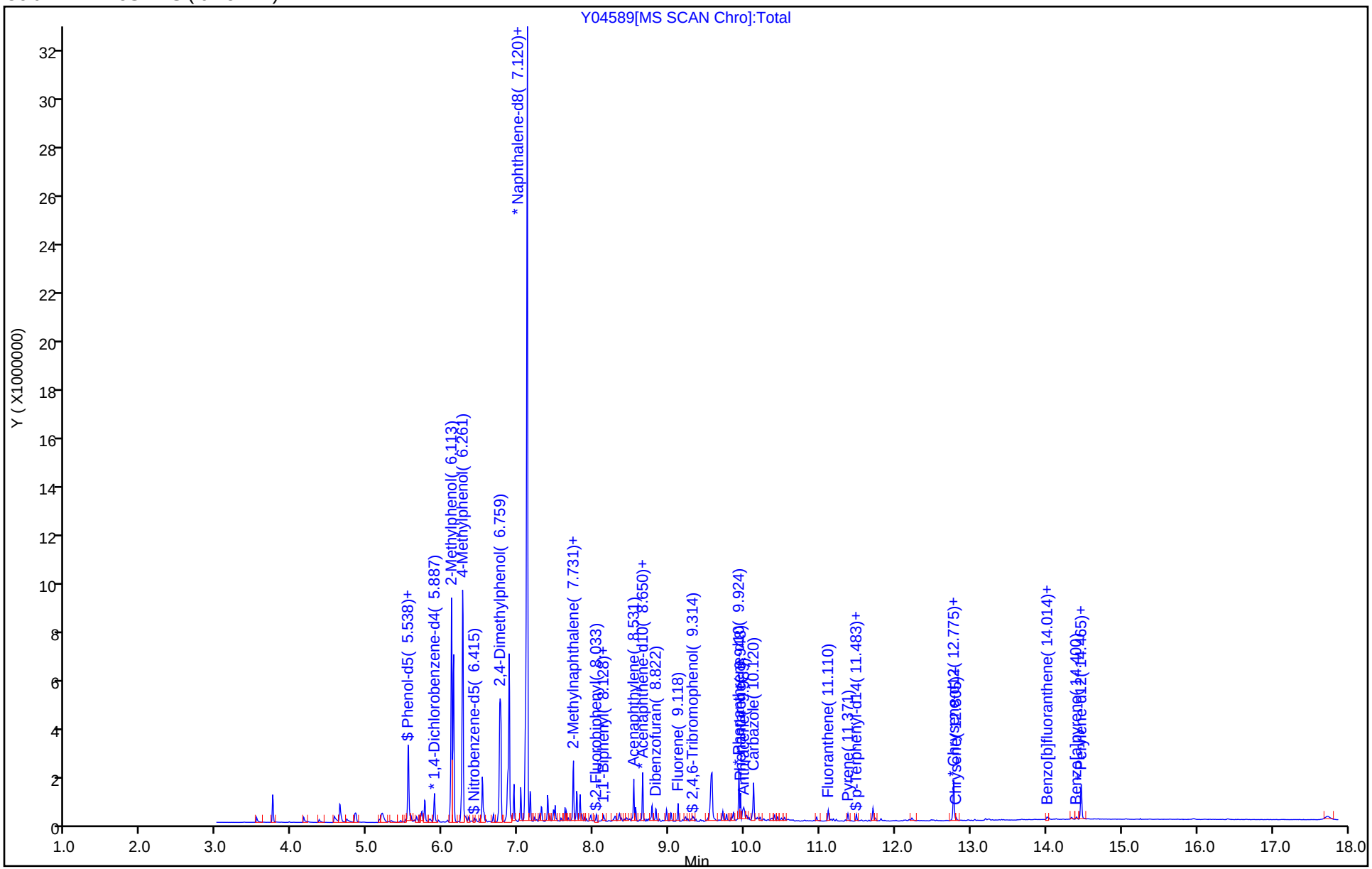
Report Date: 30-Oct-2024 15:17:02 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3	Worklist Smp#:	20
Client ID:	MW-BCP-10A-10242024				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	20
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D
Lims ID: 480-224869-B-3-A
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 29-Oct-2024 19:29:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 480-0120882-020
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 08:00:45

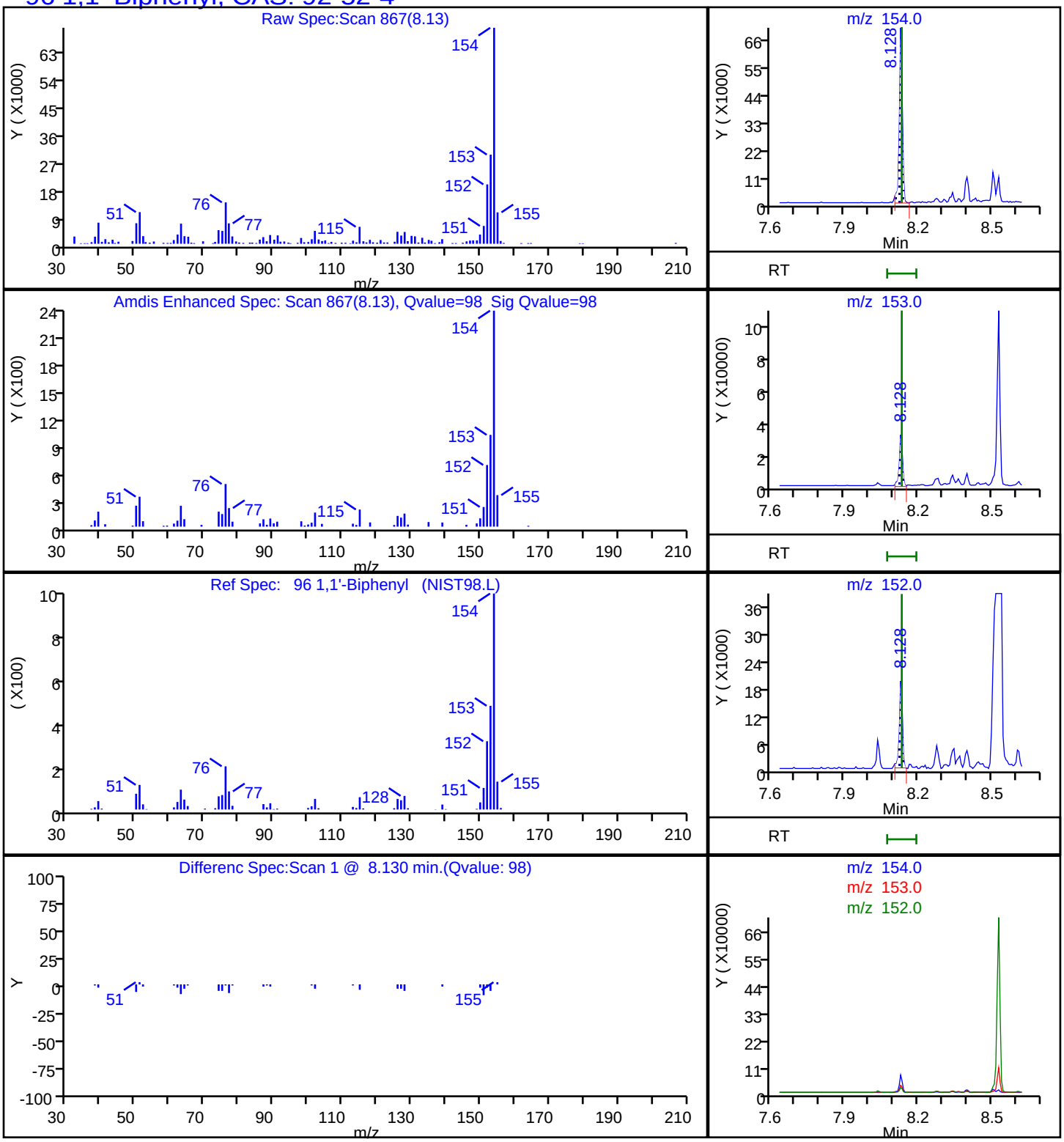
Compound	Amount Added	Amount Recovered	% Rec.
$ 8 Phenol-d5	8.00	0.3502	43.77
$ 9 Nitrobenzene-d5	8.00	0.5819	72.74
$ 10 2-Fluorobiphenyl	8.00	0.5691	71.13
$ 11 2,4,6-Tribromophenol	8.00	0.7472	93.40
$ 12 p-Terphenyl-d14	8.00	0.5286	66.07

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

96 1,1'-Biphenyl, CAS: 92-52-4



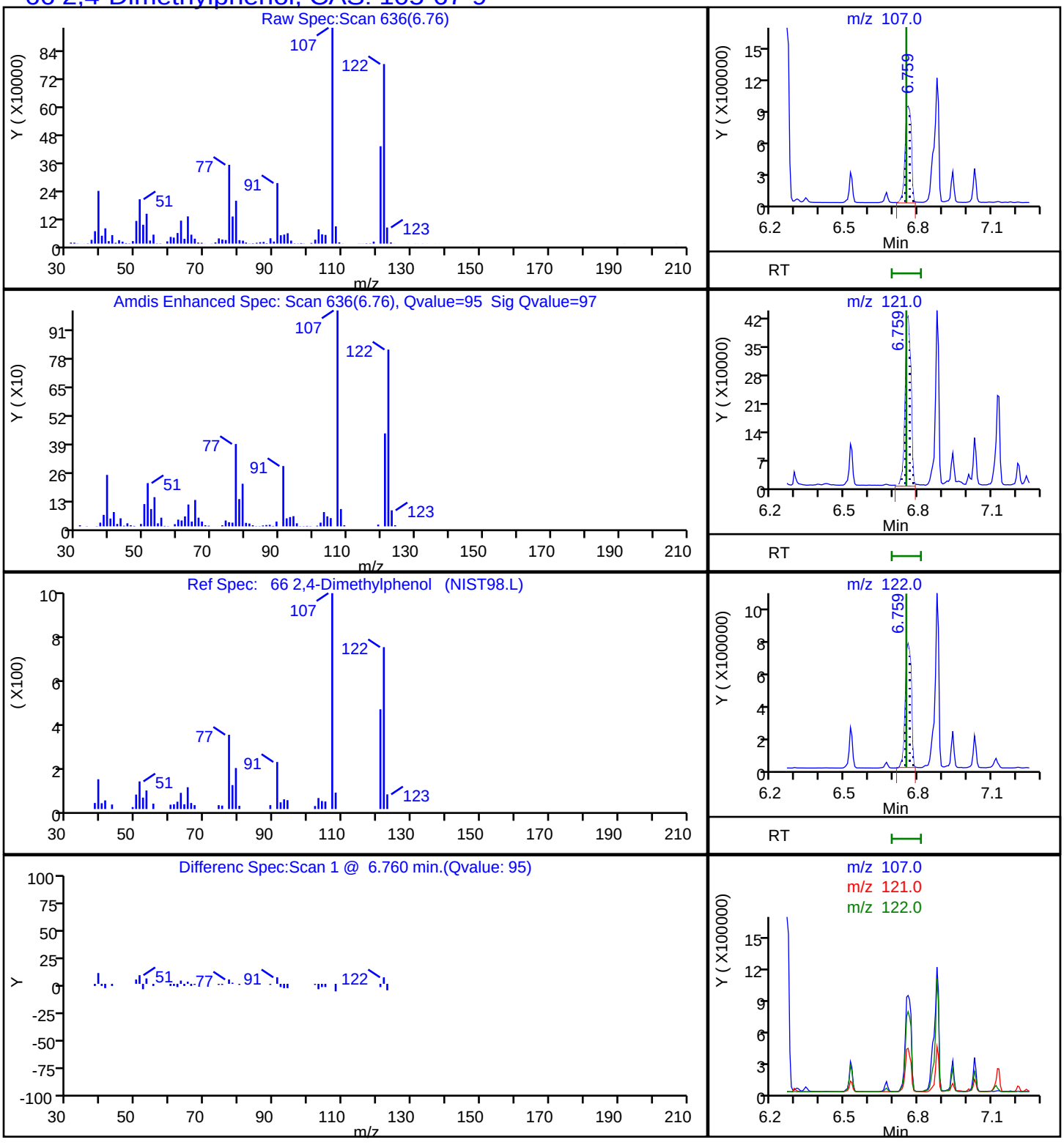
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dimethylphenol, CAS: 105-67-9

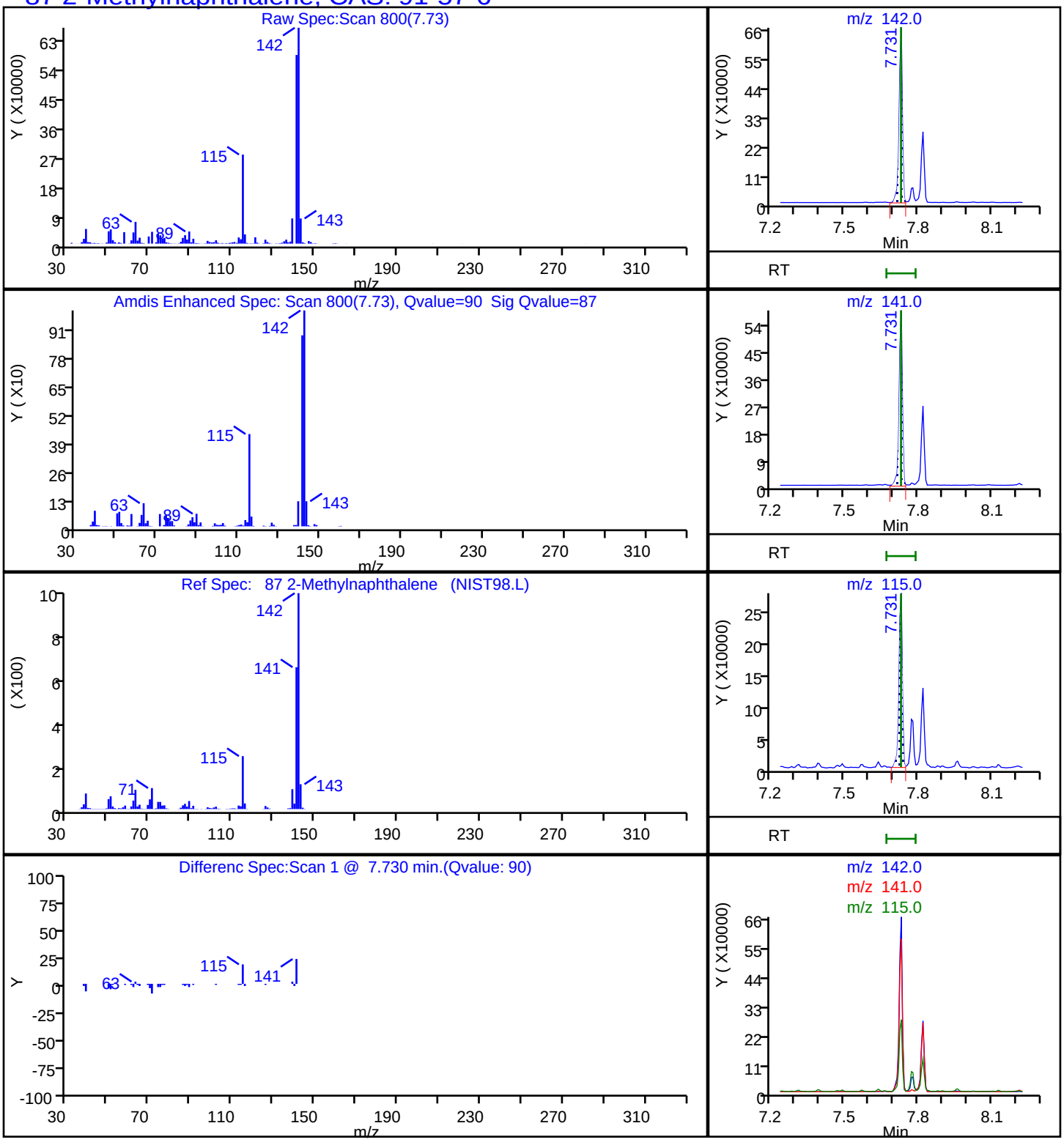


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

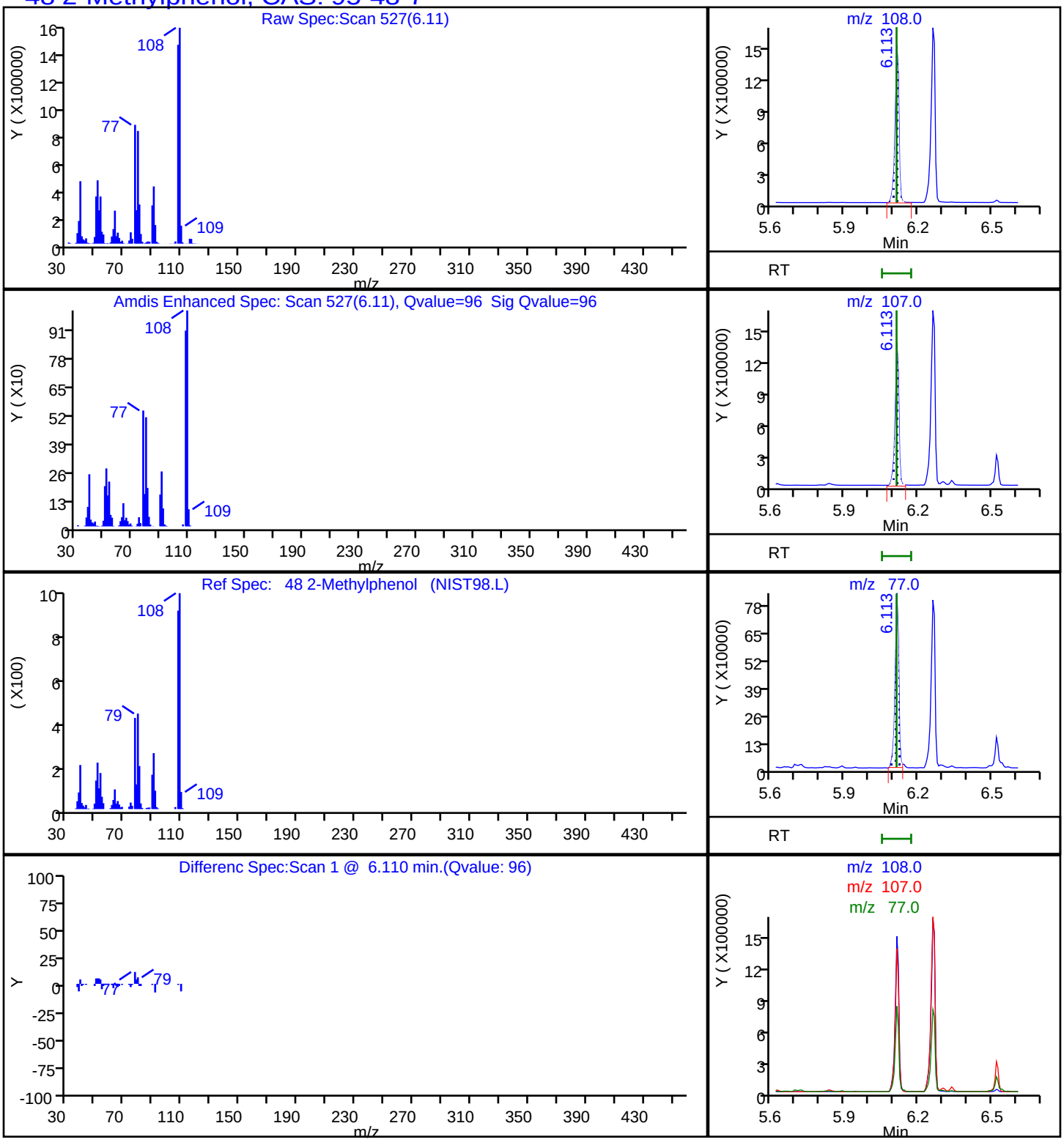
87 2-Methylnaphthalene, CAS: 91-57-6



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D
Injection Date: 29-Oct-2024 19:29:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-3-A Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: JM ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

48 2-Methylphenol, CAS: 95-48-7



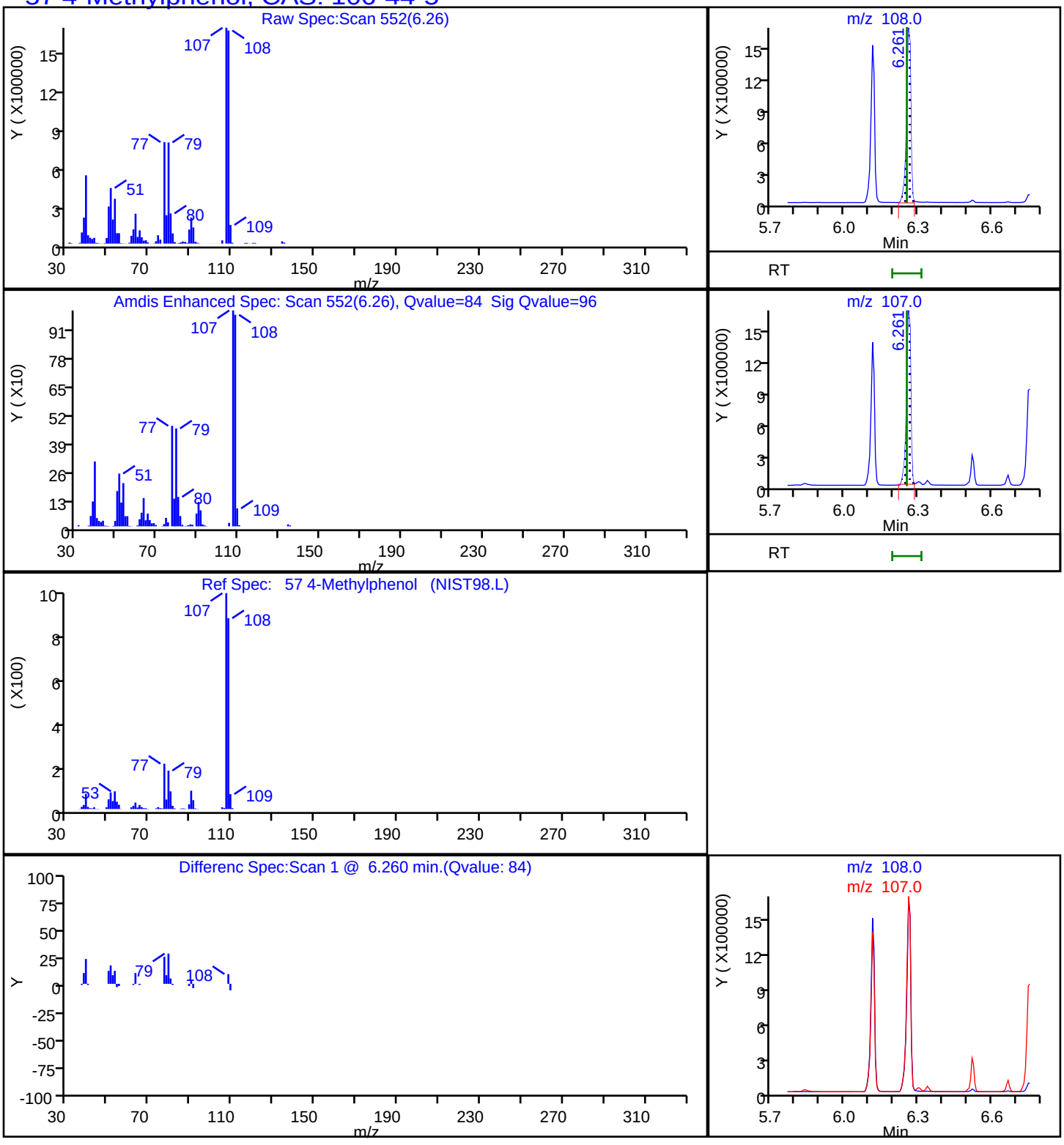
Report Date: 30-Oct-2024 15:17:02 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

57 4-Methylphenol, CAS: 106-44-5



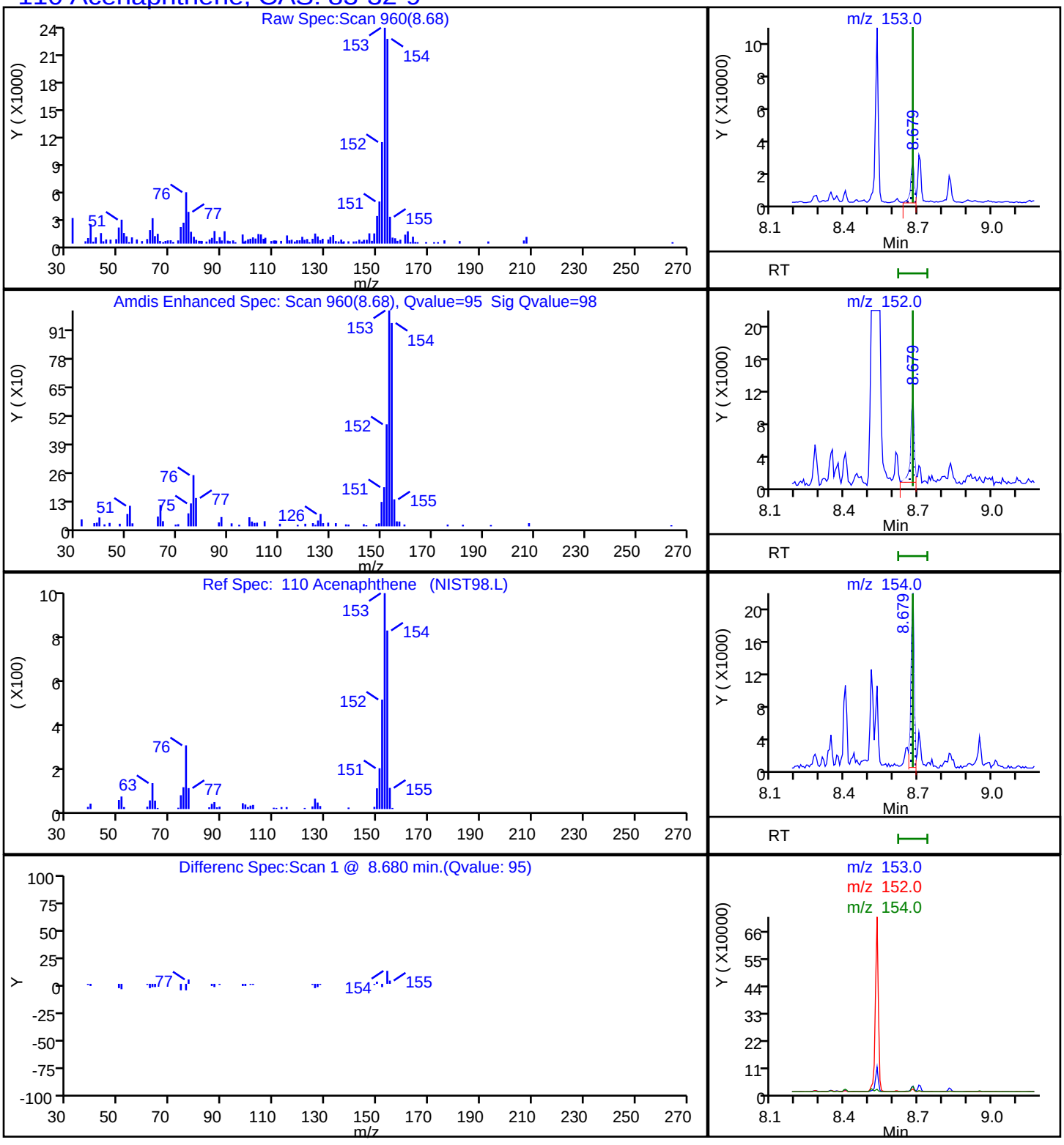
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

110 Acenaphthene, CAS: 83-32-9



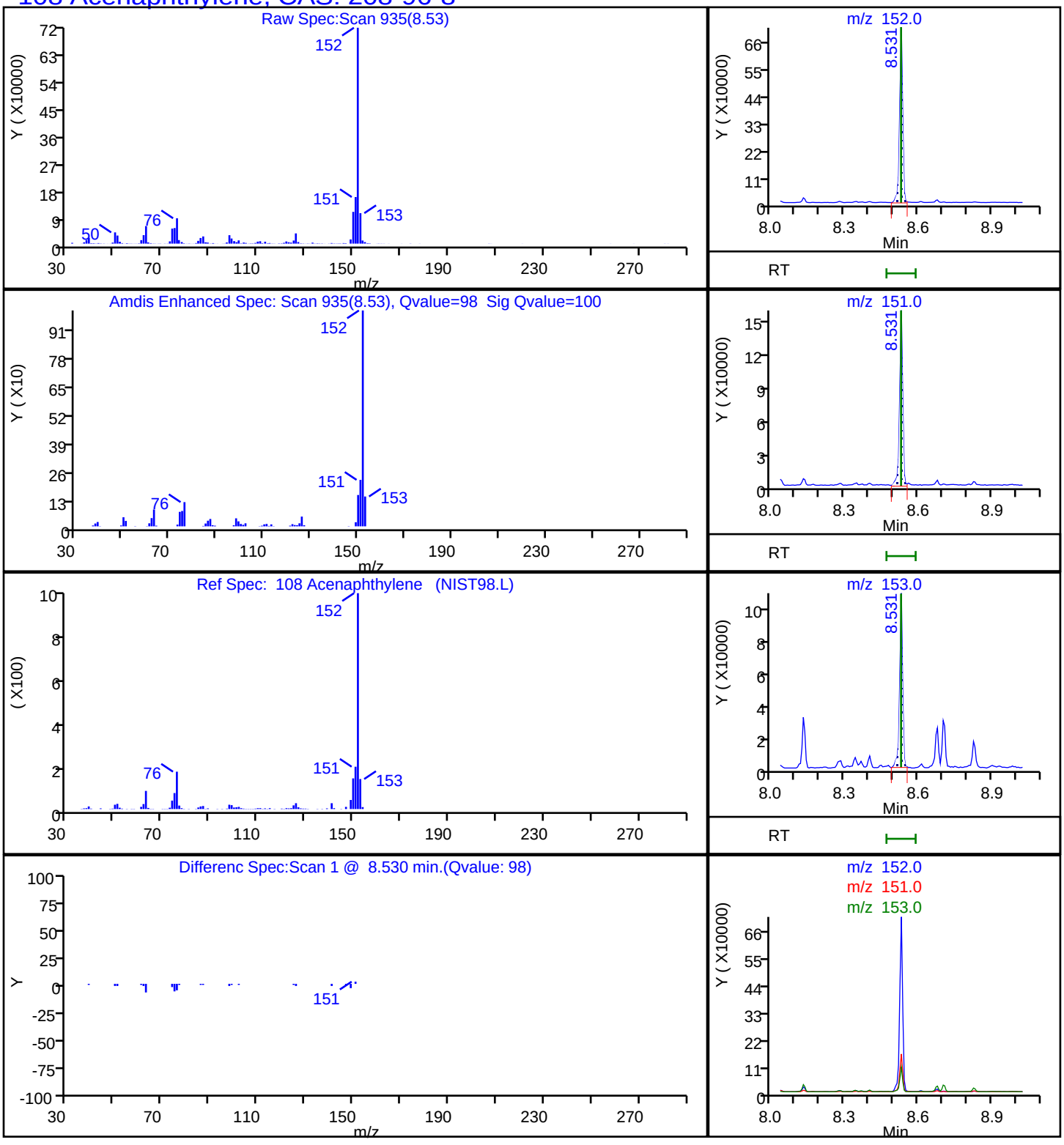
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

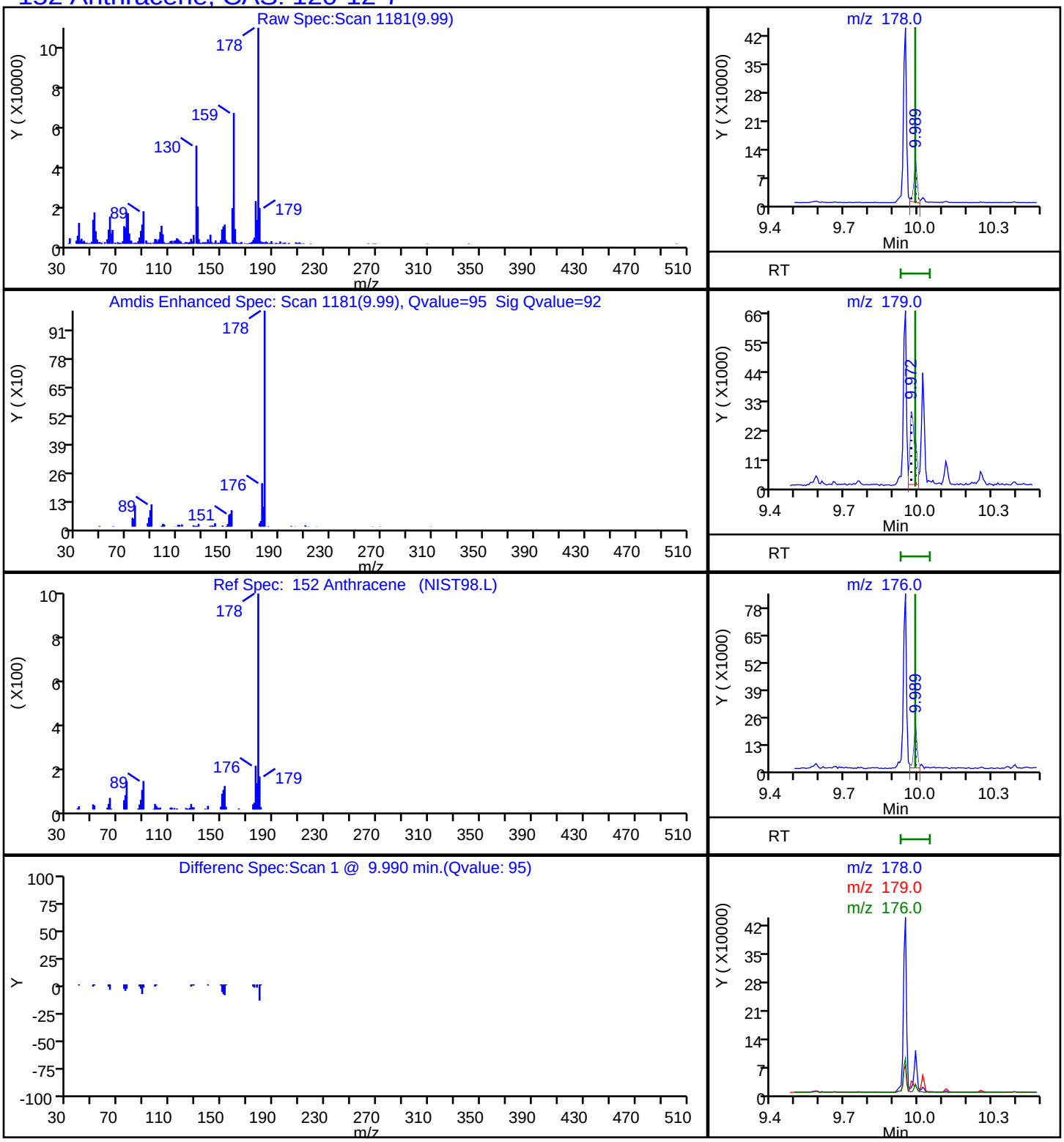
108 Acenaphthylene, CAS: 208-96-8



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D
Injection Date: 29-Oct-2024 19:29:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-3-A Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: JM ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

152 Anthracene, CAS: 120-12-7



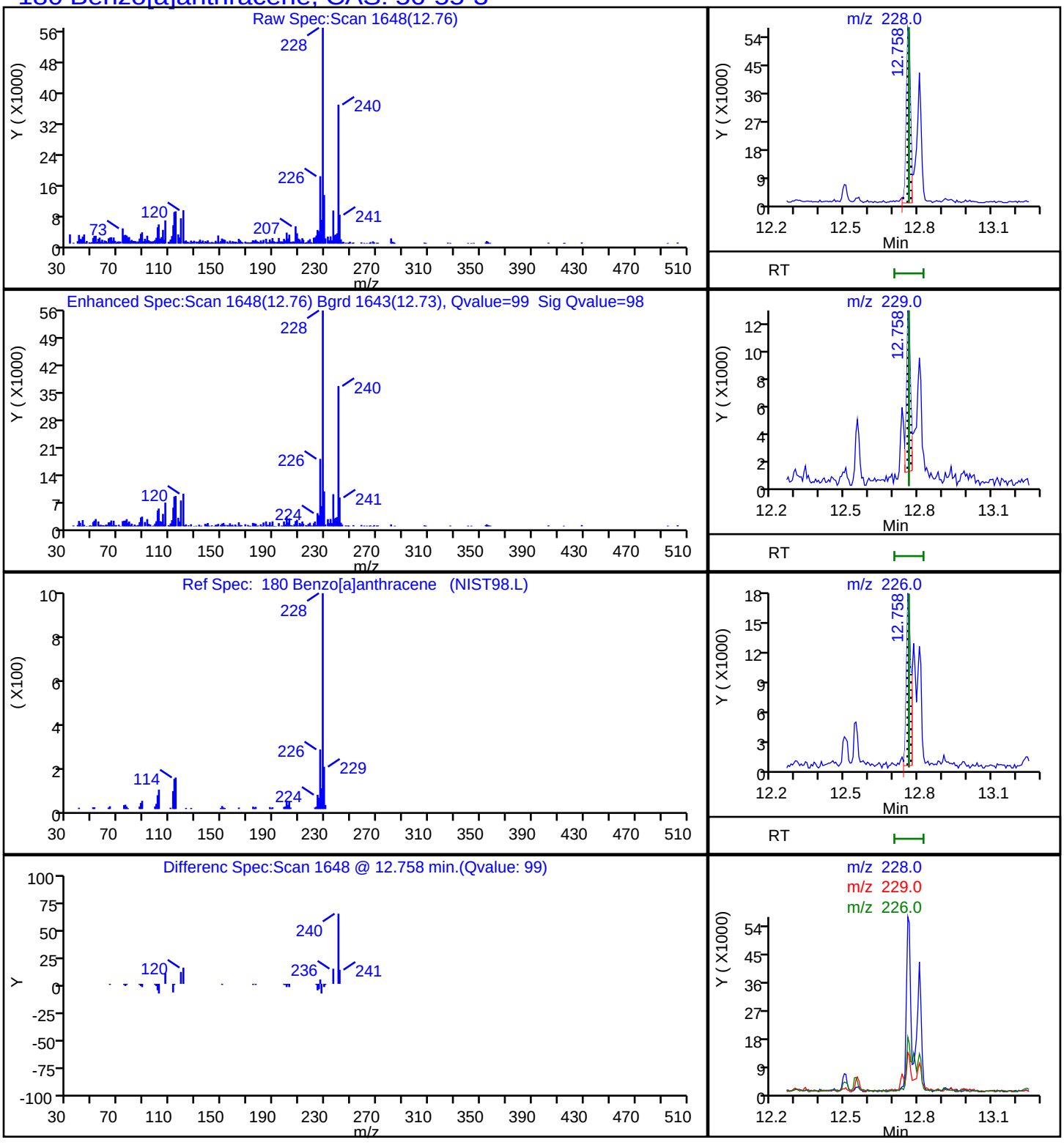
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

180 Benzo[a]anthracene, CAS: 56-55-3



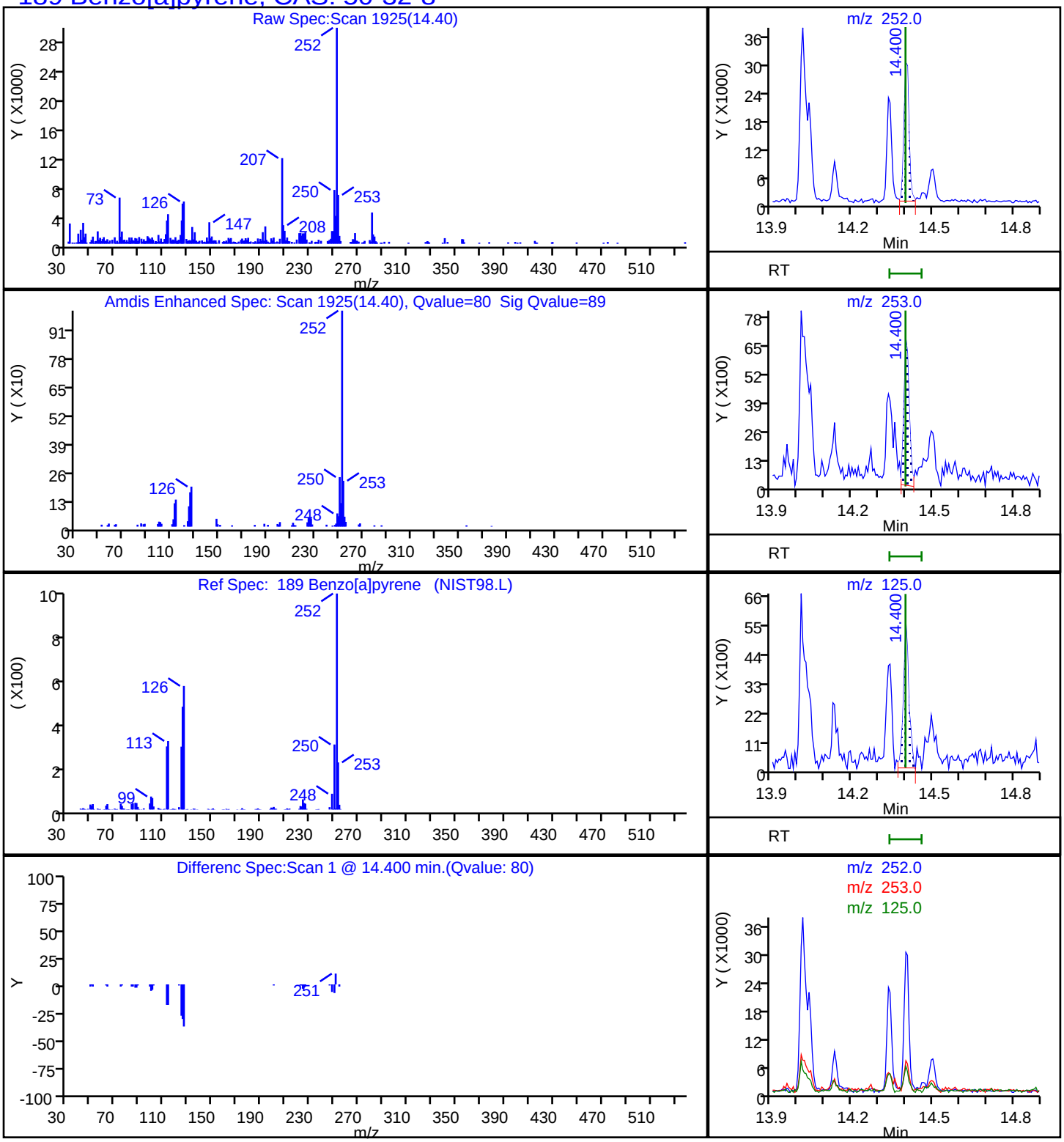
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

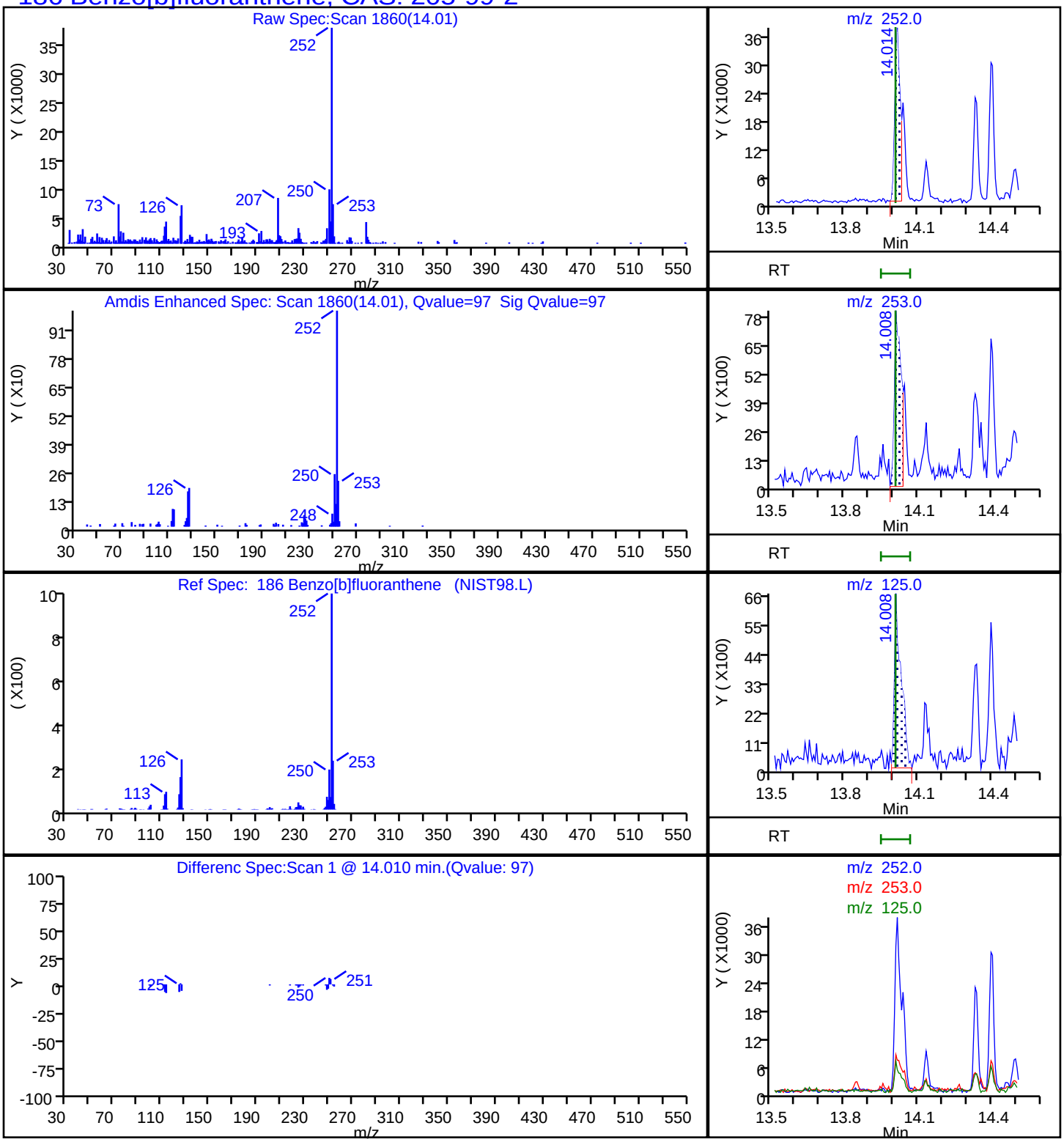
189 Benzo[a]pyrene, CAS: 50-32-8



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

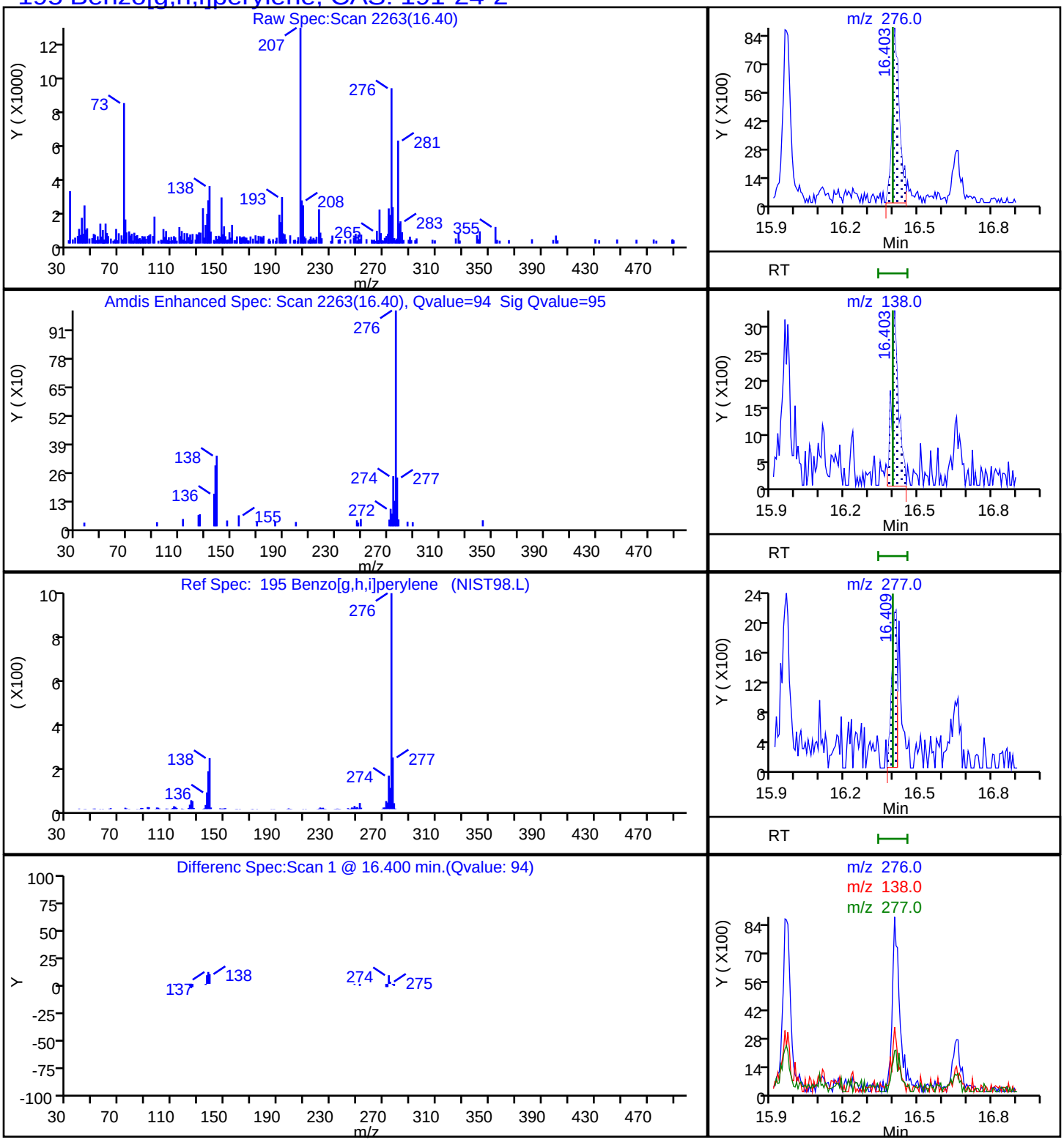
186 Benzo[b]fluoranthene, CAS: 205-99-2



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D
Injection Date: 29-Oct-2024 19:29:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-3-A Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: JM ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

195 Benzo[g,h,i]perylene, CAS: 191-24-2



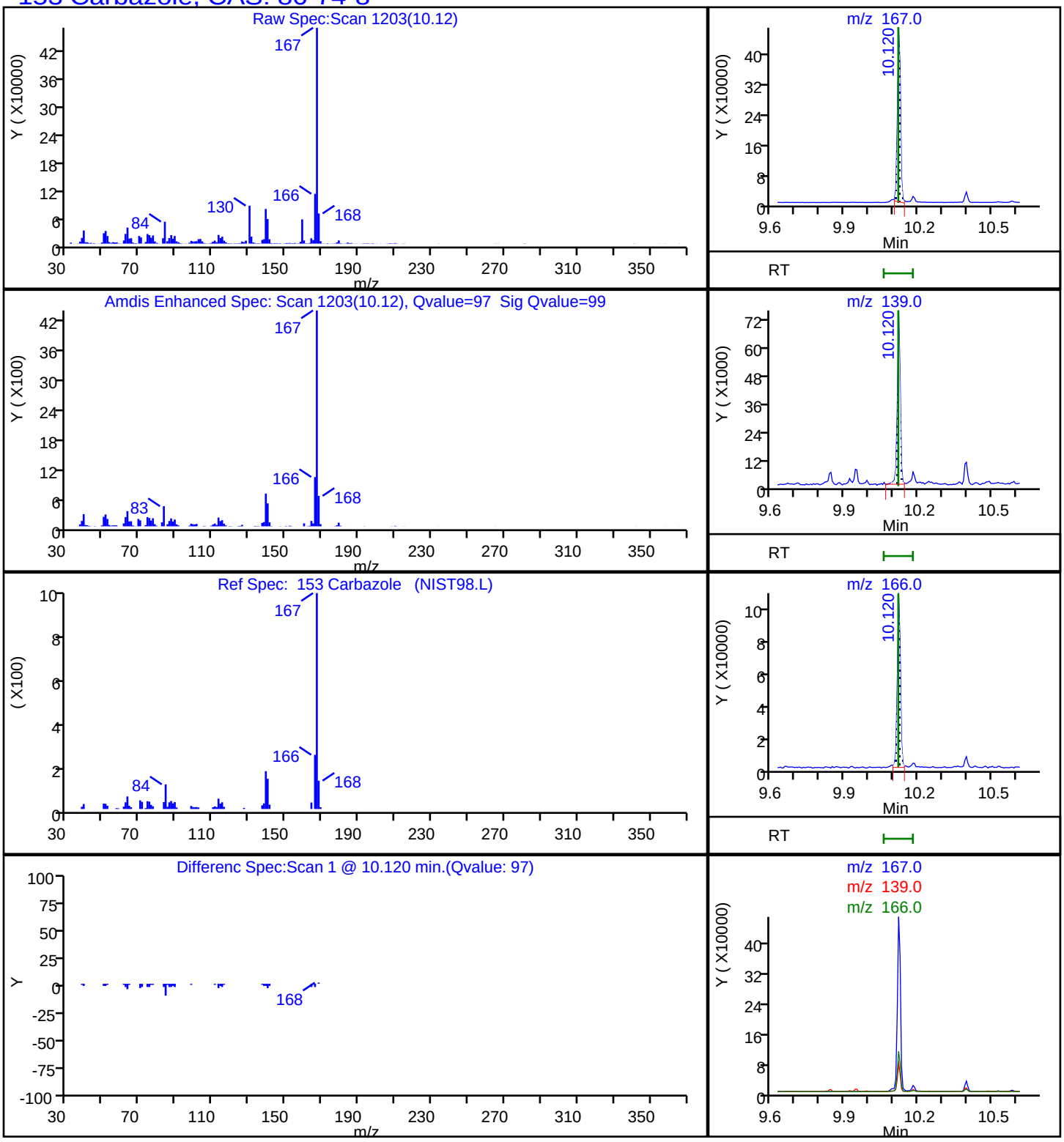
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

153 Carbazole, CAS: 86-74-8

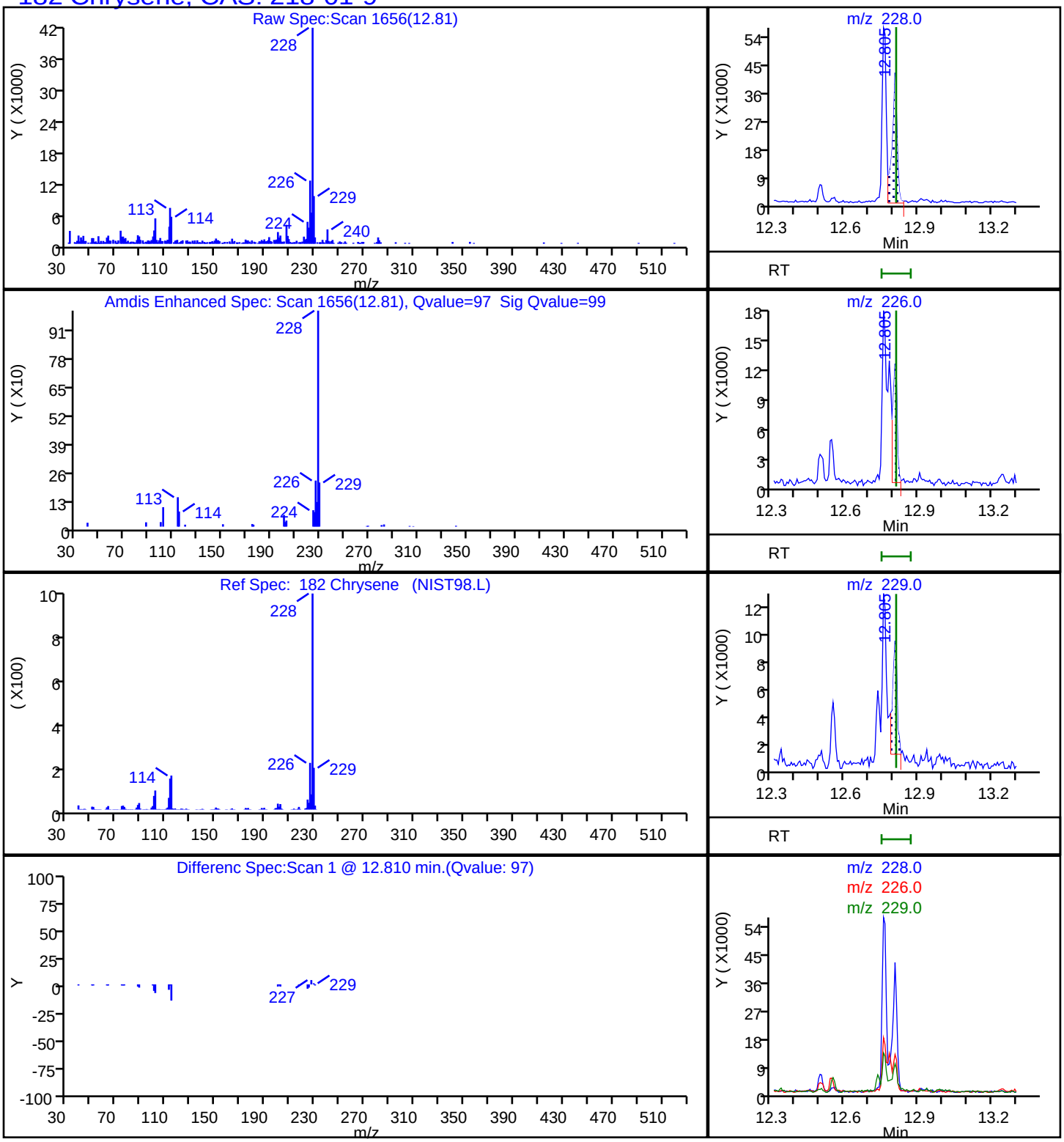


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

182 Chrysene, CAS: 218-01-9

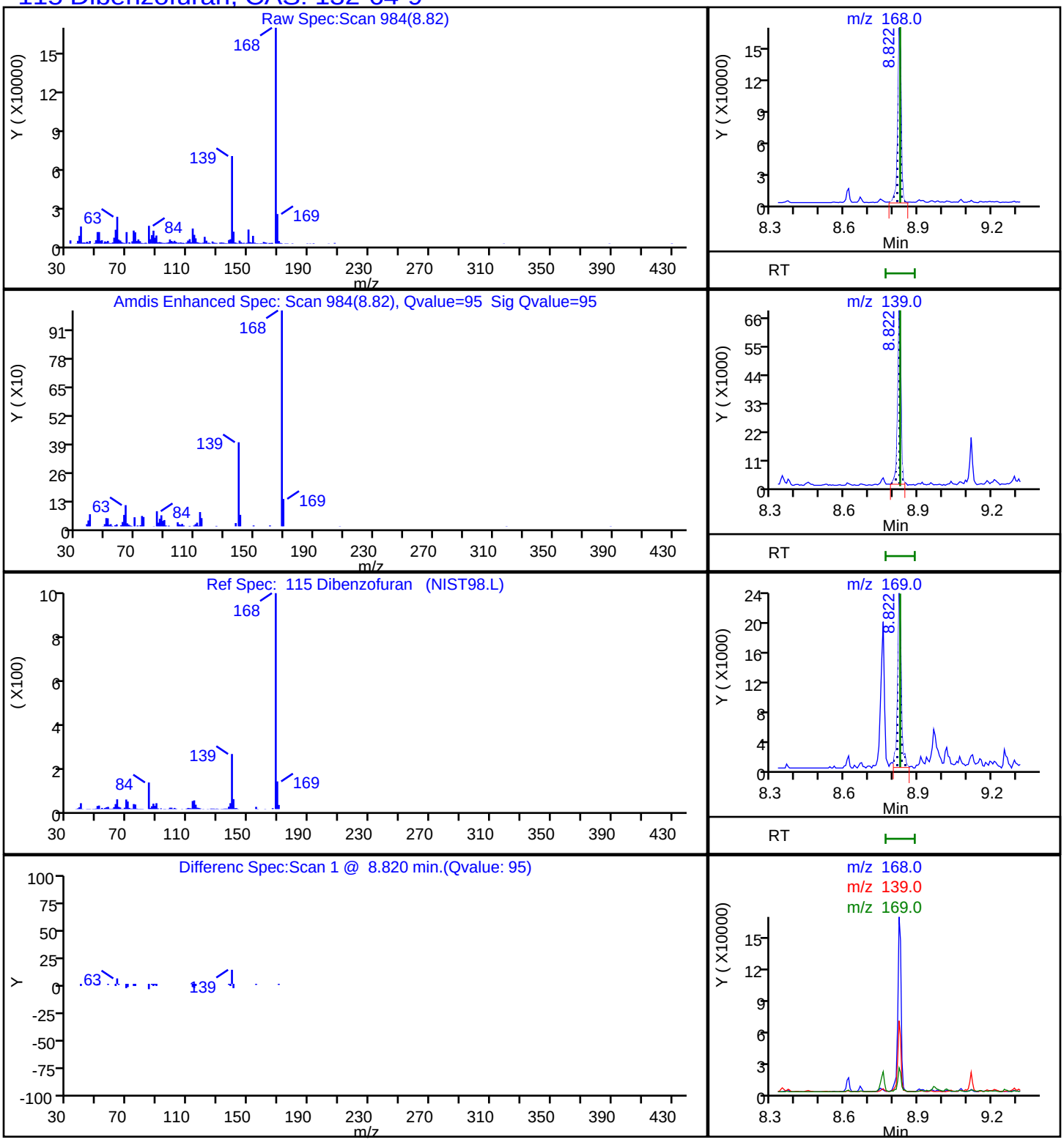


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

115 Dibenzofuran, CAS: 132-64-9



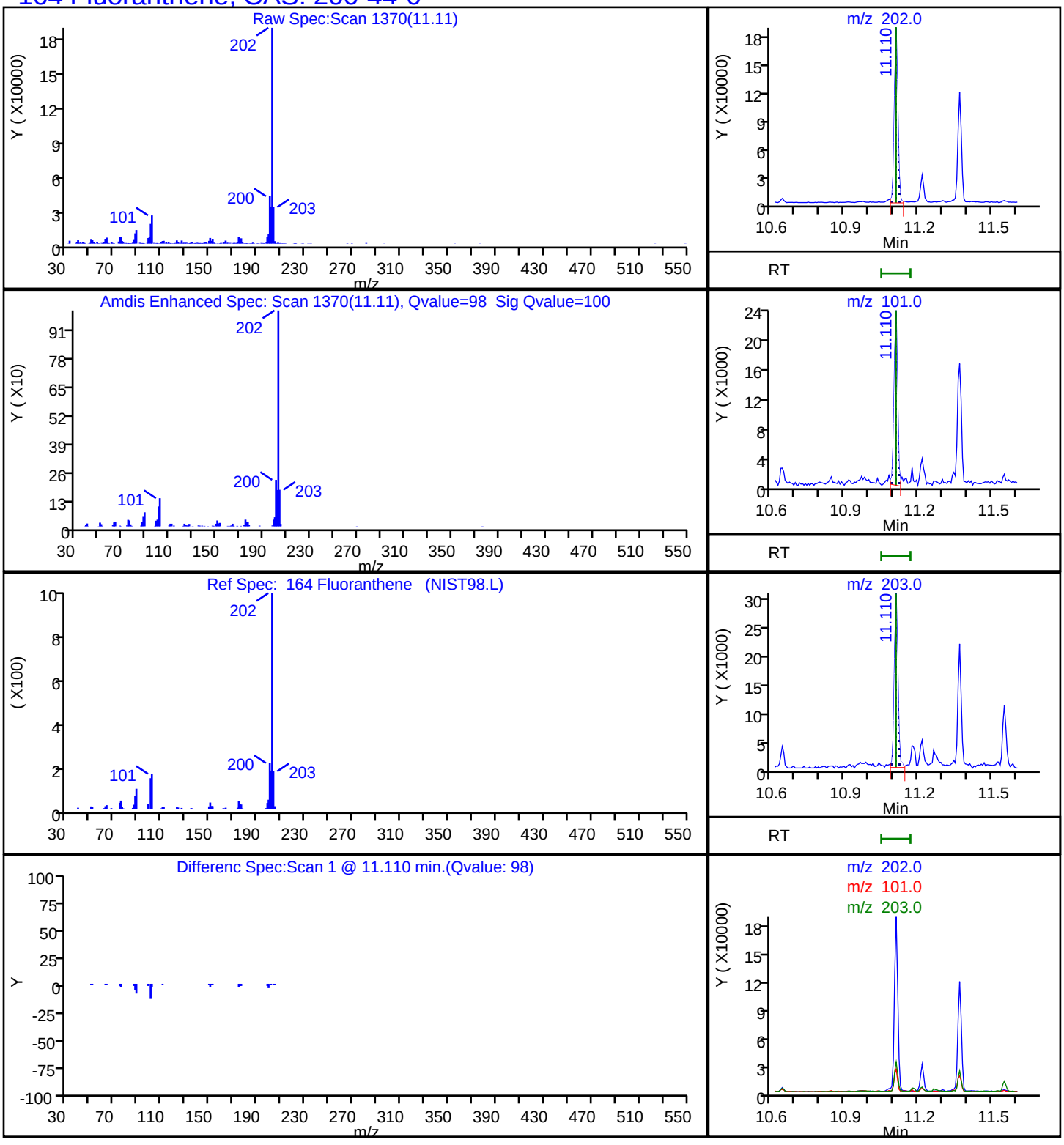
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

164 Fluoranthene, CAS: 206-44-0



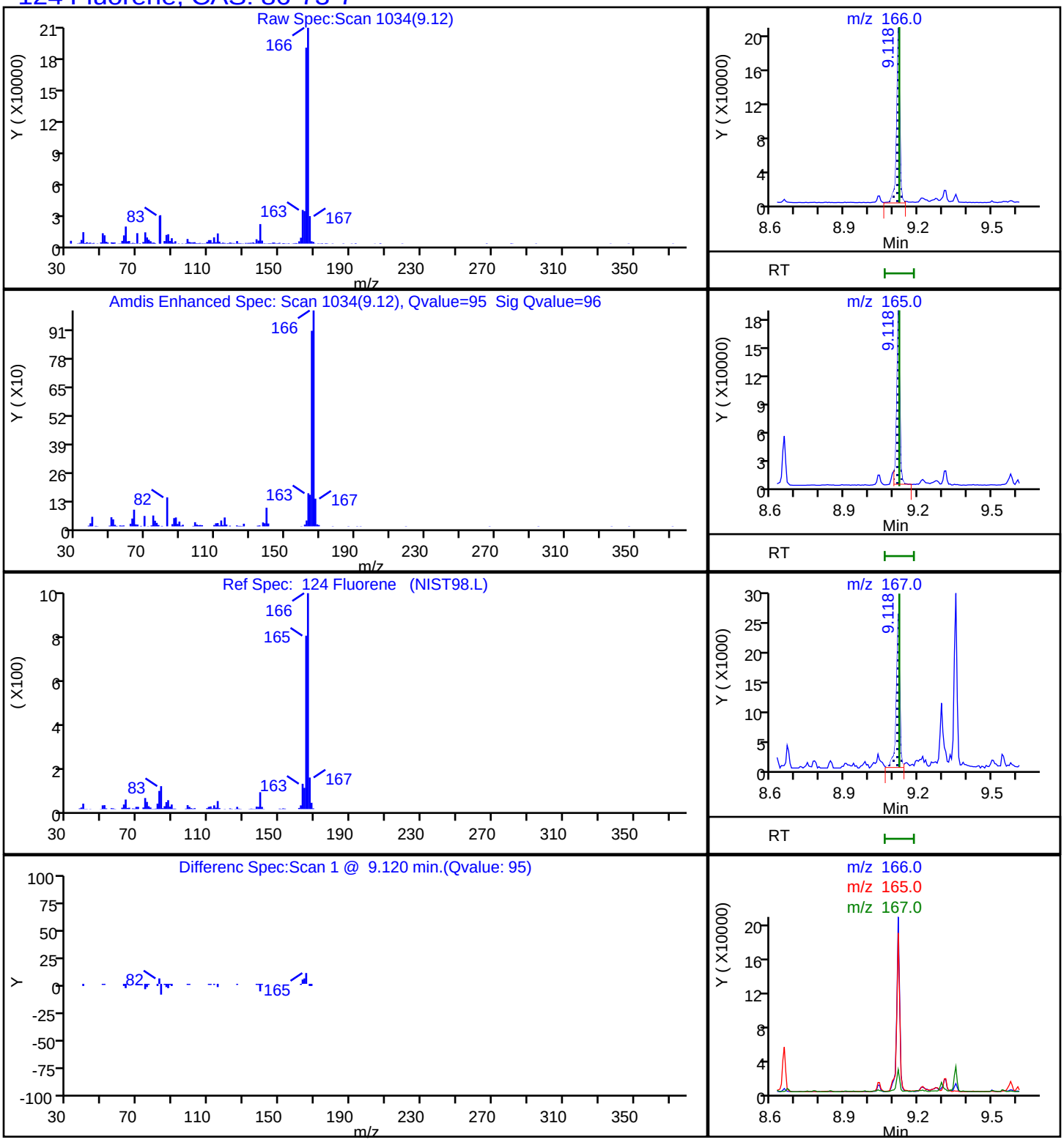
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

124 Fluorene, CAS: 86-73-7



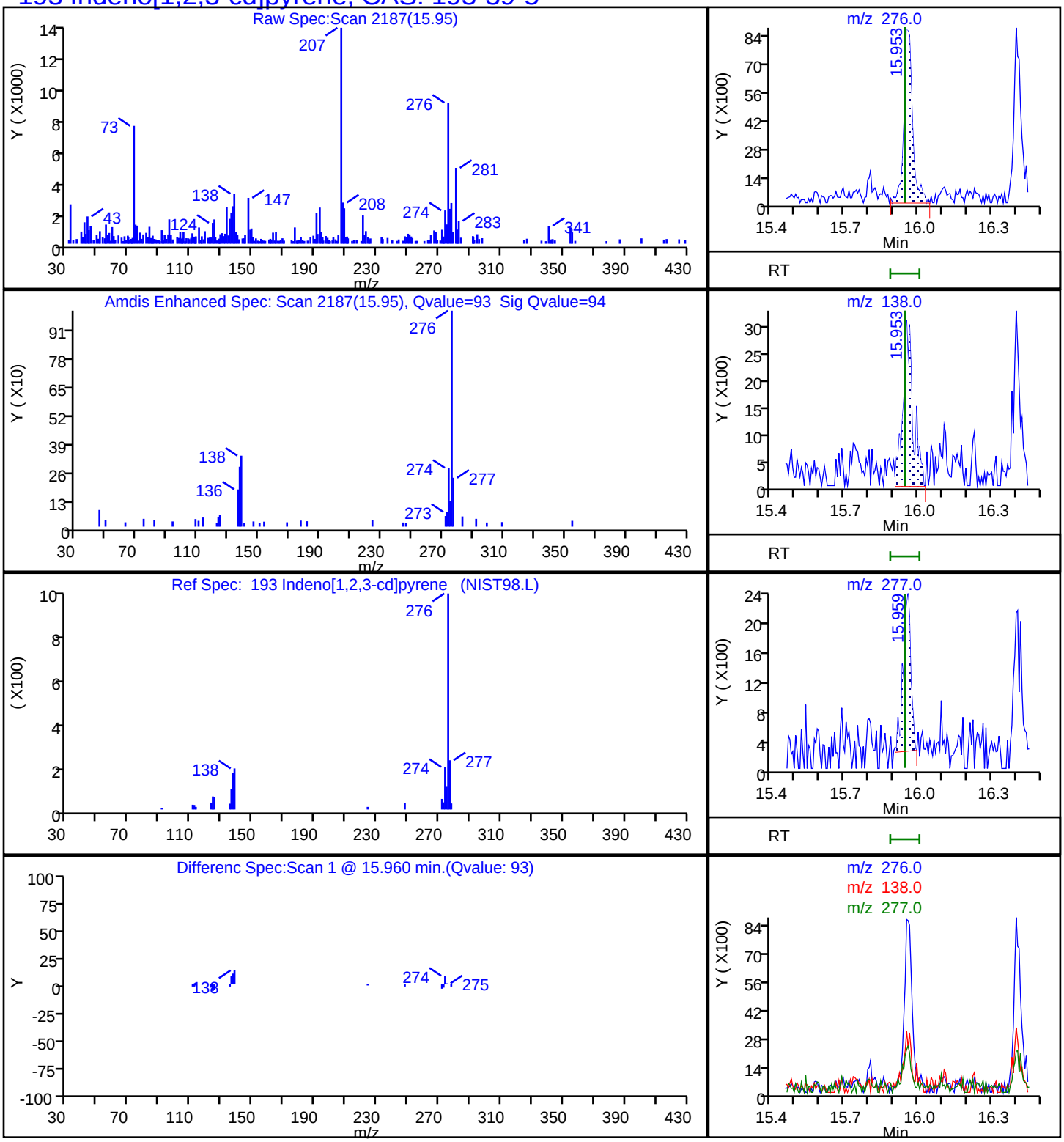
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

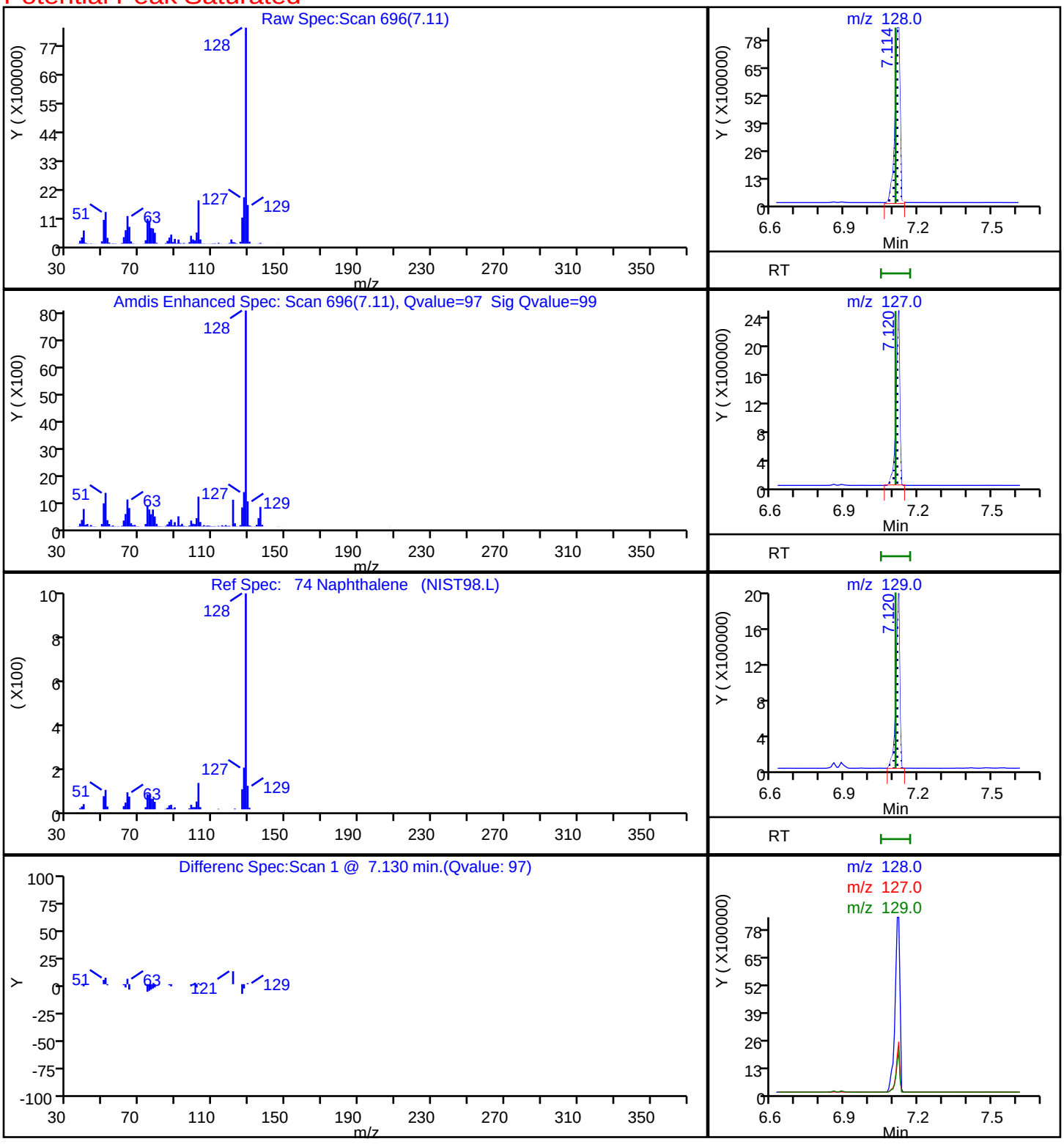
Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3

Potential Peak Saturated



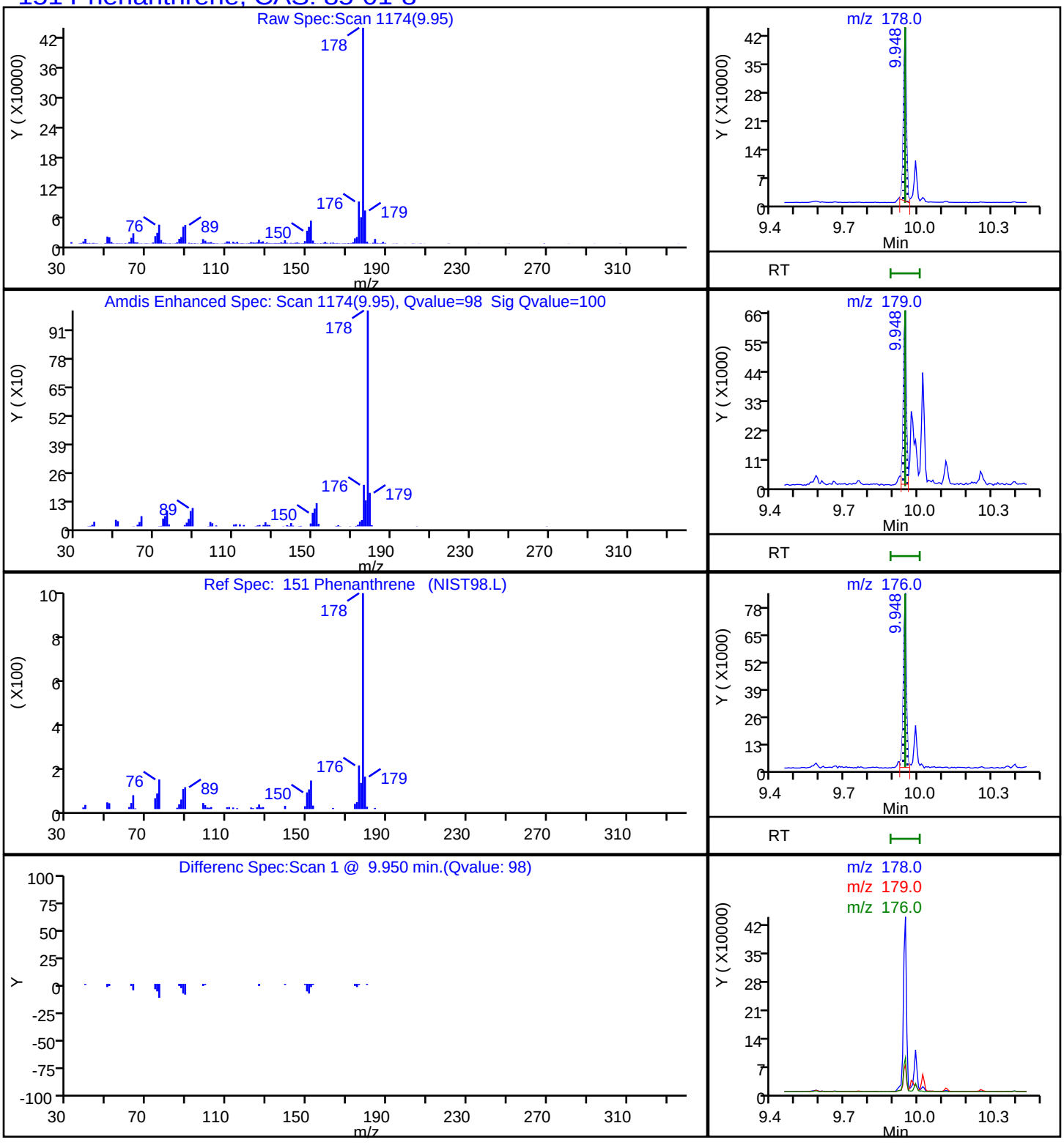
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

151 Phenanthrene, CAS: 85-01-8



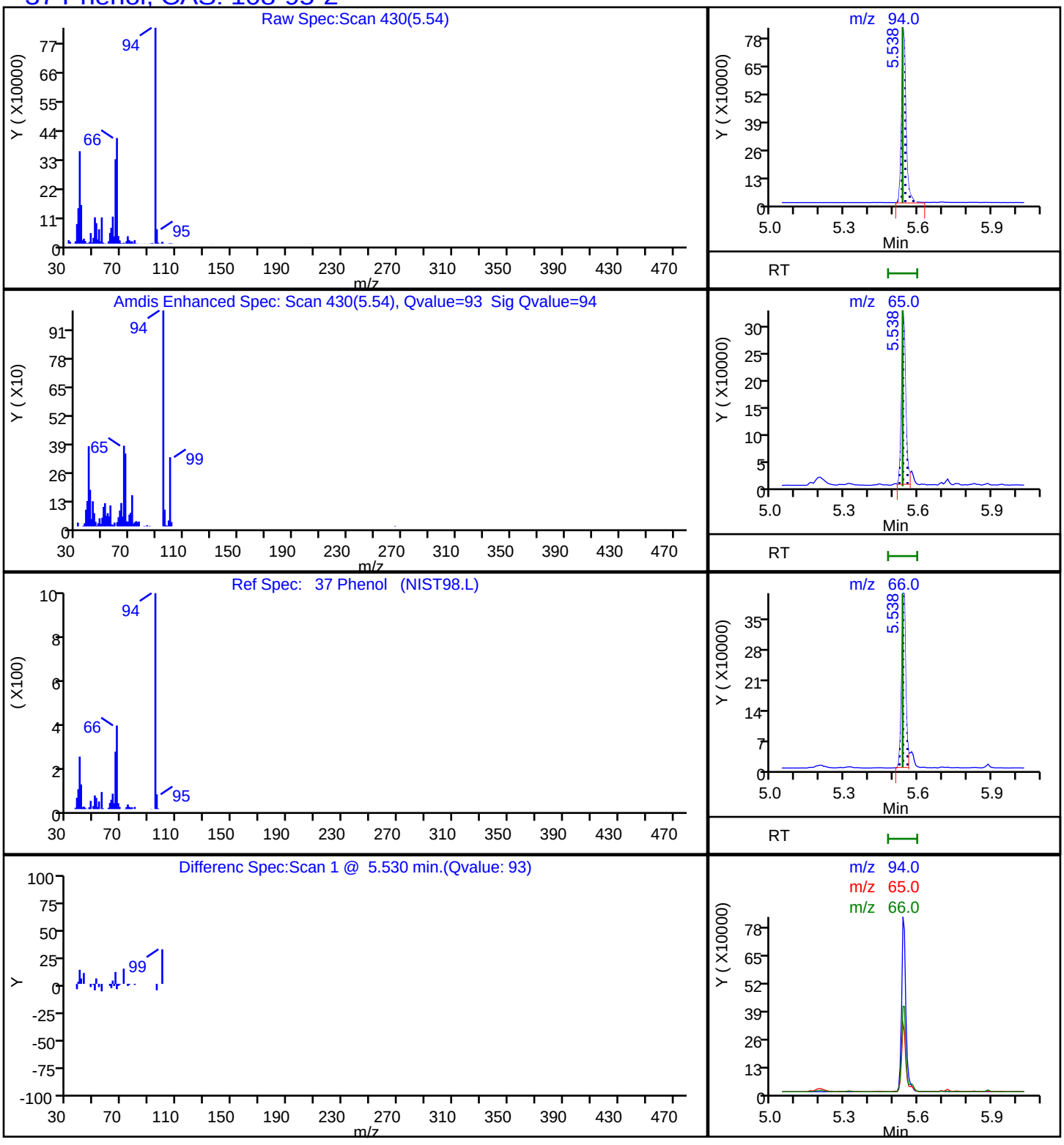
Report Date: 30-Oct-2024 15:17:02 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

37 Phenol, CAS: 108-95-2



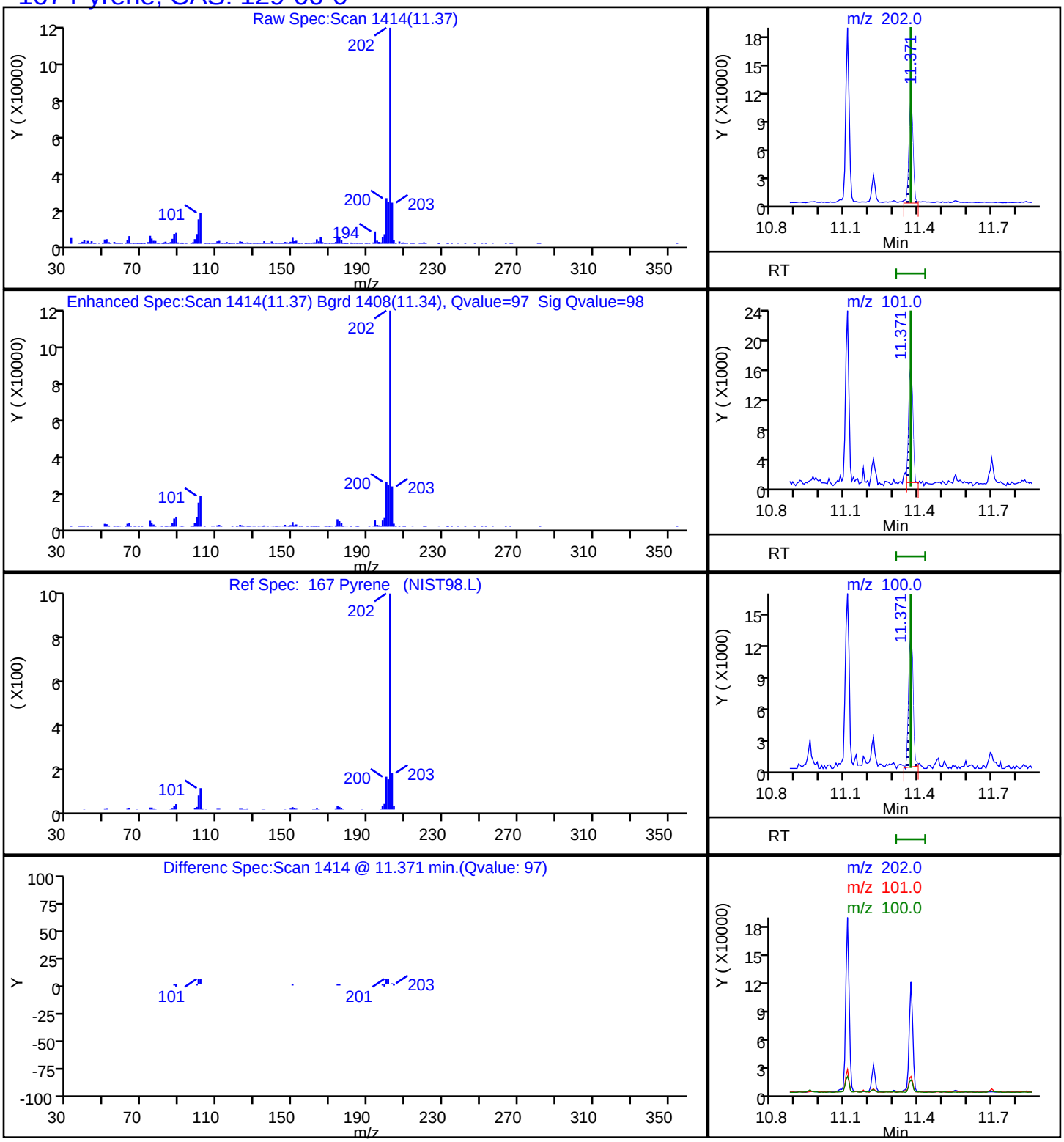
Report Date: 30-Oct-2024 15:17:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D

Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

167 Pyrene, CAS: 129-00-0



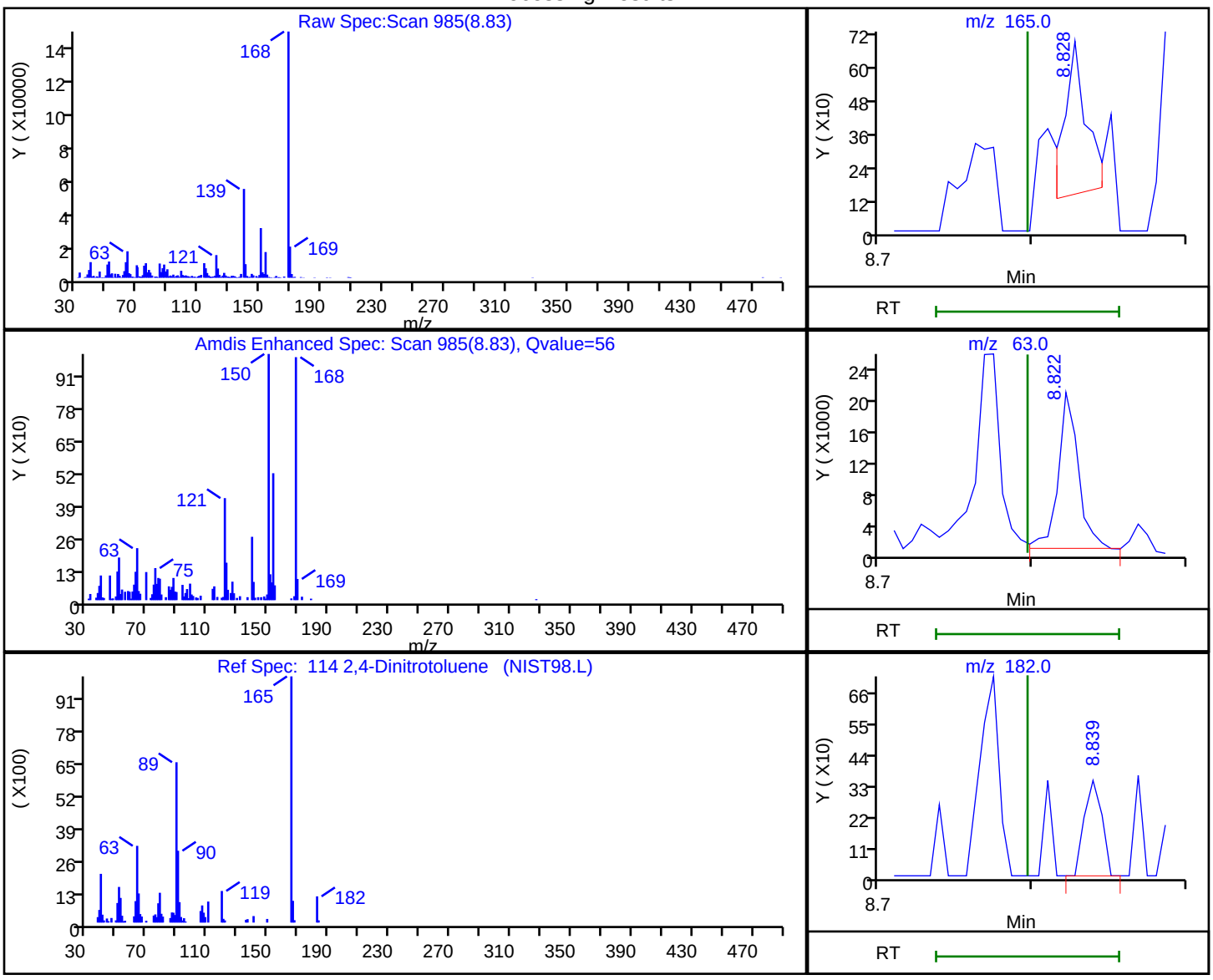
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

114 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
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8.82	63.00	18332	
8.84	182.00	274	

Reviewer: IZ8L, 30-Oct-2024 15:05:13 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

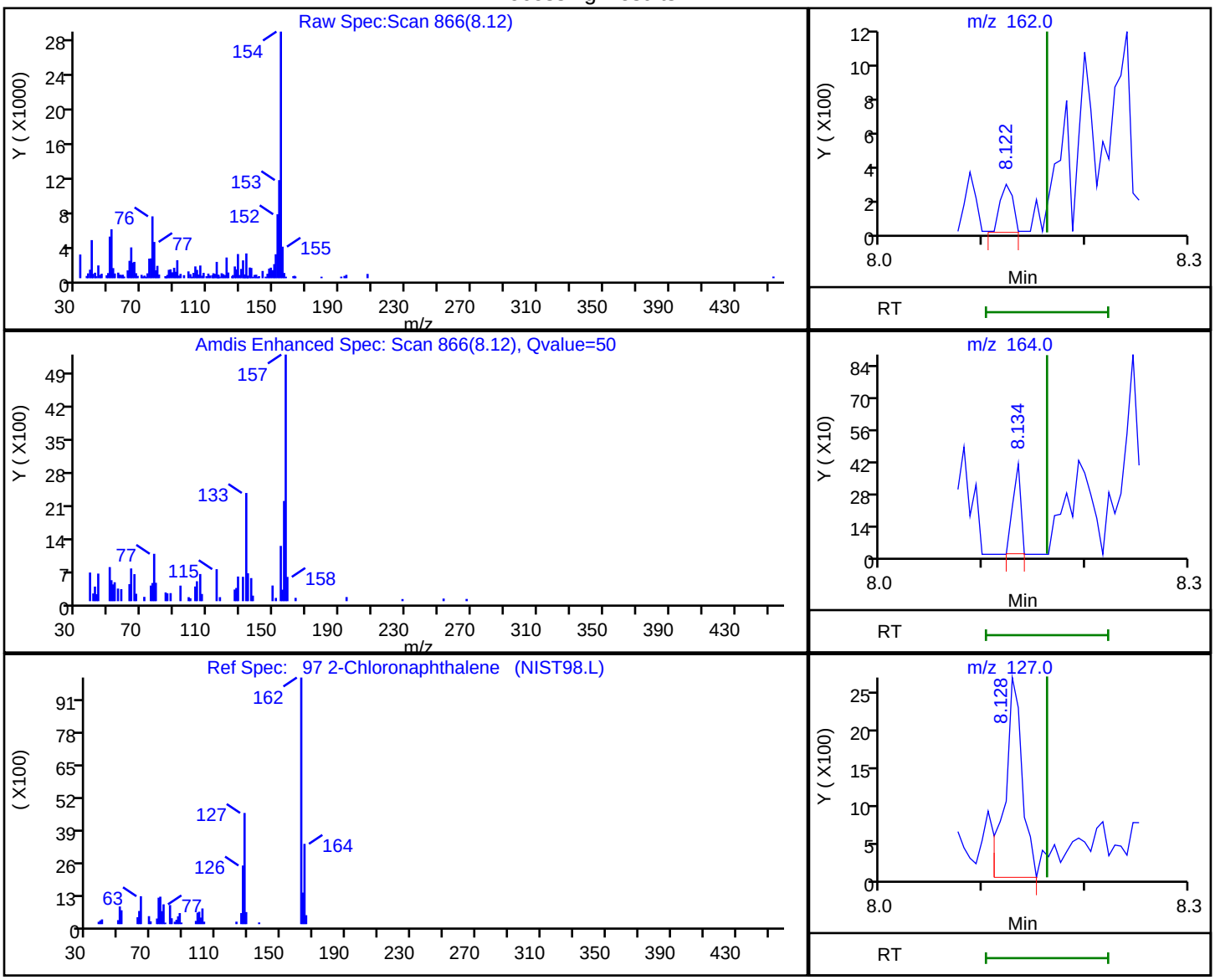
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

97 2-Chloronaphthalene, CAS: 91-58-7

Processing Results



RT	Mass	Response	Amount
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8.13	164.00	218	
8.13	127.00	3073	

Reviewer: IZ8L, 30-Oct-2024 15:05:07 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

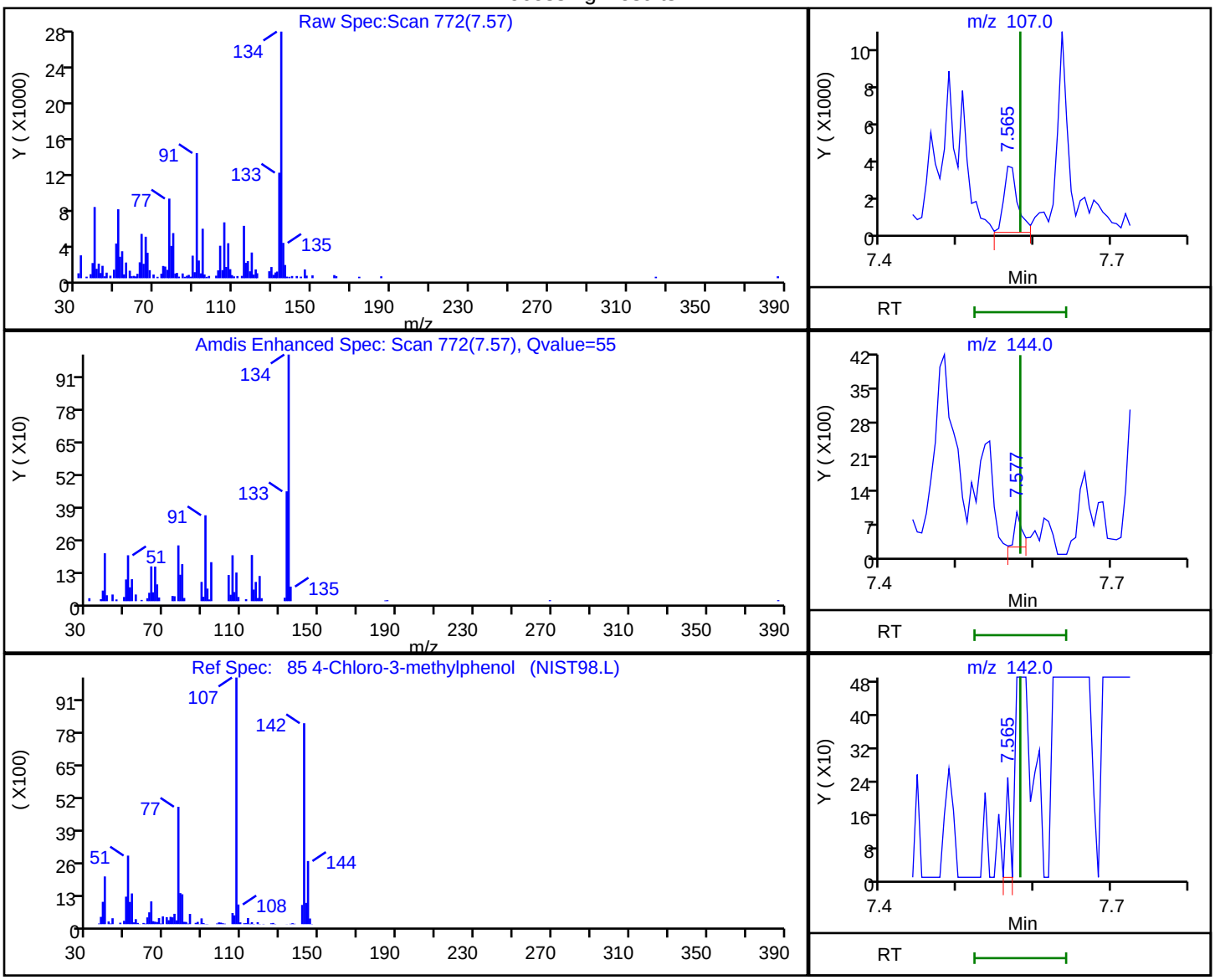
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

85 4-Chloro-3-methylphenol, CAS: 59-50-7

Processing Results



RT	Mass	Response	Amount
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7.58	144.00	501	
7.57	142.00	86	

Reviewer: IZ8L, 30-Oct-2024 15:05:03 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

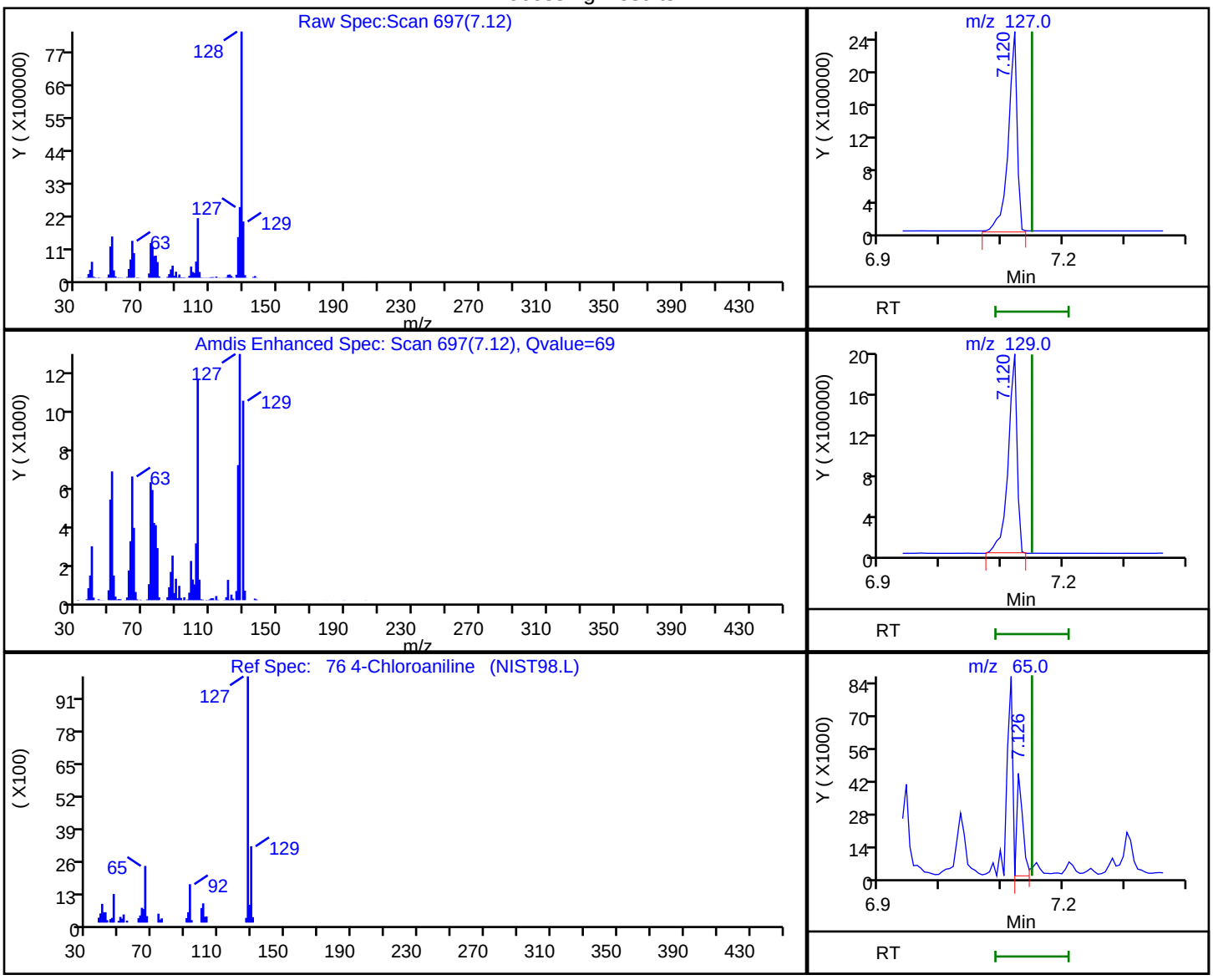
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D
Injection Date: 29-Oct-2024 19:29:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-3-A Lab Sample ID: 480-224869-3
Client ID: MW-BCP-10A-10242024
Operator ID: JM ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

76 4-Chloroaniline, CAS: 106-47-8

Processing Results



RT	Mass	Response	Amount
7.12	127.00	2366770	33.269989
7.12	129.00	1927326	
7.13	65.00	29356	

Reviewer: IZ8L, 30-Oct-2024 15:04:59 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

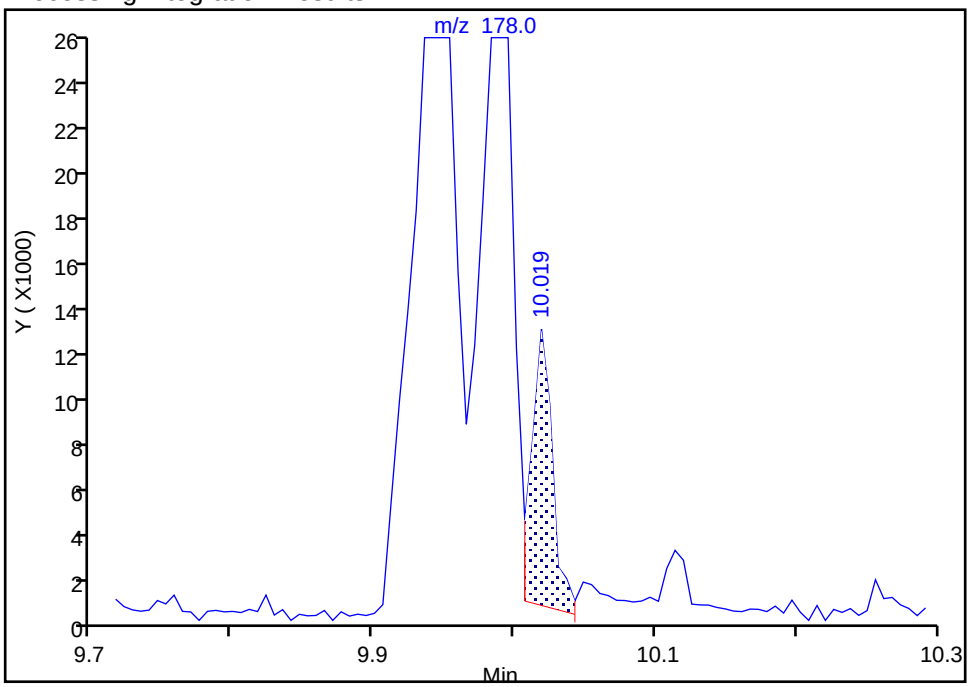
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

152 Anthracene, CAS: 120-12-7

Signal: 1

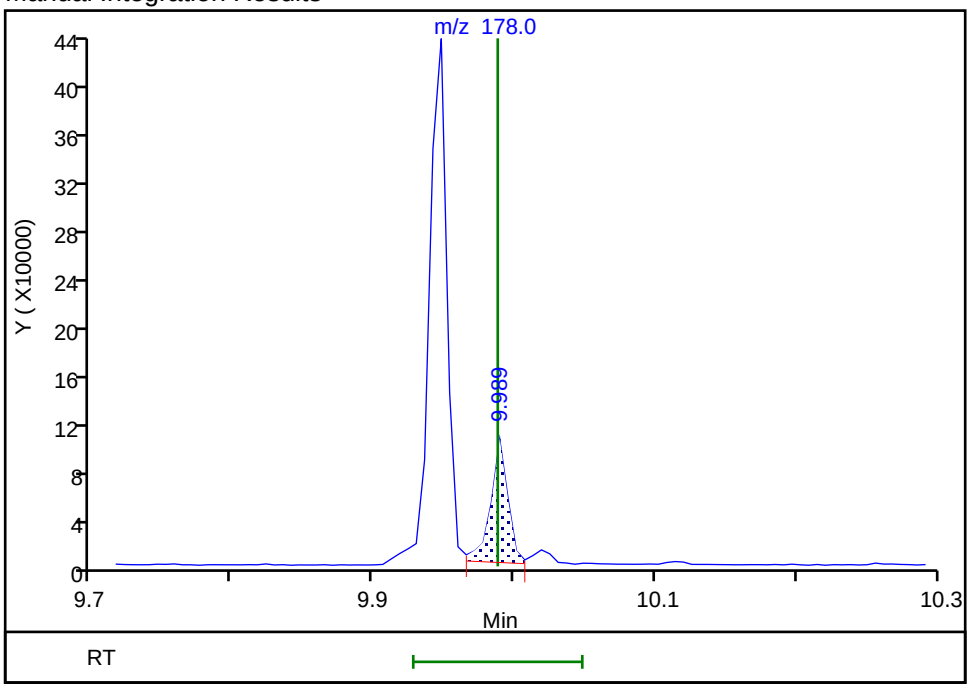
Processing Integration Results

RT: 10.02
Area: 12618
Amount: 0.073681
Amount Units: ng/uL



Manual Integration Results

RT: 9.99
Area: 87638
Amount: 0.511747
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:05:23 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Split Peak

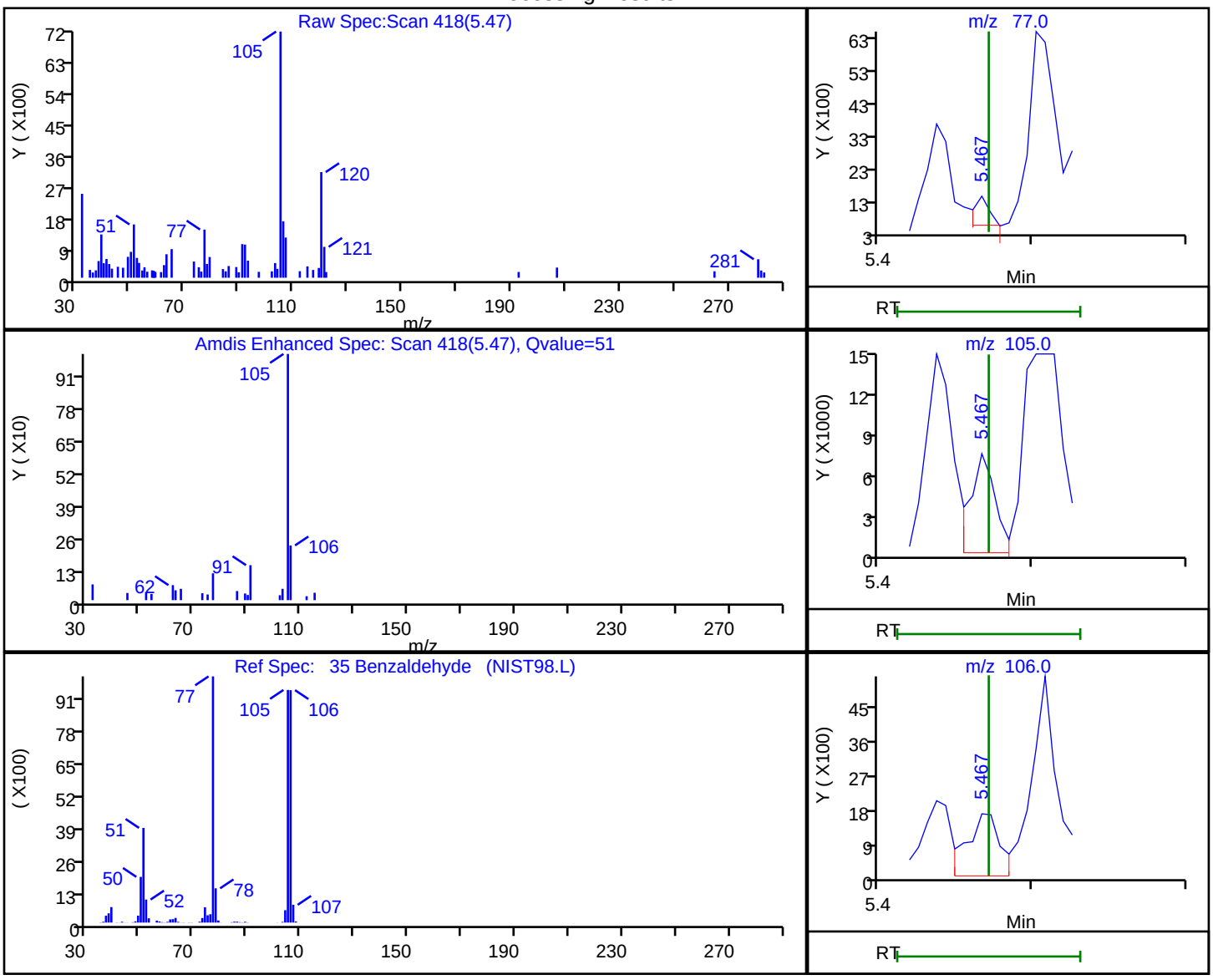
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

35 Benzaldehyde, CAS: 100-52-7

Processing Results



RT	Mass	Response	Amount
5.47	77.00	643	-0.106891
5.47	105.00	8297	
5.47	106.00	2515	

Reviewer: IZ8L, 30-Oct-2024 15:04:48 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

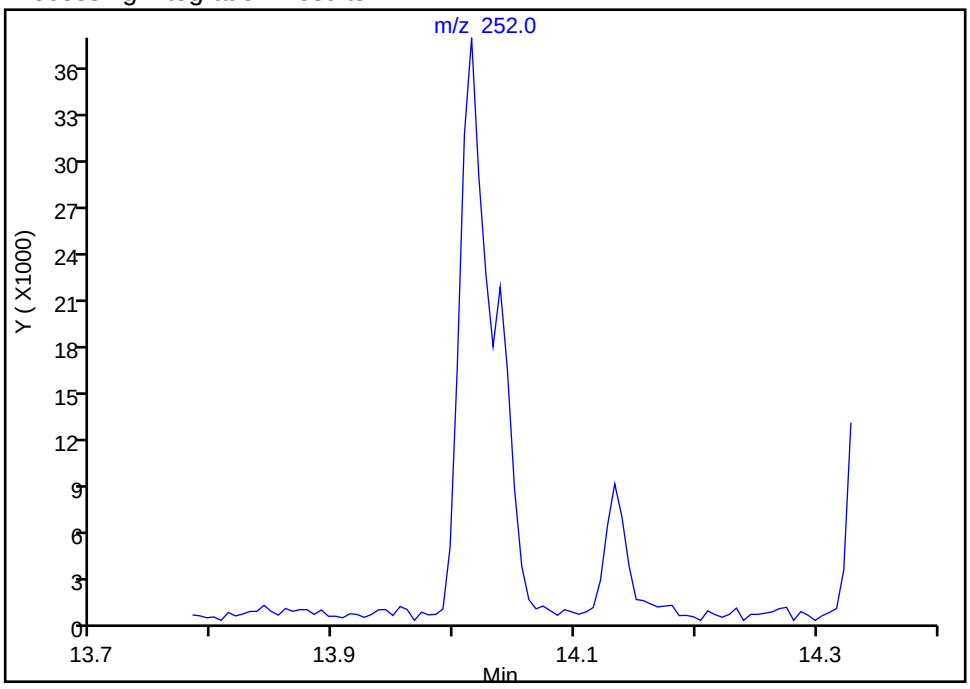
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

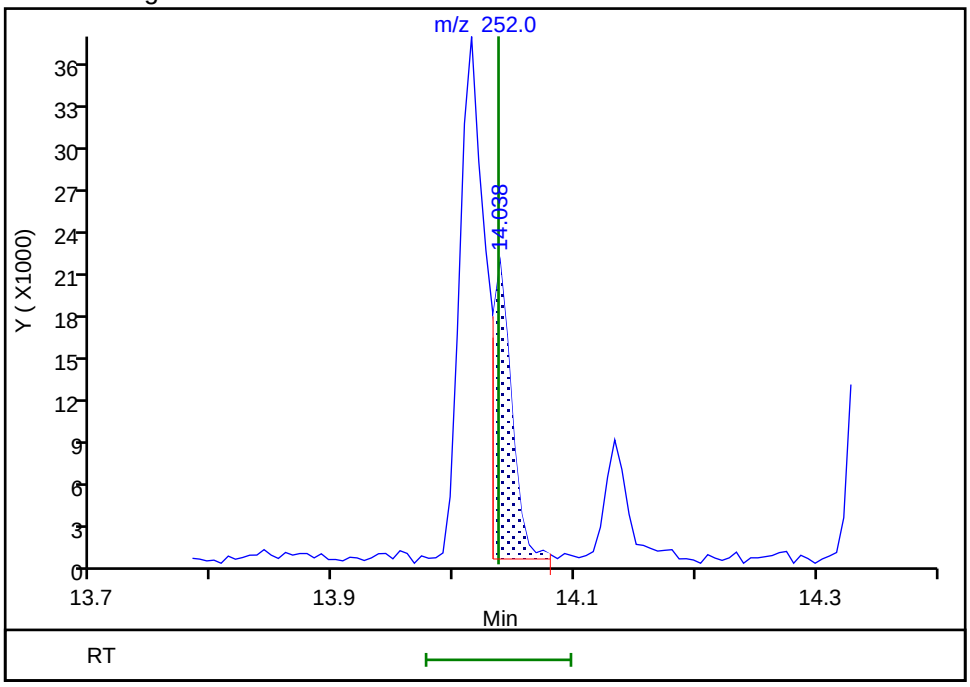
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 24413
Amount: 0.128384
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:05:41 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

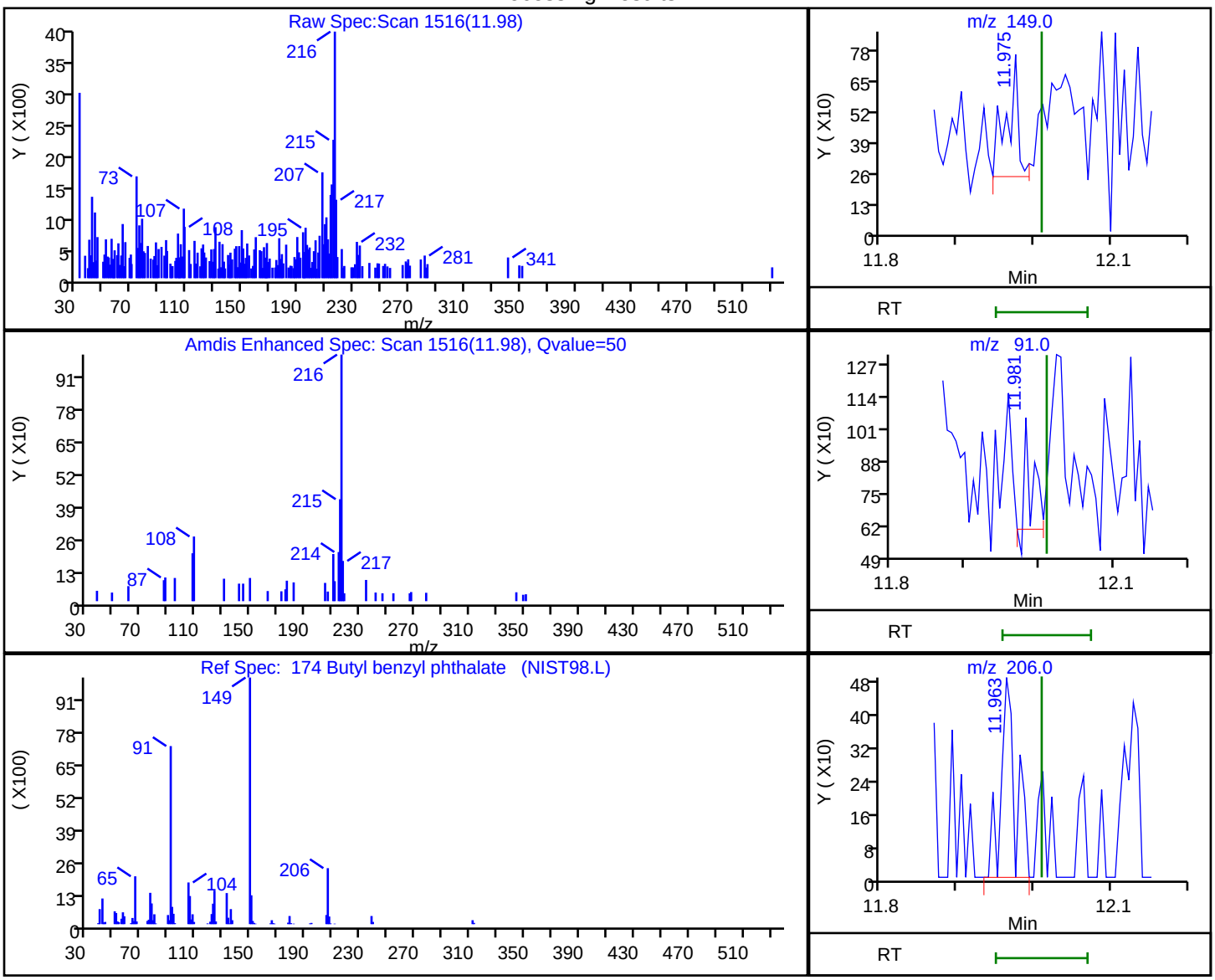
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

174 Butyl benzyl phthalate, CAS: 85-68-7

Processing Results



RT	Mass	Response	Amount
11.98	149.00	545	0.095572
11.98	91.00	309	
11.96	206.00	650	

Reviewer: IZ8L, 30-Oct-2024 15:05:29 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

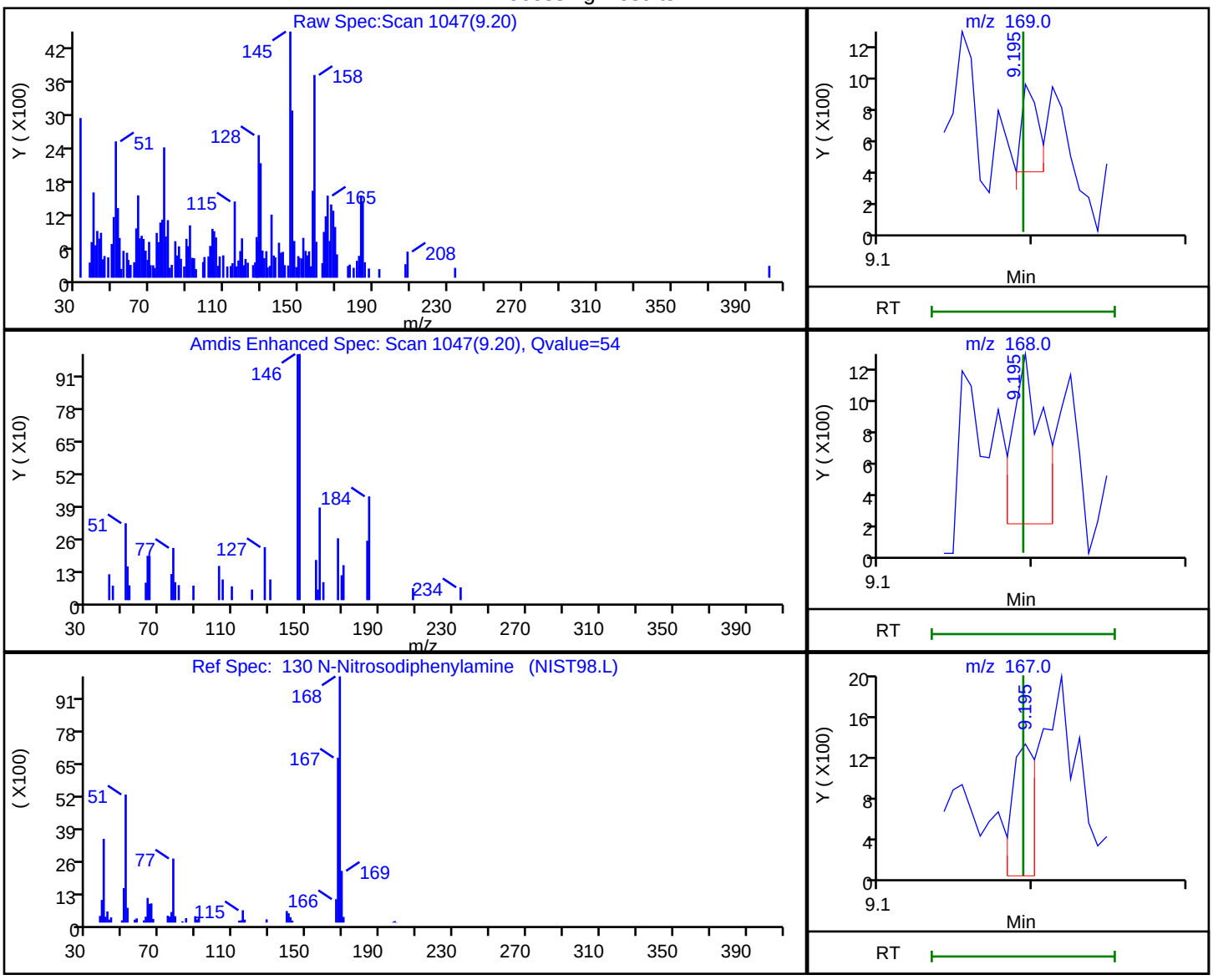
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04589.D				
Injection Date:	29-Oct-2024 19:29:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

130 N-Nitrosodiphenylamine, CAS: 86-30-6

Processing Results



RT	Mass	Response	Amount
9.20	169.00	409	0.004775
9.20	168.00	1372	
9.20	167.00	1438	

Reviewer: IZ8L, 30-Oct-2024 15:05:18 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 DL | Lab Sample ID: 480-224869-3 DL

Matrix: Water | Lab File ID: Y04604.D

Analysis Method: 8270D | Date Collected: 10/24/2024 10:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 50(mL) | Date Analyzed: 10/30/2024 11:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 100

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	*Biphenyl*	*ND*		*2500*	*330*
108-60-1	*bis (2-chloroisopropyl) ether*	*ND*		*2500*	*260*
95-95-4	*2,4,5-Trichlorophenol*	*ND*		*2500*	*240*
88-06-2	*2,4,6-Trichlorophenol*	*ND*		*2500*	*310*
120-83-2	*2,4-Dichlorophenol*	*ND*		*2500*	*260*
105-67-9	2,4-Dimethylphenol	5300		2500	250
51-28-5	*2,4-Dinitrophenol*	*ND*		*5000*	*1100*
121-14-2	*2,4-Dinitrotoluene*	*ND*		*2500*	*220*
606-20-2	*2,6-Dinitrotoluene*	*ND*		*2500*	*200*
91-58-7	*2-Chloronaphthalene*	*ND*		*2500*	*230*
95-57-8	*2-Chlorophenol*	*ND*		*2500*	*270*
91-57-6	*2-Methylnaphthalene*	*1100*	*J*	*2500*	*300*
95-48-7	2-Methylphenol	5900		2500	200
88-74-4	*2-Nitroaniline*	*ND*		*5000*	*210*
88-75-5	*2-Nitrophenol*	*ND*		*2500*	*240*
91-94-1	*3,3'-Dichlorobenzidine*	*ND*		*2500*	*200*
99-09-2	*3-Nitroaniline*	*ND*		*5000*	*240*
534-52-1	*4,6-Dinitro-2-methylphenol*	*ND*		*5000*	*1100*
101-55-3	*4-Bromophenyl phenyl ether*	*ND*		*2500*	*230*
59-50-7	*4-Chloro-3-methylphenol*	*ND*		*2500*	*230*
106-47-8	*4-Chloroaniline*	*ND*		*2500*	*300*
7005-72-3	*4-Chlorophenyl phenyl ether*	*ND*		*2500*	*180*
106-44-5	4-Methylphenol	7200		5000	180
100-01-6	*4-Nitroaniline*	*ND*		*5000*	*130*
100-02-7	*4-Nitrophenol*	*ND*	**+*	*5000*	*760*
83-32-9	*Acenaphthene*	*ND*		*2500*	*210*
208-96-8	*Acenaphthylene*	*660*	*J*	*2500*	*190*
98-86-2	*Acetophenone*	*ND*		*2500*	*270*
120-12-7	*Anthracene*	*ND*		*2500*	*140*
1912-24-9	*Atrazine*	*ND*		*2500*	*230*
100-52-7	*Benzaldehyde*	*ND*		*2500*	*130*

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 DL | Lab Sample ID: 480-224869-3 DL

Matrix: Water | Lab File ID: Y04604.D

Analysis Method: 8270D | Date Collected: 10/24/2024 10:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 50(mL) | Date Analyzed: 10/30/2024 11:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 100

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		2500	180
50-32-8	Benzo(a)pyrene	ND		2500	240
205-99-2	Benzo(b)fluoranthene	ND		2500	170
191-24-2	Benzo(g,h,i)perylene	ND		2500	180
207-08-9	Benzo(k)fluoranthene	ND		2500	370
111-91-1	Bis(2-chloroethoxy)methane	ND		2500	180
111-44-4	Bis(2-chloroethyl)ether	ND		2500	200
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2500	1100
85-68-7	Butyl benzyl phthalate	ND		2500	500
105-60-2	Caprolactam	ND		2500	1100
86-74-8	Carbazole	500	J	2500	150
218-01-9	Chrysene	ND		2500	170
84-74-2	Di-n-butyl phthalate	ND		2500	160
117-84-0	Di-n-octyl phthalate	ND		2500	240
53-70-3	Dibenz(a,h)anthracene	ND		2500	210
132-64-9	Dibenzofuran	ND		5000	260
84-66-2	Diethyl phthalate	ND		2500	110
131-11-3	Dimethyl phthalate	ND		2500	180
206-44-0	Fluoranthene	ND		2500	200
86-73-7	Fluorene	280	J	2500	180
118-74-1	Hexachlorobenzene	ND		2500	260
87-68-3	Hexachlorobutadiene	ND		2500	340
77-47-4	Hexachlorocyclopentadiene	ND		2500	300
67-72-1	Hexachloroethane	ND		2500	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2500	240
78-59-1	Isophorone	ND		2500	220
621-64-7	N-Nitrosodi-n-propylamine	ND		2500	270
86-30-6	N-Nitrosodiphenylamine	ND		2500	260
91-20-3	Naphthalene	17000		2500	380
98-95-3	Nitrobenzene	ND		2500	150
87-86-5	Pentachlorophenol	ND		5000	1100

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-10A-10242024 DL | Lab Sample ID: 480-224869-3 DL

Matrix: Water | Lab File ID: Y04604.D

Analysis Method: 8270D | Date Collected: 10/24/2024 10:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 50(mL) | Date Analyzed: 10/30/2024 11:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 100

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	*Phenanthrene*	*420*	*J*	*2500*	*220*
108-95-2	*Phenol*	*2900*		*2500*	*200*
129-00-0	*Pyrene*	*ND*		*2500*	*170*

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	S1-	25-144
321-60-8	2-Fluorobiphenyl	75		53-126
367-12-4	2-Fluorophenol	0	S1-	24-120
4165-60-0	Nitrobenzene-d5	129		29-129
1718-51-0	p-Terphenyl-d14	66		33-132
4165-62-2	Phenol-d5	0	S1-	10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D
Lims ID: 480-224869-B-3-A
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 30-Oct-2024 11:12:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 100.0000
Sample Info: 480-0120914-005
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:59:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.887	5.883	0.004	97	152823	4.00	
* 2 Naphthalene-d8	136	7.090	7.086	0.004	99	584265	4.00	
* 3 Acenaphthene-d10	164	8.649	8.651	-0.002	94	323918	4.00	
* 4 Phenanthrene-d10	188	9.923	9.926	-0.003	97	552317	4.00	
* 5 Chrysene-d12	240	12.775	12.777	-0.002	99	447683	4.00	
* 6 Perylene-d12	264	14.464	14.460	0.004	97	506286	4.00	
$ 7 2-Fluorophenol	112		4.638				ND	
$ 8 Phenol-d5	99		5.521				ND	
$ 9 Nitrobenzene-d5	82	6.414	6.410	0.004	90	3149	0.1036	
$ 10 2-Fluorobiphenyl	172	8.038	8.035	0.003	96	6673	0.0599	
$ 11 2,4,6-Tribromophenol	330		9.327				ND	
$ 12 p-Terphenyl-d14	244	11.482	11.485	-0.003	96	6453	0.0532	a
35 Benzaldehyde	77		5.474				ND	
37 Phenol	94	5.537	5.533	0.004	88	84599	1.43	
39 Bis(2-chloroethyl)ether	93		5.604				ND	
40 2-Chlorophenol	128		5.699				ND	
48 2-Methylphenol	108	6.112	6.108	0.004	96	133247	2.97	
49 2,2'-oxybis[1-chloropropane]	45		6.120				ND	
53 N-Nitrosodi-n-propylamine	70		6.244				ND	
57 4-Methylphenol	108	6.254	6.256	-0.002	83	168236	3.61	
52 Acetophenone	105		6.262				ND	
58 Hexachloroethane	117		6.375				ND	
59 Nitrobenzene	77		6.434				ND	
62 Isophorone	82		6.647				ND	
64 2-Nitrophenol	139		6.730				ND	
66 2,4-Dimethylphenol	107	6.752	6.748	0.004	96	134669	2.65	
69 Bis(2-chloroethoxy)methane	93		6.819				ND	
72 2,4-Dichlorophenol	162		6.962				ND	
74 Naphthalene	128	7.108	7.110	-0.002	98	1273837	8.25	
76 4-Chloroaniline	127		7.145				ND	
79 Hexachlorobutadiene	225		7.205				ND	
84 Caprolactam	113		7.466				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.578				ND	
87 2-Methylnaphthalene	142	7.730	7.726	0.004	91	51959	0.5458	
90 Hexachlorocyclopentadiene	237		7.869				ND	
93 2,4,6-Trichlorophenol	196		7.981				ND	
94 2,4,5-Trichlorophenol	196		8.023				ND	
96 1,1'-Biphenyl	154	8.133	8.129	0.004	95	5497	0.0463	
97 2-Chloronaphthalene	162		8.165				ND	
100 2-Nitroaniline	65		8.248				ND	
105 Dimethyl phthalate	163		8.372				ND	
107 2,6-Dinitrotoluene	165		8.438				ND	
108 Acenaphthylene	152	8.530	8.533	-0.002	98	47090	0.3282	
109 3-Nitroaniline	138		8.598				ND	
110 Acenaphthene	153	8.679	8.681	-0.002	81	1861	0.0194	
111 2,4-Dinitrophenol	184		8.693				ND	
112 4-Nitrophenol	109		8.752				ND	
114 2,4-Dinitrotoluene	165		8.799				ND	
115 Dibenzofuran	168	8.827	8.823	0.004	96	13731	0.1057	
120 Diethyl phthalate	149		8.965				ND	
123 4-Chlorophenyl phenyl ether	204		9.090				ND	
124 Fluorene	166	9.117	9.119	-0.002	97	14049	0.1413	
126 4-Nitroaniline	138		9.131				ND	
127 4,6-Dinitro-2-methylphenol	198		9.155				ND	
130 N-Nitrosodiphenylamine	169		9.190				ND	
139 4-Bromophenyl phenyl ether	248		9.511				ND	
140 Hexachlorobenzene	284		9.605				ND	
143 Atrazine	200		9.617				ND	
145 Pentachlorophenol	266		9.765				ND	
151 Phenanthrene	178	9.947	9.943	0.004	95	32197	0.2109	
152 Anthracene	178	9.989	9.991	-0.002	90	7581	0.0496	
153 Carbazole	167	10.119	10.121	-0.002	96	34218	0.2521	
157 Di-n-butyl phthalate	149		10.358				ND	
164 Fluoranthene	202	11.109	11.111	-0.002	97	13528	0.0835	
167 Pyrene	202	11.370	11.372	-0.002	96	10307	0.0687	
174 Butyl benzyl phthalate	149		12.006				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.664				ND	
179 3,3'-Dichlorobenzidine	252		12.700				ND	
180 Benzo[a]anthracene	228		12.765				ND	
182 Chrysene	228		12.806				ND	
184 Di-n-octyl phthalate	149		13.417				ND	
186 Benzo[b]fluoranthene	252	14.014	14.010	0.004	91	4305	0.0457	
187 Benzo[k]fluoranthene	252	14.043	14.039	0.004	1	3069	0.0189	Ma
189 Benzo[a]pyrene	252	14.405	14.395	0.010	73	3194	0.0446	
194 Dibenz(a,h)anthracene	278		15.936				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.948				ND	
195 Benzo[g,h,i]perylene	276		16.393				ND	

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

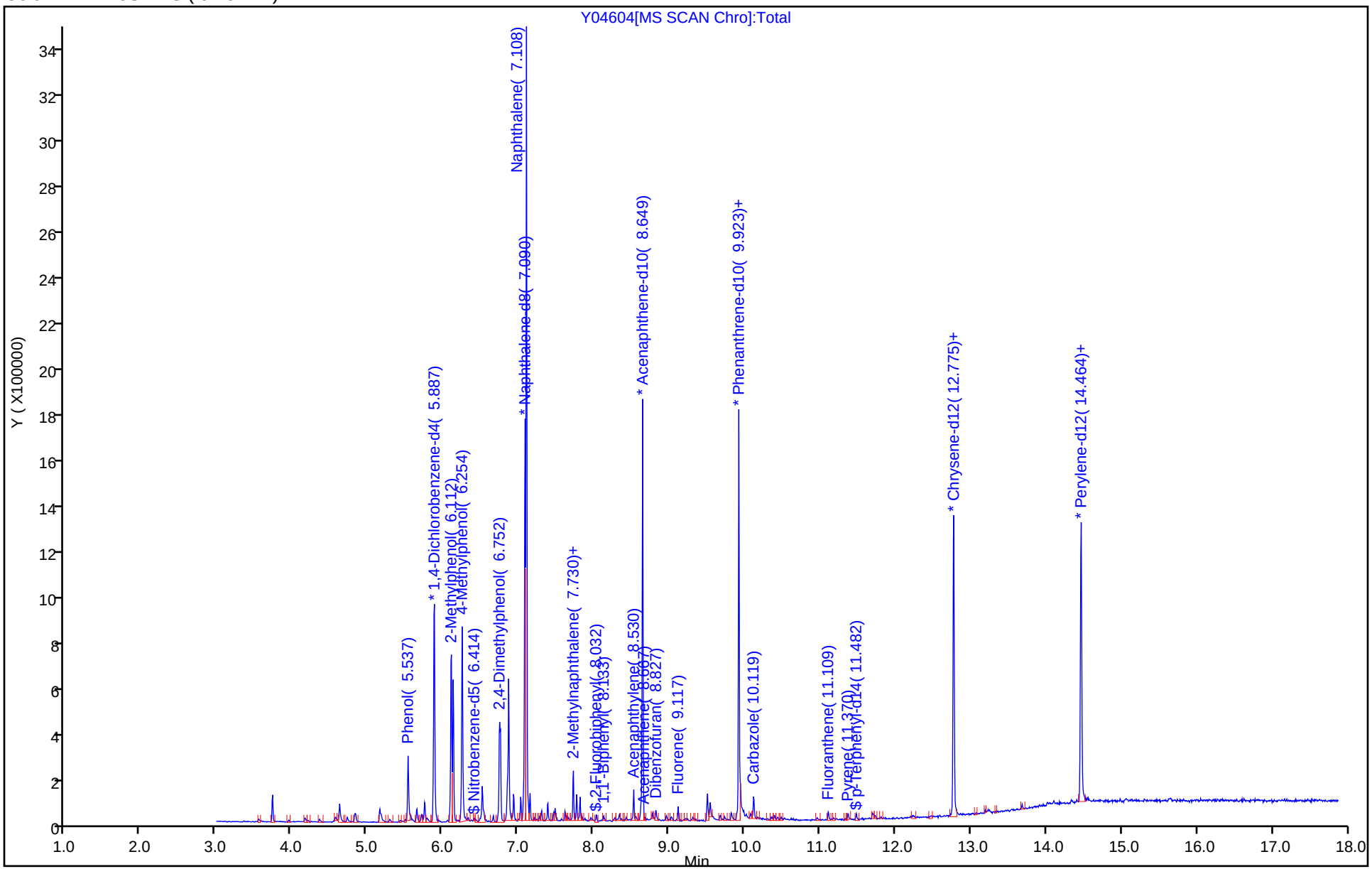
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3	Worklist Smp#:	5
Client ID:	MW-BCP-10A-10242024				
Injection Vol:	2.0 ul	Dil. Factor:	100.0000	ALS Bottle#:	5
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D
Lims ID: 480-224869-B-3-A
Client ID: MW-BCP-10A-10242024
Sample Type: Client
Inject. Date: 30-Oct-2024 11:12:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 100.0000
Sample Info: 480-0120914-005
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:59:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 Nitrobenzene-d5	8.00	0.1036	129.48
$ 10 2-Fluorobiphenyl	8.00	0.0599	74.92
$ 12 p-Terphenyl-d14	8.00	0.0532	66.47

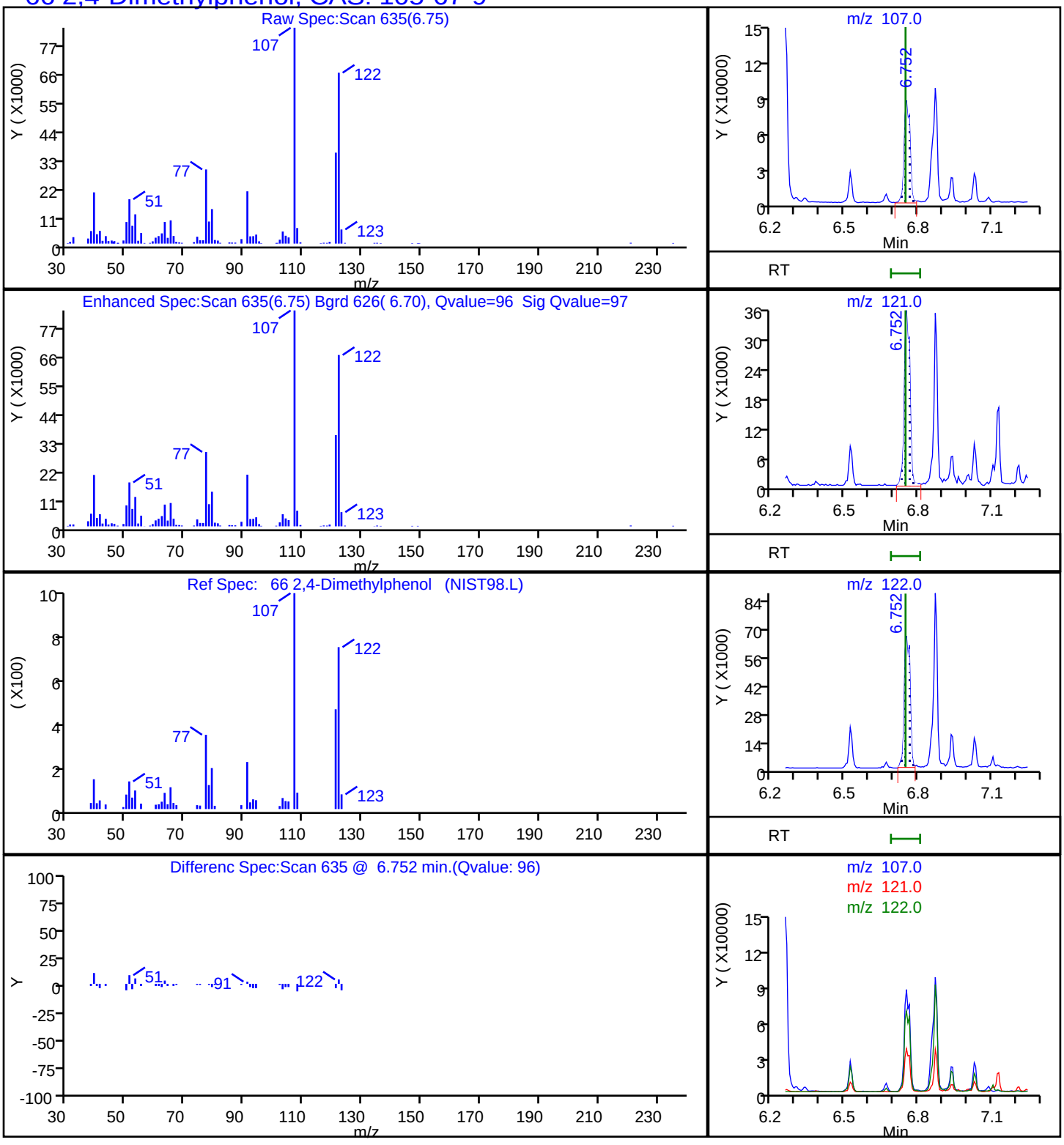
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dimethylphenol, CAS: 105-67-9



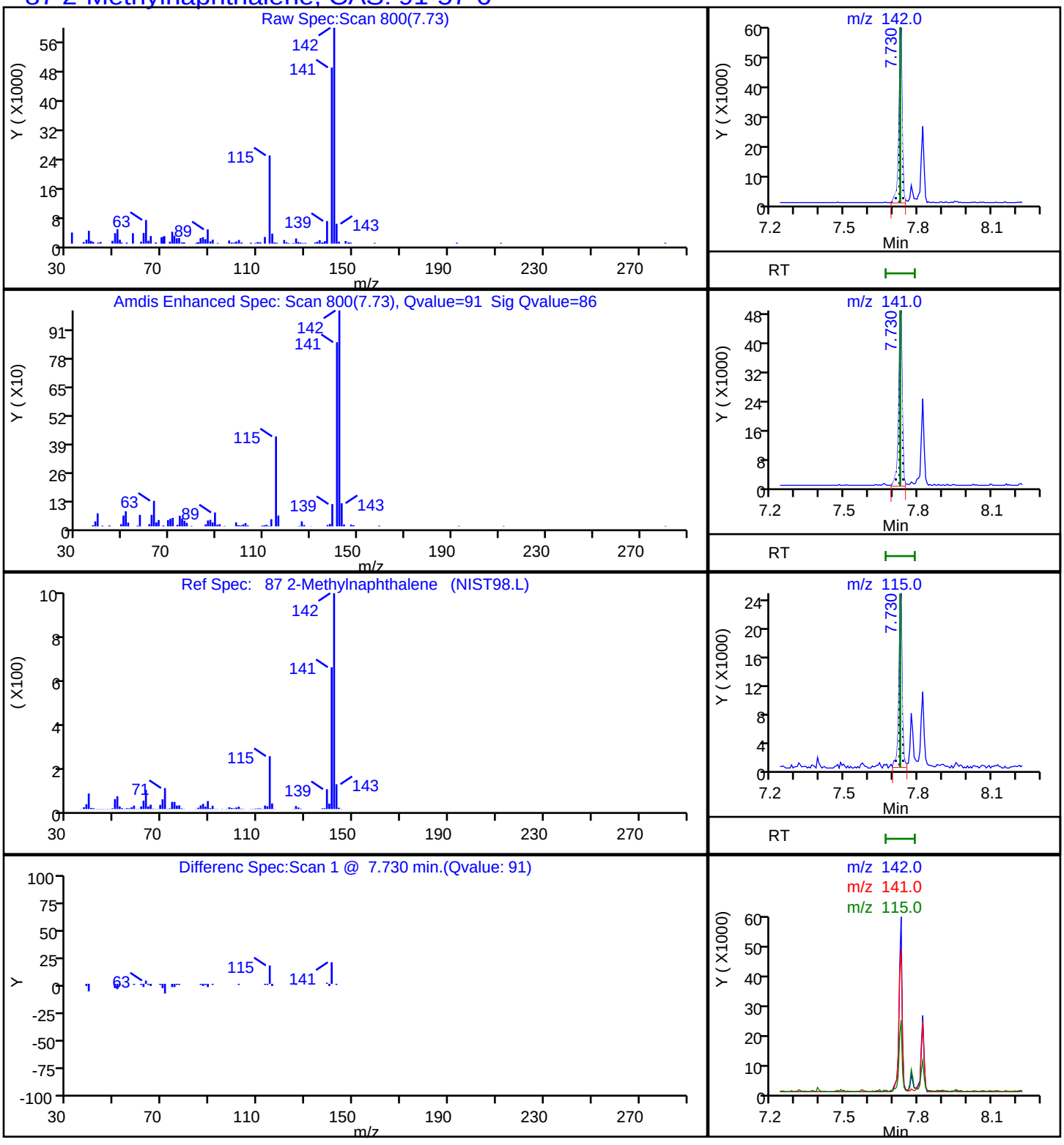
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

87 2-Methylnaphthalene, CAS: 91-57-6



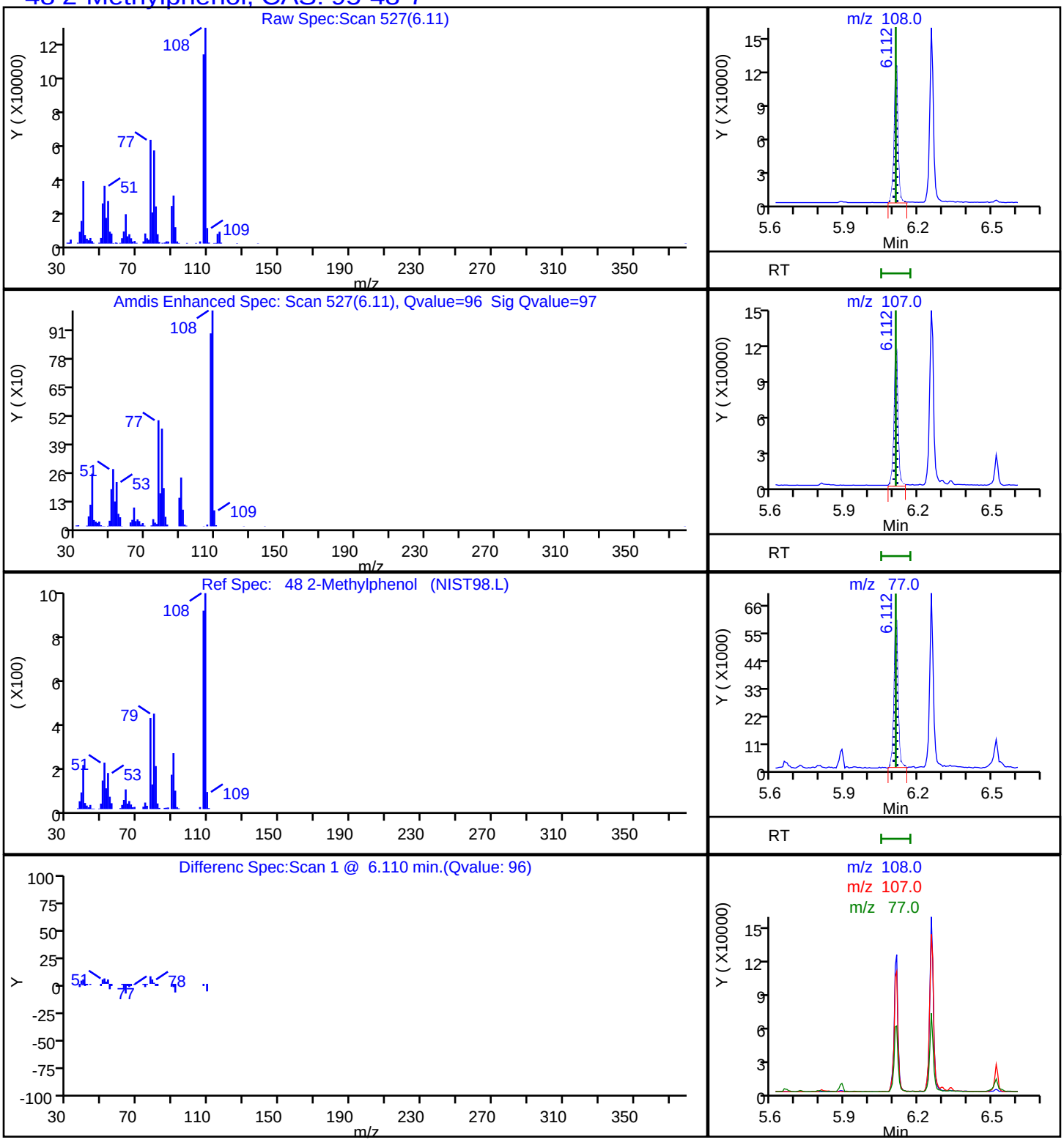
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

48 2-Methylphenol, CAS: 95-48-7



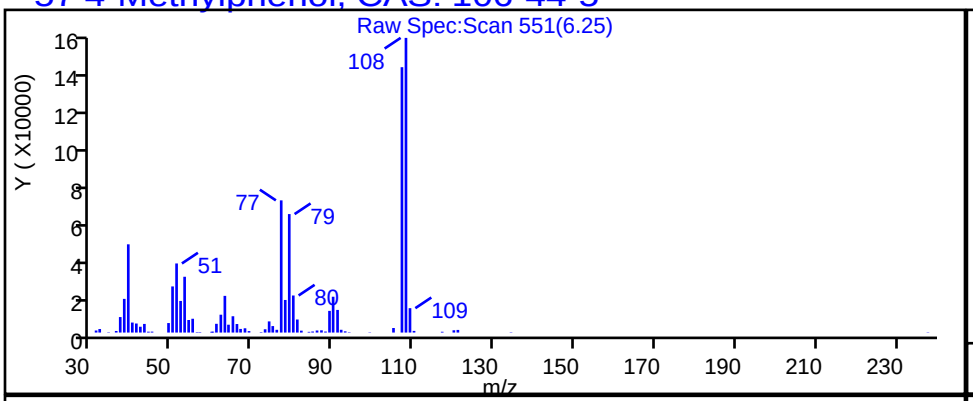
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

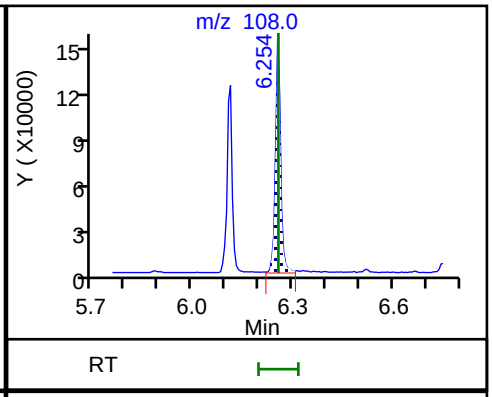
Eurofins Buffalo

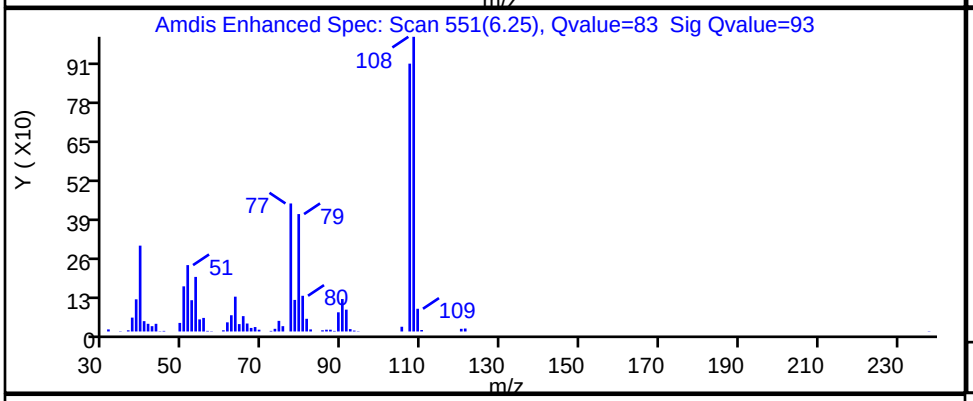
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

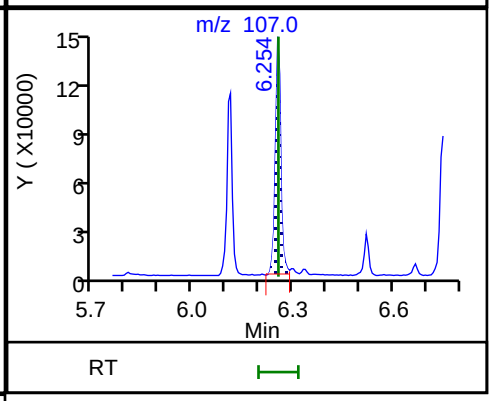
Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

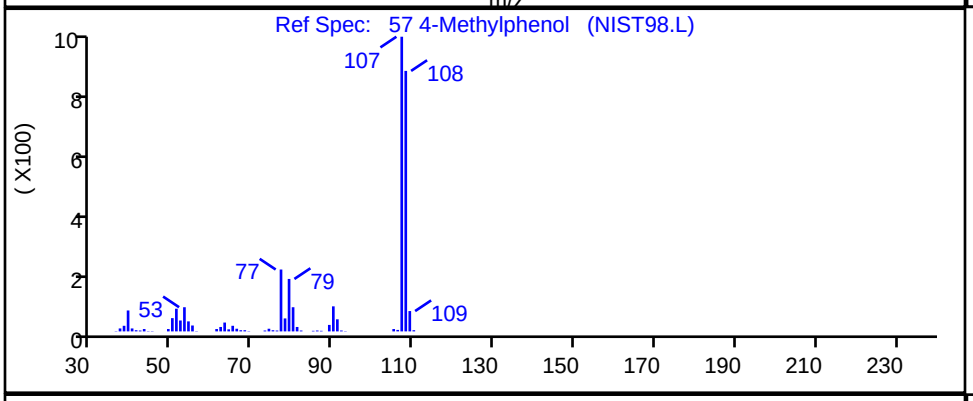
57 4-Methylphenol, CAS: 106-44-5

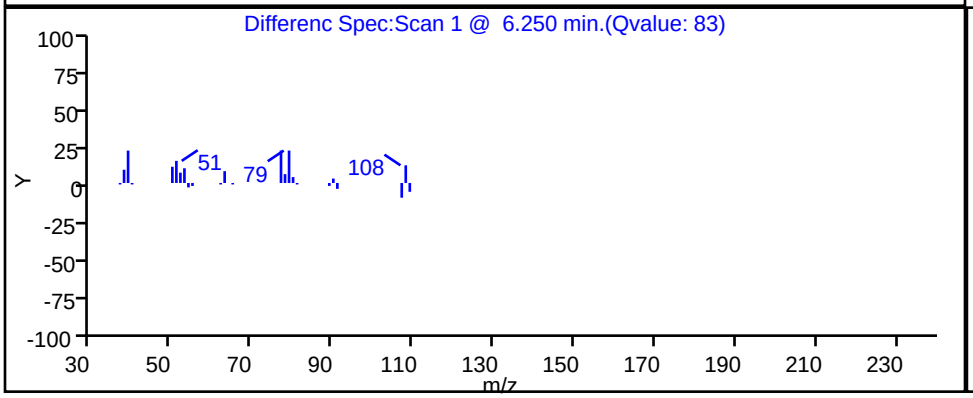


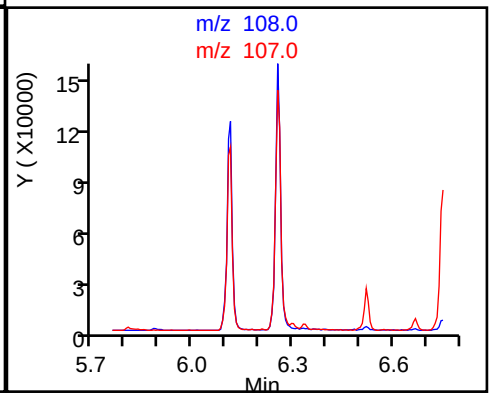












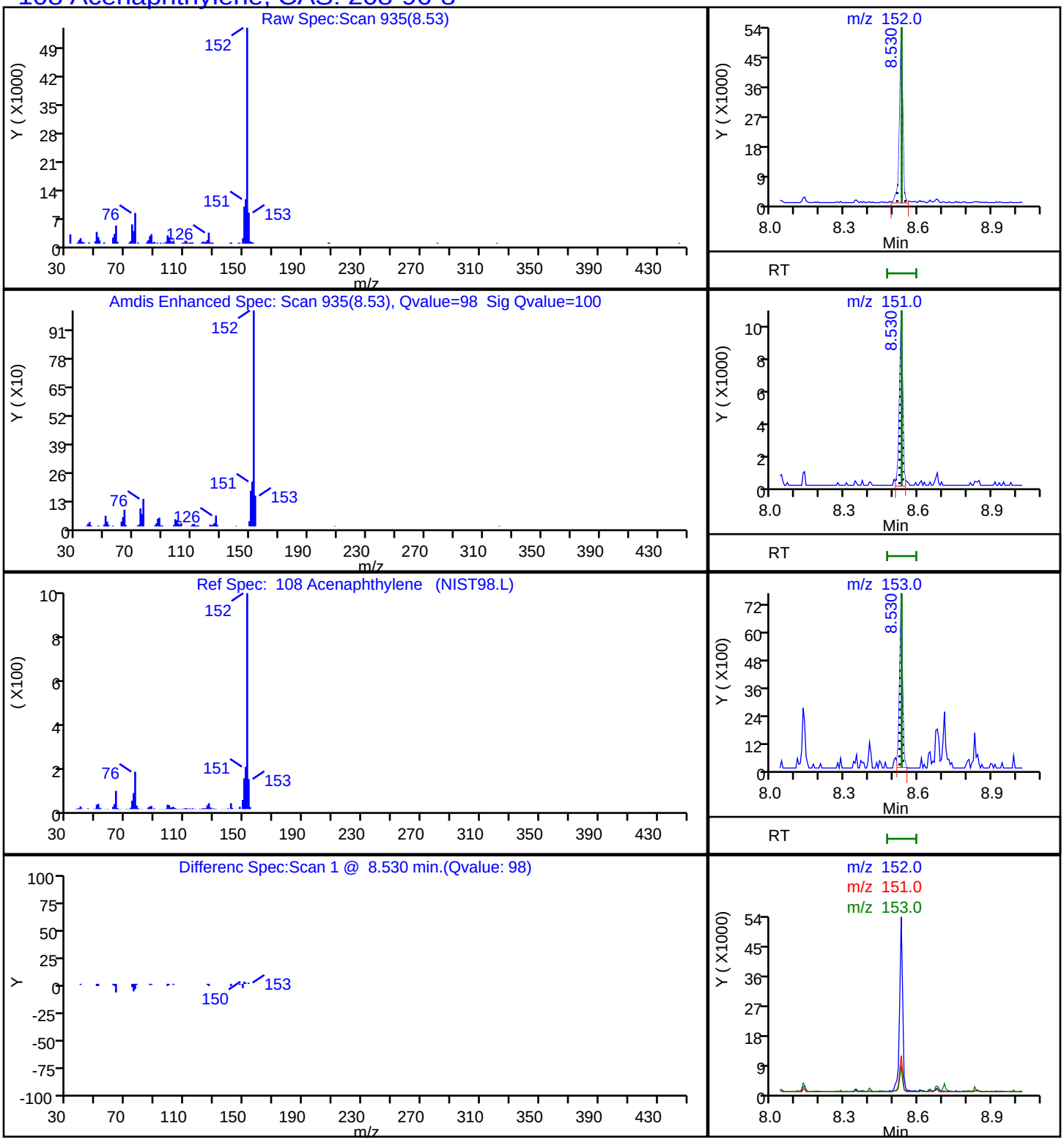
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

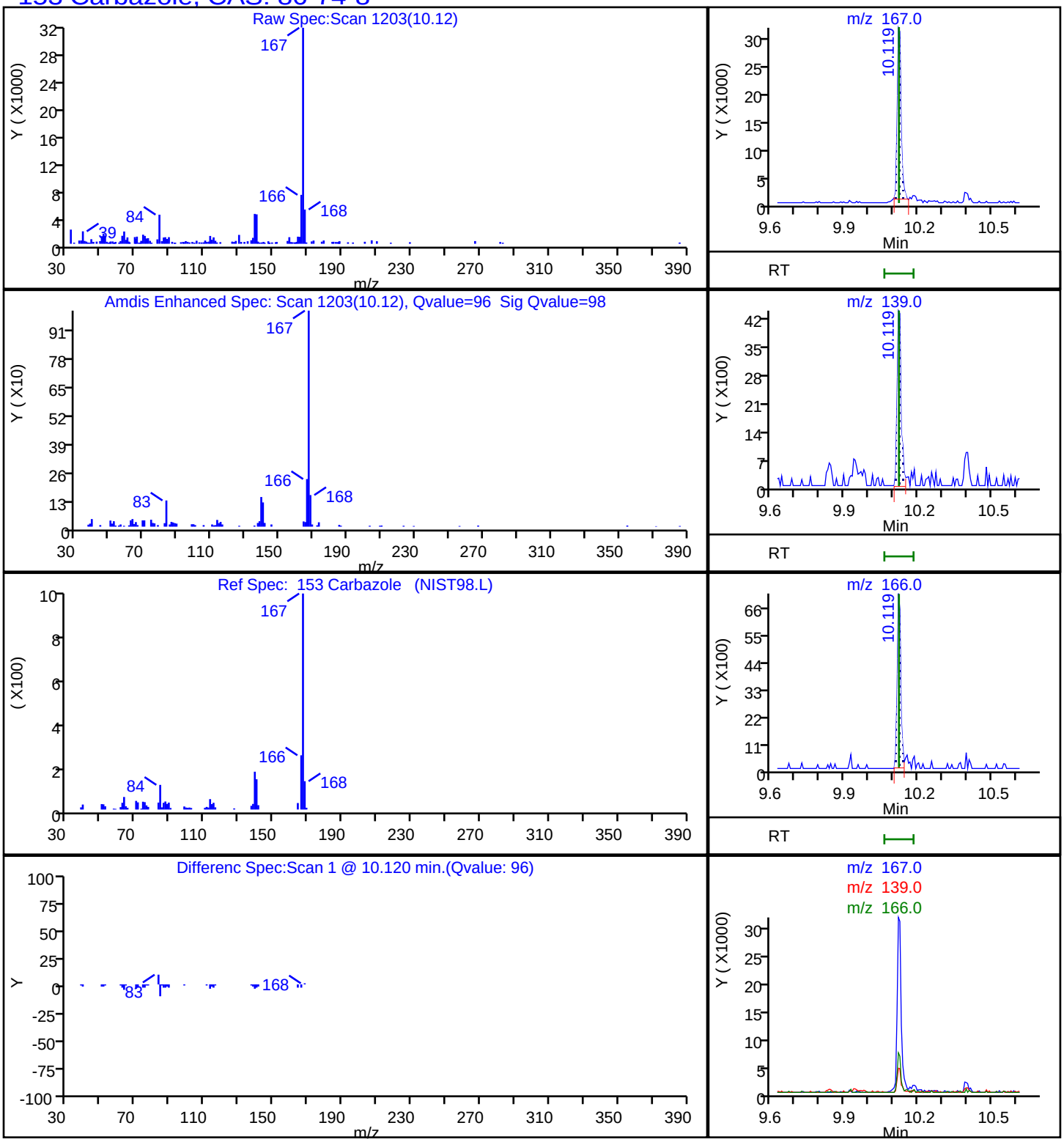
108 Acenaphthylene, CAS: 208-96-8



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D		
Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

153 Carbazole, CAS: 86-74-8



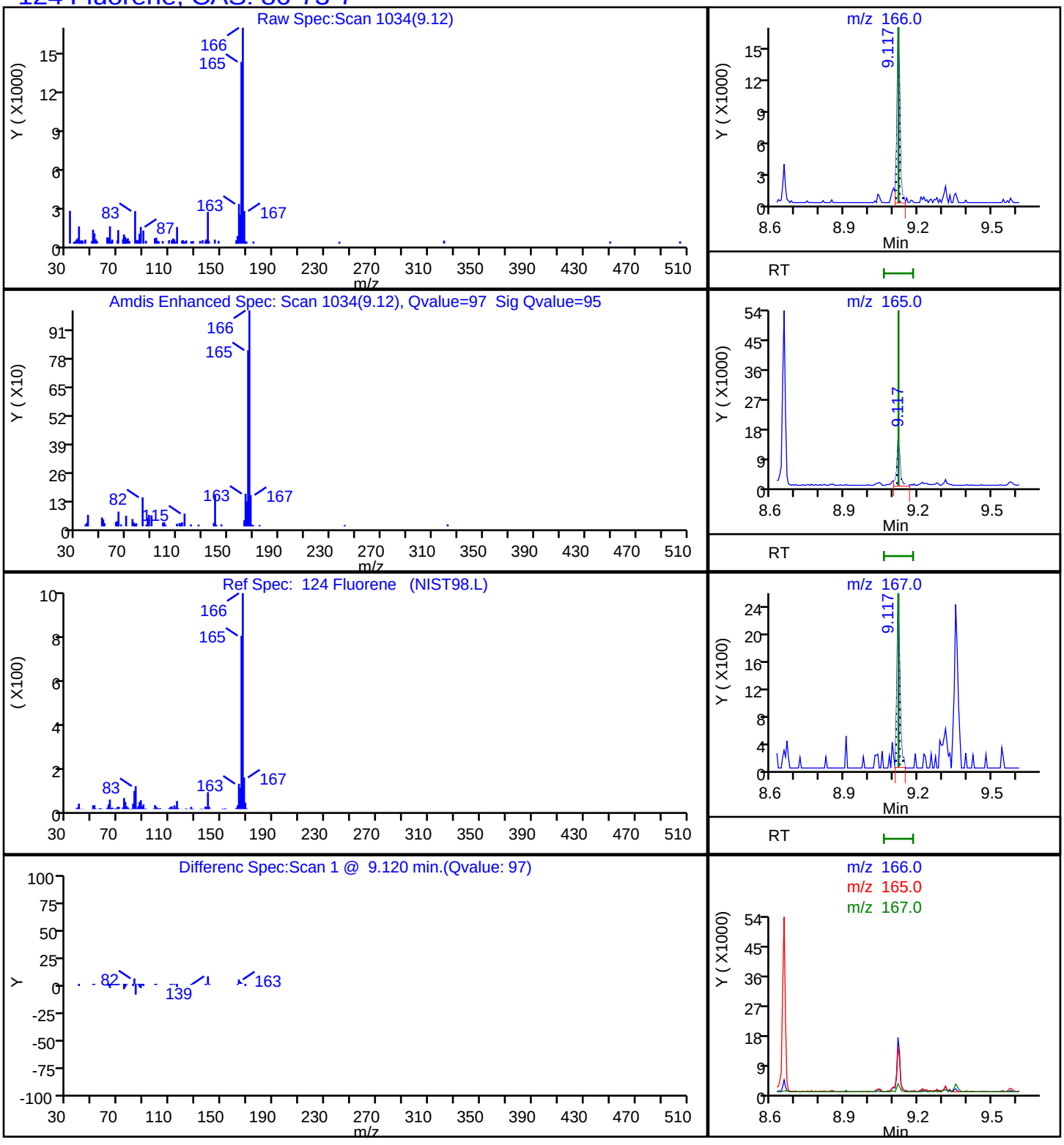
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

124 Fluorene, CAS: 86-73-7



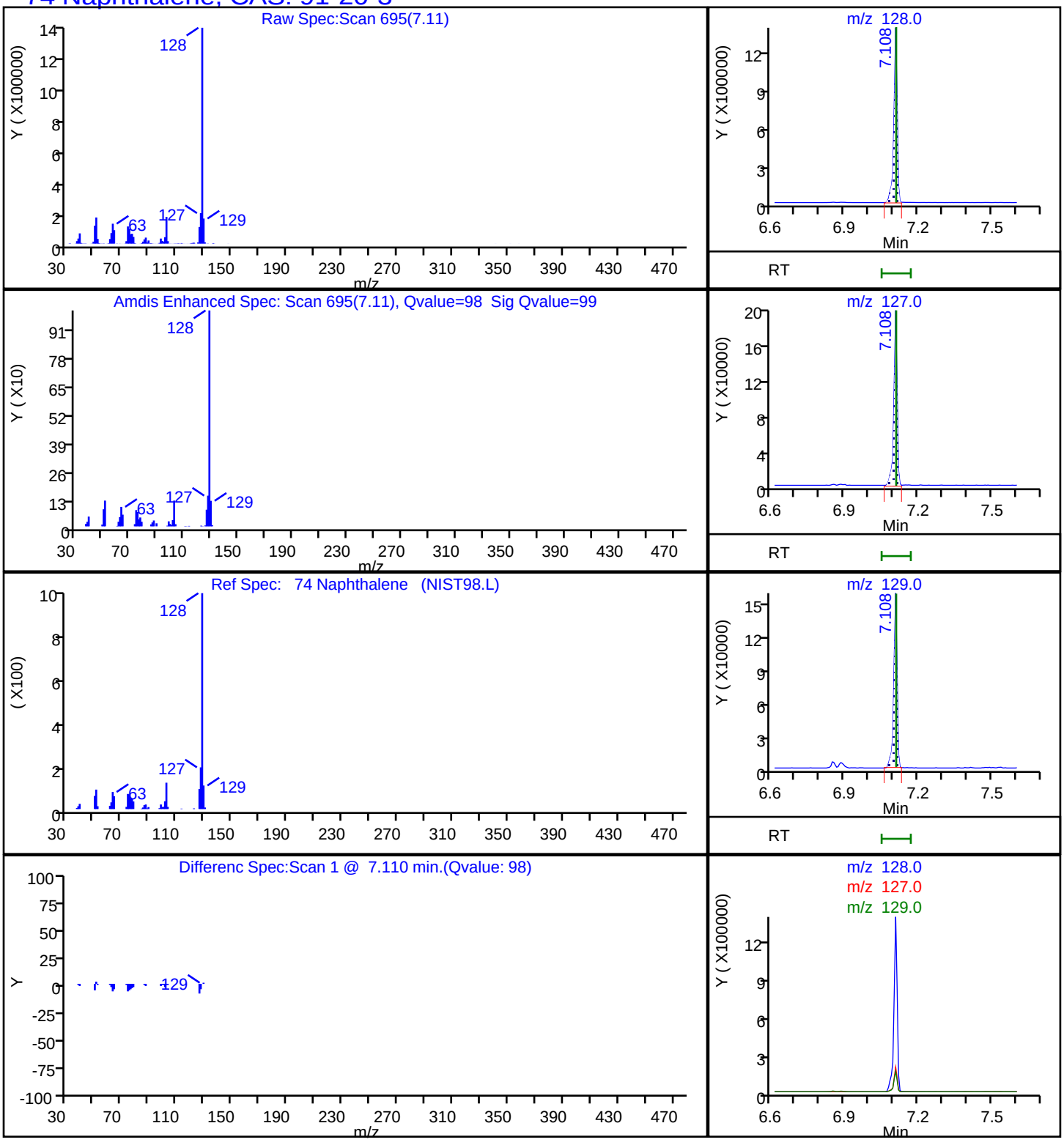
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

74 Naphthalene, CAS: 91-20-3



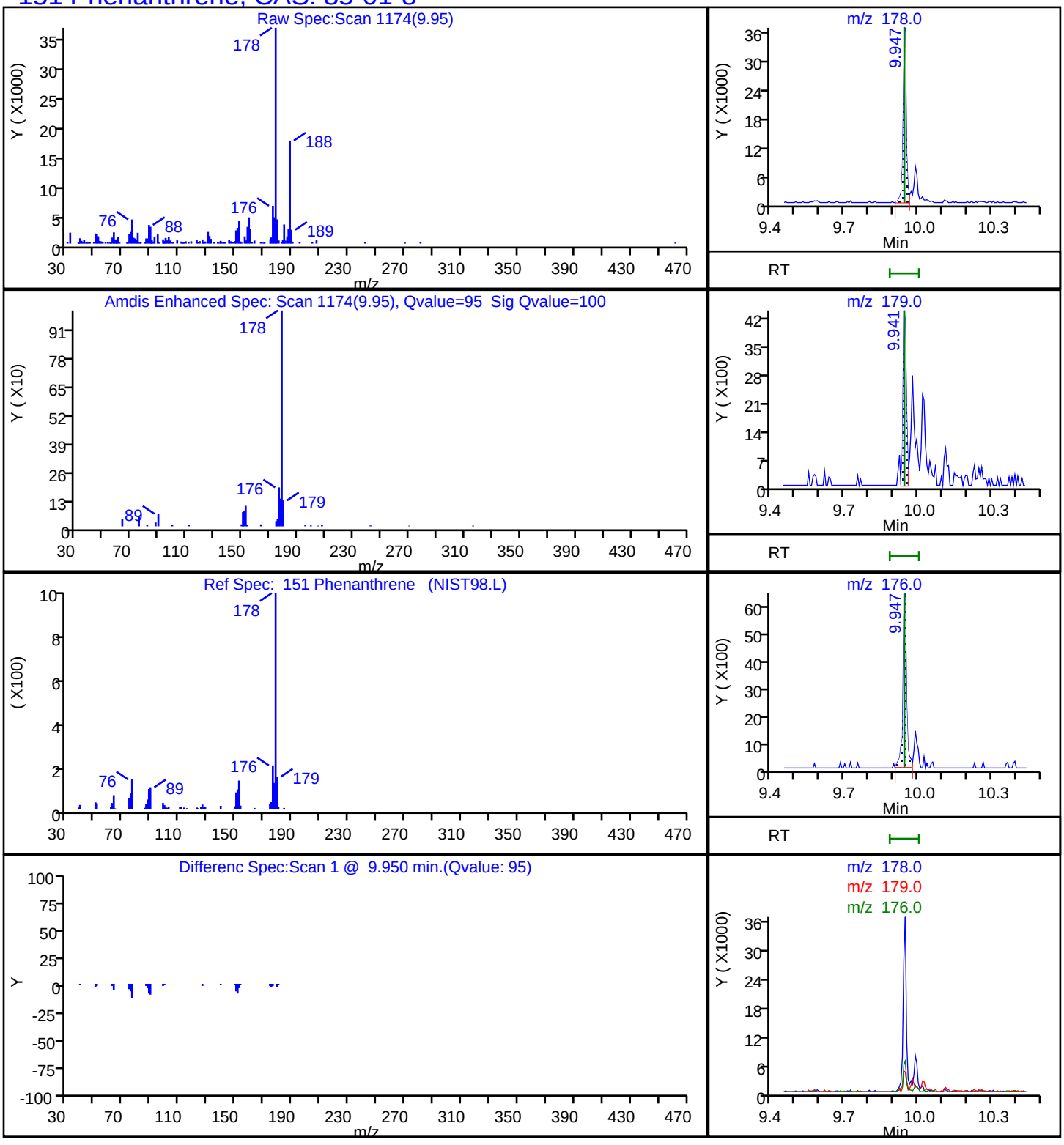
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

151 Phenanthrene, CAS: 85-01-8



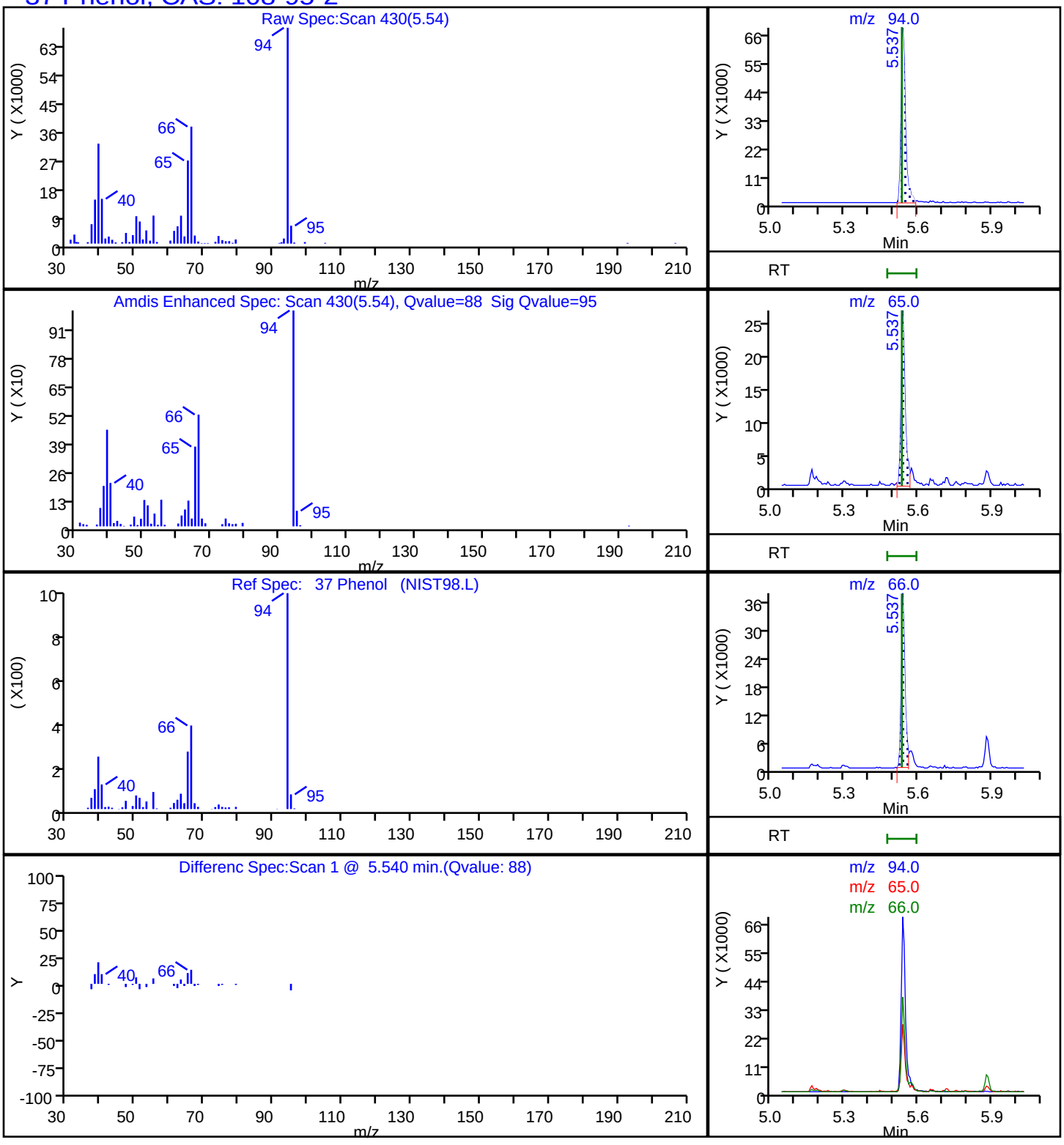
Report Date: 30-Oct-2024 16:06:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D

Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3
Client ID:	MW-BCP-10A-10242024		
Operator ID:	JM	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

37 Phenol, CAS: 108-95-2



Manual Integration/User Assign Peak Report

Eurofins Buffalo

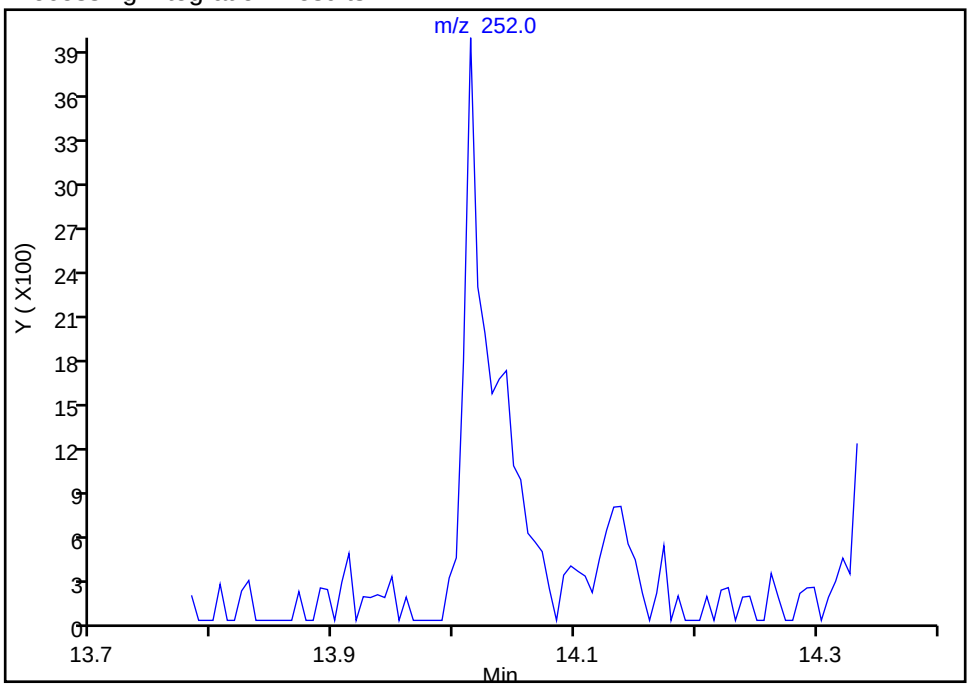
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D				
Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

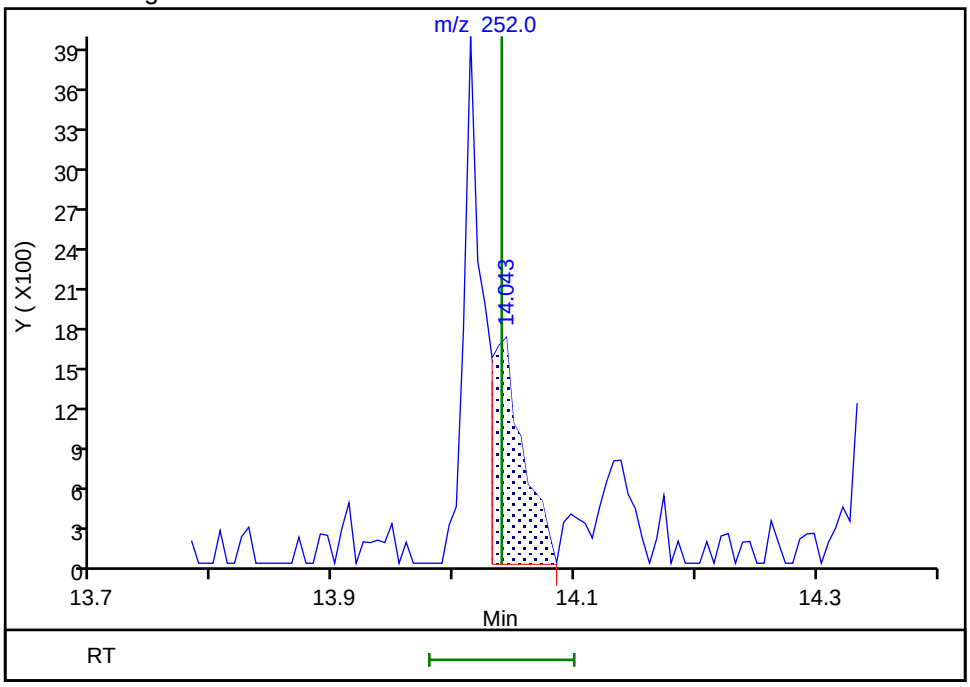
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 3069
Amount: 0.018906
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:59:26 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

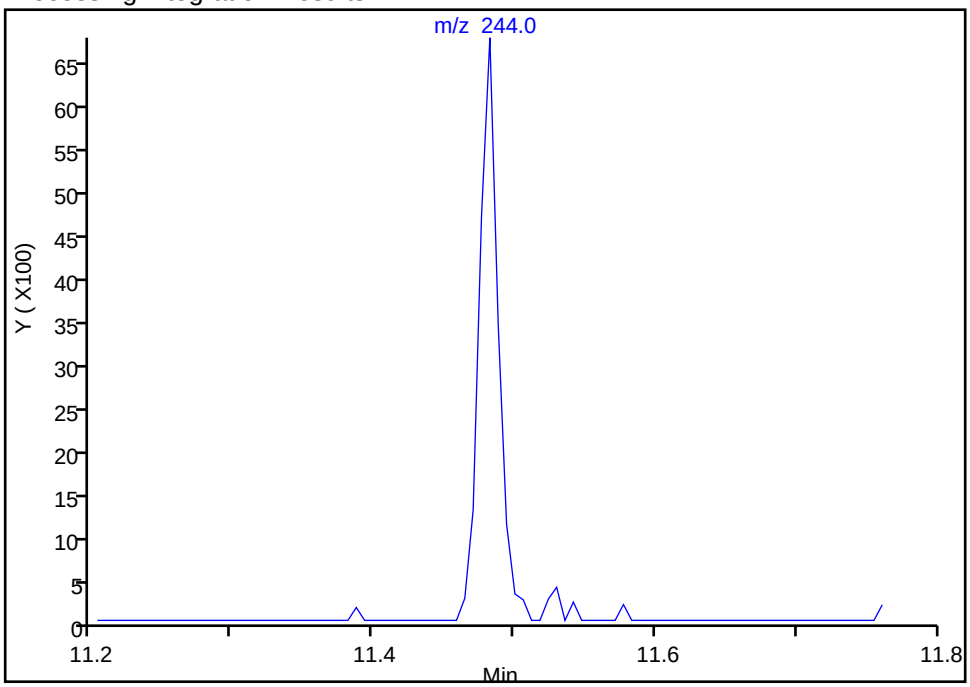
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04604.D				
Injection Date:	30-Oct-2024 11:12:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-3-A	Lab Sample ID:	480-224869-3		
Client ID:	MW-BCP-10A-10242024				
Operator ID:	JM	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

$ 12 p-Terphenyl-d14, CAS: 1718-51-0

Signal: 1

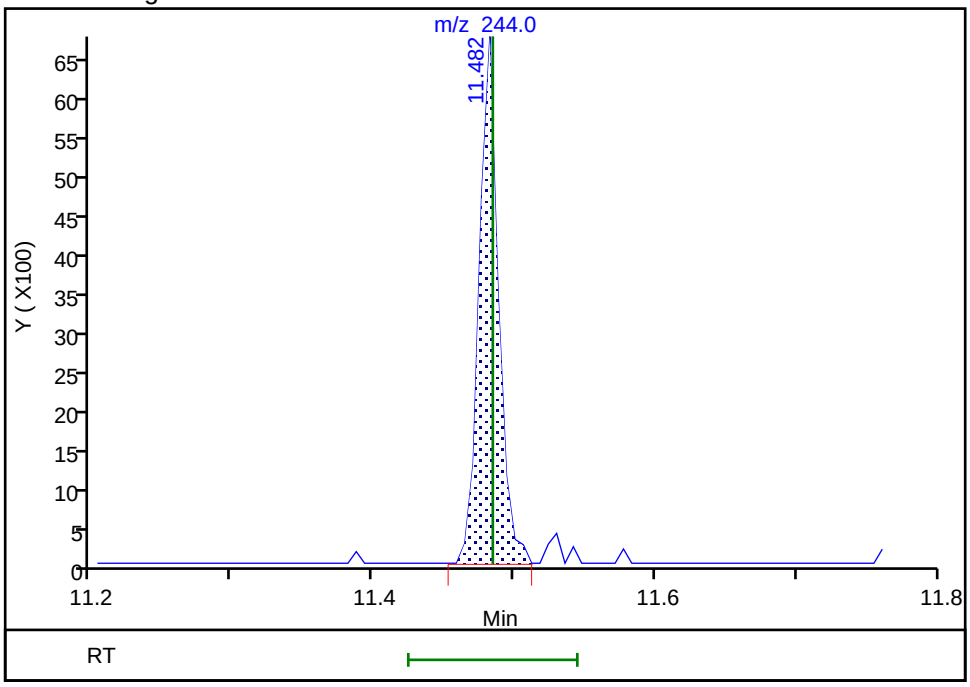
Not Detected
Expected RT: 11.48

Processing Integration Results



Manual Integration Results

RT: 11.48
Area: 6453
Amount: 0.053173
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:58:48 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-11A-10242024 | Lab Sample ID: 480-224869-5

Matrix: Water | Lab File ID: Y04590.D

Analysis Method: 8270D | Date Collected: 10/24/2024 11:35

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 19:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND	*+	10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-11A-10242024 | Lab Sample ID: 480-224869-5

Matrix: Water | Lab File ID: Y04590.D

Analysis Method: 8270D | Date Collected: 10/24/2024 11:35

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 19:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		5.0	0.36
50-32-8	Benzo(a)pyrene	ND		5.0	0.47
205-99-2	Benzo(b)fluoranthene	0.48	J	5.0	0.34
191-24-2	Benzo(g,h,i)perylene	ND		5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2

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SDG No.:

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Matrix: Water | Lab File ID: Y04590.D

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Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 19:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	79		25-144
321-60-8	2-Fluorobiphenyl	82		53-126
367-12-4	2-Fluorophenol	63		24-120
4165-60-0	Nitrobenzene-d5	91		29-129
1718-51-0	p-Terphenyl-d14	79		33-132
4165-62-2	Phenol-d5	46		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D
Lims ID: 480-224869-B-5-A
Client ID: MW-BCP-11A-10242024
Sample Type: Client
Inject. Date: 29-Oct-2024 19:56:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-021
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:06:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.000	97	162319	4.00	
* 2 Naphthalene-d8	136	7.090	7.089	0.001	99	604078	4.00	
* 3 Acenaphthene-d10	164	8.649	8.648	0.001	93	349640	4.00	
* 4 Phenanthrene-d10	188	9.923	9.929	-0.006	97	591859	4.00	
* 5 Chrysene-d12	240	12.774	12.774	0.000	99	494590	4.00	
* 6 Perylene-d12	264	14.464	14.463	0.001	97	548241	4.00	
$ 7 2-Fluorophenol	112	4.671	4.644	0.030	92	250864	5.02	
$ 8 Phenol-d5	99	5.531	5.527	0.007	88	229750	3.72	
$ 9 Nitrobenzene-d5	82	6.414	6.410	0.000	97	420756	7.24	
$ 10 2-Fluorobiphenyl	172	8.038	8.040	0.000	99	785432	6.54	
$ 11 2,4,6-Tribromophenol	330	9.330	9.327	0.000	82	92677	6.32	
$ 12 p-Terphenyl-d14	244	11.482	11.484	0.000	97	847763	6.32	
35 Benzaldehyde	77		5.471				ND	
37 Phenol	94		5.536				ND	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108		6.111				ND	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108		6.254				ND	
52 Acetophenone	105		6.265				ND	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107		6.751				ND	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.107	7.113	0.000	96	11938	0.0748	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113		7.463				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142	7.730	7.726	0.000	88	1304	0.0132	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154		8.133				ND	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152		8.530				ND	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153		8.678				ND	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	
115 Dibenzofuran	168		8.826				ND	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166		9.123				ND	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.947	9.946	0.000	93	6784	0.0415	
152 Anthracene	178		9.988				ND	U
153 Carbazole	167		10.118				ND	
157 Di-n-butyl phthalate	149	10.356	10.352	0.000	97	5629	0.0301	
164 Fluoranthene	202	11.109	11.104	0.001	97	13641	0.0785	
167 Pyrene	202	11.369	11.366	0.000	97	13519	0.0816	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228	12.756	12.764	-0.006	96	11974	0.0707	
182 Chrysene	228	12.804	12.809	-0.006	92	11725	0.0758	
184 Di-n-octyl phthalate	149		13.420				ND	U
186 Benzo[b]fluoranthene	252	14.013	14.019	0.006	97	17834	0.1207	
187 Benzo[k]fluoranthene	252	14.043	14.037	0.006	1	6034	0.0343	Ma
189 Benzo[a]pyrene	252	14.398	14.401	0.000	79	8363	0.0759	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276	15.969	15.942	0.024	94	7285	0.0577	
195 Benzo[g,h,i]perylene	276	16.420	16.417	0.024	60	6942	0.0624	M

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

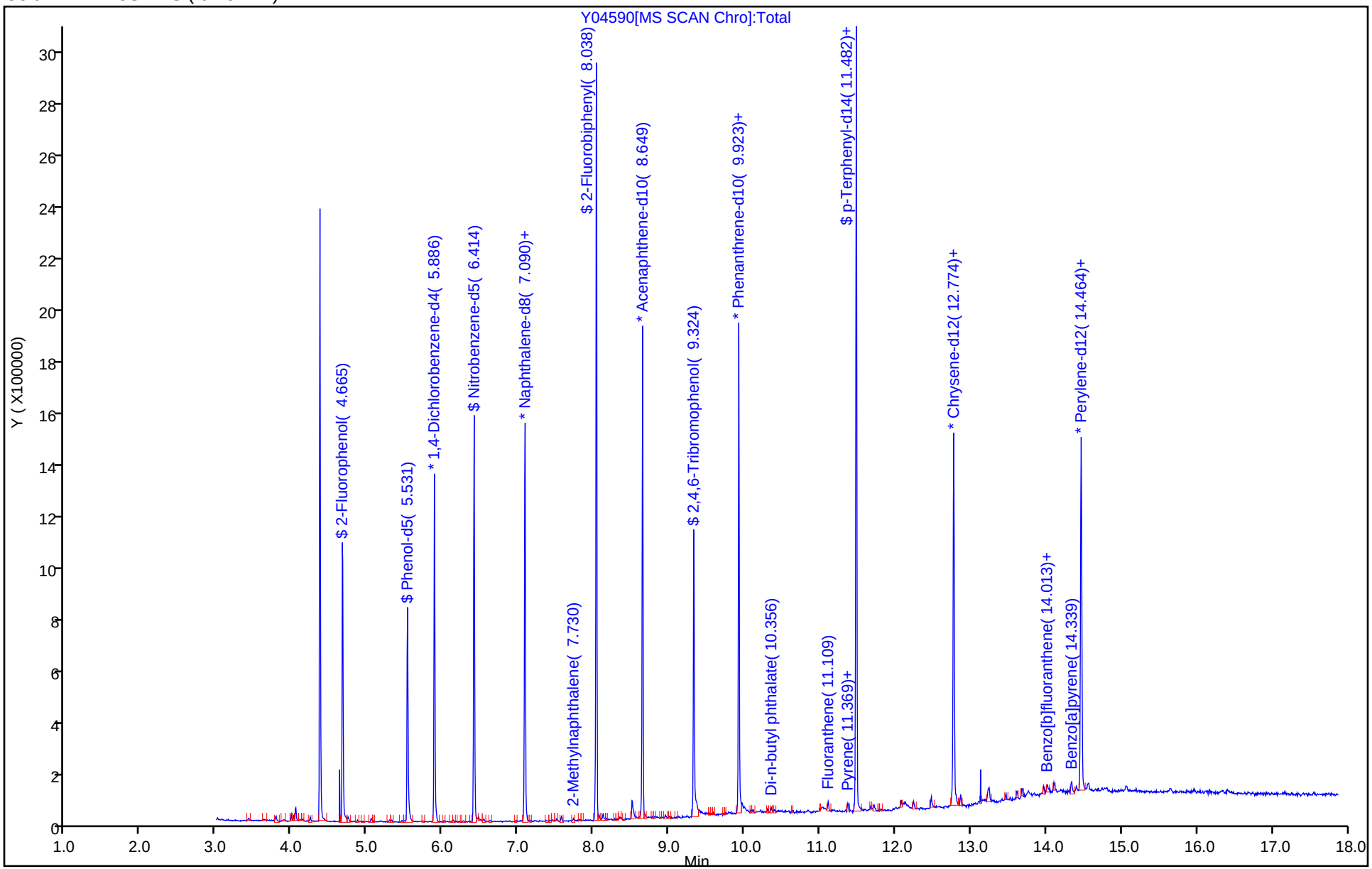
Report Date: 30-Oct-2024 15:17:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D

Injection Date:	29-Oct-2024 19:56:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-5-A	Lab Sample ID:	480-224869-5	Worklist Smp#:	21
Client ID:	MW-BCP-11A-10242024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D
Lims ID: 480-224869-B-5-A
Client ID: MW-BCP-11A-10242024
Sample Type: Client
Inject. Date: 29-Oct-2024 19:56:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-021
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:06:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.02	62.70
$ 8 Phenol-d5	8.00	3.72	46.48
$ 9 Nitrobenzene-d5	8.00	7.24	90.50
$ 10 2-Fluorobiphenyl	8.00	6.54	81.70
$ 11 2,4,6-Tribromophenol	8.00	6.32	78.95
$ 12 p-Terphenyl-d14	8.00	6.32	79.04

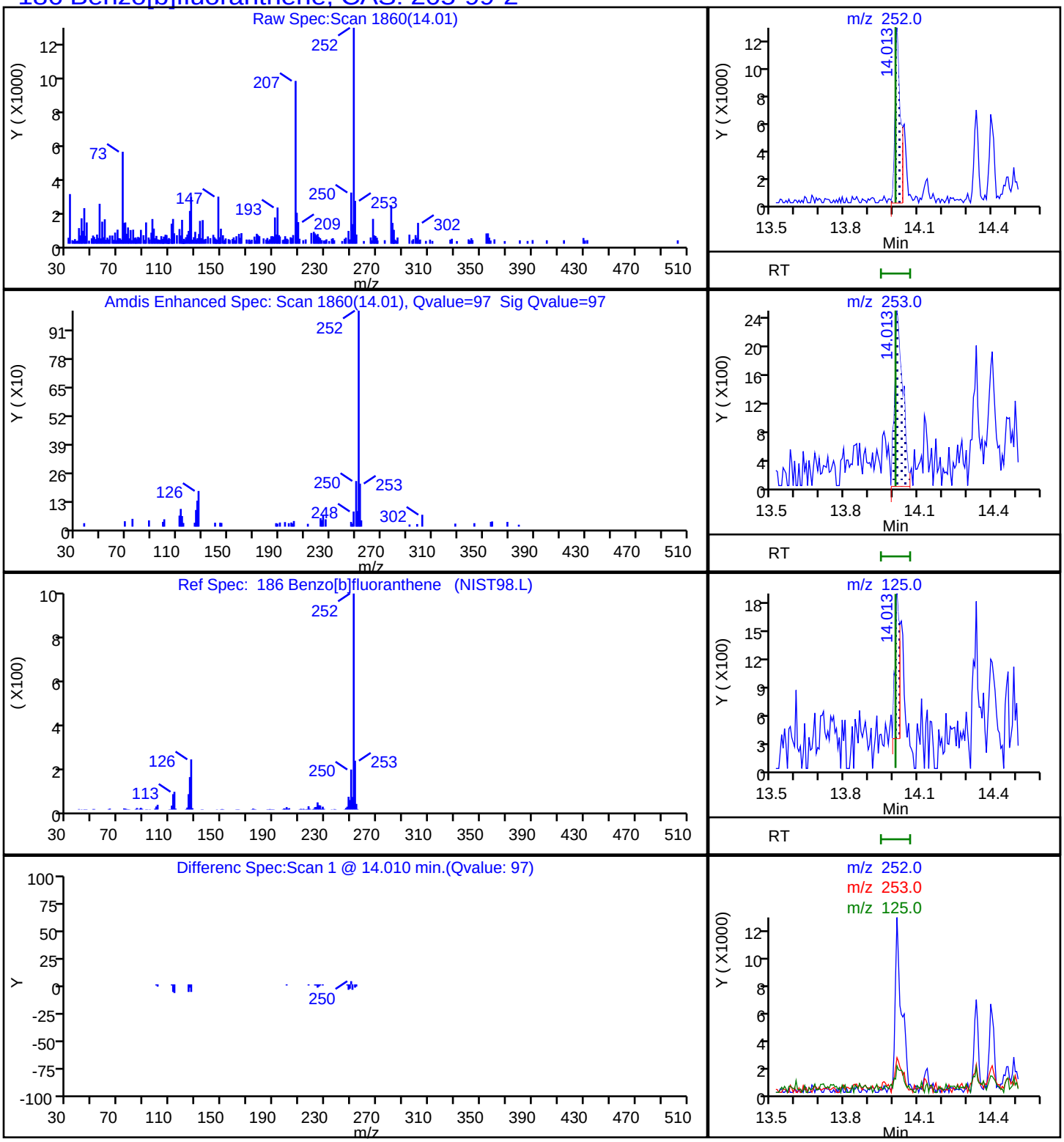
Report Date: 30-Oct-2024 15:17:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D

Injection Date:	29-Oct-2024 19:56:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-5-A	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	JM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2



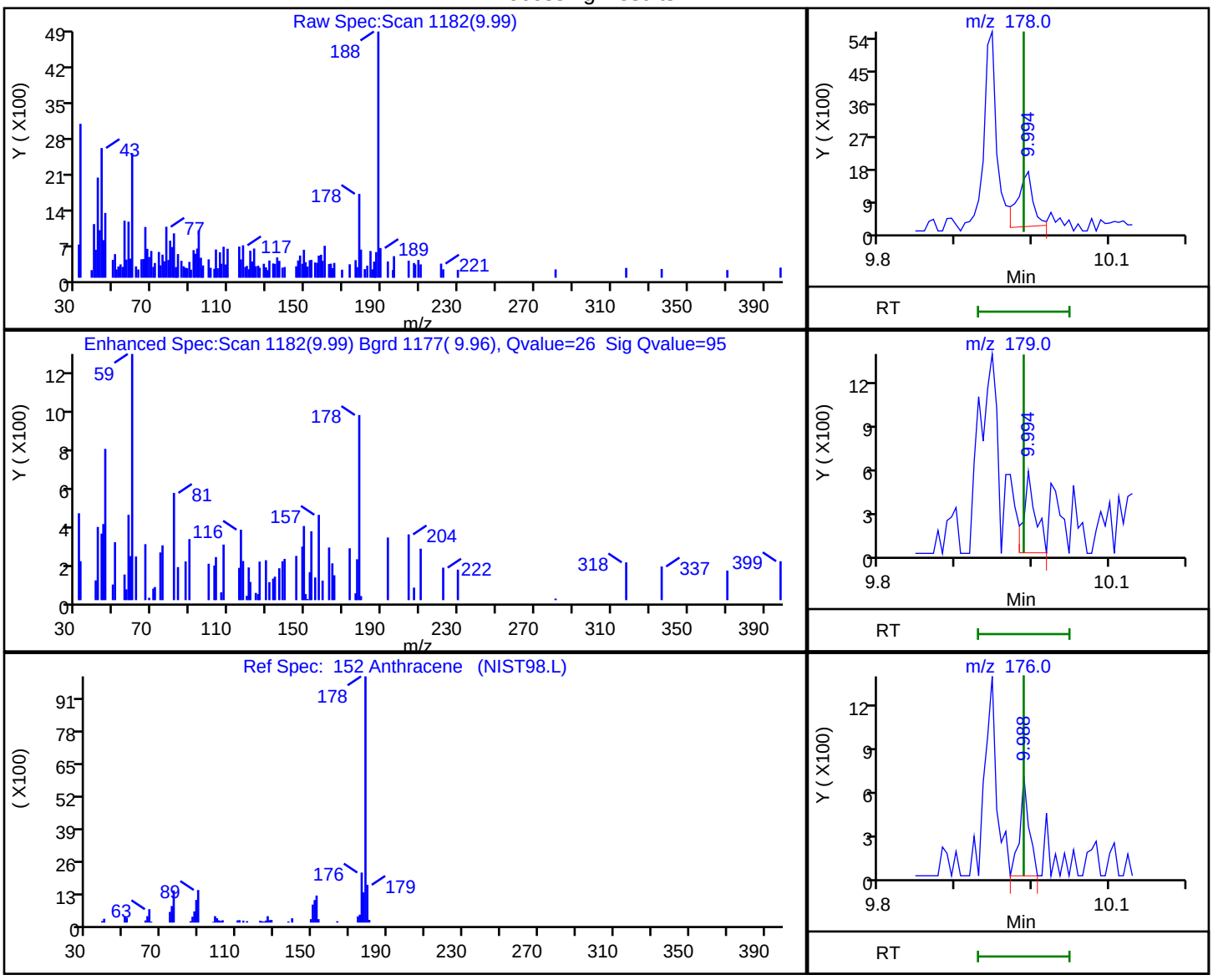
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D				
Injection Date:	29-Oct-2024 19:56:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-5-A	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	JM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

152 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
9.99	178.00	2149	0.013127
9.99	179.00	599	
9.99	176.00	584	

Reviewer: IZ8L, 30-Oct-2024 15:06:30 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

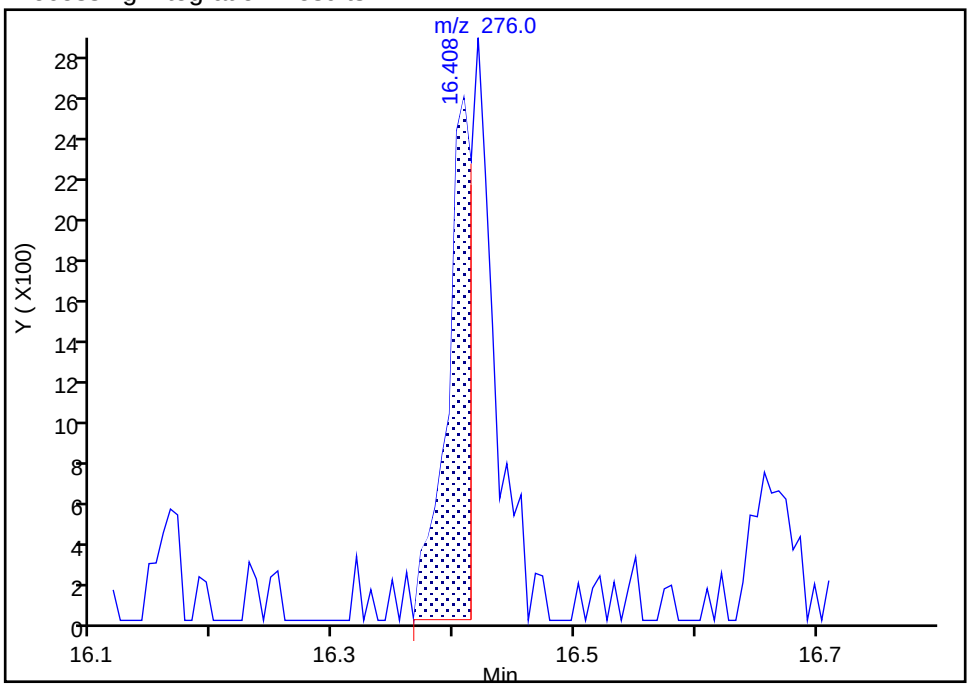
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D				
Injection Date:	29-Oct-2024 19:56:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-5-A	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	JM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

195 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

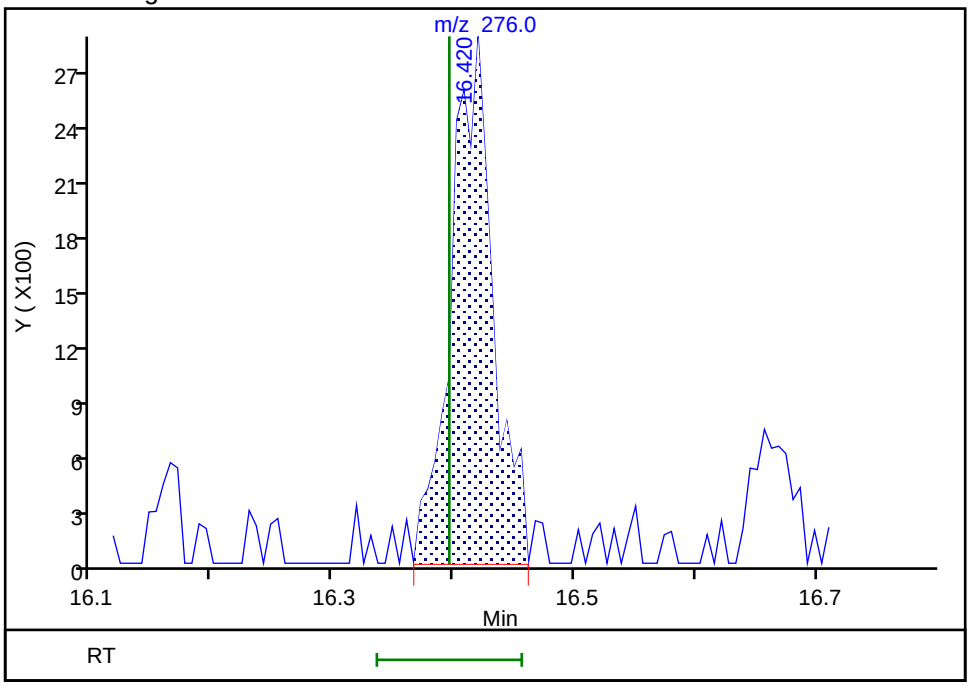
Processing Integration Results

RT: 16.41
Area: 3710
Amount: 0.041023
Amount Units: ng/uL



Manual Integration Results

RT: 16.42
Area: 6942
Amount: 0.062445
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:06:01 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Buffalo

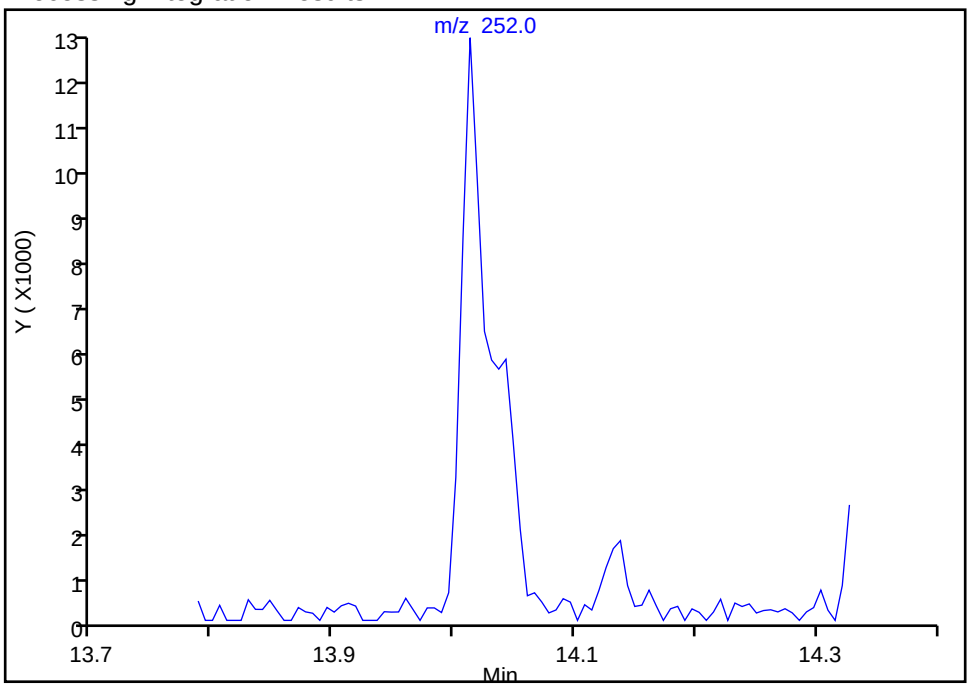
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D				
Injection Date:	29-Oct-2024 19:56:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-5-A	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	JM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

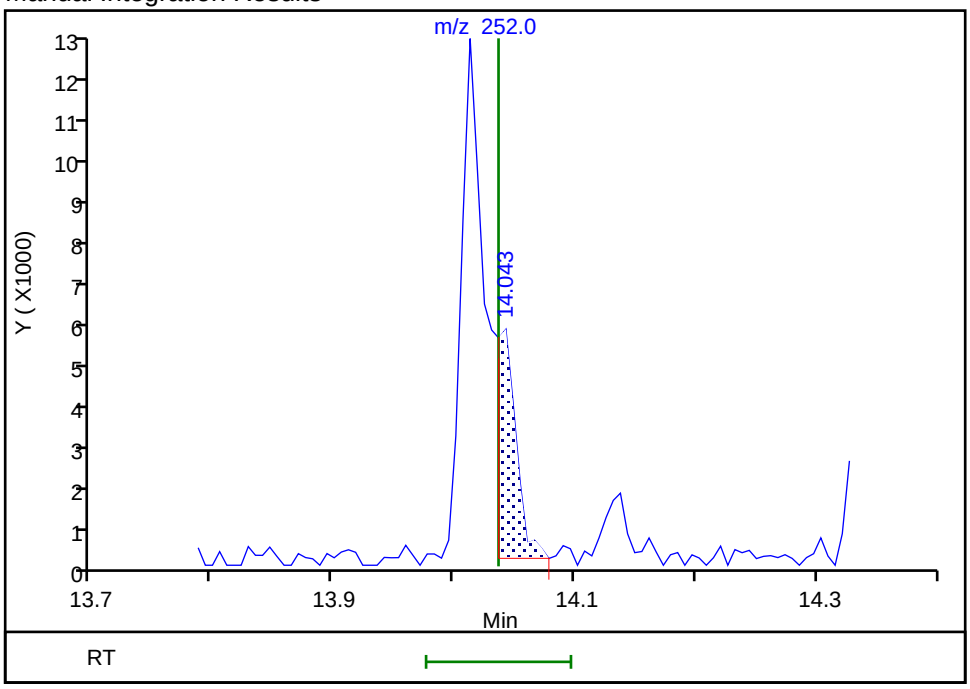
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 6034
Amount: 0.034326
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:06:49 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

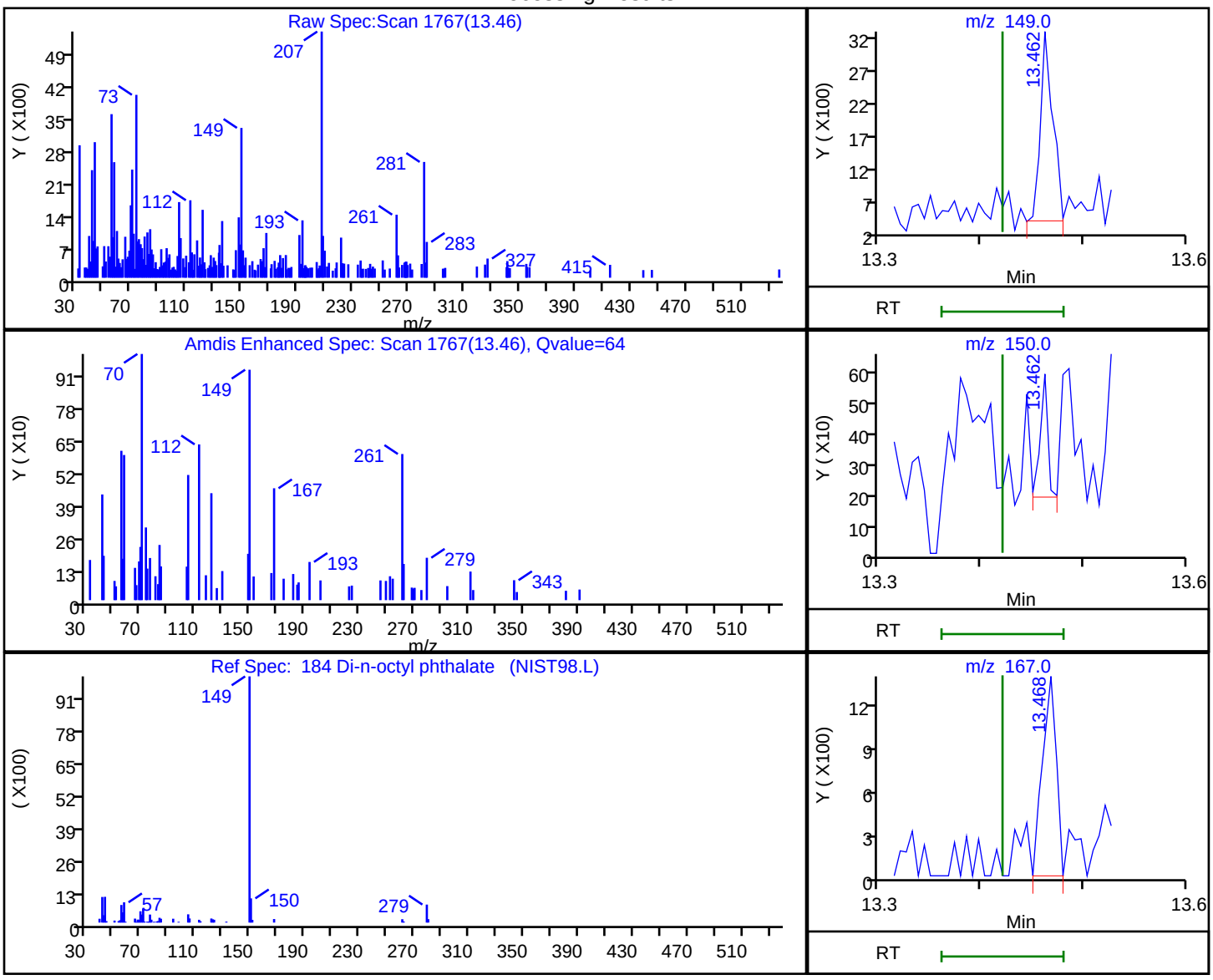
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04590.D				
Injection Date:	29-Oct-2024 19:56:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-5-A	Lab Sample ID:	480-224869-5		
Client ID:	MW-BCP-11A-10242024				
Operator ID:	JM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

184 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
13.46	149.00	2388	0.092728
13.46	150.00	208	
13.47	167.00	1320	

Reviewer: IZ8L, 30-Oct-2024 15:06:38 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-12A-10242024 | Lab Sample ID: 480-224869-7

Matrix: Water | Lab File ID: Y04591.D

Analysis Method: 8270D | Date Collected: 10/24/2024 03:15

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 20:23

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND	*+	10	1.5
83-32-9	Acenaphthene	0.46	J	5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	0.40	J	5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-12A-10242024 | Lab Sample ID: 480-224869-7

Matrix: Water | Lab File ID: Y04591.D

Analysis Method: 8270D | Date Collected: 10/24/2024 03:15

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 20:23

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	0.68	J	5.0	0.36
50-32-8	Benzo(a)pyrene	0.78	J	5.0	0.47
205-99-2	Benzo(b)fluoranthene	0.86	J	5.0	0.34
191-24-2	Benzo(g,h,i)perylene	0.51	J	5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	0.75	J	5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	1.7	J	5.0	0.40
86-73-7	Fluorene	0.64	J	5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-12A-10242024 | Lab Sample ID: 480-224869-7

Matrix: Water | Lab File ID: Y04591.D

Analysis Method: 8270D | Date Collected: 10/24/2024 03:15

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 20:23

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	1.2	J	5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	1.3	J	5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	86		25-144
321-60-8	2-Fluorobiphenyl	78		53-126
367-12-4	2-Fluorophenol	61		24-120
4165-60-0	Nitrobenzene-d5	84		29-129
1718-51-0	p-Terphenyl-d14	69		33-132
4165-62-2	Phenol-d5	43		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D
Lims ID: 480-224869-B-7-A
Client ID: MW-BCP-12A-10242024
Sample Type: Client
Inject. Date: 29-Oct-2024 20:23:30 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-022
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:07:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.890	5.886	0.004	97	162631	4.00	
* 2 Naphthalene-d8	136	7.087	7.089	-0.002	99	615840	4.00	
* 3 Acenaphthene-d10	164	8.646	8.648	-0.002	94	350501	4.00	
* 4 Phenanthrene-d10	188	9.926	9.929	-0.003	97	606653	4.00	
* 5 Chrysene-d12	240	12.772	12.774	-0.002	99	520031	4.00	
* 6 Perylene-d12	264	14.467	14.463	0.004	97	589136	4.00	
$ 7 2-Fluorophenol	112	4.668	4.644	0.027	92	243638	4.86	
$ 8 Phenol-d5	99	5.528	5.527	0.004	89	214612	3.47	
$ 9 Nitrobenzene-d5	82	6.411	6.410	-0.003	97	398172	6.72	
$ 10 2-Fluorobiphenyl	172	8.035	8.040	-0.003	99	747832	6.21	
$ 11 2,4,6-Tribromophenol	330	9.328	9.327	-0.002	82	103788	6.89	
$ 12 p-Terphenyl-d14	244	11.485	11.484	0.003	97	777903	5.52	
35 Benzaldehyde	77		5.471				ND	
37 Phenol	94		5.536				ND	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108		6.111				ND	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.269	6.314	0.015	85	2552	0.0514	
52 Acetophenone	105		6.265				ND	U
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107		6.751				ND	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.111	7.113	0.004	95	29385	0.1806	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113		7.463				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142	7.727	7.726	-0.003	85	5276	0.0526	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154	8.130	8.132	-0.003	88	3567	0.0277	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152	8.533	8.532	0.003	95	11115	0.0716	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153	8.676	8.675	-0.002	96	12066	0.1161	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	
115 Dibenzofuran	168	8.824	8.829	-0.002	96	14214	0.1011	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166	9.120	9.125	-0.003	91	17559	0.1611	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.944	9.946	-0.003	97	48219	0.2875	
152 Anthracene	178	9.992	10.001	0.004	97	16667	0.0993	
153 Carbazole	167	10.122	10.149	0.004	91	6440	0.0432	
157 Di-n-butyl phthalate	149	10.359	10.352	0.003	97	5874	0.0306	
164 Fluoranthene	202	11.112	11.104	0.004	98	75200	0.4224	
167 Pyrene	202	11.373	11.366	0.004	95	58011	0.3331	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228	12.760	12.764	-0.002	96	30106	0.1691	
182 Chrysene	228	12.807	12.809	-0.003	95	30424	0.1870	
184 Di-n-octyl phthalate	149		13.420				ND	
186 Benzo[b]fluoranthene	252	14.011	14.019	0.003	97	36885	0.2146	
187 Benzo[k]fluoranthene	252	14.034	14.037	-0.003	91	22304	0.1181	Ma
189 Benzo[a]pyrene	252	14.402	14.401	0.004	77	29032	0.1949	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276	15.961	15.942	0.016	96	19826	0.1158	
195 Benzo[g,h,i]perylene	276	16.417	16.417	0.021	95	17926	0.1270	a

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

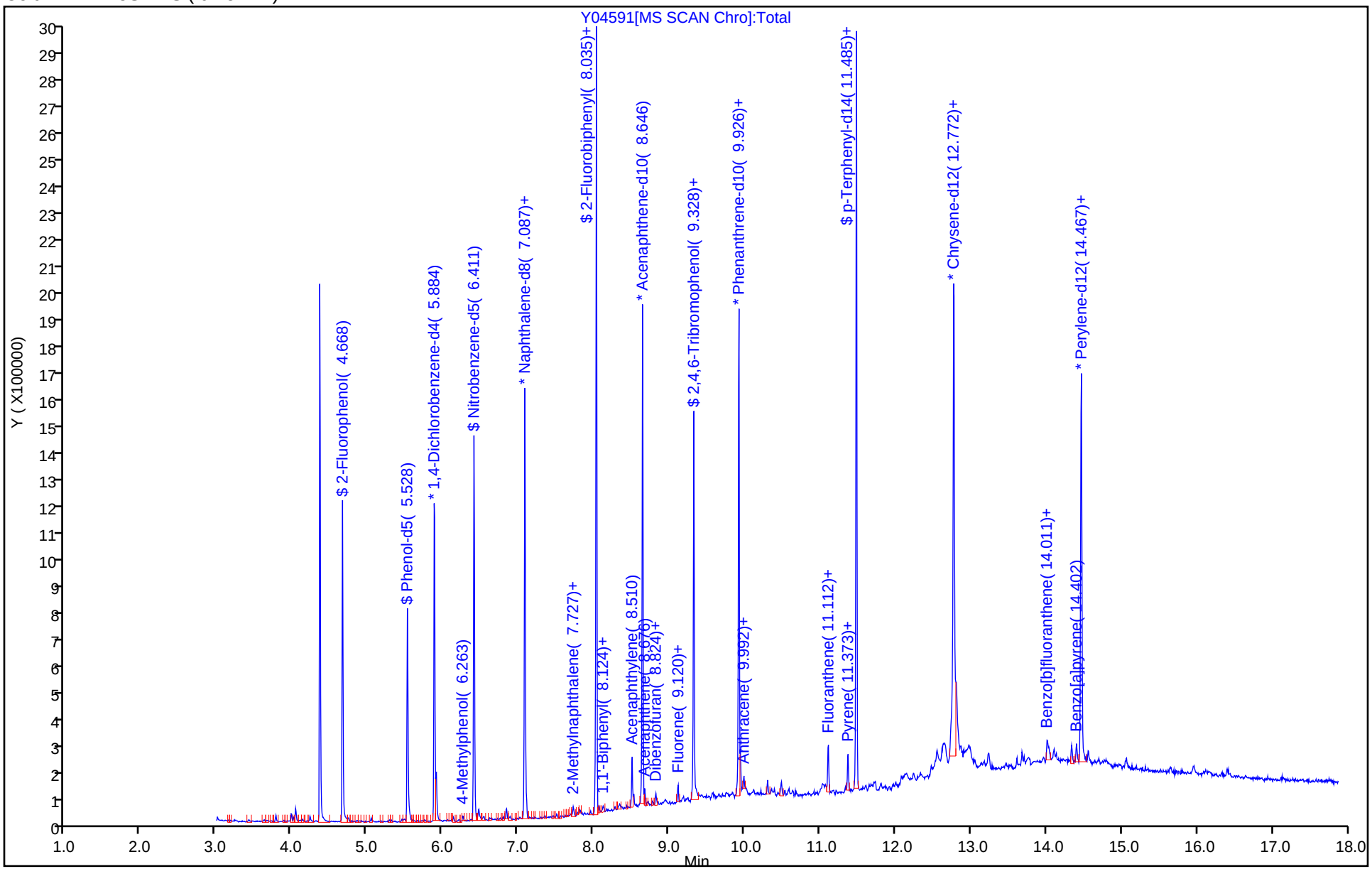
Report Date: 30-Oct-2024 15:17:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D

Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7	Worklist Smp#:	22
Client ID:	MW-BCP-12A-10242024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D
Lims ID: 480-224869-B-7-A
Client ID: MW-BCP-12A-10242024
Sample Type: Client
Inject. Date: 29-Oct-2024 20:23:30 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-022
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

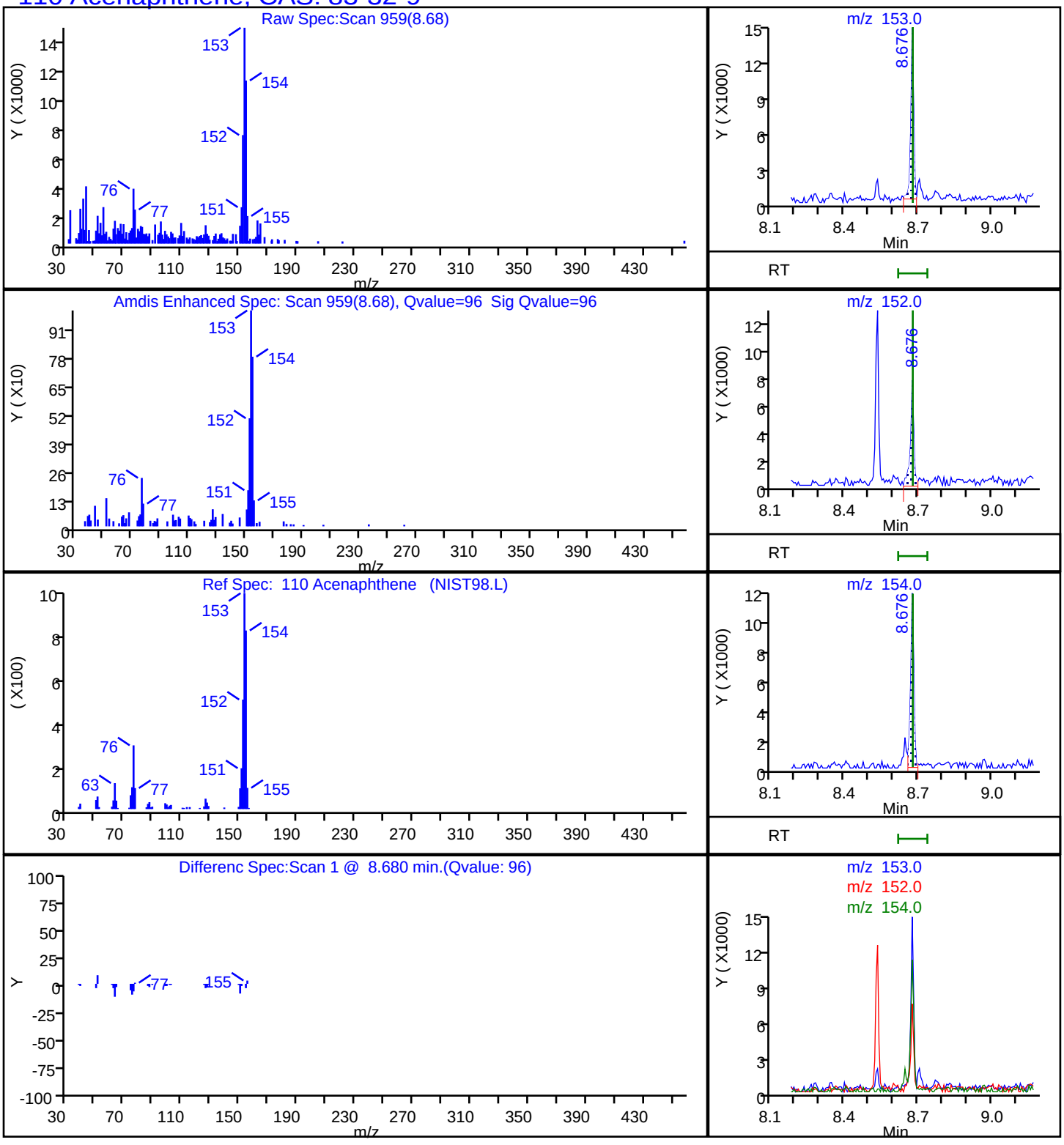
First Level Reviewer: IZ8L Date: 30-Oct-2024 15:07:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	4.86	60.78
$ 8 Phenol-d5	8.00	3.47	43.33
$ 9 Nitrobenzene-d5	8.00	6.72	84.05
$ 10 2-Fluorobiphenyl	8.00	6.21	77.60
$ 11 2,4,6-Tribromophenol	8.00	6.89	86.06
$ 12 p-Terphenyl-d14	8.00	5.52	68.98

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D				
Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

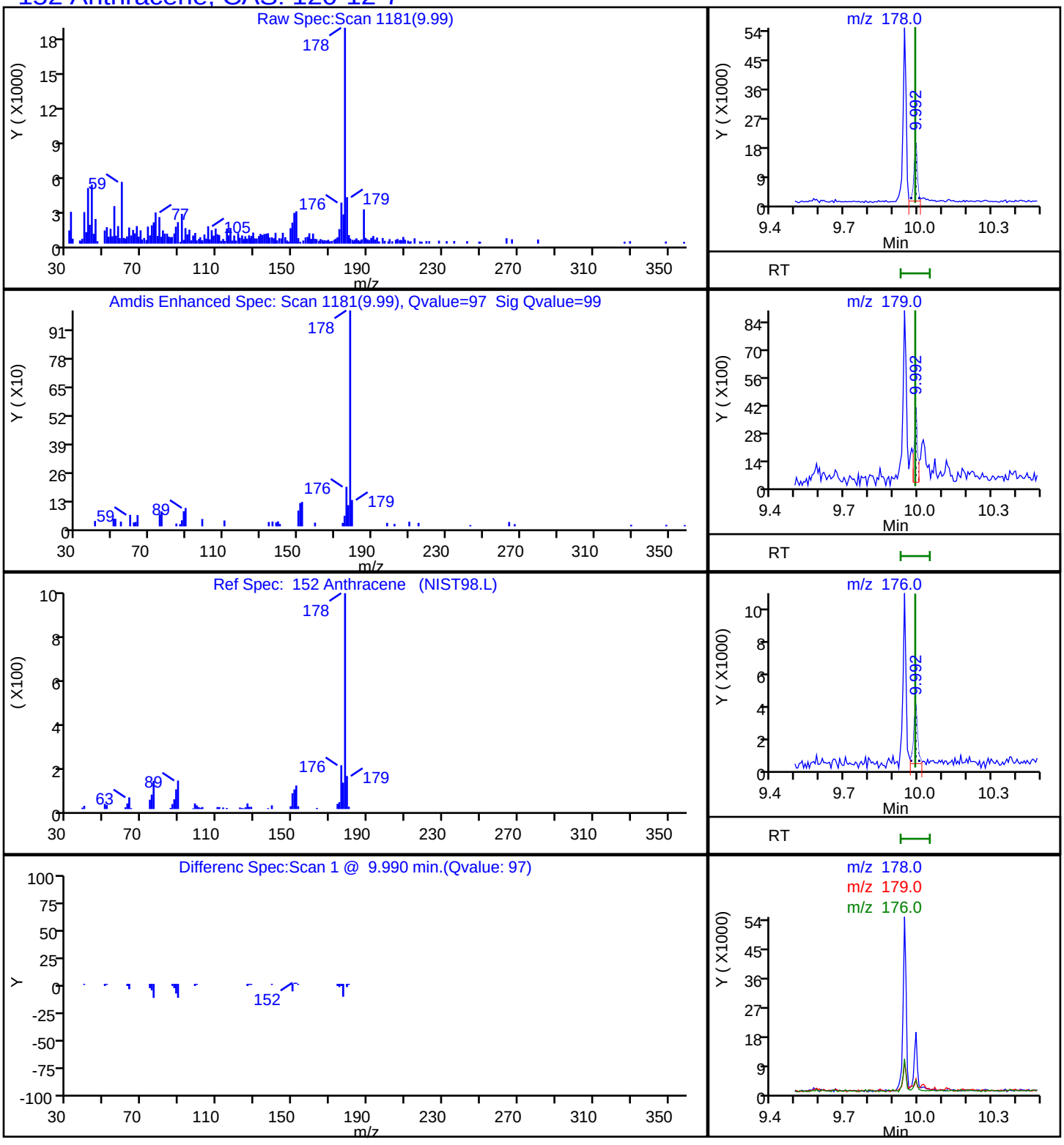
110 Acenaphthene, CAS: 83-32-9



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D
Injection Date: 29-Oct-2024 20:23:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-7-A Lab Sample ID: 480-224869-7
Client ID: MW-BCP-12A-10242024
Operator ID: JM ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

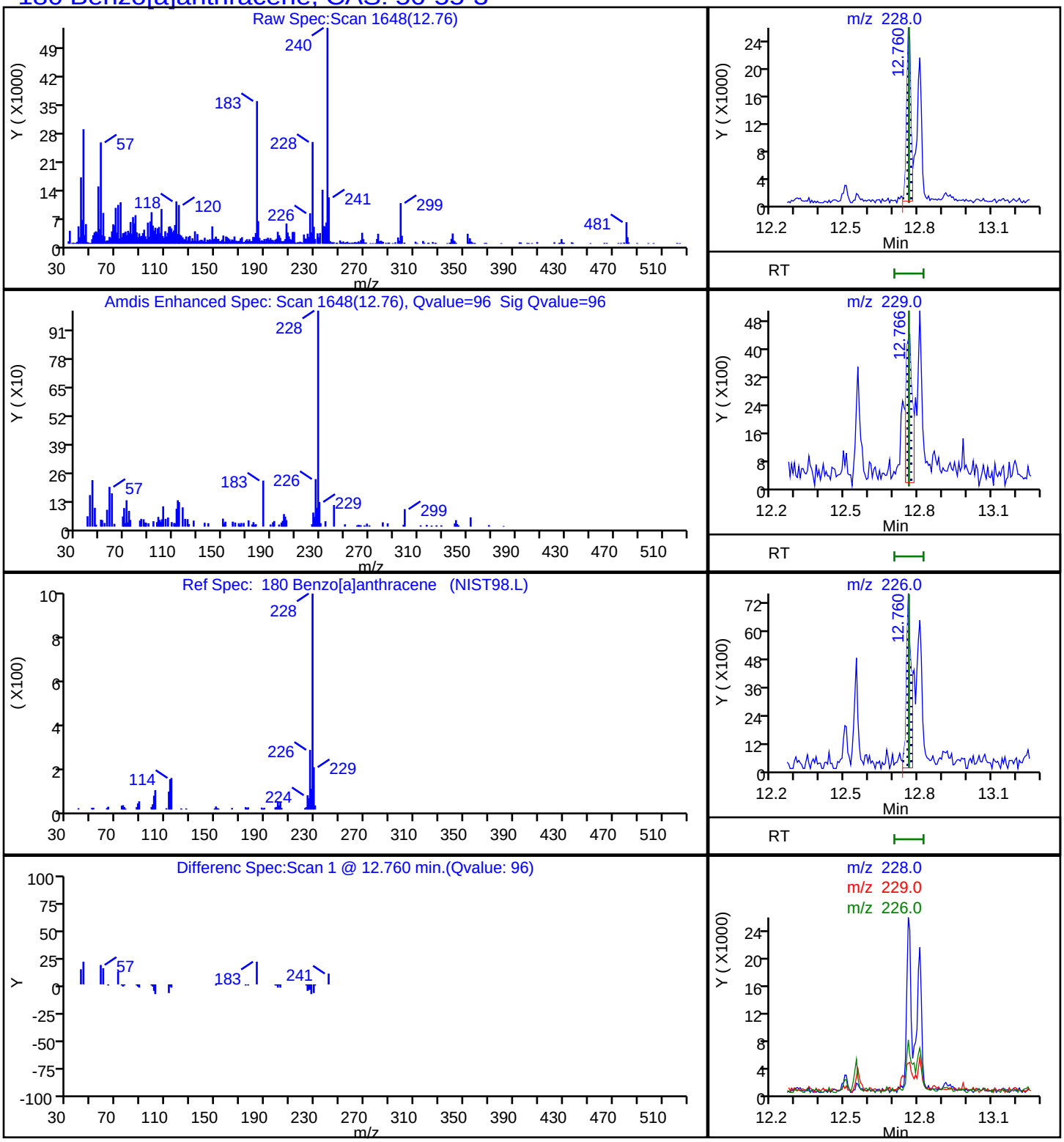
152 Anthracene, CAS: 120-12-7



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D
Injection Date: 29-Oct-2024 20:23:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-7-A Lab Sample ID: 480-224869-7
Client ID: MW-BCP-12A-10242024
Operator ID: JM ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

180 Benzo[a]anthracene, CAS: 56-55-3

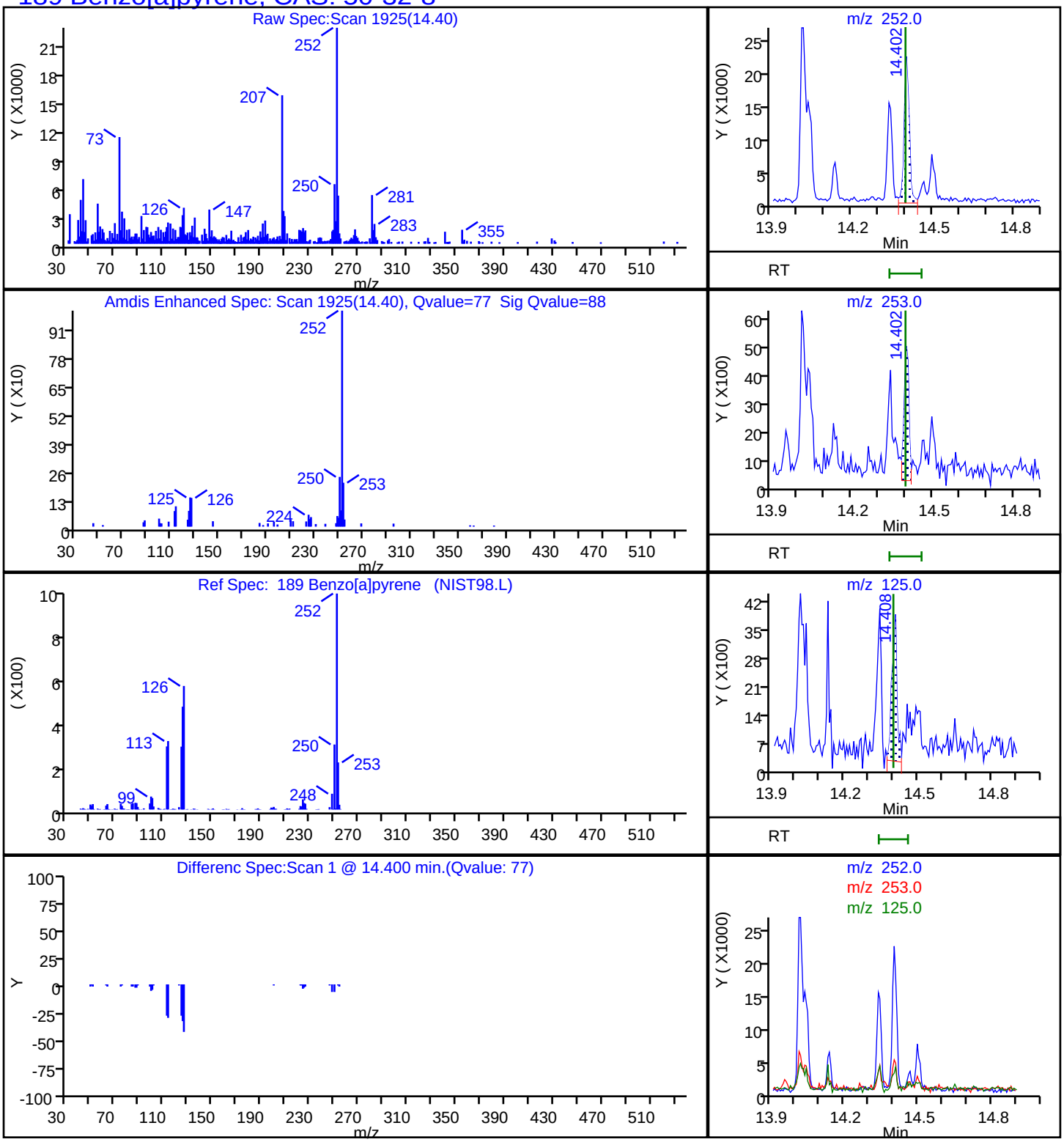


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D

Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

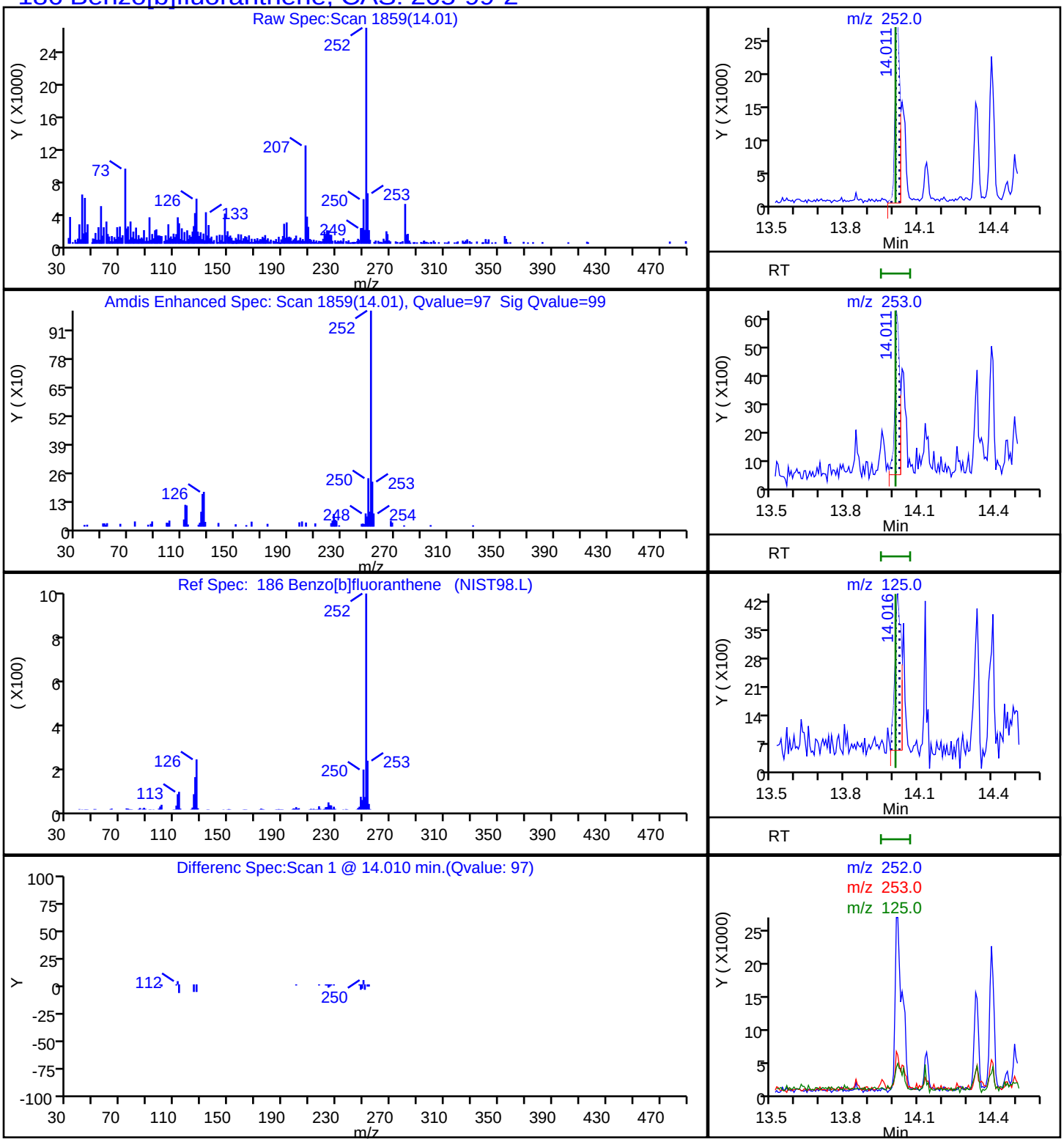
189 Benzo[a]pyrene, CAS: 50-32-8



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D				
Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2



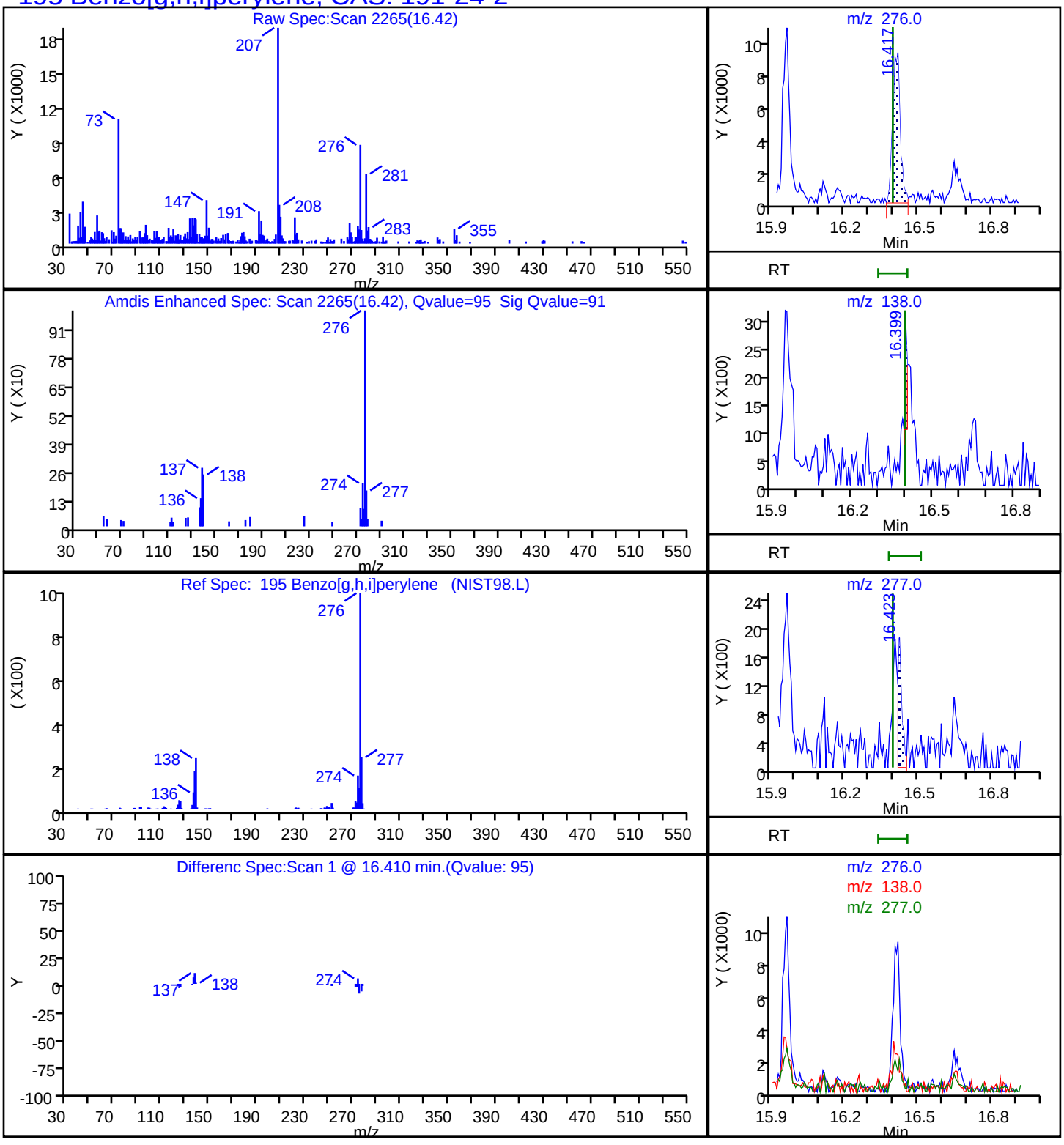
Report Date: 30-Oct-2024 15:17:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D

Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

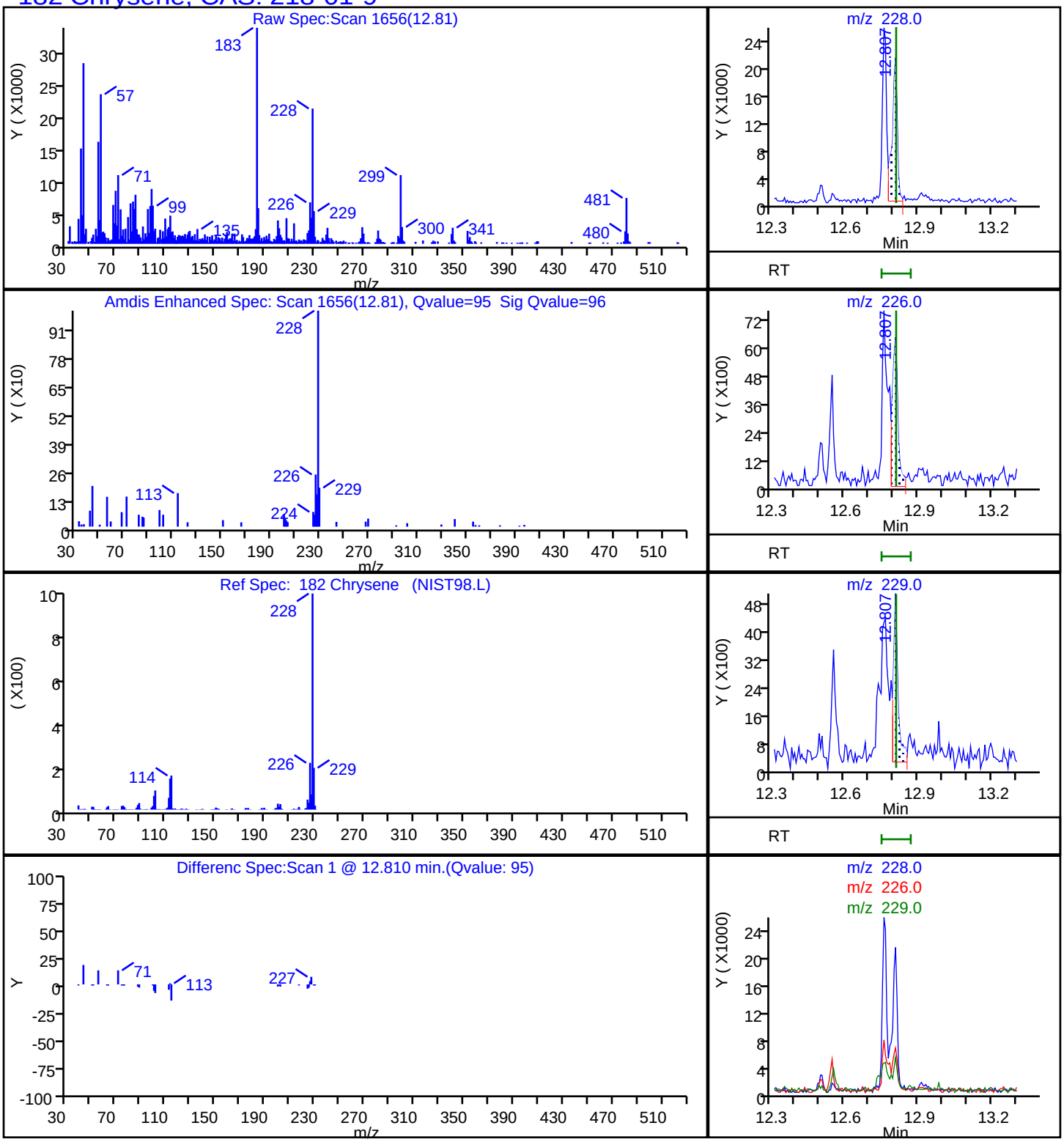
195 Benzo[g,h,i]perylene, CAS: 191-24-2



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D
Injection Date: 29-Oct-2024 20:23:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-7-A Lab Sample ID: 480-224869-7
Client ID: MW-BCP-12A-10242024
Operator ID: JM ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

182 Chrysene, CAS: 218-01-9



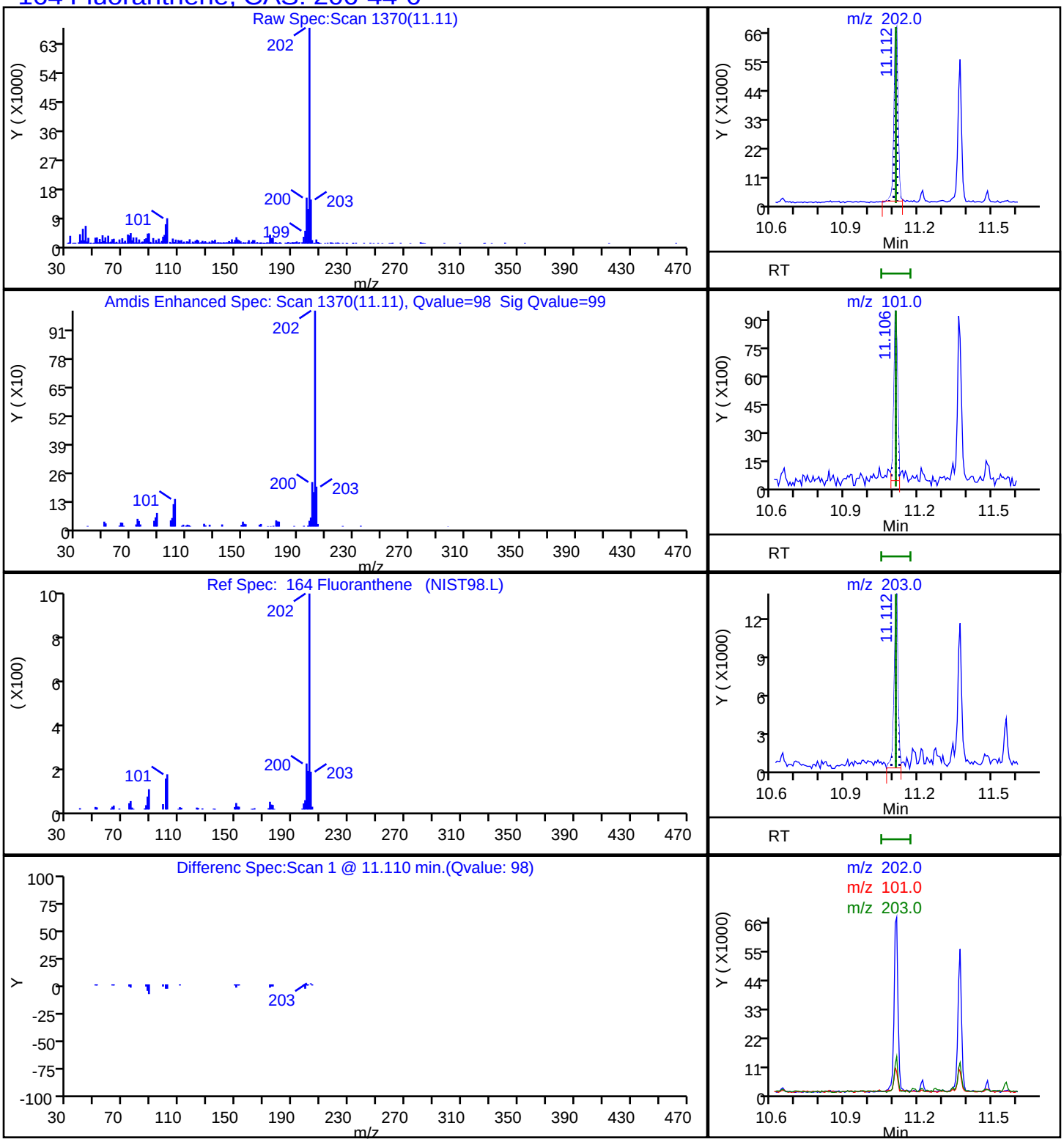
Report Date: 30-Oct-2024 15:17:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D

Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

164 Fluoranthene, CAS: 206-44-0



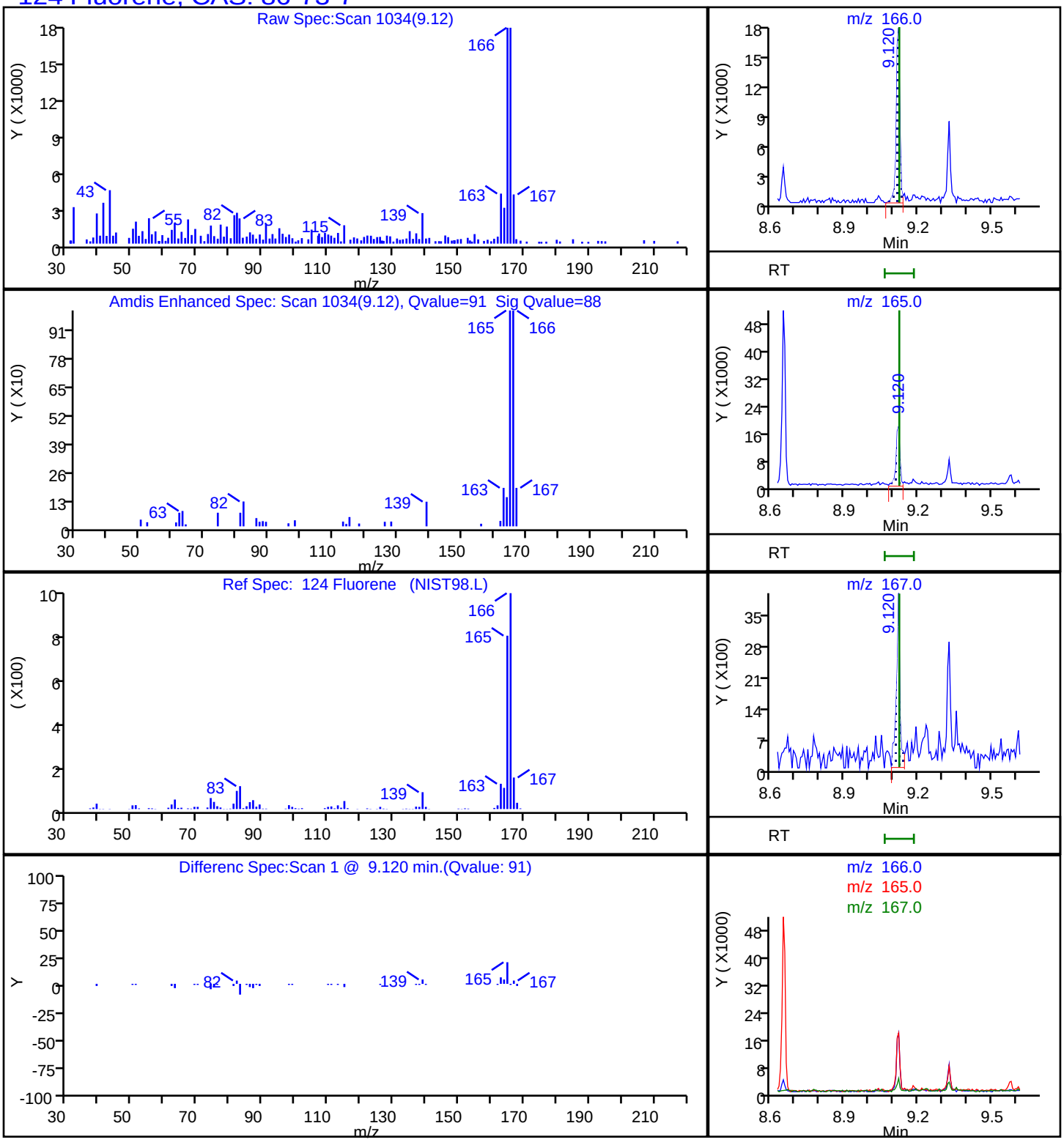
Report Date: 30-Oct-2024 15:17:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D

Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7
Client ID:	MW-BCP-12A-10242024		
Operator ID:	JM	ALS Bottle#:	22 Worklist Smp#: 22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

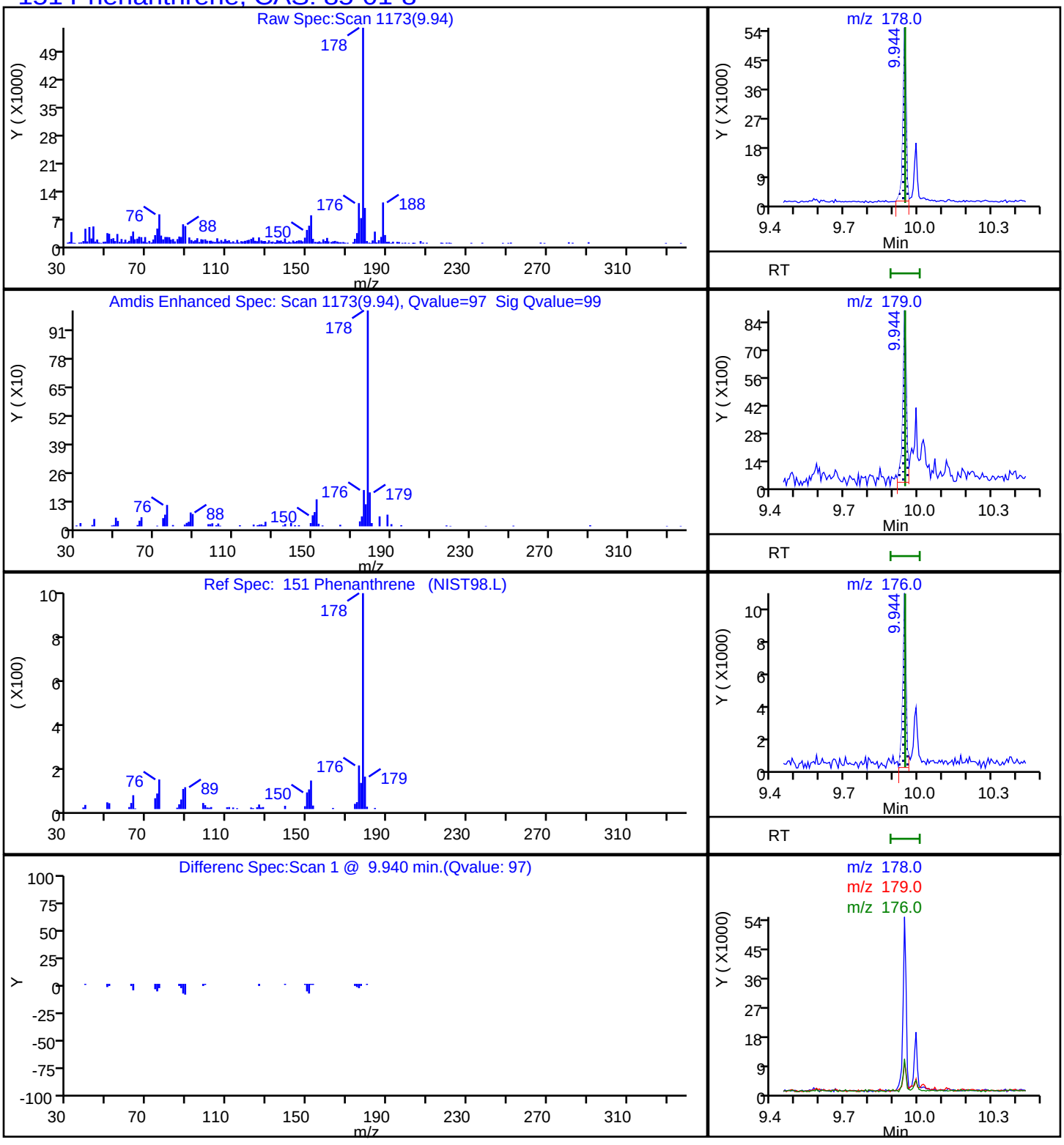
124 Fluorene, CAS: 86-73-7



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D
Injection Date: 29-Oct-2024 20:23:30 Instrument ID: HP5973Y
Lims ID: 480-224869-B-7-A Lab Sample ID: 480-224869-7
Client ID: MW-BCP-12A-10242024
Operator ID: JM ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

151 Phenanthrene, CAS: 85-01-8

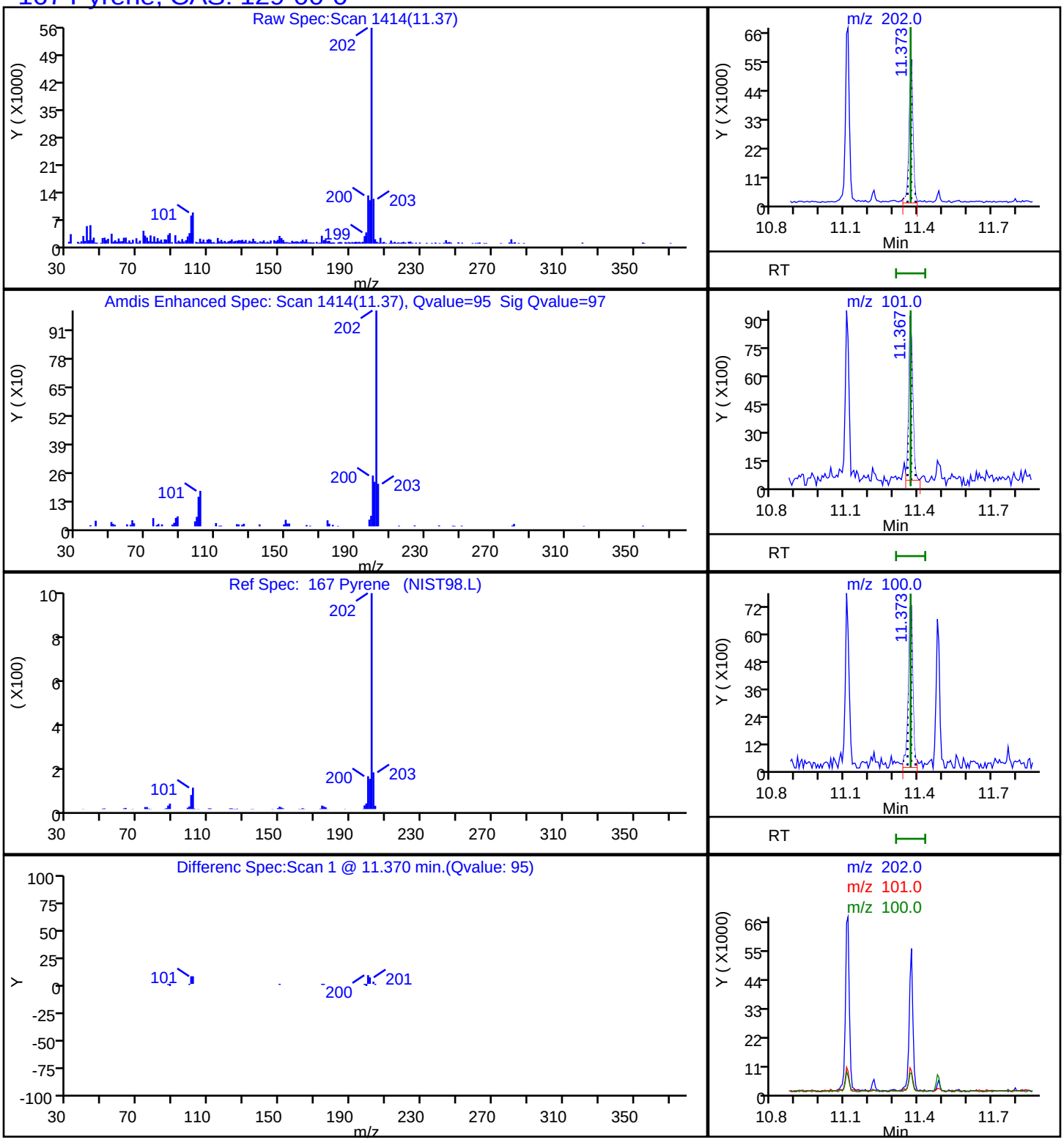


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D

Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

167 Pyrene, CAS: 129-00-0



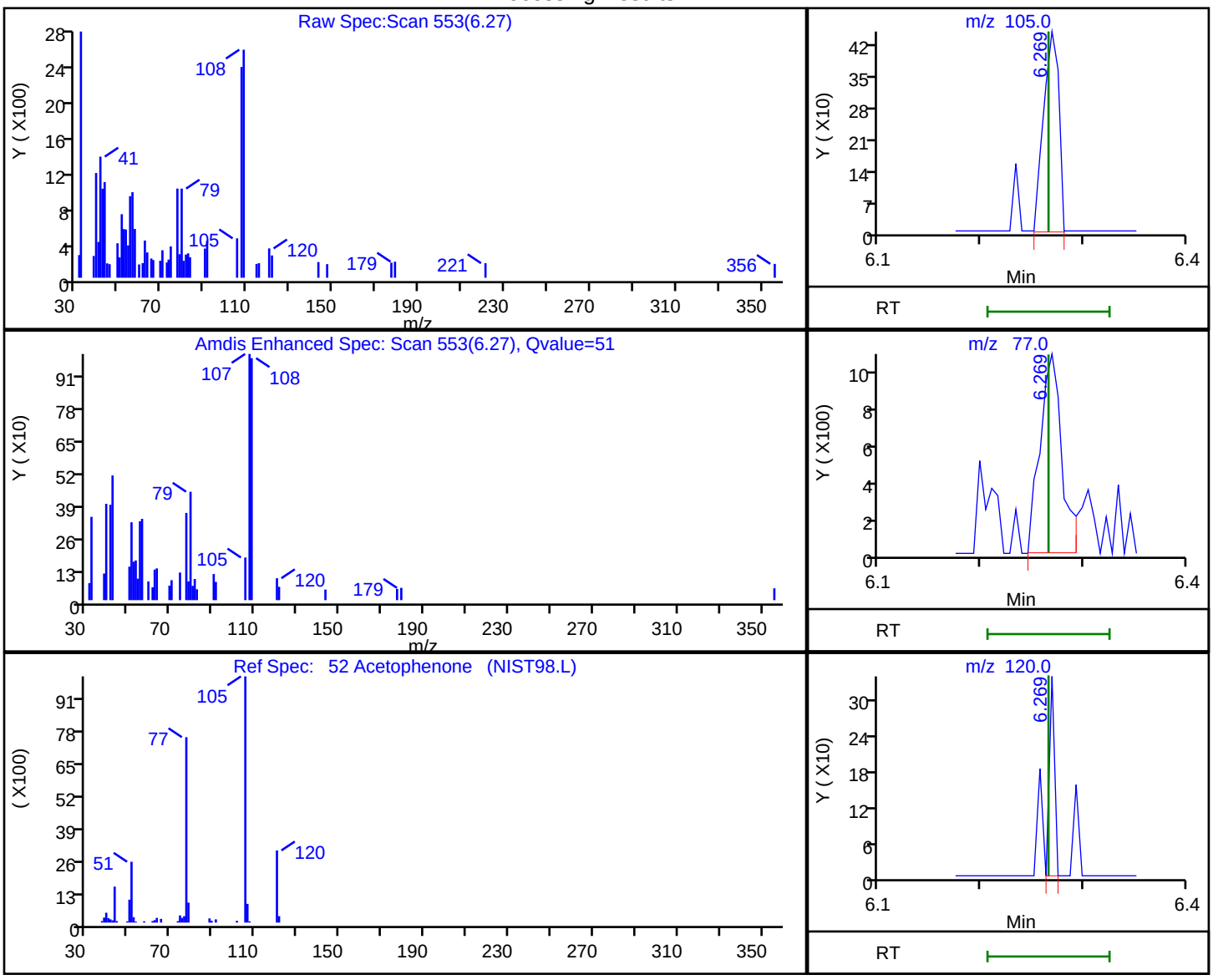
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D				
Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

52 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
6.27	105.00	465	0.006722
6.27	77.00	1512	
6.27	120.00	118	

Reviewer: IZ8L, 30-Oct-2024 15:07:12 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

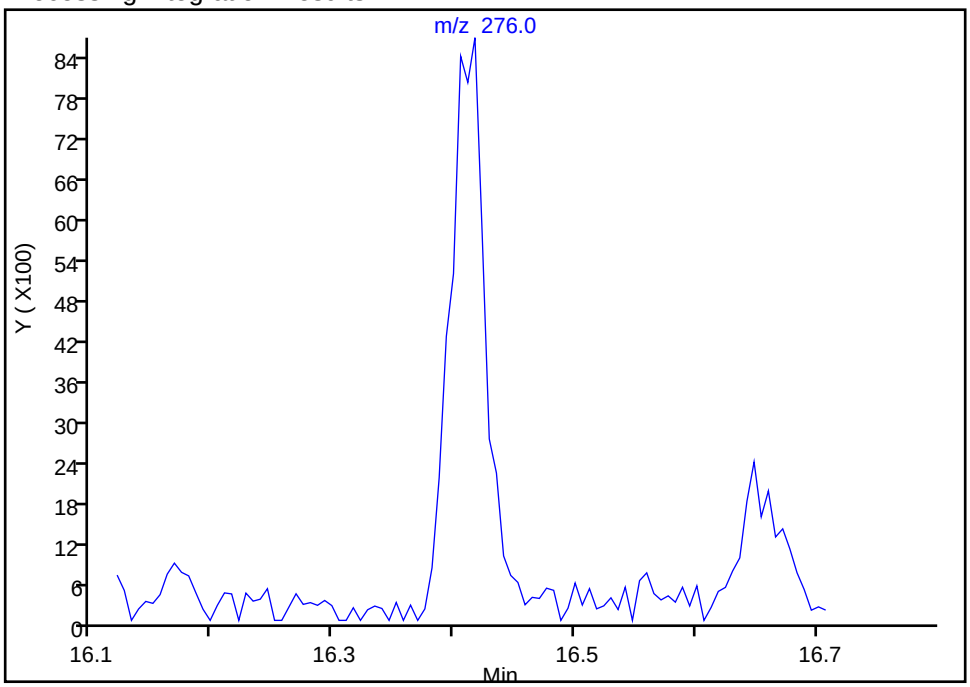
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D				
Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

195 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

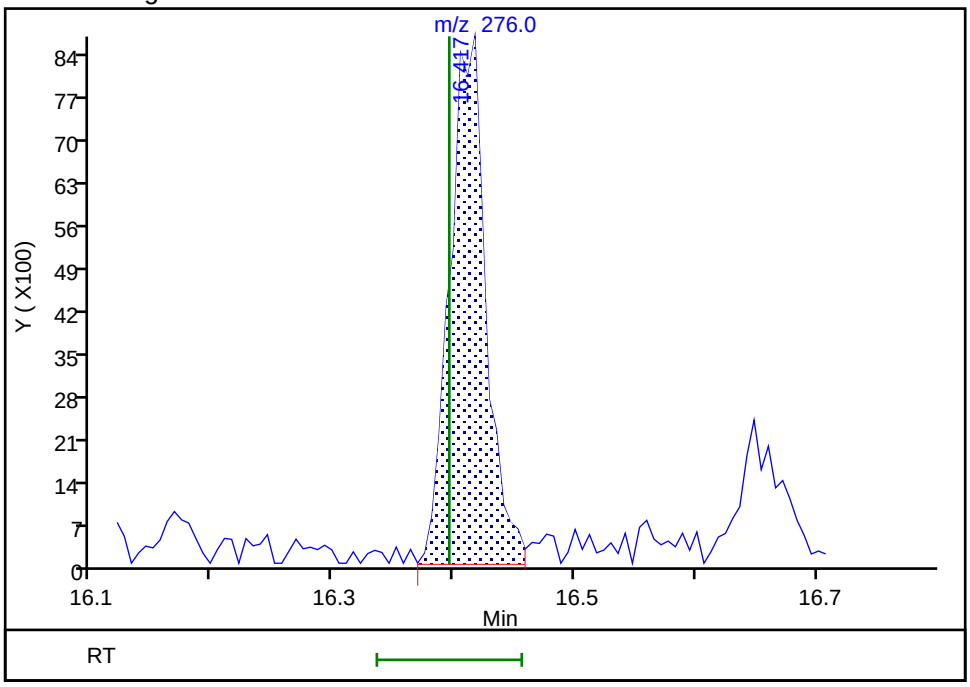
Not Detected
Expected RT: 16.40

Processing Integration Results



Manual Integration Results

RT: 16.42
Area: 17926
Amount: 0.127002
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:07:01 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

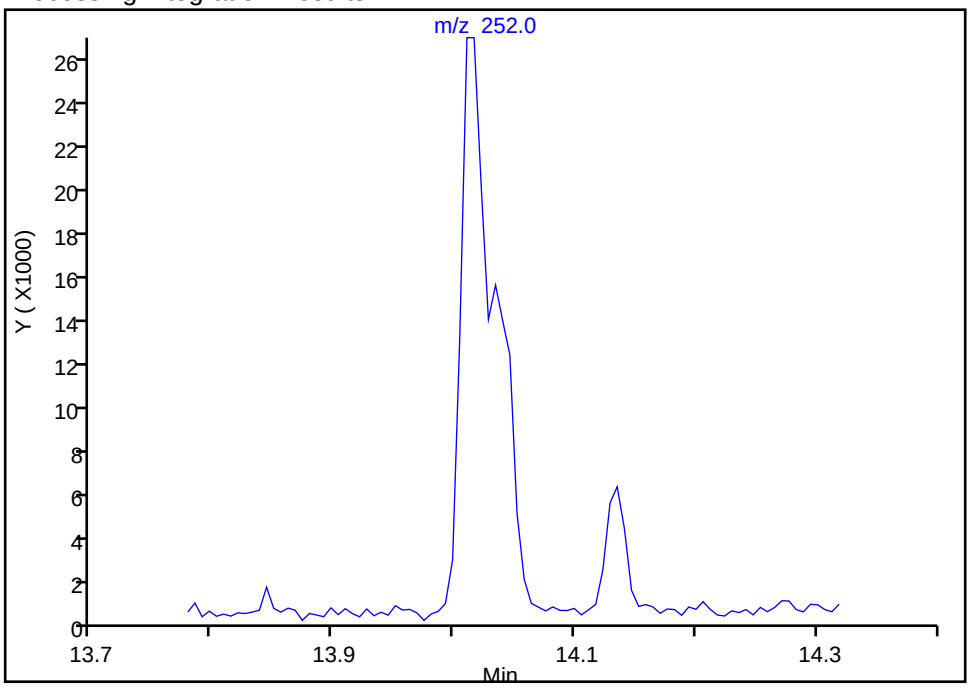
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04591.D				
Injection Date:	29-Oct-2024 20:23:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-7-A	Lab Sample ID:	480-224869-7		
Client ID:	MW-BCP-12A-10242024				
Operator ID:	JM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

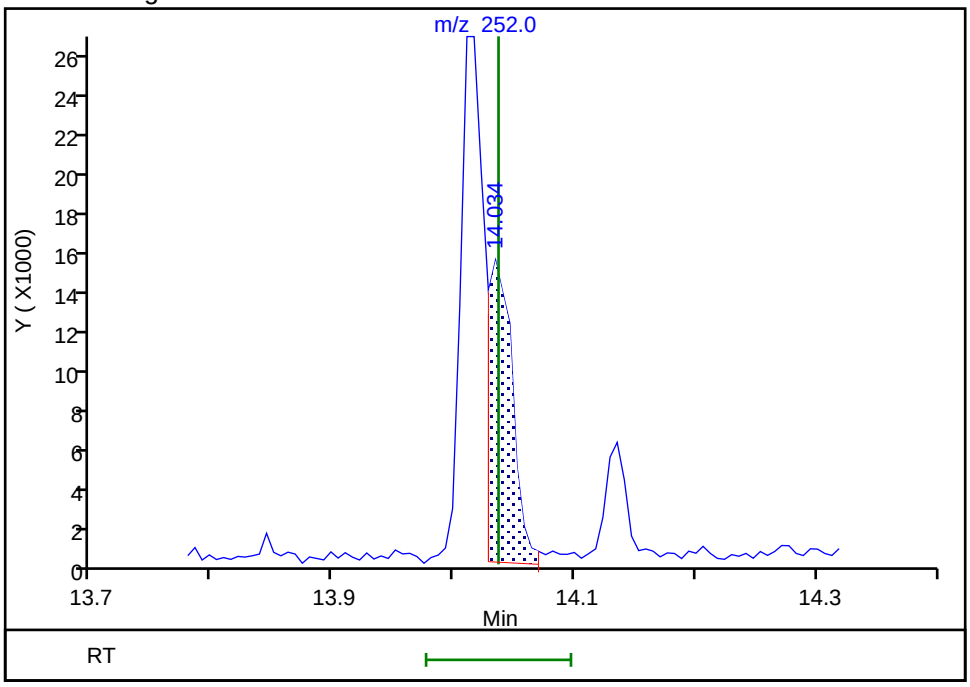
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.03
Area: 22304
Amount: 0.118075
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:07:44 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 | Lab Sample ID: 480-224869-9

Matrix: Water | Lab File ID: Y04605.D

Analysis Method: 8270D | Date Collected: 10/25/2024 08:50

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 11:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2500	330
108-60-1	bis (2-chloroisopropyl) ether	ND		2500	260
95-95-4	2,4,5-Trichlorophenol	ND		2500	240
88-06-2	2,4,6-Trichlorophenol	ND		2500	310
120-83-2	2,4-Dichlorophenol	ND		2500	260
105-67-9	2,4-Dimethylphenol	8800		2500	250
51-28-5	2,4-Dinitrophenol	ND		5000	1100
121-14-2	2,4-Dinitrotoluene	ND		2500	220
606-20-2	2,6-Dinitrotoluene	ND		2500	200
91-58-7	2-Chloronaphthalene	ND		2500	230
95-57-8	2-Chlorophenol	ND		2500	270
91-57-6	2-Methylnaphthalene	570	J	2500	300
95-48-7	2-Methylphenol	12000		2500	200
88-74-4	2-Nitroaniline	ND		5000	210
88-75-5	2-Nitrophenol	ND		2500	240
91-94-1	3,3'-Dichlorobenzidine	ND		2500	200
99-09-2	3-Nitroaniline	ND		5000	240
534-52-1	4,6-Dinitro-2-methylphenol	ND		5000	1100
101-55-3	4-Bromophenyl phenyl ether	ND		2500	230
59-50-7	4-Chloro-3-methylphenol	ND		2500	230
106-47-8	4-Chloroaniline	ND		2500	300
7005-72-3	4-Chlorophenyl phenyl ether	ND		2500	180
106-44-5	4-Methylphenol	28000		5000	180
100-01-6	4-Nitroaniline	ND		5000	130
100-02-7	4-Nitrophenol	ND	*+	5000	760
83-32-9	Acenaphthene	ND		2500	210
208-96-8	Acenaphthylene	280	J	2500	190
98-86-2	Acetophenone	ND		2500	270
120-12-7	Anthracene	ND		2500	140
1912-24-9	Atrazine	ND		2500	230
100-52-7	Benzaldehyde	ND		2500	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 | Lab Sample ID: 480-224869-9

Matrix: Water | Lab File ID: Y04605.D

Analysis Method: 8270D | Date Collected: 10/25/2024 08:50

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 11:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		2500	180
50-32-8	Benzo(a)pyrene	ND		2500	240
205-99-2	Benzo(b)fluoranthene	ND		2500	170
191-24-2	Benzo(g,h,i)perylene	ND		2500	180
207-08-9	Benzo(k)fluoranthene	ND		2500	370
111-91-1	Bis(2-chloroethoxy)methane	ND		2500	180
111-44-4	Bis(2-chloroethyl)ether	ND		2500	200
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2500	1100
85-68-7	Butyl benzyl phthalate	ND		2500	500
105-60-2	Caprolactam	ND		2500	1100
86-74-8	Carbazole	170	J	2500	150
218-01-9	Chrysene	ND		2500	170
84-74-2	Di-n-butyl phthalate	ND		2500	160
117-84-0	Di-n-octyl phthalate	ND		2500	240
53-70-3	Dibenz(a,h)anthracene	ND		2500	210
132-64-9	Dibenzofuran	ND		5000	260
84-66-2	Diethyl phthalate	ND		2500	110
131-11-3	Dimethyl phthalate	ND		2500	180
206-44-0	Fluoranthene	ND		2500	200
86-73-7	Fluorene	ND		2500	180
118-74-1	Hexachlorobenzene	ND		2500	260
87-68-3	Hexachlorobutadiene	ND		2500	340
77-47-4	Hexachlorocyclopentadiene	ND		2500	300
67-72-1	Hexachloroethane	ND		2500	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2500	240
78-59-1	Isophorone	ND		2500	220
621-64-7	N-Nitrosodi-n-propylamine	ND		2500	270
86-30-6	N-Nitrosodiphenylamine	ND		2500	260
91-20-3	Naphthalene	11000		2500	380
98-95-3	Nitrobenzene	ND		2500	150
87-86-5	Pentachlorophenol	ND		5000	1100

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13A-10252024 | Lab Sample ID: 480-224869-9

Matrix: Water | Lab File ID: Y04605.D

Analysis Method: 8270D | Date Collected: 10/25/2024 08:50

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 11:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		2500	220
108-95-2	Phenol	4800		2500	200
129-00-0	Pyrene	ND		2500	170

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	S1-	25-144
321-60-8	2-Fluorobiphenyl	74		53-126
367-12-4	2-Fluorophenol	0	S1-	24-120
4165-60-0	Nitrobenzene-d5	0	S1-	29-129
1718-51-0	p-Terphenyl-d14	0	S1-	33-132
4165-62-2	Phenol-d5	0	S1-	10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D
Lims ID: 480-224869-B-9-A
Client ID: MW-BCP-13A-10252024
Sample Type: Client
Inject. Date: 30-Oct-2024 11:40:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 500.0000
Sample Info: 480-0120914-006
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:00:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.887	5.883	0.004	97	151473	4.00	
* 2 Naphthalene-d8	136	7.090	7.086	0.004	99	592087	4.00	
* 3 Acenaphthene-d10	164	8.649	8.651	-0.002	96	327316	4.00	
* 4 Phenanthrene-d10	188	9.924	9.926	-0.002	97	566110	4.00	
* 5 Chrysene-d12	240	12.775	12.777	-0.002	98	445952	4.00	
* 6 Perylene-d12	264	14.464	14.460	0.004	97	521236	4.00	
$ 7 2-Fluorophenol	112		4.638				ND	
$ 8 Phenol-d5	99		5.521				ND	
$ 9 Nitrobenzene-d5	82		6.410				ND	
$ 10 2-Fluorobiphenyl	172	8.033	8.035	-0.002	89	1335	0.0119	
$ 11 2,4,6-Tribromophenol	330		9.327				ND	
$ 12 p-Terphenyl-d14	244		11.485				ND	
35 Benzaldehyde	77		5.474				ND	
37 Phenol	94	5.537	5.533	0.004	90	140683	2.40	
39 Bis(2-chloroethyl)ether	93		5.604				ND	U
40 2-Chlorophenol	128		5.699				ND	
48 2-Methylphenol	108	6.106	6.108	-0.002	95	264152	5.94	
49 2,2'-oxybis[1-chloropropane]	45		6.120				ND	
53 N-Nitrosodi-n-propylamine	70		6.244				ND	
57 4-Methylphenol	108	6.254	6.256	-0.002	86	651419	14.1	
52 Acetophenone	105		6.262				ND	U
58 Hexachloroethane	117		6.375				ND	
59 Nitrobenzene	77		6.434				ND	
62 Isophorone	82		6.647				ND	
64 2-Nitrophenol	139		6.730				ND	
66 2,4-Dimethylphenol	107	6.752	6.748	0.004	94	227780	4.42	
69 Bis(2-chloroethoxy)methane	93		6.819				ND	
72 2,4-Dichlorophenol	162		6.962				ND	
74 Naphthalene	128	7.108	7.110	-0.002	98	844829	5.40	
76 4-Chloroaniline	127		7.145				ND	
79 Hexachlorobutadiene	225		7.205				ND	
84 Caprolactam	113		7.466				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.578				ND	
87 2-Methylnaphthalene	142	7.730	7.726	0.004	89	27505	0.2851	
90 Hexachlorocyclopentadiene	237		7.869				ND	
93 2,4,6-Trichlorophenol	196		7.981				ND	
94 2,4,5-Trichlorophenol	196		8.023				ND	
96 1,1'-Biphenyl	154	8.128	8.129	-0.001	93	2887	0.0240	
97 2-Chloronaphthalene	162		8.165				ND	
100 2-Nitroaniline	65		8.248				ND	
105 Dimethyl phthalate	163		8.372				ND	
107 2,6-Dinitrotoluene	165		8.438				ND	
108 Acenaphthylene	152	8.531	8.533	-0.001	94	20383	0.1406	
109 3-Nitroaniline	138		8.598				ND	
110 Acenaphthene	153	8.673	8.681	-0.008	87	1430	0.0147	
111 2,4-Dinitrophenol	184		8.693				ND	
112 4-Nitrophenol	109		8.752				ND	
114 2,4-Dinitrotoluene	165		8.799				ND	
115 Dibenzofuran	168	8.827	8.823	0.004	95	5678	0.0433	
120 Diethyl phthalate	149		8.965				ND	
123 4-Chlorophenyl phenyl ether	204		9.090				ND	
124 Fluorene	166	9.117	9.119	-0.002	91	3201	0.0421	
126 4-Nitroaniline	138		9.131				ND	
127 4,6-Dinitro-2-methylphenol	198		9.155				ND	
130 N-Nitrosodiphenylamine	169		9.190				ND	
139 4-Bromophenyl phenyl ether	248		9.511				ND	
140 Hexachlorobenzene	284		9.605				ND	
143 Atrazine	200		9.617				ND	
145 Pentachlorophenol	266		9.765				ND	
151 Phenanthrene	178	9.947	9.943	0.004	95	7476	0.0478	
152 Anthracene	178		9.991				ND	
153 Carbazole	167	10.119	10.121	-0.002	96	11918	0.0857	
157 Di-n-butyl phthalate	149		10.358				ND	
164 Fluoranthene	202		11.111				ND	
167 Pyrene	202		11.372				ND	
174 Butyl benzyl phthalate	149		12.006				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.664				ND	
179 3,3'-Dichlorobenzidine	252		12.700				ND	
180 Benzo[a]anthracene	228		12.765				ND	
182 Chrysene	228		12.806				ND	
184 Di-n-octyl phthalate	149		13.417				ND	
186 Benzo[b]fluoranthene	252		14.010				ND	
187 Benzo[k]fluoranthene	252		14.039				ND	
189 Benzo[a]pyrene	252		14.395				ND	
194 Dibenz(a,h)anthracene	278		15.936				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.948				ND	
195 Benzo[g,h,i]perylene	276		16.393				ND	

QC Flag Legend

Processing Flags

Review Flags
U - Marked Undetected

Reagents:

MB_LLIS_WRK_00284	Amount Added:	20.00	Units: uL	Run Reagent

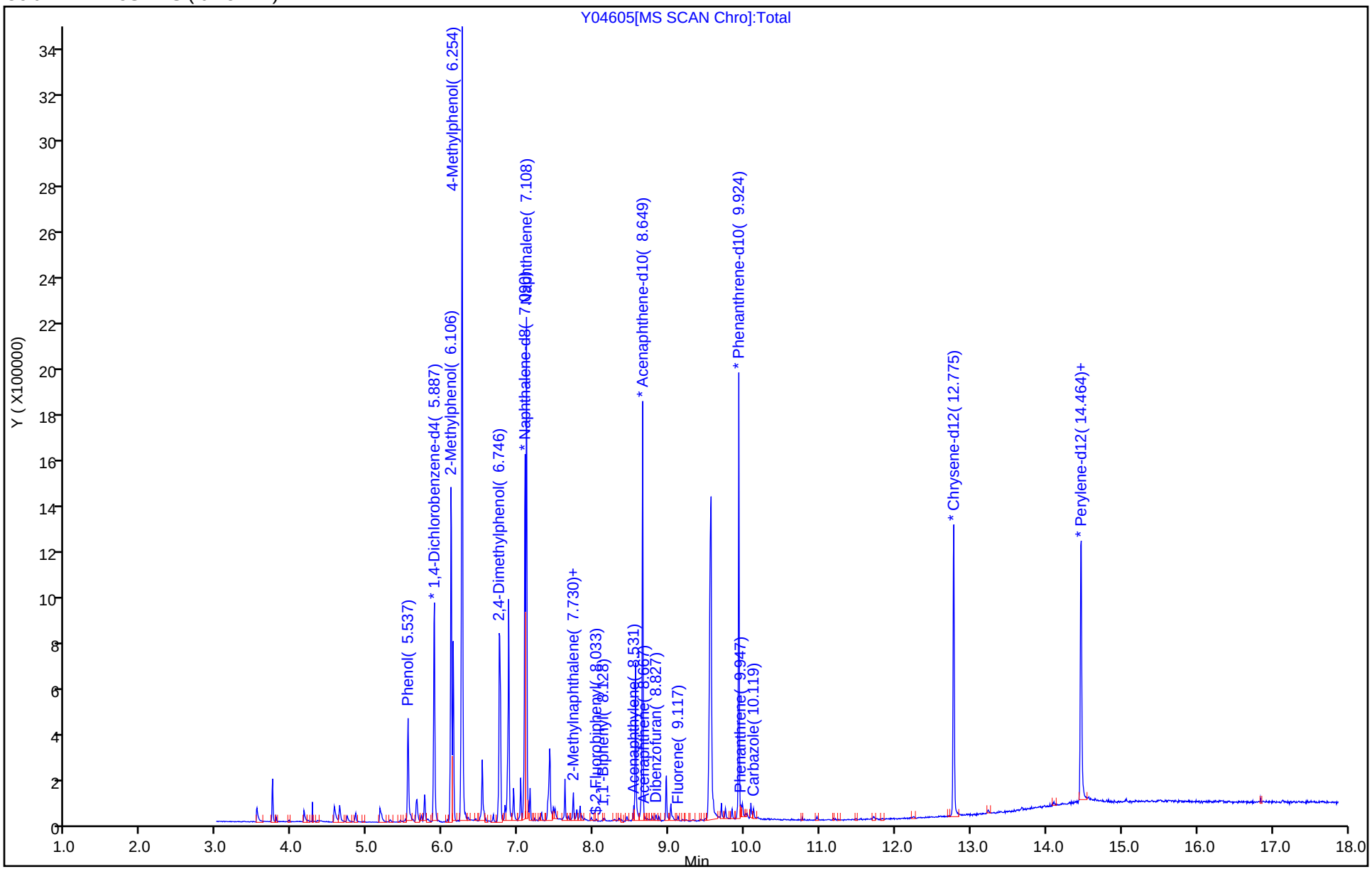
Report Date: 30-Oct-2024 16:06:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9	Worklist Smp#:	6
Client ID:	MW-BCP-13A-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	500.0000	ALS Bottle#:	6
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D				
Lims ID:	480-224869-B-9-A				
Client ID:	MW-BCP-13A-10252024				
Sample Type:	Client				
Inject. Date:	30-Oct-2024 11:40:30	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Sample Info:	480-0120914-006				
Operator ID:	JM	Instrument ID:	HP5973Y		
Method:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m				
Limit Group:	MB - 8270D ICAL				
Last Update:	30-Oct-2024 16:06:33	Calib Date:	11-Oct-2024 18:51:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D				
Column 1 :	RXI-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1636				

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:00:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorobiphenyl	8.00	0.0119	74.17

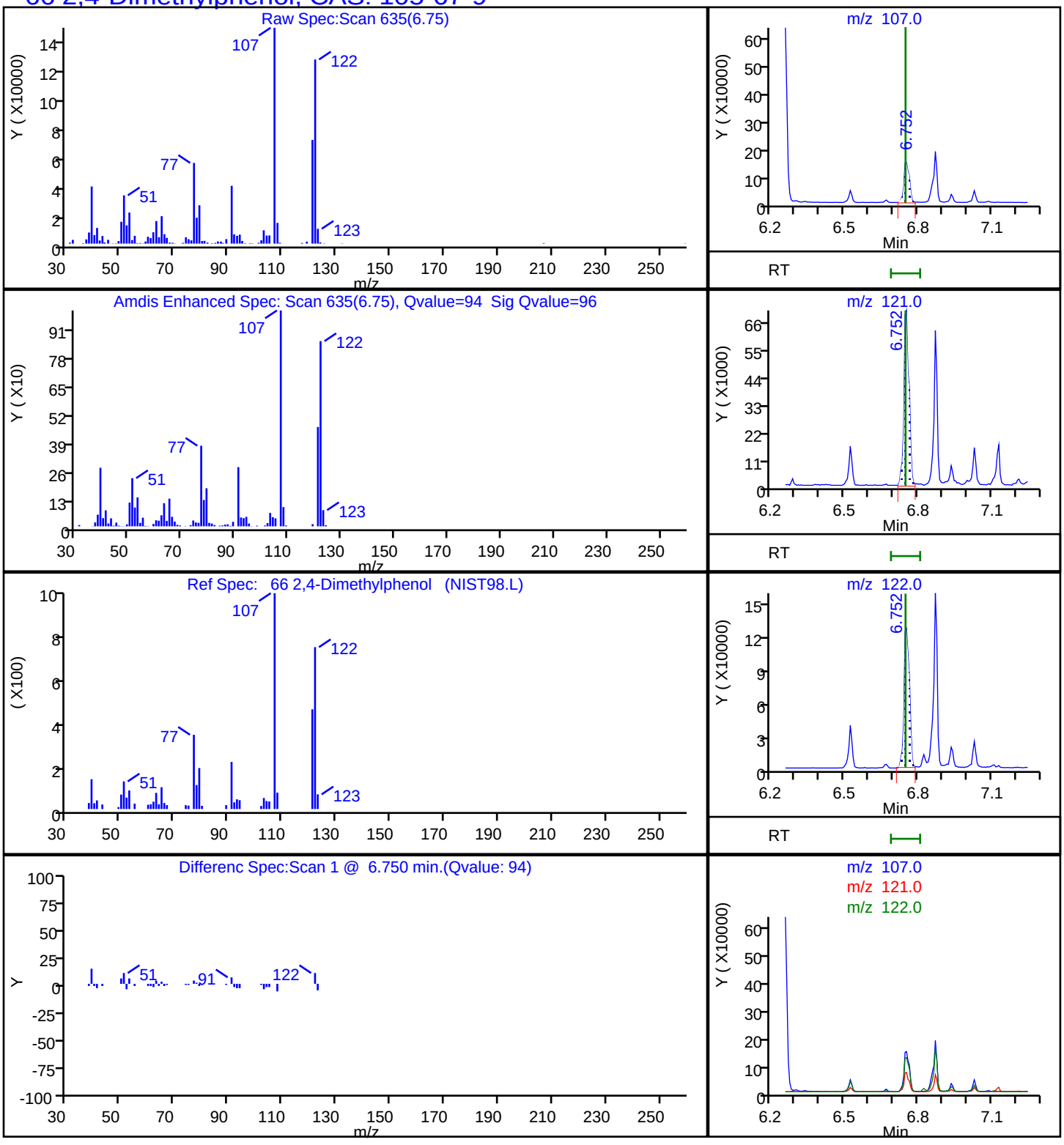
Report Date: 30-Oct-2024 16:06:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	JM	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

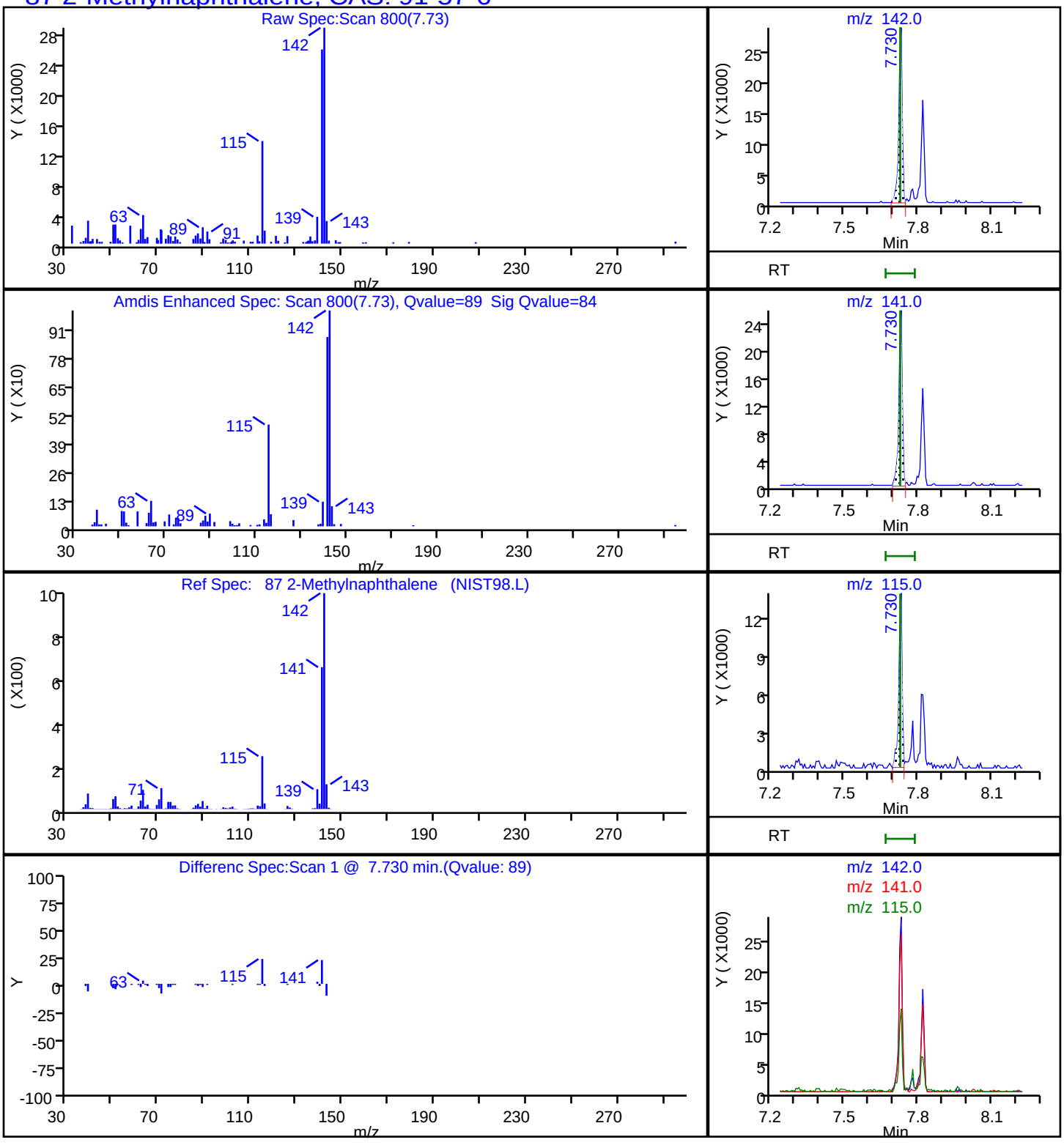
66 2,4-Dimethylphenol, CAS: 105-67-9



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D				
Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	JM	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

87 2-Methylnaphthalene, CAS: 91-57-6



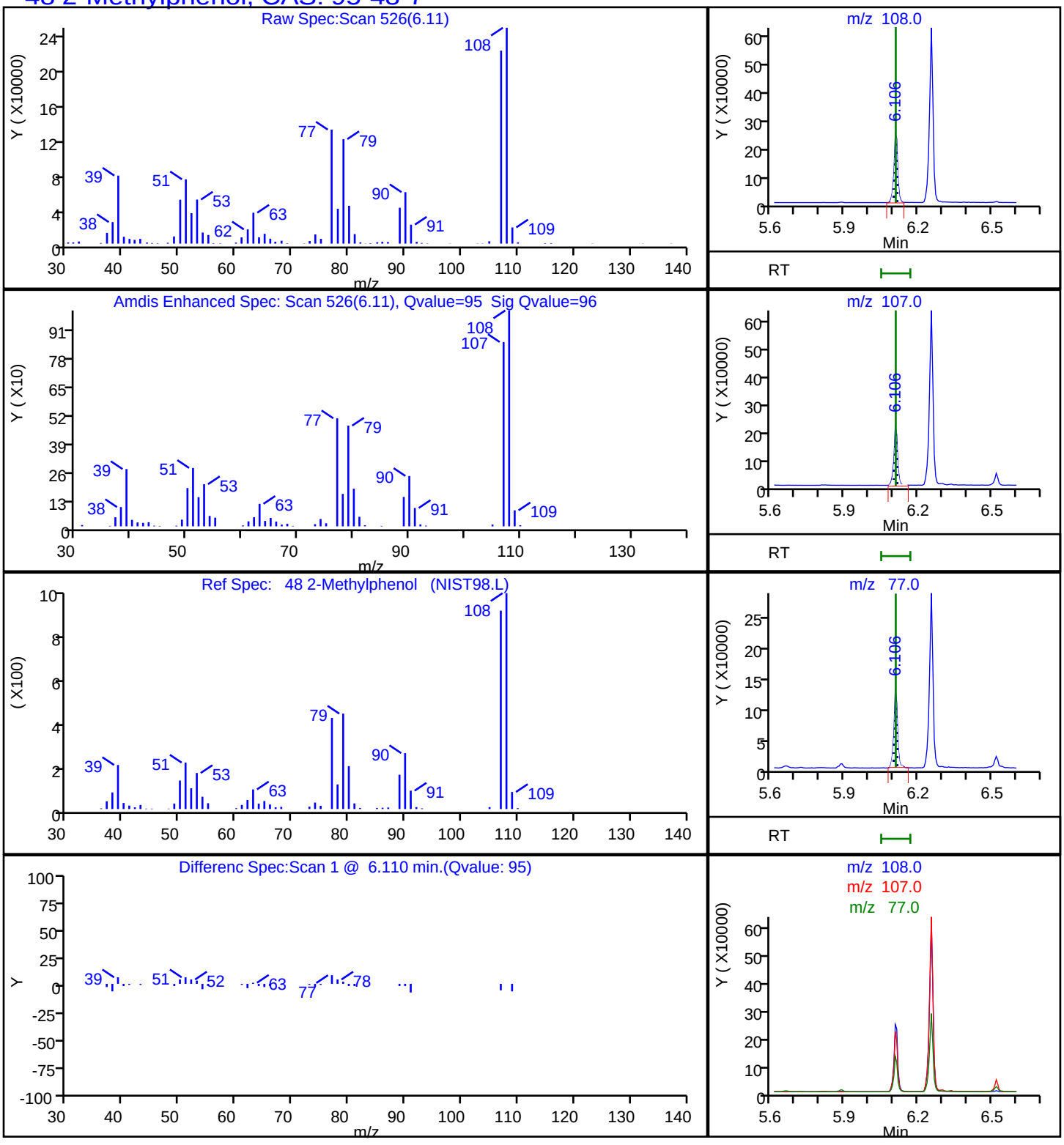
Report Date: 30-Oct-2024 16:06:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9
Client ID:	MW-BCP-13A-10252024		
Operator ID:	JM	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

48 2-Methylphenol, CAS: 95-48-7

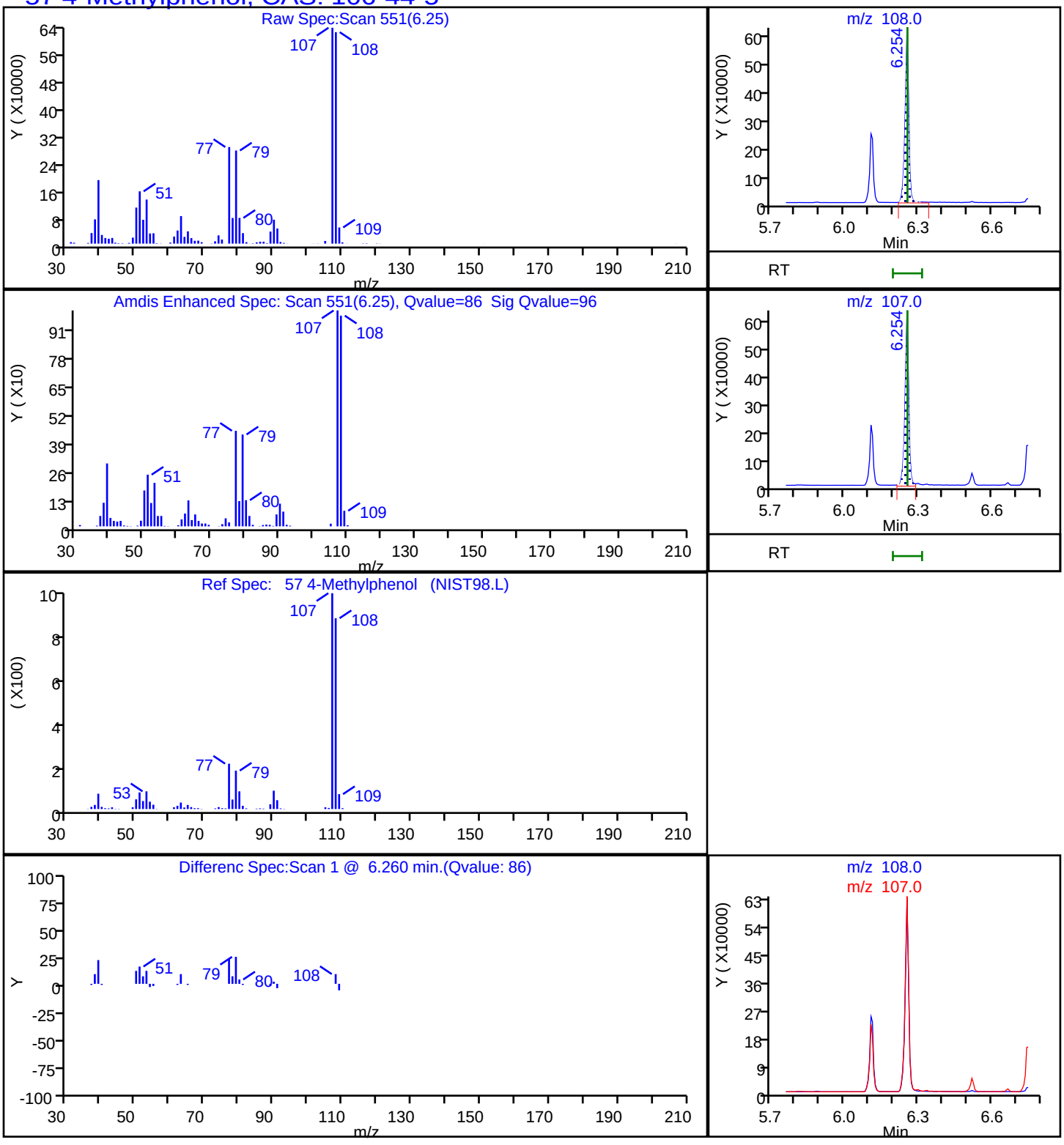


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	JM	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

57 4-Methylphenol, CAS: 106-44-5

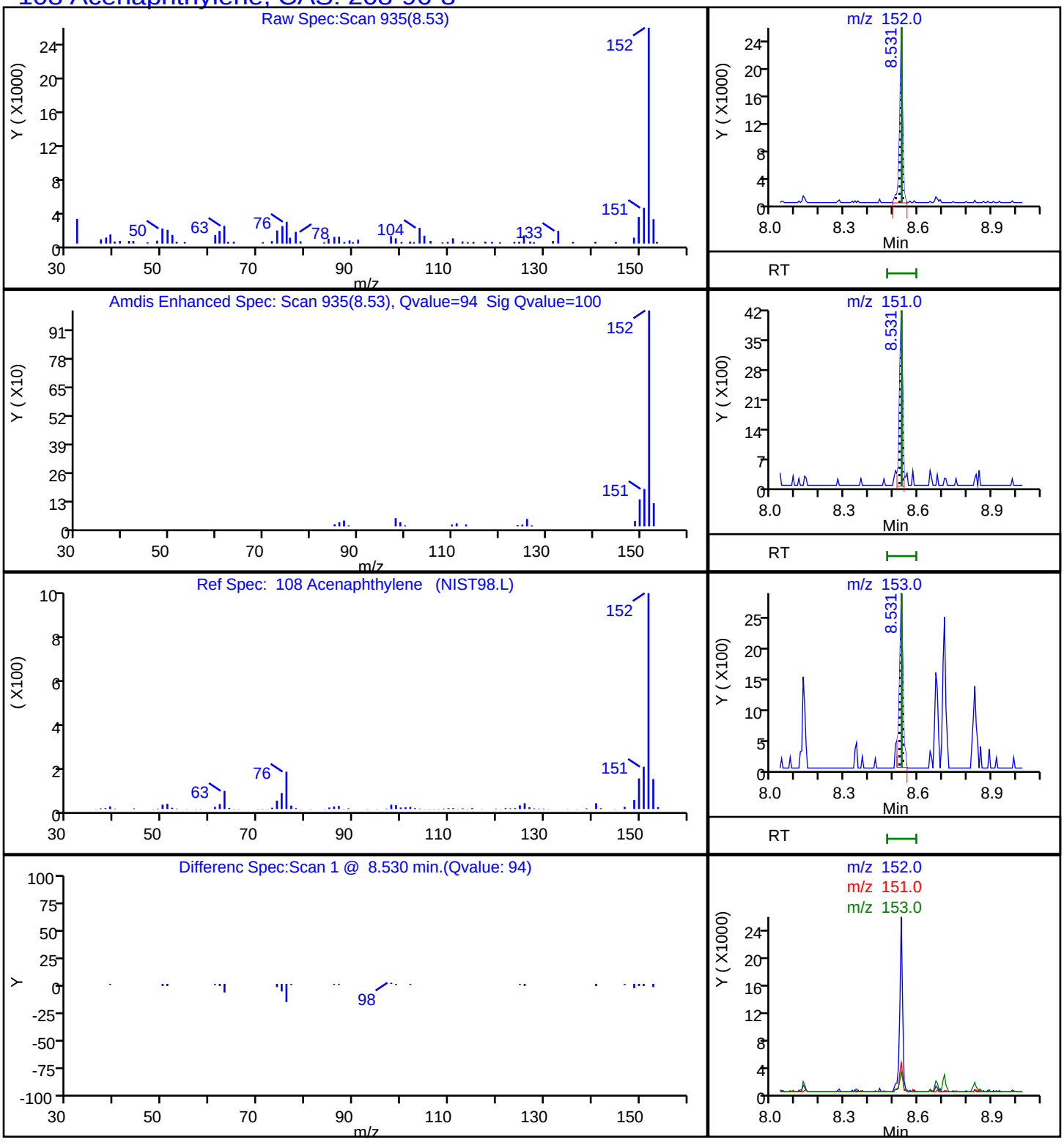


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9
Client ID:	MW-BCP-13A-10252024		
Operator ID:	JM	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

108 Acenaphthylene, CAS: 208-96-8



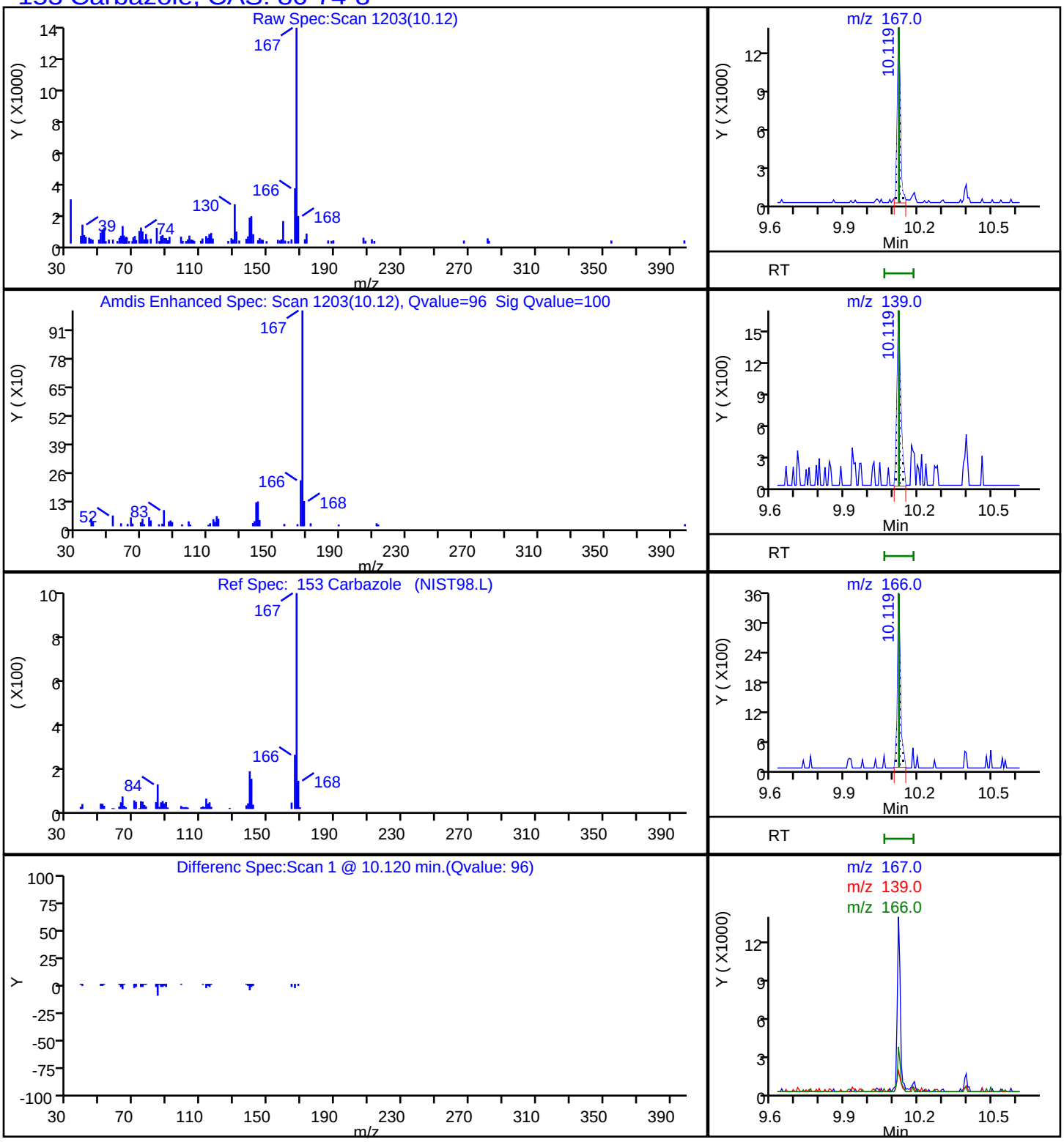
Report Date: 30-Oct-2024 16:06:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	JM	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

153 Carbazole, CAS: 86-74-8

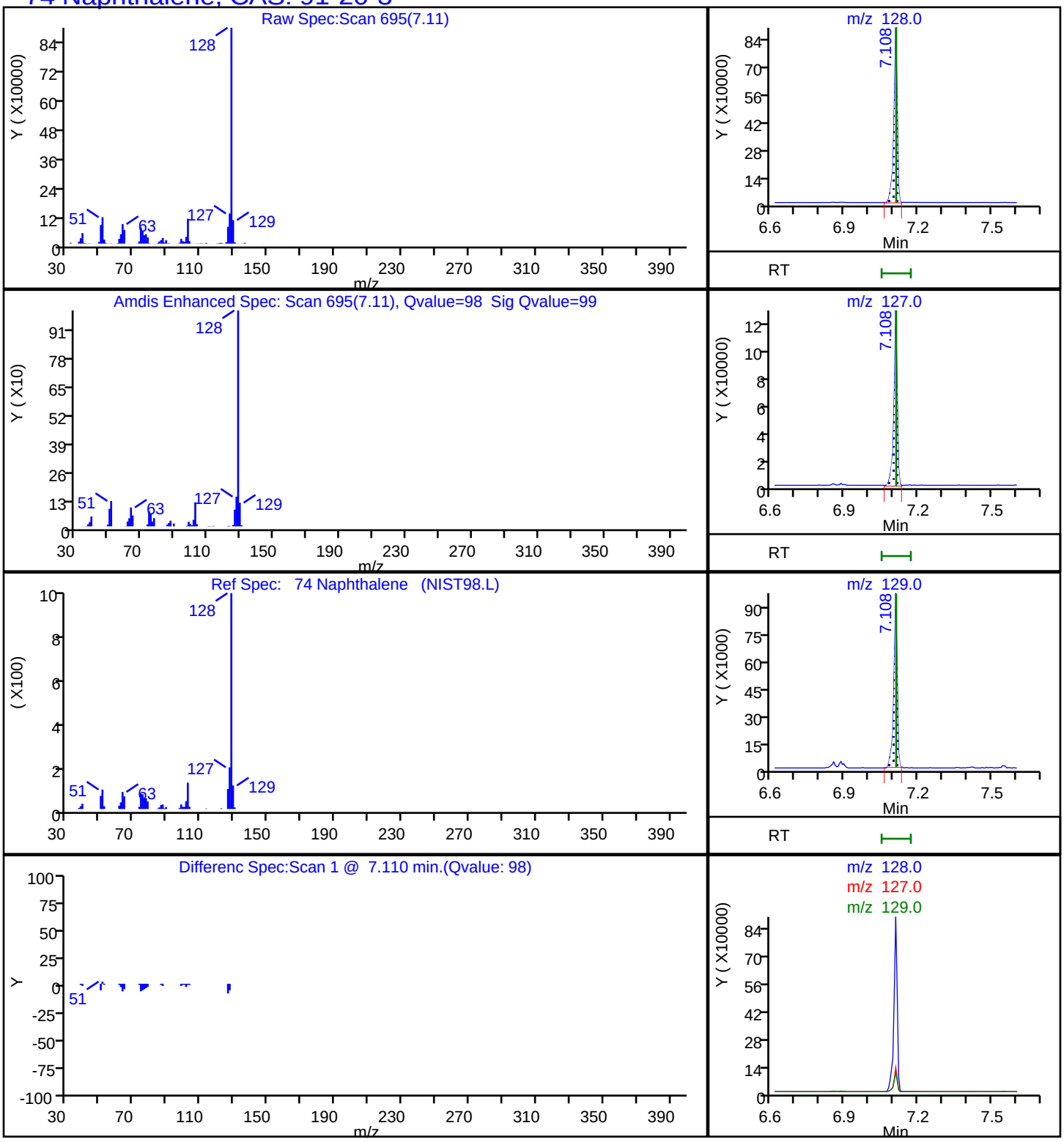


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9
Client ID:	MW-BCP-13A-10252024		
Operator ID:	JM	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

74 Naphthalene, CAS: 91-20-3

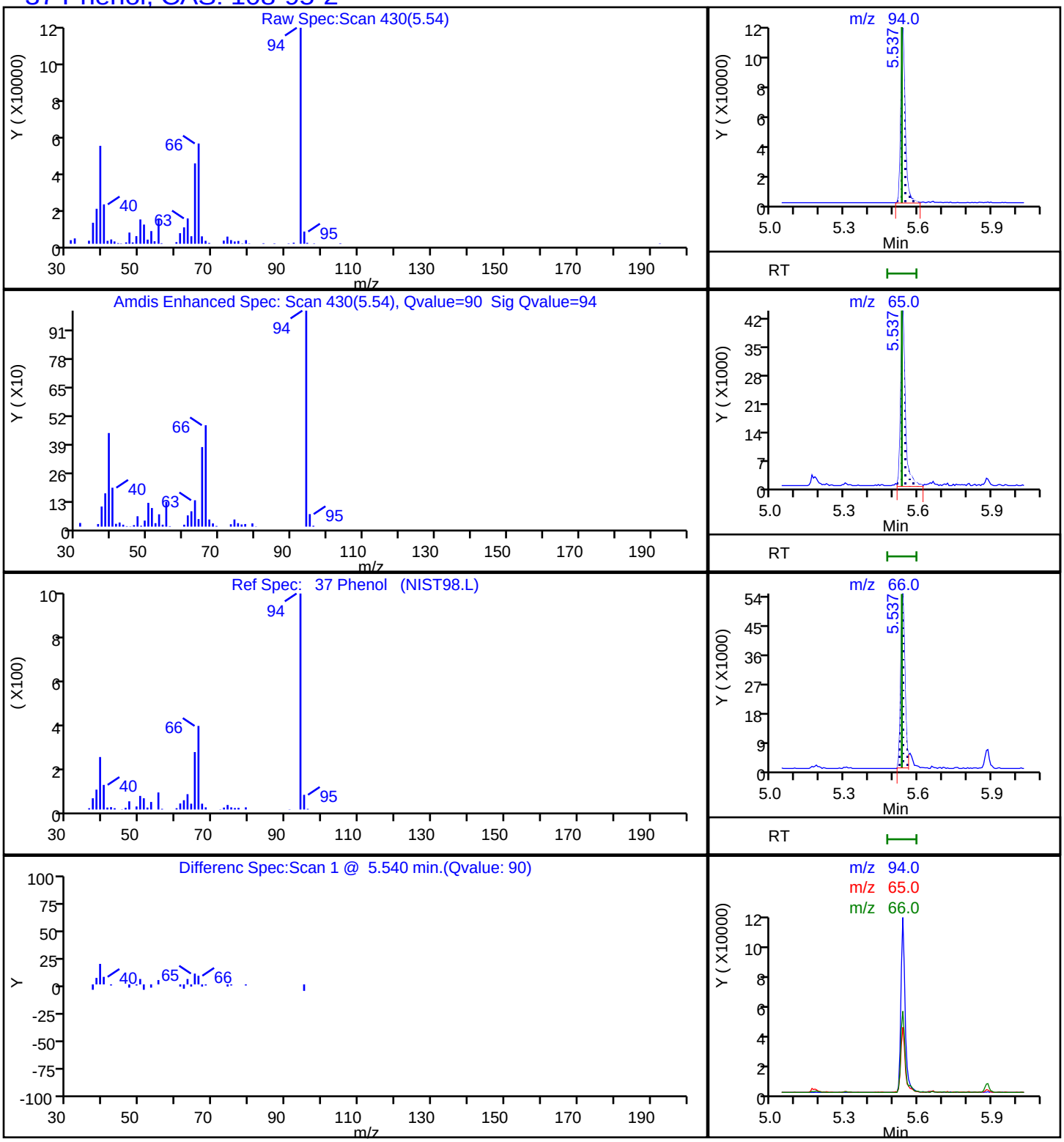


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D

Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9
Client ID:	MW-BCP-13A-10252024		
Operator ID:	JM	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

37 Phenol, CAS: 108-95-2



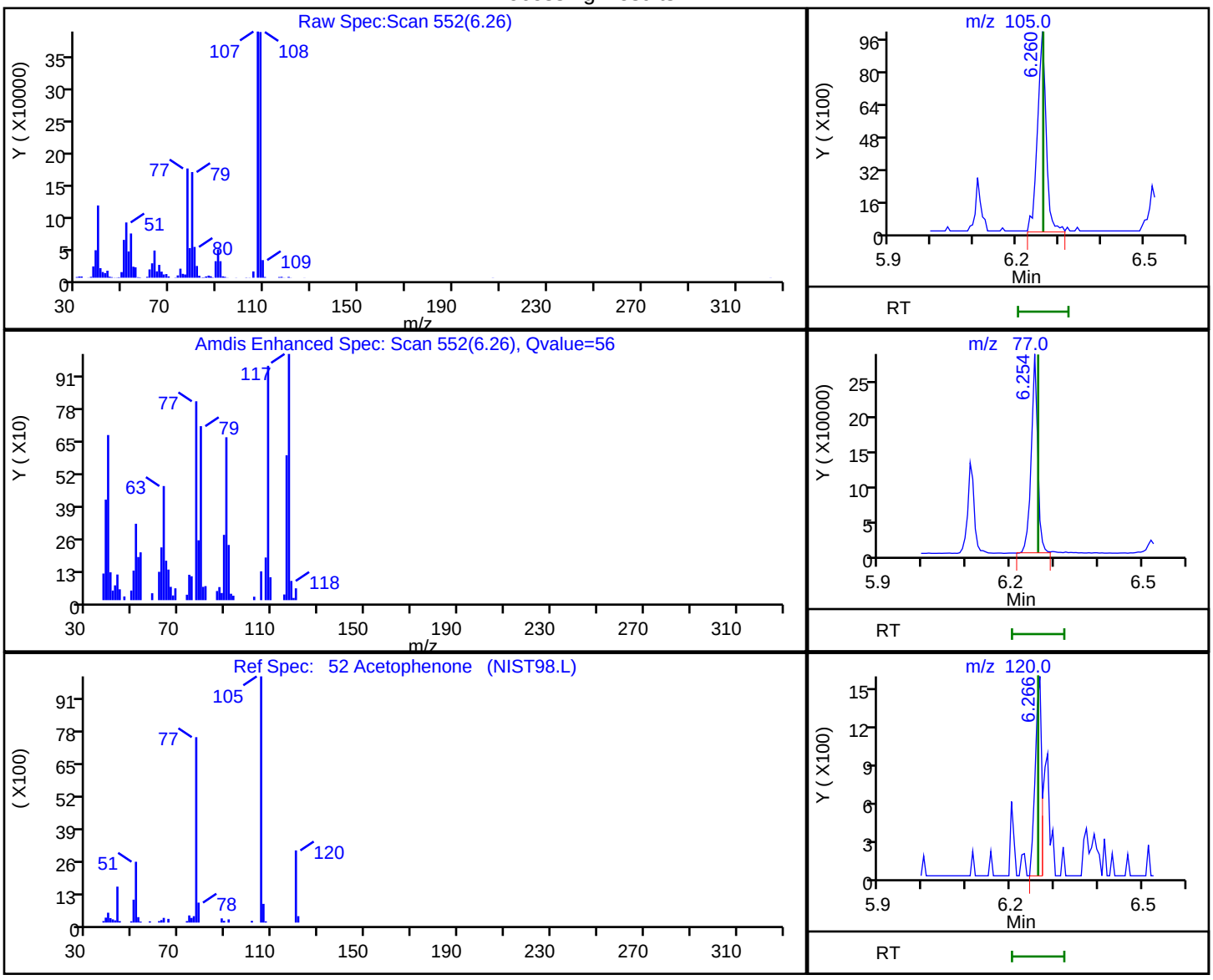
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D				
Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	JM	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

52 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
6.26	105.00	13956	0.216621
6.25	77.00	294649	
6.27	120.00	1542	

Reviewer: IZ8L, 30-Oct-2024 15:59:49 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

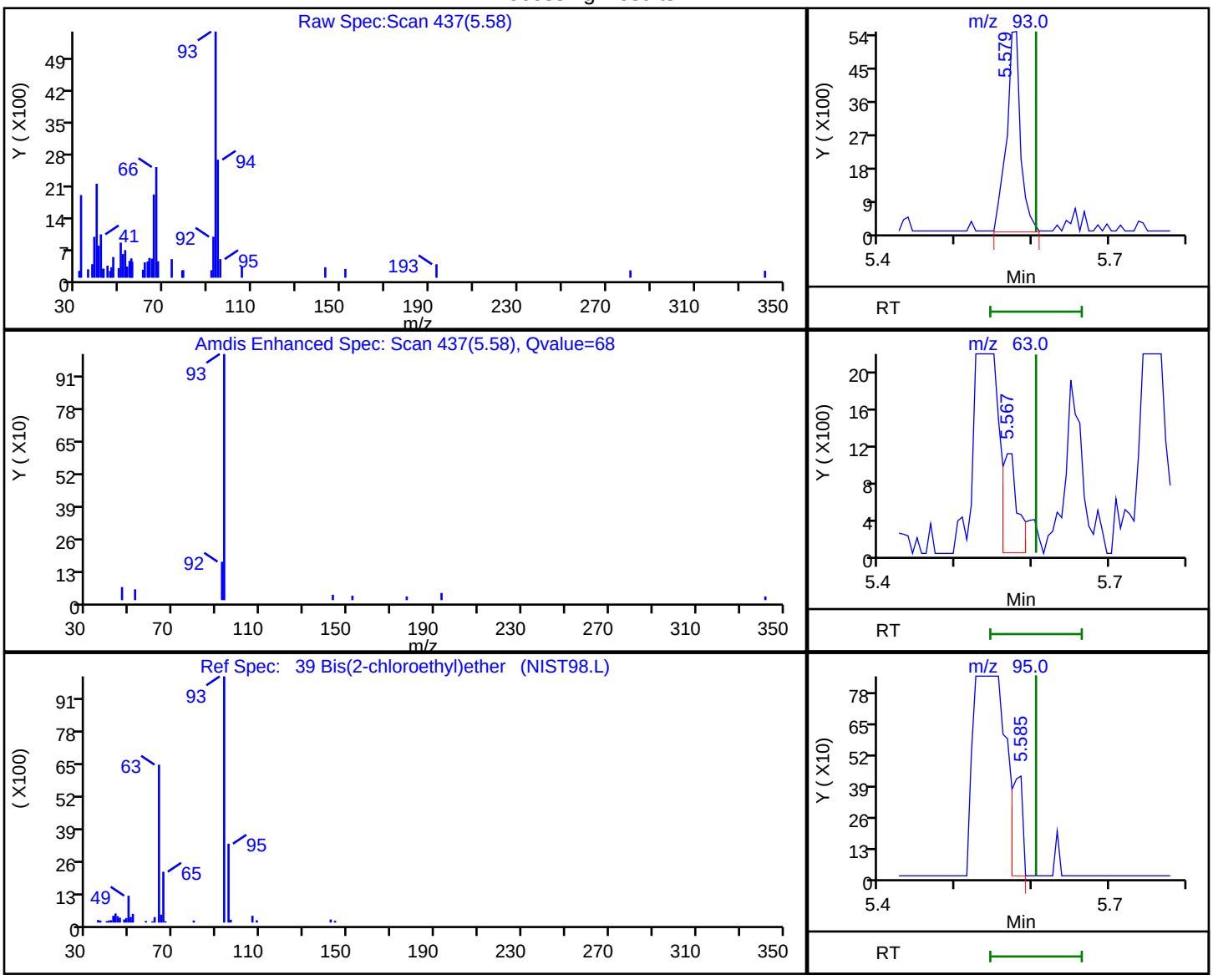
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04605.D				
Injection Date:	30-Oct-2024 11:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-9-A	Lab Sample ID:	480-224869-9		
Client ID:	MW-BCP-13A-10252024				
Operator ID:	JM	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

39 Bis(2-chloroethyl)ether, CAS: 111-44-4

Processing Results



RT	Mass	Response	Amount
5.58	93.00	6922	0.065727
5.57	63.00	1531	
5.58	95.00	428	

Reviewer: IZ8L, 30-Oct-2024 15:59:44 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 | Lab Sample ID: 480-224869-10

Matrix: Water | Lab File ID: Y04593.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:10

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 21:18

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	60		25	3.3
108-60-1	bis (2-chloroisopropyl) ether	ND		25	2.6
95-95-4	2,4,5-Trichlorophenol	ND		25	2.4
88-06-2	2,4,6-Trichlorophenol	ND		25	3.1
120-83-2	2,4-Dichlorophenol	ND		25	2.6
105-67-9	2,4-Dimethylphenol	10	J	25	2.5
51-28-5	2,4-Dinitrophenol	ND		50	11
121-14-2	2,4-Dinitrotoluene	ND		25	2.2
606-20-2	2,6-Dinitrotoluene	ND		25	2.0
91-58-7	2-Chloronaphthalene	ND		25	2.3
95-57-8	2-Chlorophenol	ND		25	2.7
91-57-6	2-Methylnaphthalene	66		25	3.0
95-48-7	2-Methylphenol	11	J	25	2.0
88-74-4	2-Nitroaniline	ND		50	2.1
88-75-5	2-Nitrophenol	ND		25	2.4
91-94-1	3,3'-Dichlorobenzidine	ND		25	2.0
99-09-2	3-Nitroaniline	ND		50	2.4
534-52-1	4,6-Dinitro-2-methylphenol	ND		50	11
101-55-3	4-Bromophenyl phenyl ether	ND		25	2.3
59-50-7	4-Chloro-3-methylphenol	ND		25	2.3
106-47-8	4-Chloroaniline	ND		25	3.0
7005-72-3	4-Chlorophenyl phenyl ether	ND		25	1.8
106-44-5	4-Methylphenol	21	J	50	1.8
100-01-6	4-Nitroaniline	ND		50	1.3
100-02-7	4-Nitrophenol	ND	*+	50	7.6
83-32-9	Acenaphthene	24	J	25	2.1
208-96-8	Acenaphthylene	250		25	1.9
98-86-2	Acetophenone	ND		25	2.7
120-12-7	Anthracene	29		25	1.4
1912-24-9	Atrazine	ND		25	2.3
100-52-7	Benzaldehyde	ND		25	1.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 | Lab Sample ID: 480-224869-10

Matrix: Water | Lab File ID: Y04593.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:10

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 21:18

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	7.9	J	25	1.8
50-32-8	Benzo(a)pyrene	5.4	J	25	2.4
205-99-2	Benzo(b)fluoranthene	6.1	J	25	1.7
191-24-2	Benzo(g,h,i)perylene	2.6	J	25	1.8
207-08-9	Benzo(k)fluoranthene	ND		25	3.7
111-91-1	Bis(2-chloroethoxy)methane	ND		25	1.8
111-44-4	Bis(2-chloroethyl)ether	ND		25	2.0
117-81-7	Bis(2-ethylhexyl) phthalate	ND		25	11
85-68-7	Butyl benzyl phthalate	ND		25	5.0
105-60-2	Caprolactam	ND		25	11
86-74-8	Carbazole	100		25	1.5
218-01-9	Chrysene	6.7	J	25	1.7
84-74-2	Di-n-butyl phthalate	ND		25	1.6
117-84-0	Di-n-octyl phthalate	ND		25	2.4
53-70-3	Dibenz(a,h)anthracene	ND		25	2.1
132-64-9	Dibenzofuran	130		50	2.6
84-66-2	Diethyl phthalate	ND		25	1.1
131-11-3	Dimethyl phthalate	ND		25	1.8
206-44-0	Fluoranthene	41		25	2.0
86-73-7	Fluorene	130		25	1.8
118-74-1	Hexachlorobenzene	ND		25	2.6
87-68-3	Hexachlorobutadiene	ND		25	3.4
77-47-4	Hexachlorocyclopentadiene	ND		25	3.0
67-72-1	Hexachloroethane	ND		25	3.0
193-39-5	Indeno(1,2,3-cd)pyrene	2.6	J	25	2.4
78-59-1	Isophorone	ND		25	2.2
621-64-7	N-Nitrosodi-n-propylamine	ND		25	2.7
86-30-6	N-Nitrosodiphenylamine	ND		25	2.6
91-20-3	*Naphthalene*	*3000*	*E*	*25*	*3.8*
98-95-3	Nitrobenzene	ND		25	1.5
87-86-5	Pentachlorophenol	ND		50	11

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 | Lab Sample ID: 480-224869-10

Matrix: Water | Lab File ID: Y04593.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:10

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 21:18

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	180		25	2.2
108-95-2	Phenol	ND		25	2.0
129-00-0	Pyrene	27		25	1.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	84		25-144
321-60-8	2-Fluorobiphenyl	78		53-126
367-12-4	2-Fluorophenol	58		24-120
4165-60-0	Nitrobenzene-d5	61		29-129
1718-51-0	p-Terphenyl-d14	51		33-132
4165-62-2	Phenol-d5	48		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Lims ID: 480-224869-A-10-A
Client ID: MW-BCP-13B-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 21:18:30 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Sample Info: 480-0120882-024
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:11:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.892	5.886	0.006	96	170437	4.00	
* 2 Naphthalene-d8	136	7.125	7.089	0.036	51	929237	4.00	
* 3 Acenaphthene-d10	164	8.649	8.648	0.001	95	370485	4.00	
* 4 Phenanthrene-d10	188	9.923	9.929	-0.006	97	637231	4.00	
* 5 Chrysene-d12	240	12.774	12.774	0.000	99	544295	4.00	
* 6 Perylene-d12	264	14.464	14.463	0.001	98	610821	4.00	
$ 7 2-Fluorophenol	112	4.659	4.644	0.018	92	48815	0.9296	
$ 8 Phenol-d5	99	5.536	5.527	0.012	90	49721	0.7664	
$ 9 Nitrobenzene-d5	82	6.420	6.410	0.006	96	84075	0.9822	
$ 10 2-Fluorobiphenyl	172	8.038	8.040	0.000	98	158441	1.24	
$ 11 2,4,6-Tribromophenol	330	9.330	9.327	0.000	84	19095	1.35	
$ 12 p-Terphenyl-d14	244	11.482	11.484	0.000	97	120489	0.8166	
35 Benzaldehyde	77		5.471				ND	U
37 Phenol	94		5.536				ND	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108	6.117	6.111	0.006	85	26403	0.5276	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.266	6.314	0.012	84	53911	1.04	
52 Acetophenone	105		6.265				ND	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107	6.769	6.751	0.018	96	42148	0.5208	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.113	7.113	0.006	89	36732723	149.6	EeMa
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113		7.463				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	U
87 2-Methylnaphthalene	142	7.730	7.726	0.000	90	502352	3.32	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154	8.127	8.132	-0.006	97	404878	2.98	
97 2-Chloronaphthalene	162		8.162				ND	U
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152	8.530	8.532	0.000	98	2022935	12.3	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153	8.678	8.675	0.000	95	129592	1.18	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	U
115 Dibenzofuran	168	8.826	8.829	0.000	95	931781	6.27	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166	9.123	9.125	0.000	94	801650	6.40	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.947	9.946	0.000	99	1543776	8.76	
152 Anthracene	178	9.988	10.001	0.000	97	257510	1.46	
153 Carbazole	167	10.119	10.149	0.001	97	794635	5.07	
157 Di-n-butyl phthalate	149		10.356				ND	
164 Fluoranthene	202	11.109	11.104	0.001	98	381586	2.04	
167 Pyrene	202	11.369	11.366	0.000	97	245795	1.35	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228	12.762	12.764	0.000	98	73811	0.3961	
182 Chrysene	228	12.804	12.809	-0.006	97	57409	0.3371	
184 Di-n-octyl phthalate	149		13.420				ND	U
186 Benzo[b]fluoranthene	252	14.013	14.019	0.006	97	55979	0.3053	
187 Benzo[k]fluoranthene	252	14.037	14.037	0.000	92	26498	0.1353	Ma
189 Benzo[a]pyrene	252	14.398	14.401	0.000	78	43652	0.2724	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276	15.957	15.942	0.012	97	23477	0.1294	
195 Benzo[g,h,i]perylene	276	16.408	16.417	0.012	94	18671	0.1275	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

e - Potential Peak Saturated

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

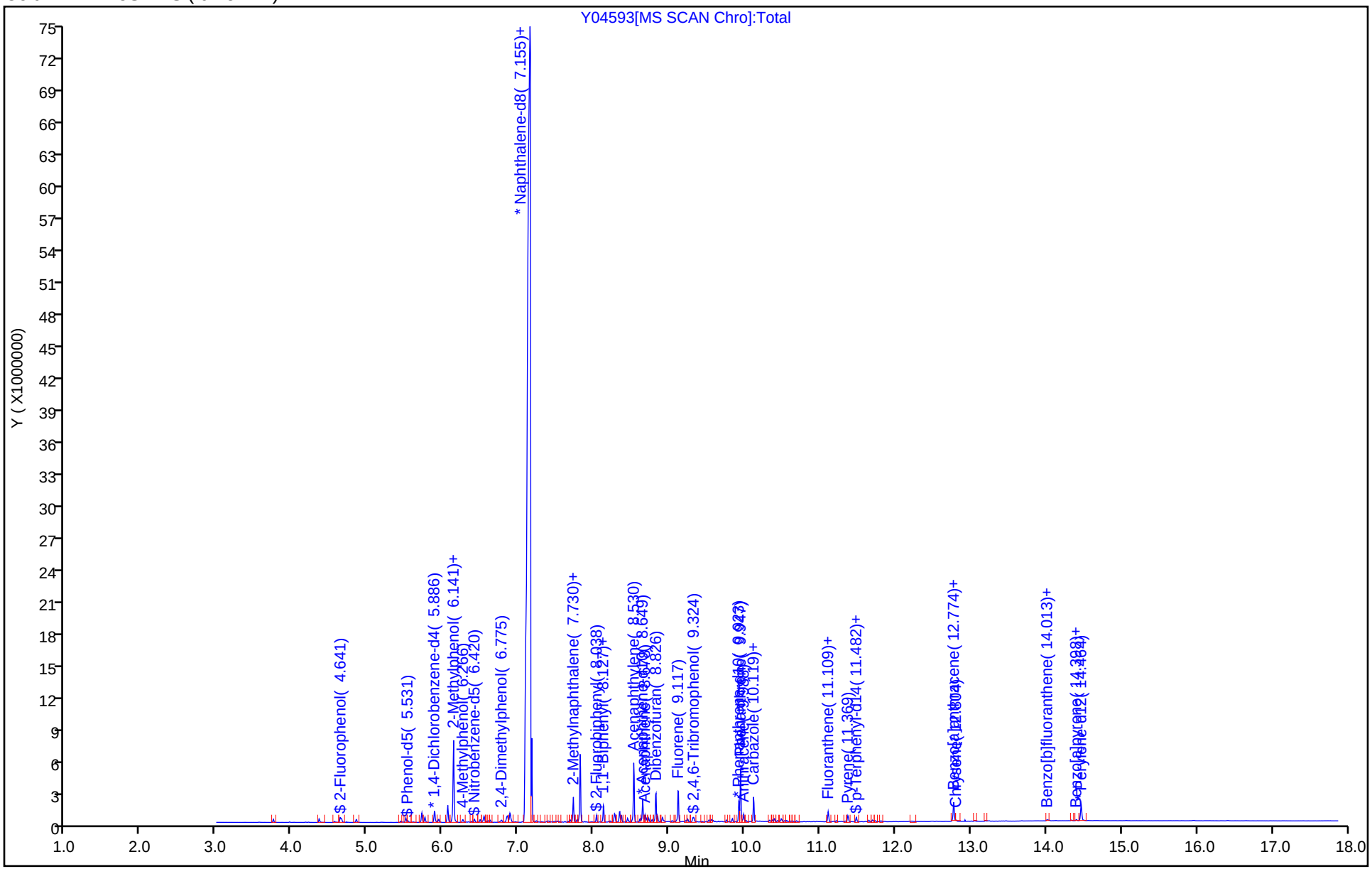
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10	Worklist Smp#:	24
Client ID:	MW-BCP-13B-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	24
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Lims ID: 480-224869-A-10-A
Client ID: MW-BCP-13B-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 21:18:30 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Sample Info: 480-0120882-024
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

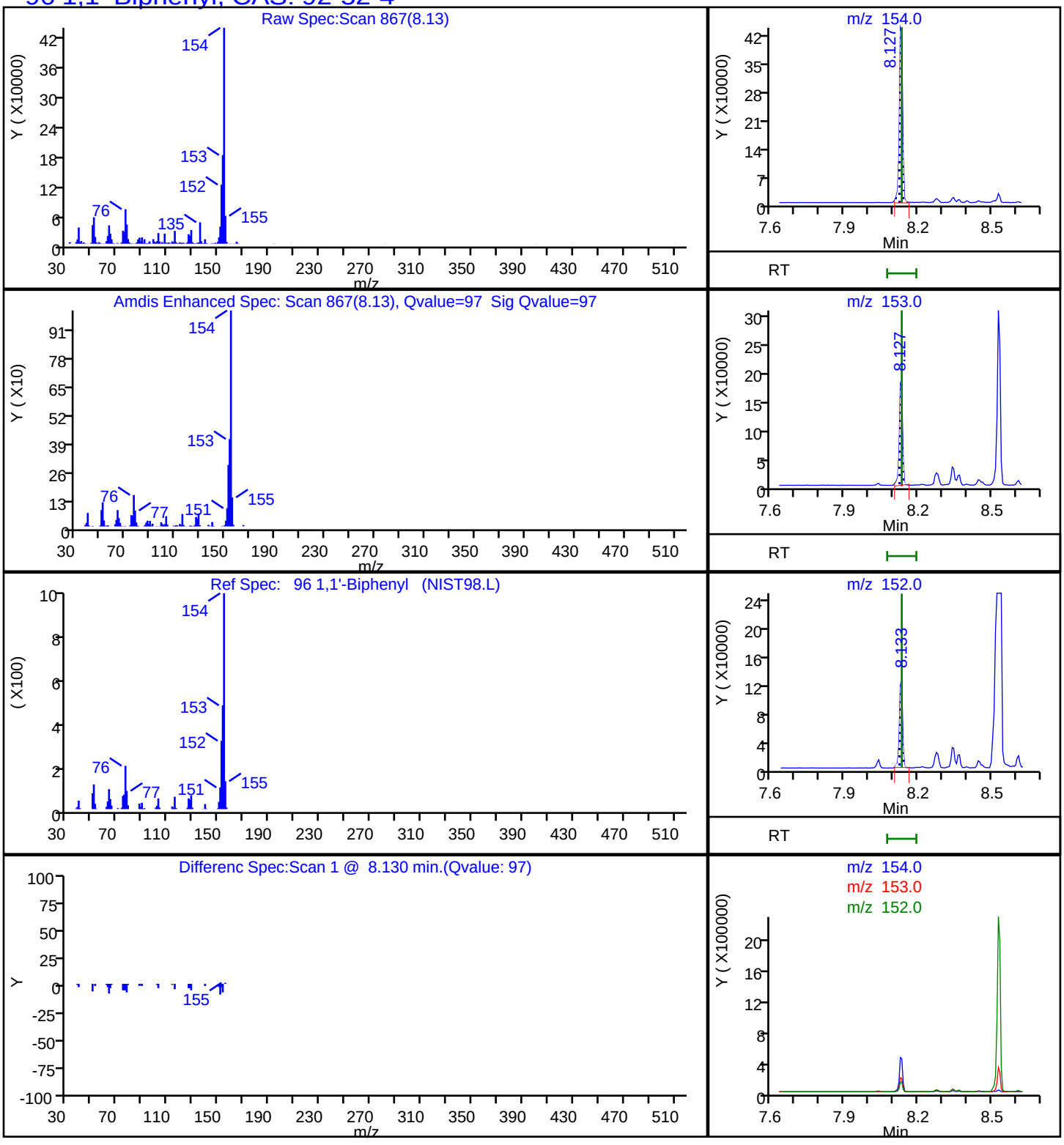
First Level Reviewer: IZ8L Date: 30-Oct-2024 15:11:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	0.9296	58.10
$ 8 Phenol-d5	8.00	0.7664	47.90
$ 9 Nitrobenzene-d5	8.00	0.9822	61.39
$ 10 2-Fluorobiphenyl	8.00	1.24	77.77
$ 11 2,4,6-Tribromophenol	8.00	1.35	84.36
$ 12 p-Terphenyl-d14	8.00	0.8166	51.04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Injection Date: 29-Oct-2024 21:18:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-10-A Lab Sample ID: 480-224869-10
Client ID: MW-BCP-13B-10252024
Operator ID: JM ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

96 1,1'-Biphenyl, CAS: 92-52-4

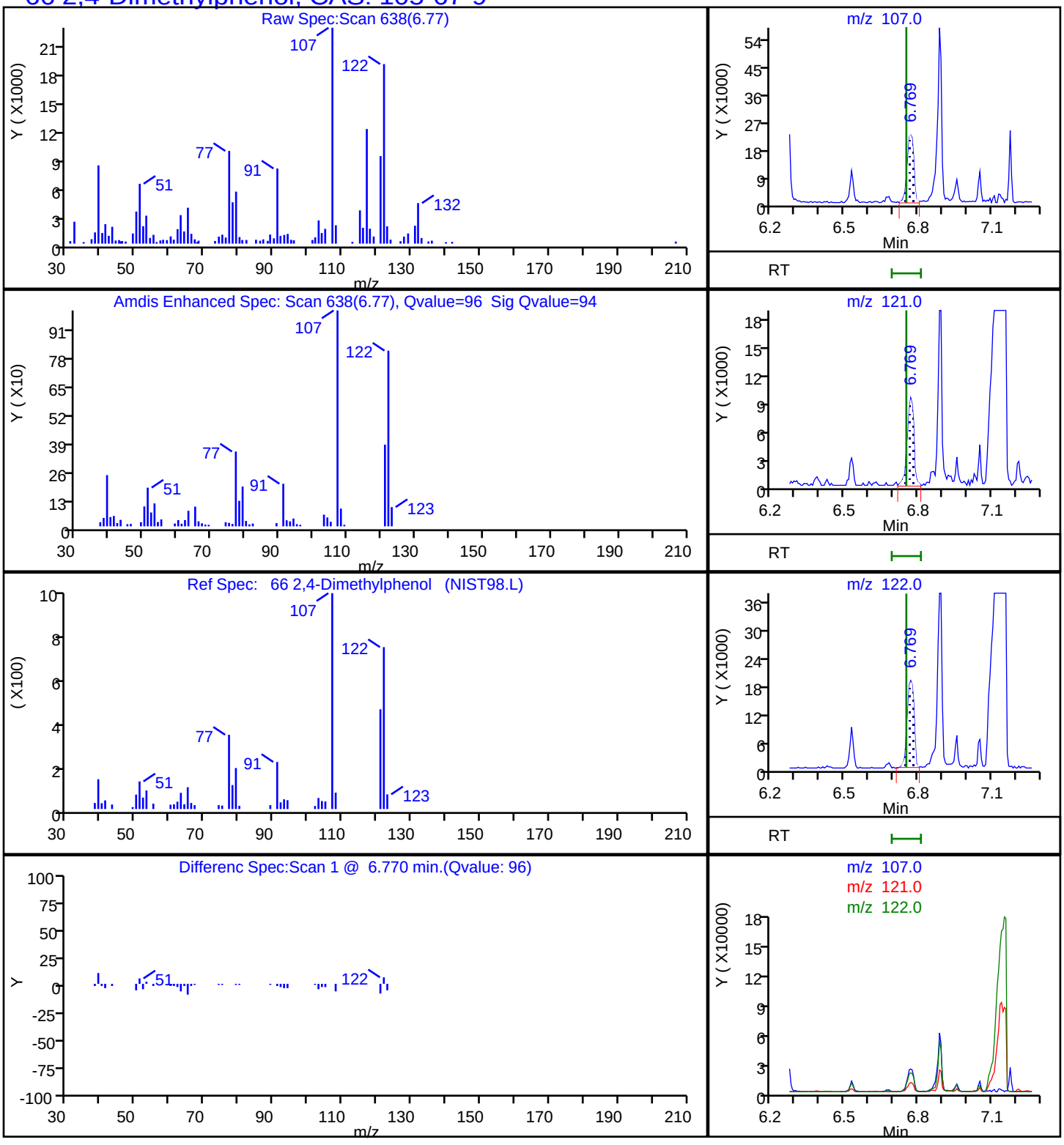


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

66 2,4-Dimethylphenol, CAS: 105-67-9



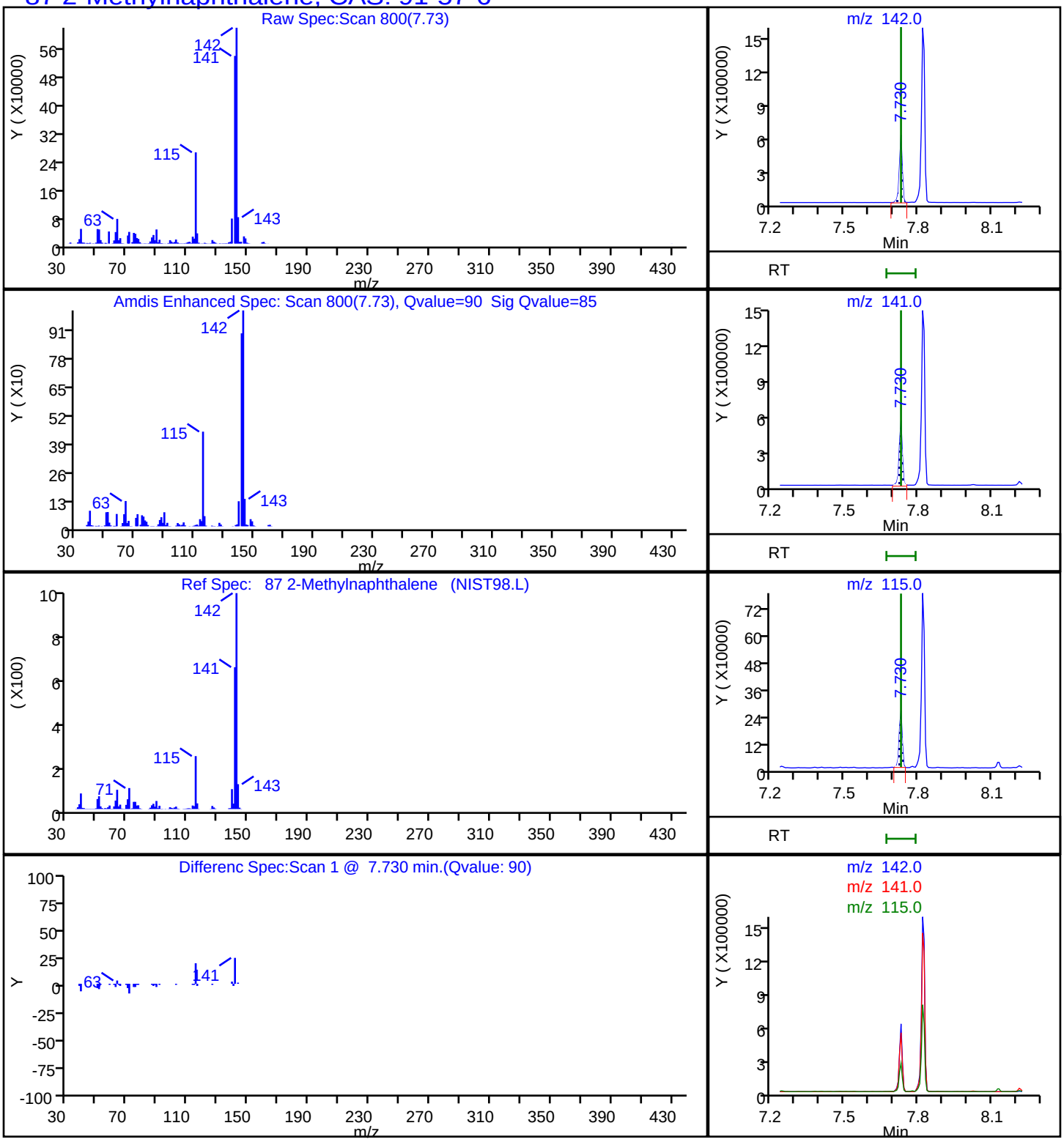
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

87 2-Methylnaphthalene, CAS: 91-57-6



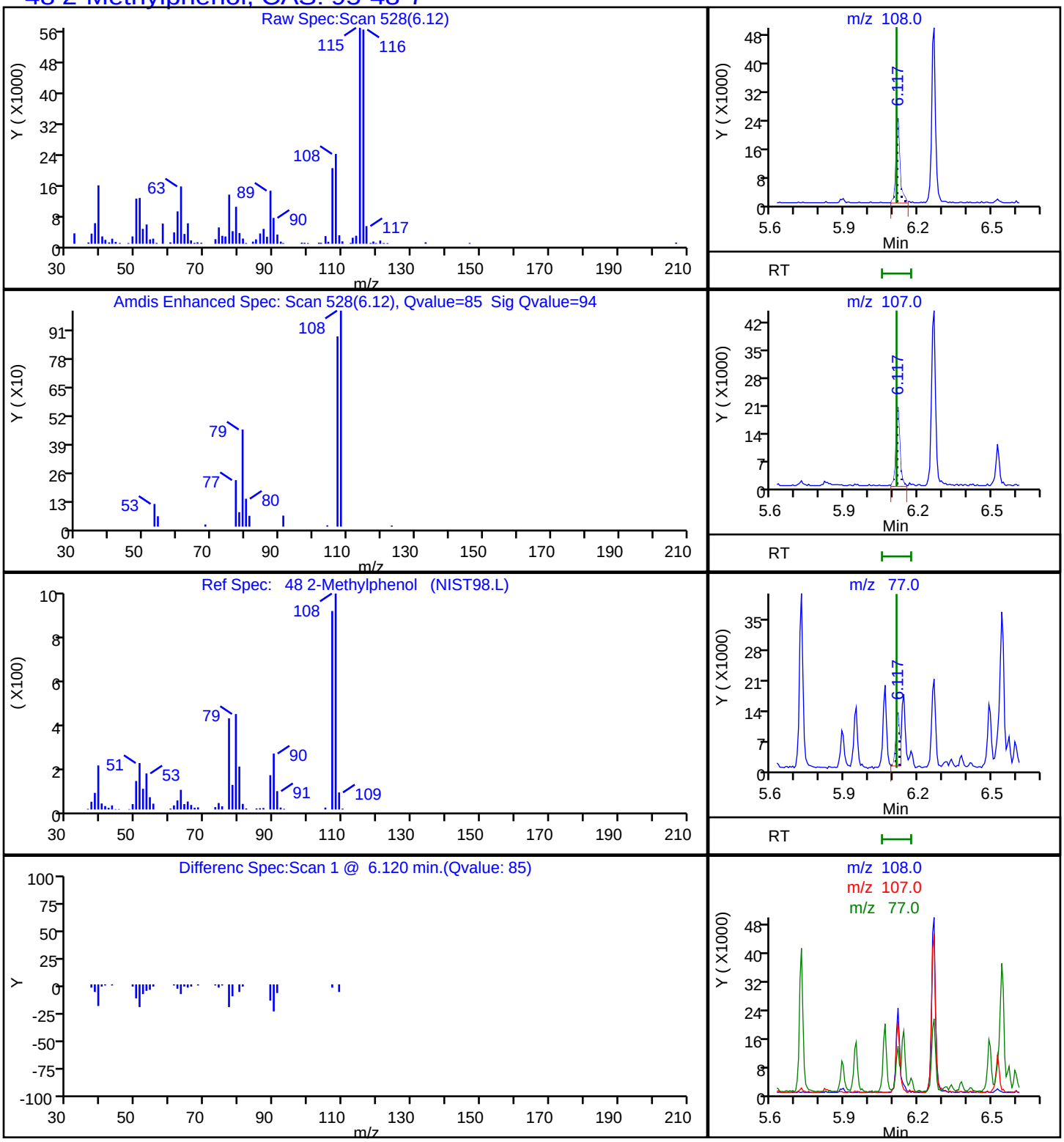
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

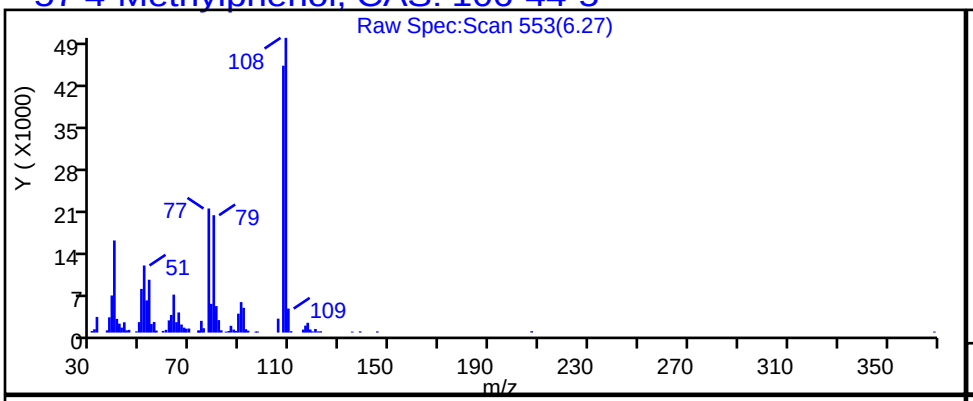
48 2-Methylphenol, CAS: 95-48-7

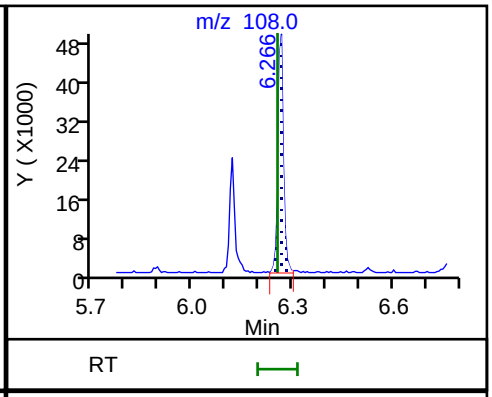


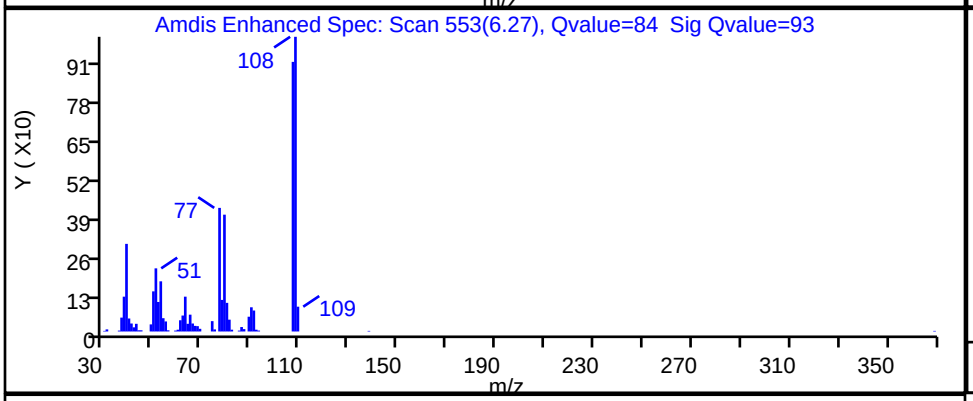
Eurofins Buffalo

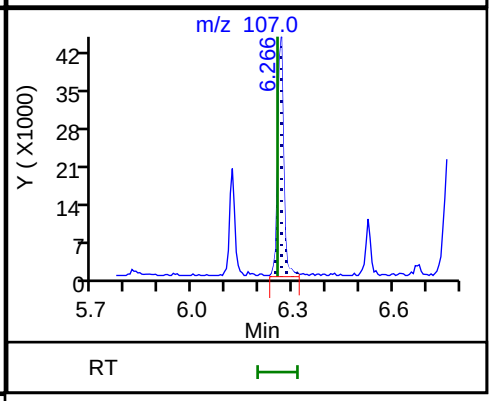
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Injection Date: 29-Oct-2024 21:18:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-10-A Lab Sample ID: 480-224869-10
Client ID: MW-BCP-13B-10252024
Operator ID: JM ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

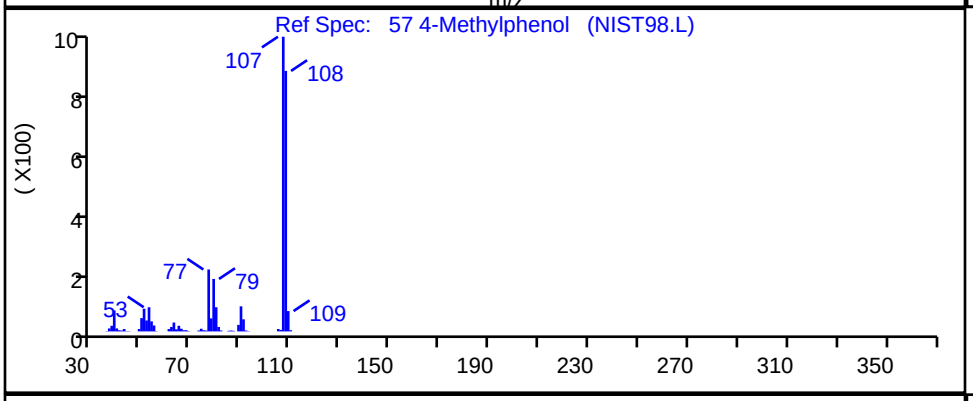
57 4-Methylphenol, CAS: 106-44-5

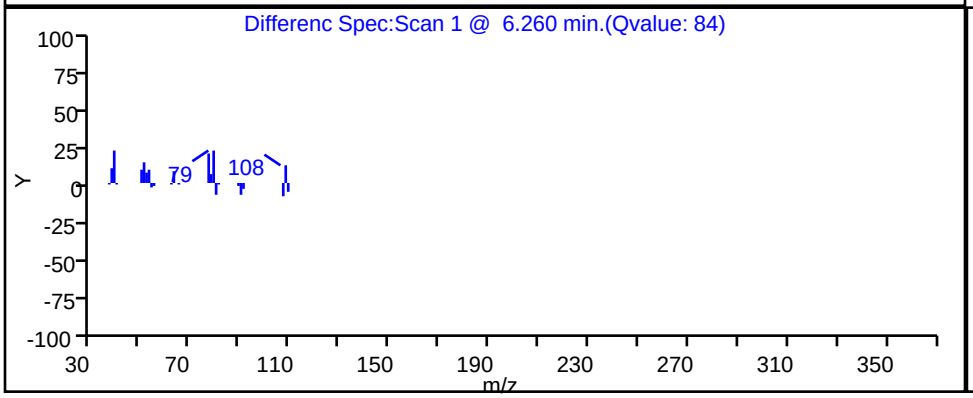


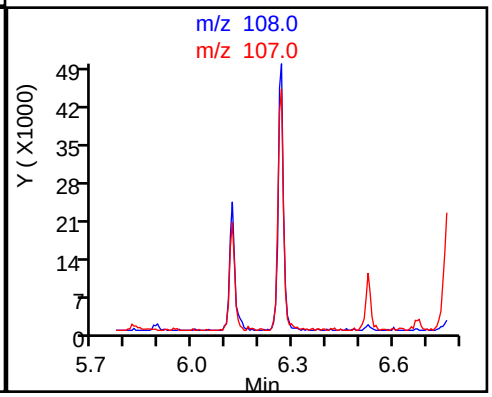










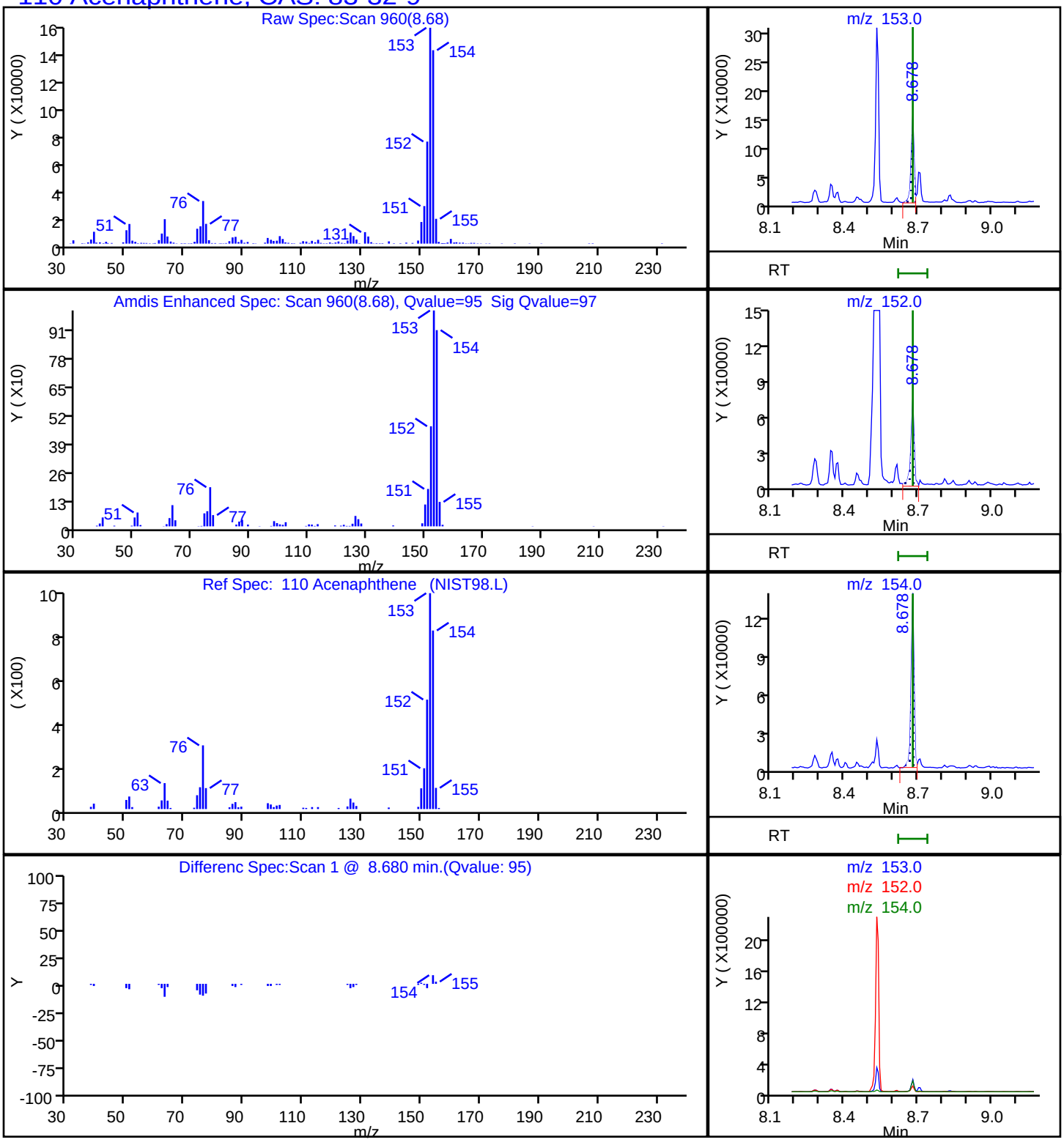


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

110 Acenaphthene, CAS: 83-32-9

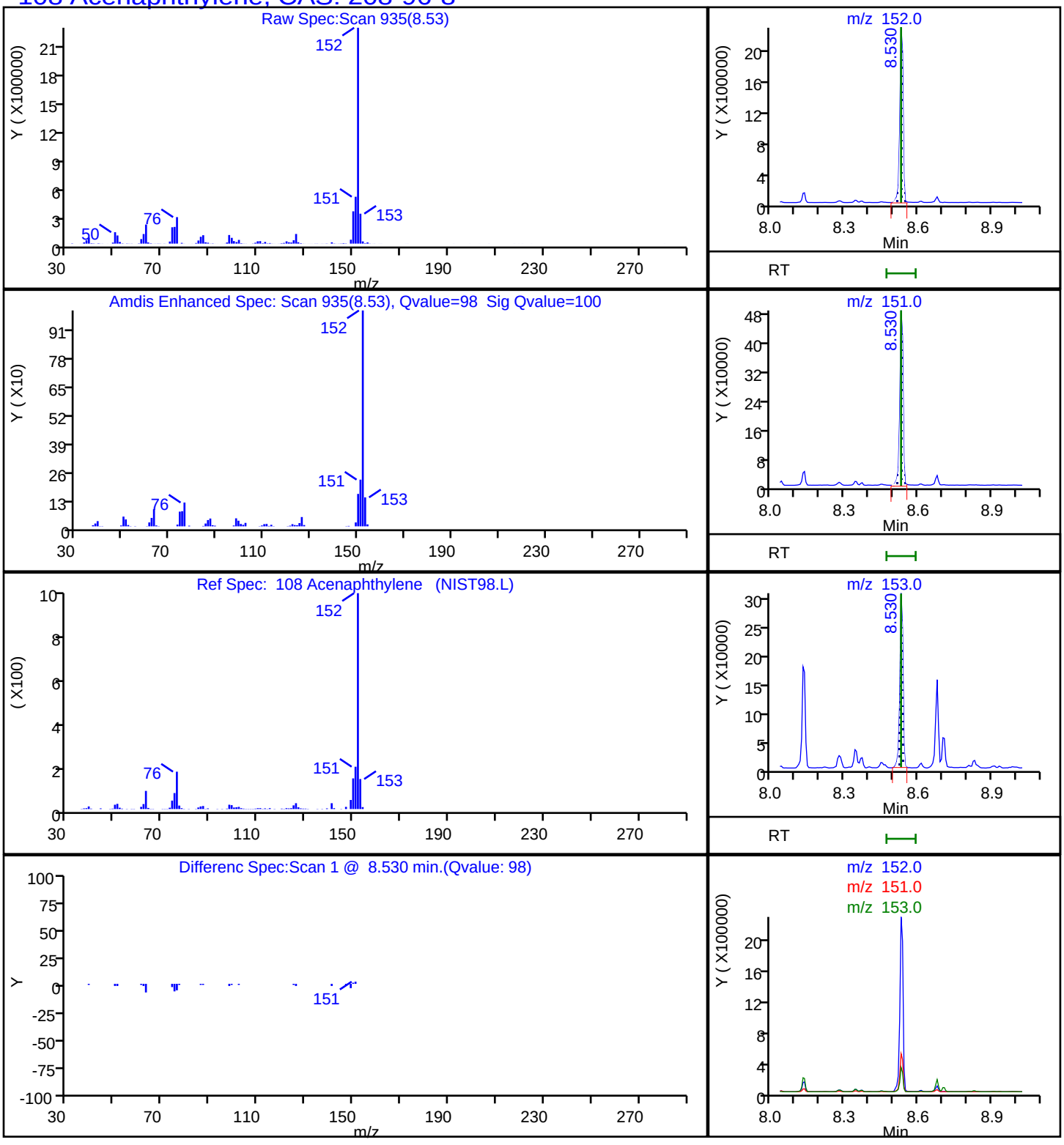


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

108 Acenaphthylene, CAS: 208-96-8



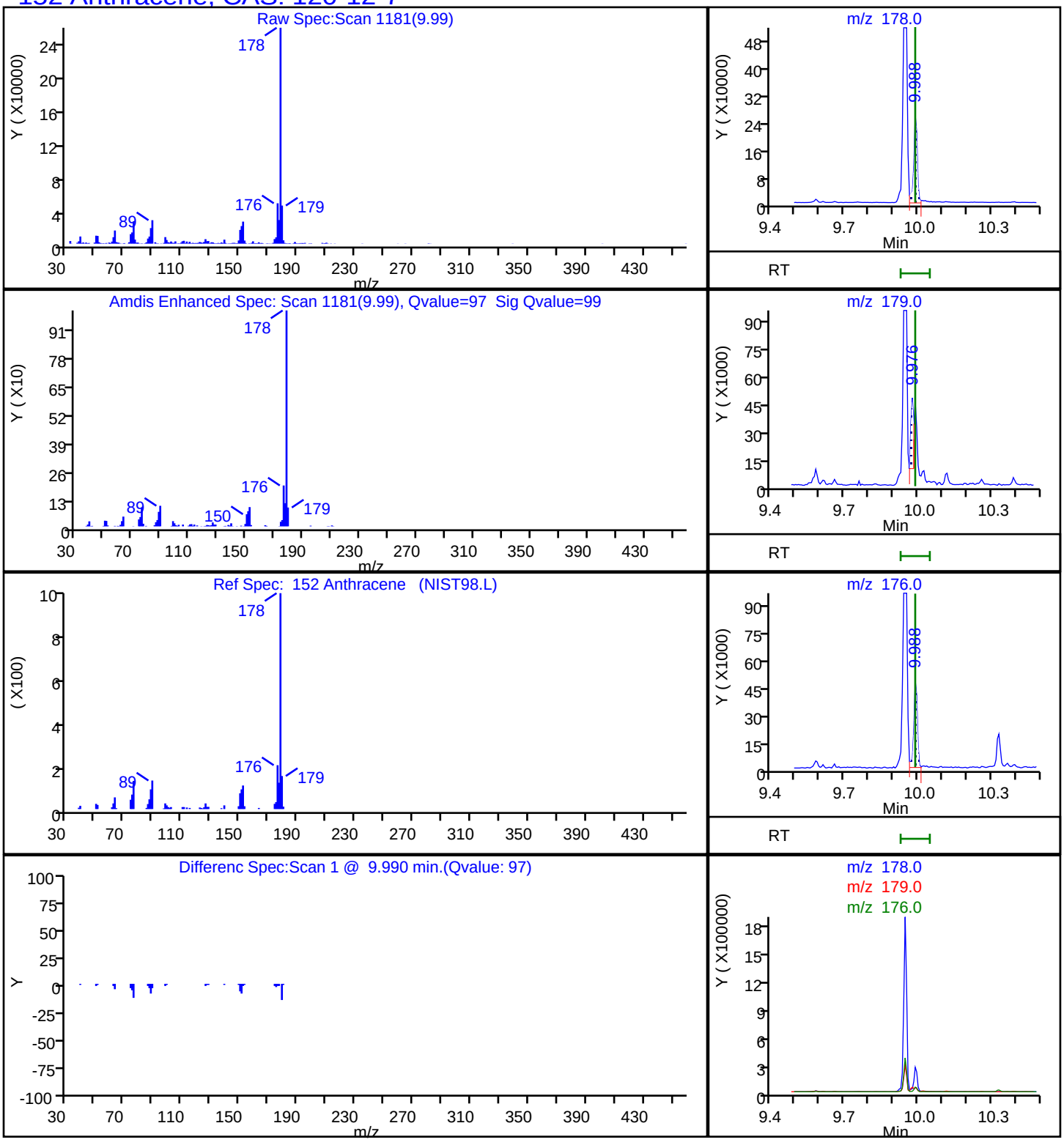
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

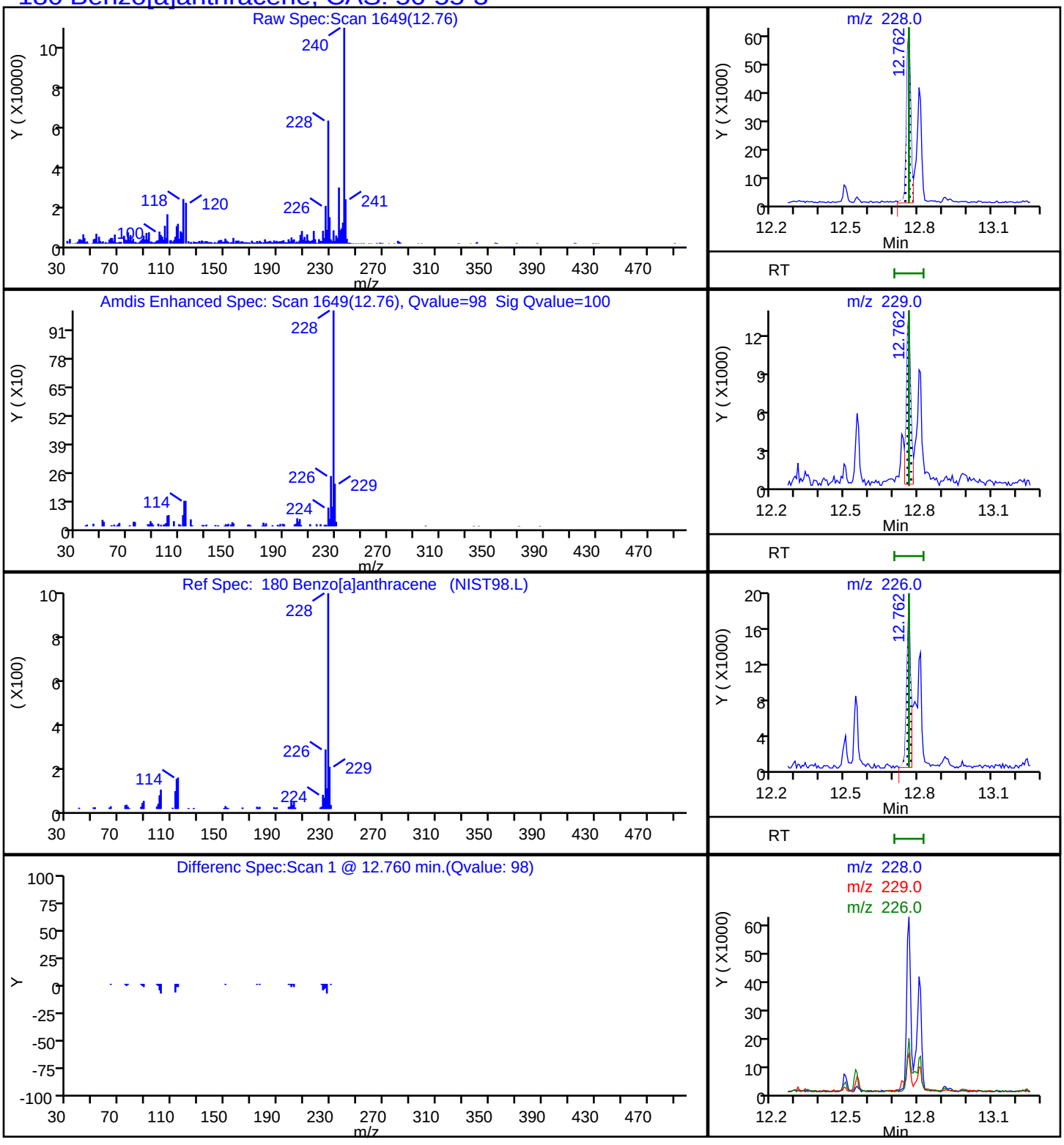
152 Anthracene, CAS: 120-12-7



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Injection Date: 29-Oct-2024 21:18:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-10-A Lab Sample ID: 480-224869-10
Client ID: MW-BCP-13B-10252024
Operator ID: JM ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

180 Benzo[a]anthracene, CAS: 56-55-3



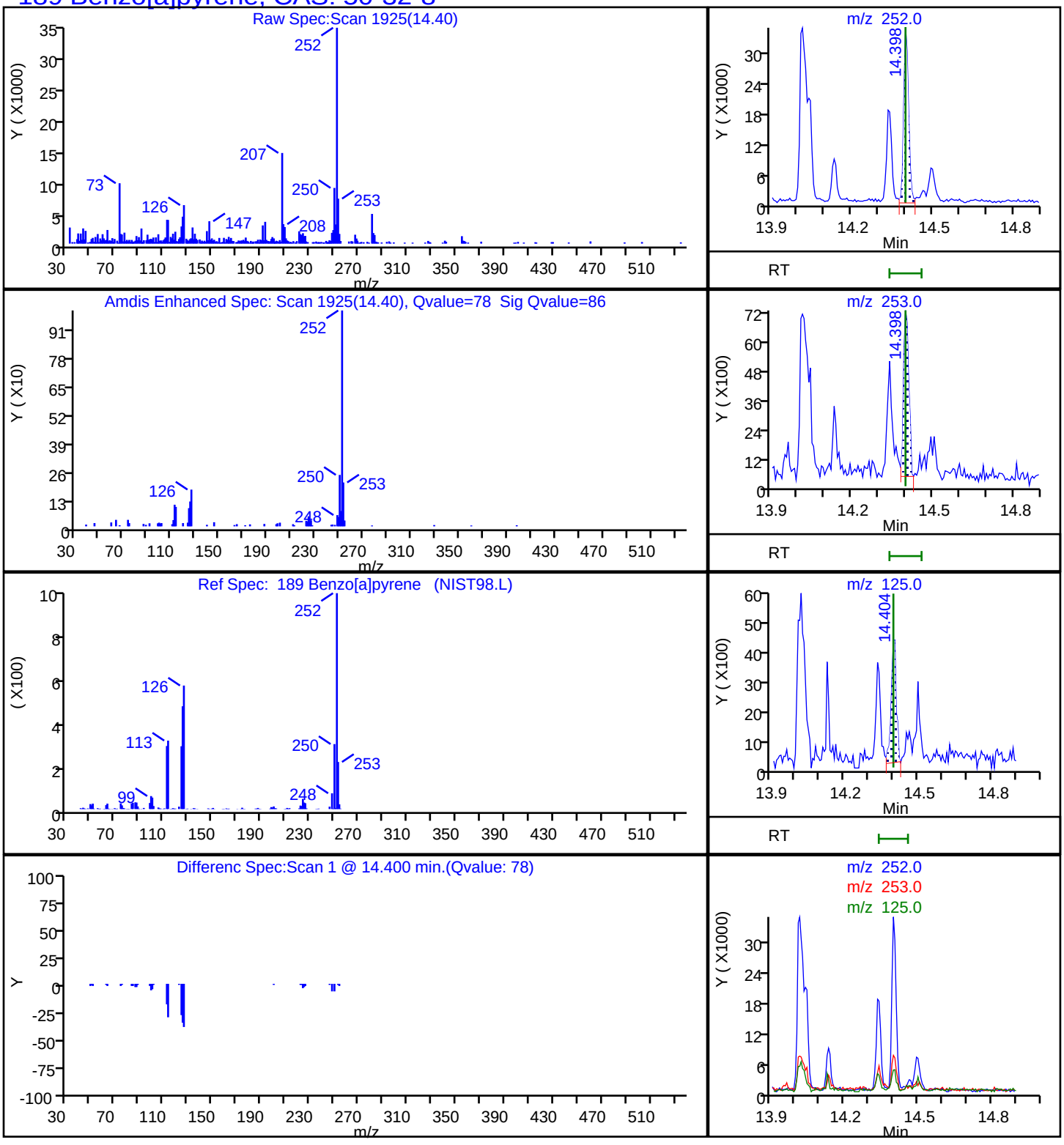
Report Date: 30-Oct-2024 15:17:26 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

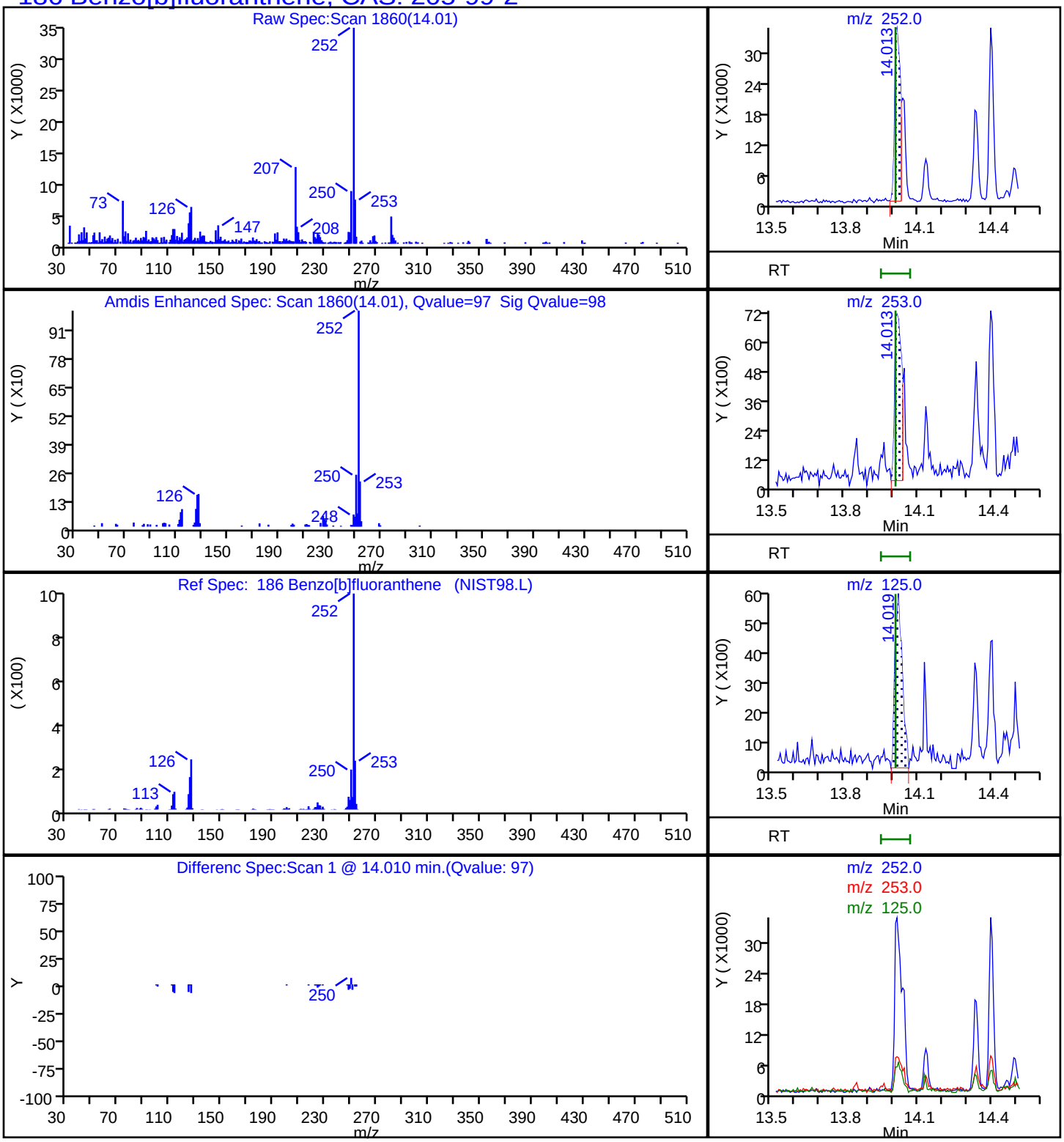
189 Benzo[a]pyrene, CAS: 50-32-8



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Injection Date: 29-Oct-2024 21:18:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-10-A Lab Sample ID: 480-224869-10
Client ID: MW-BCP-13B-10252024
Operator ID: JM ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

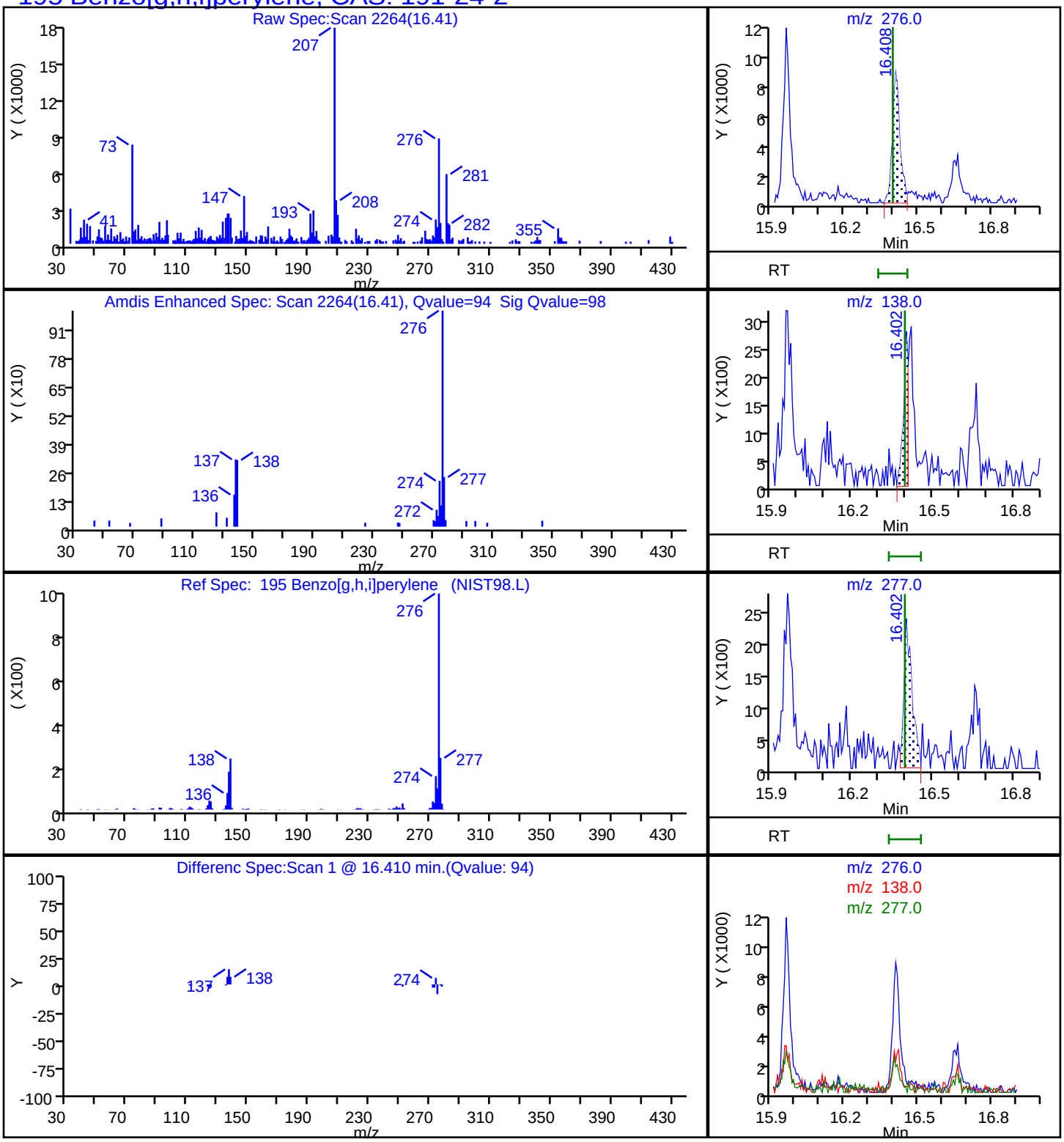
186 Benzo[b]fluoranthene, CAS: 205-99-2



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

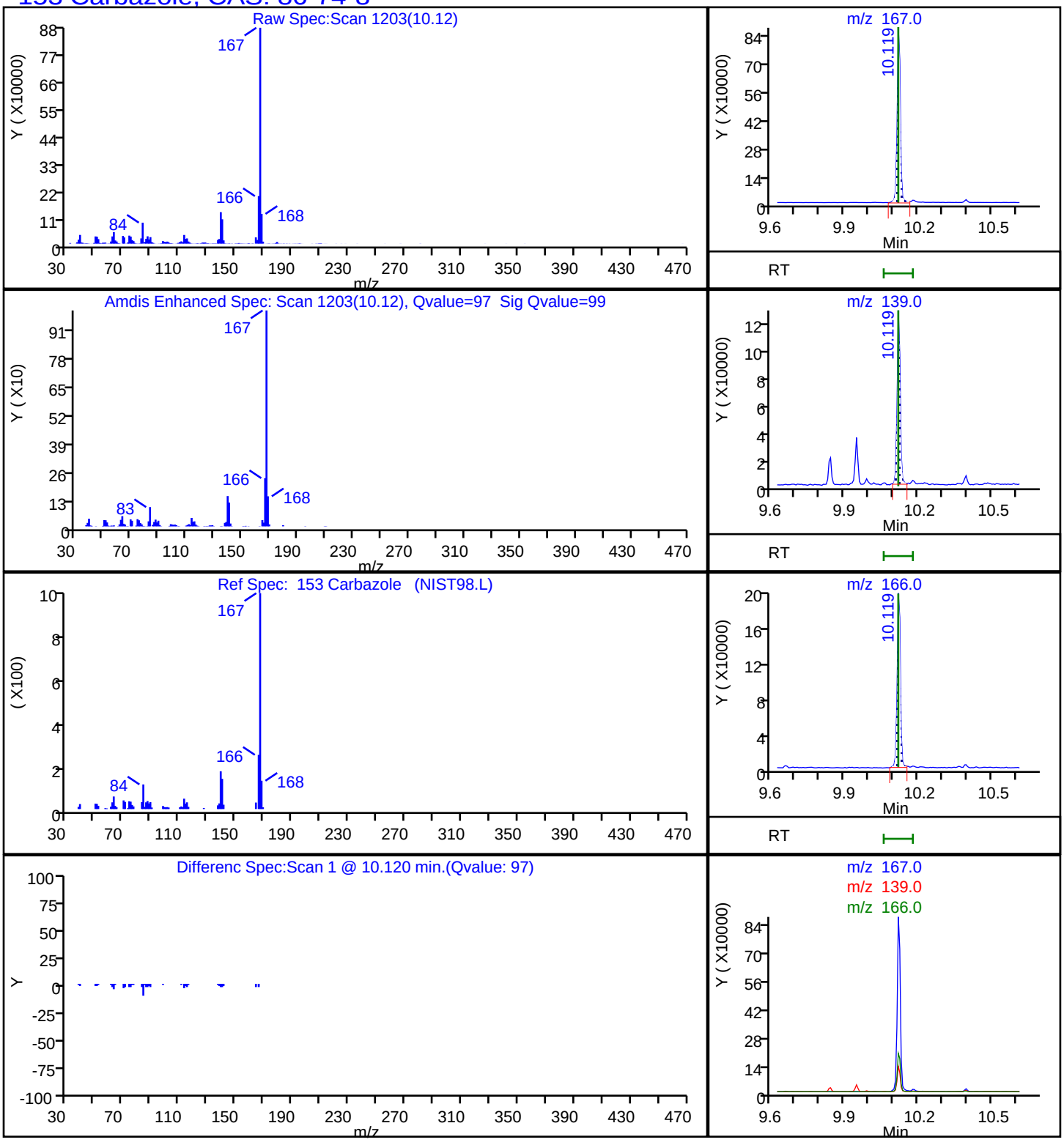
195 Benzo[g,h,i]perylene, CAS: 191-24-2



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D
Injection Date: 29-Oct-2024 21:18:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-10-A Lab Sample ID: 480-224869-10
Client ID: MW-BCP-13B-10252024
Operator ID: JM ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

153 Carbazole, CAS: 86-74-8



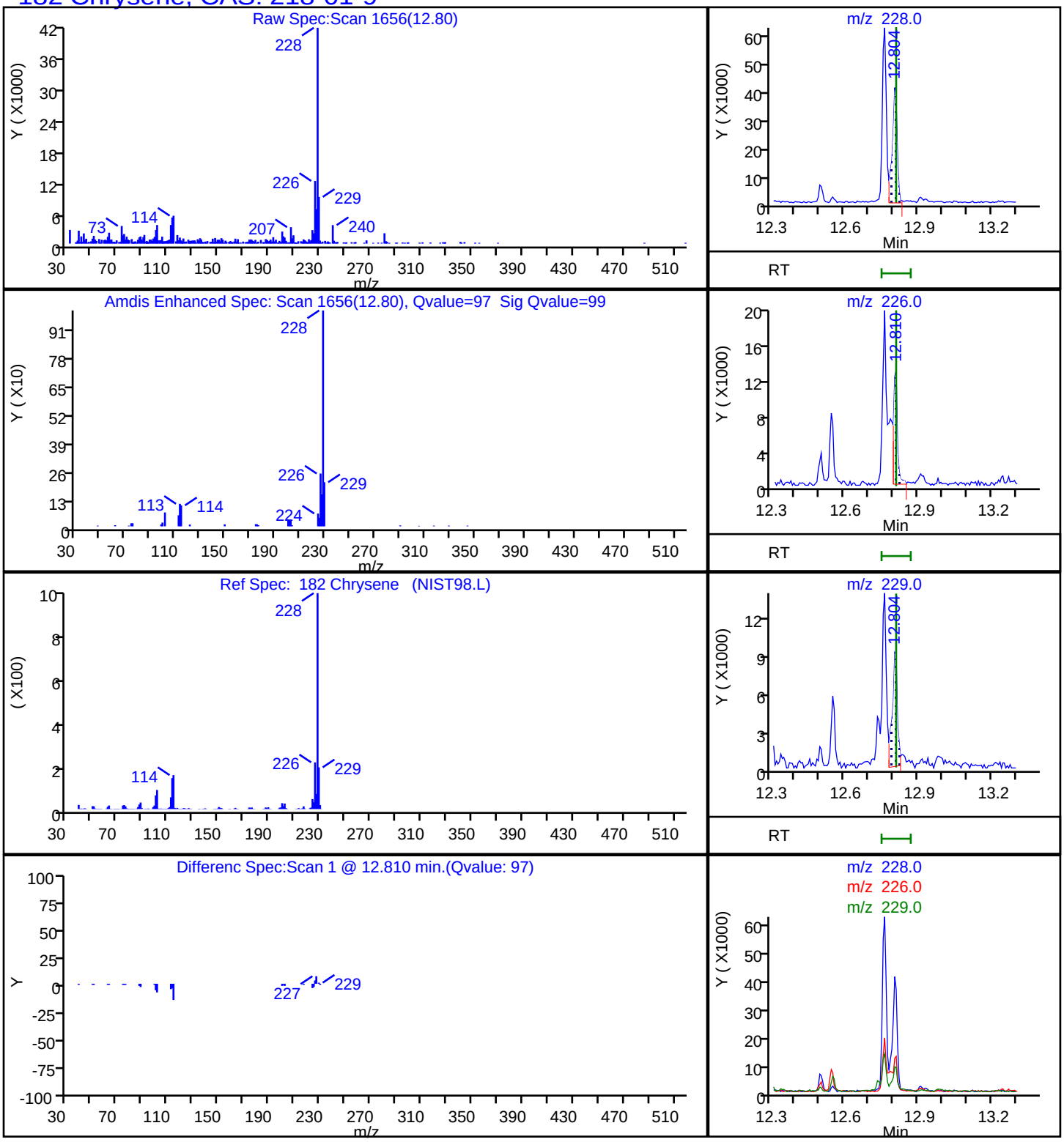
Report Date: 30-Oct-2024 15:17:26 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

182 Chrysene, CAS: 218-01-9



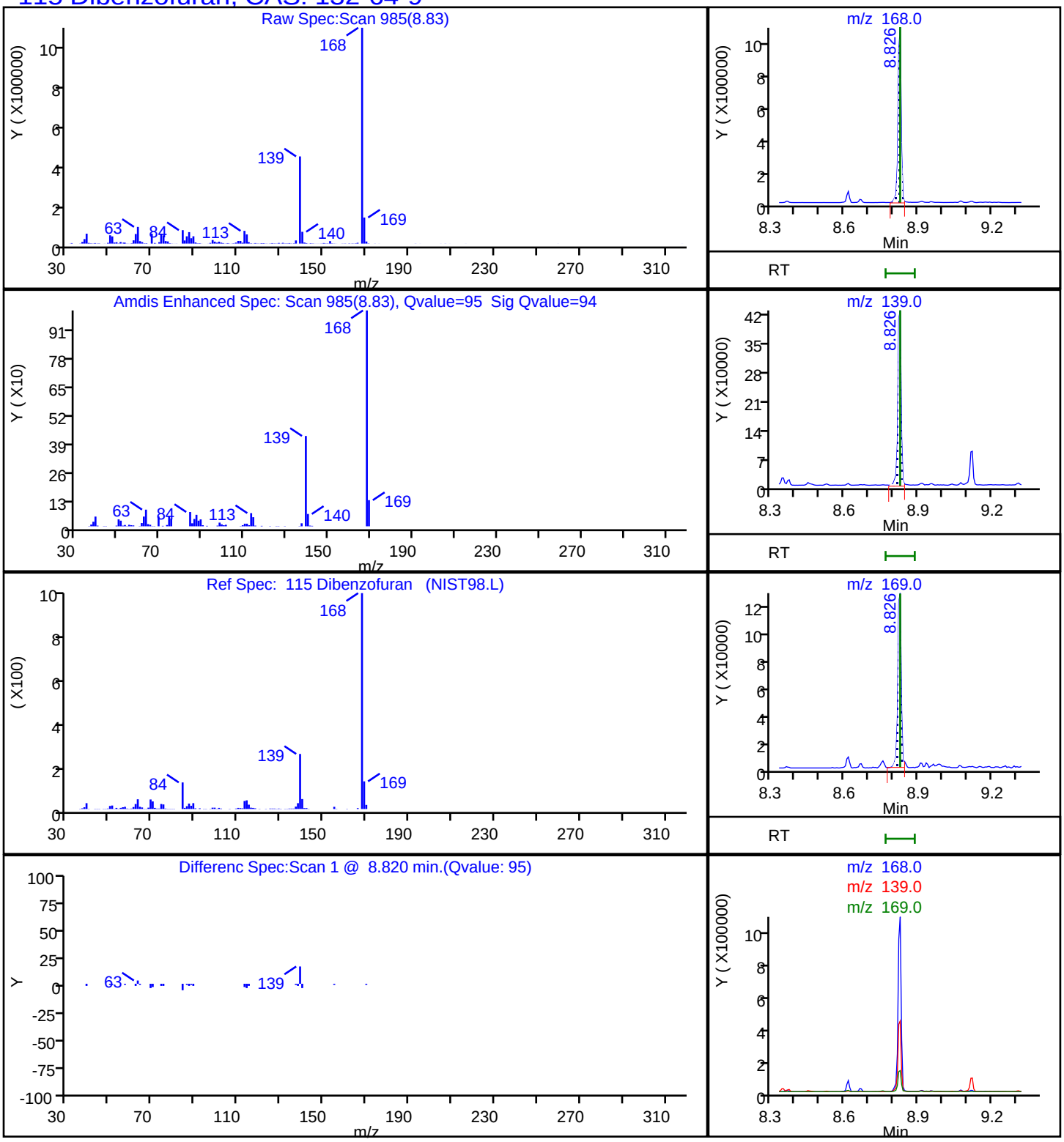
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

115 Dibenzofuran, CAS: 132-64-9



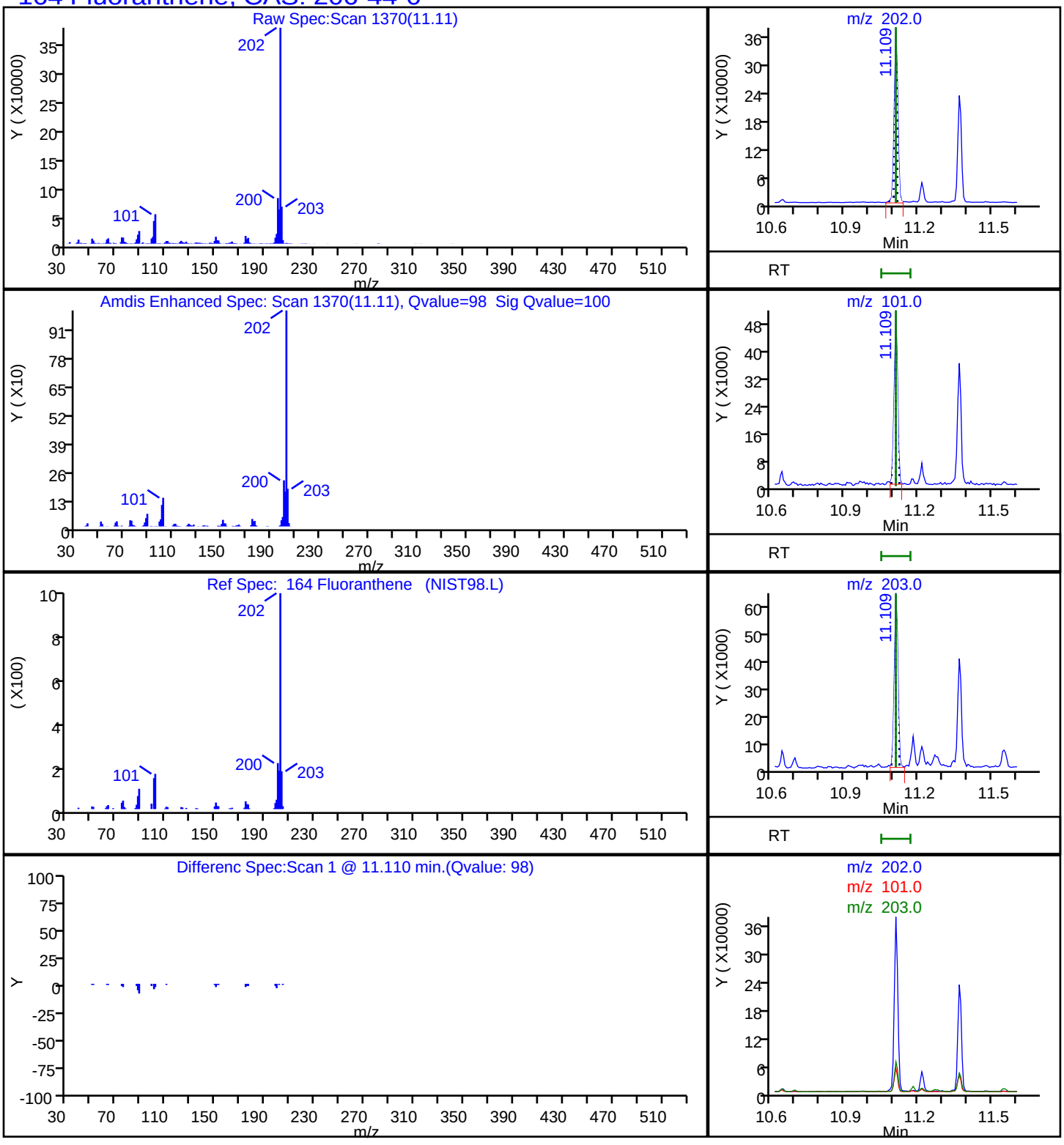
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

164 Fluoranthene, CAS: 206-44-0



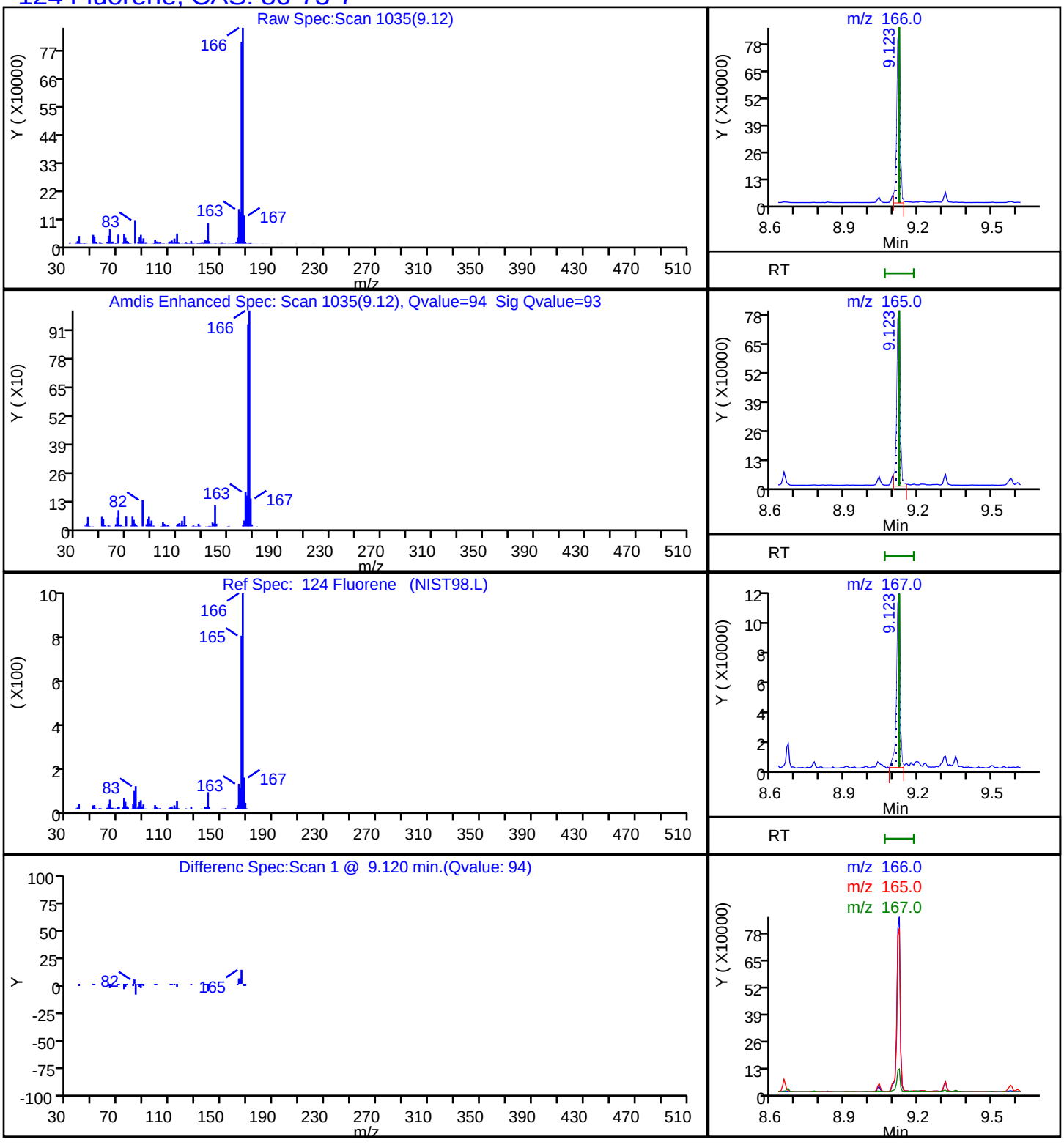
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

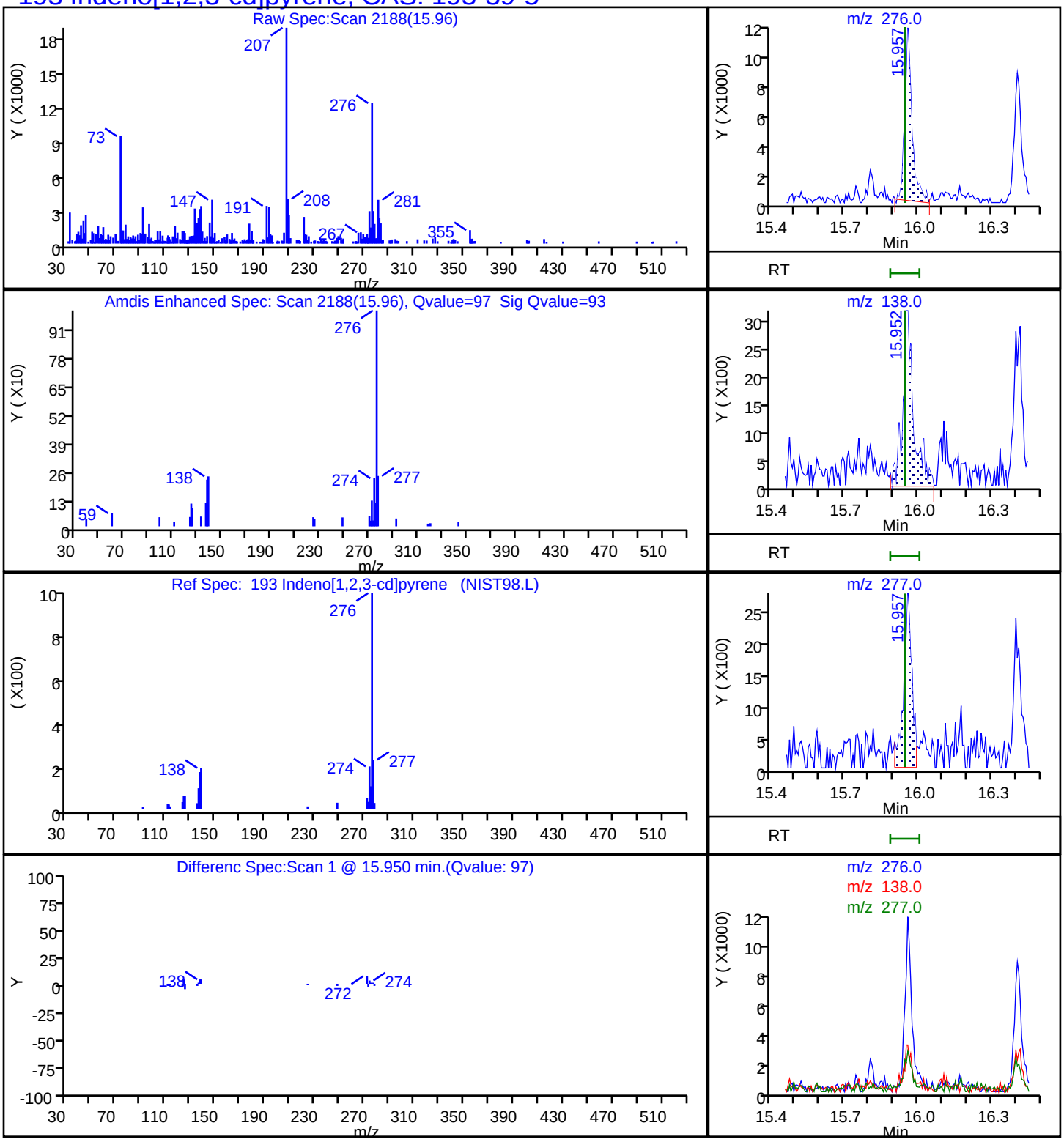
124 Fluorene, CAS: 86-73-7



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

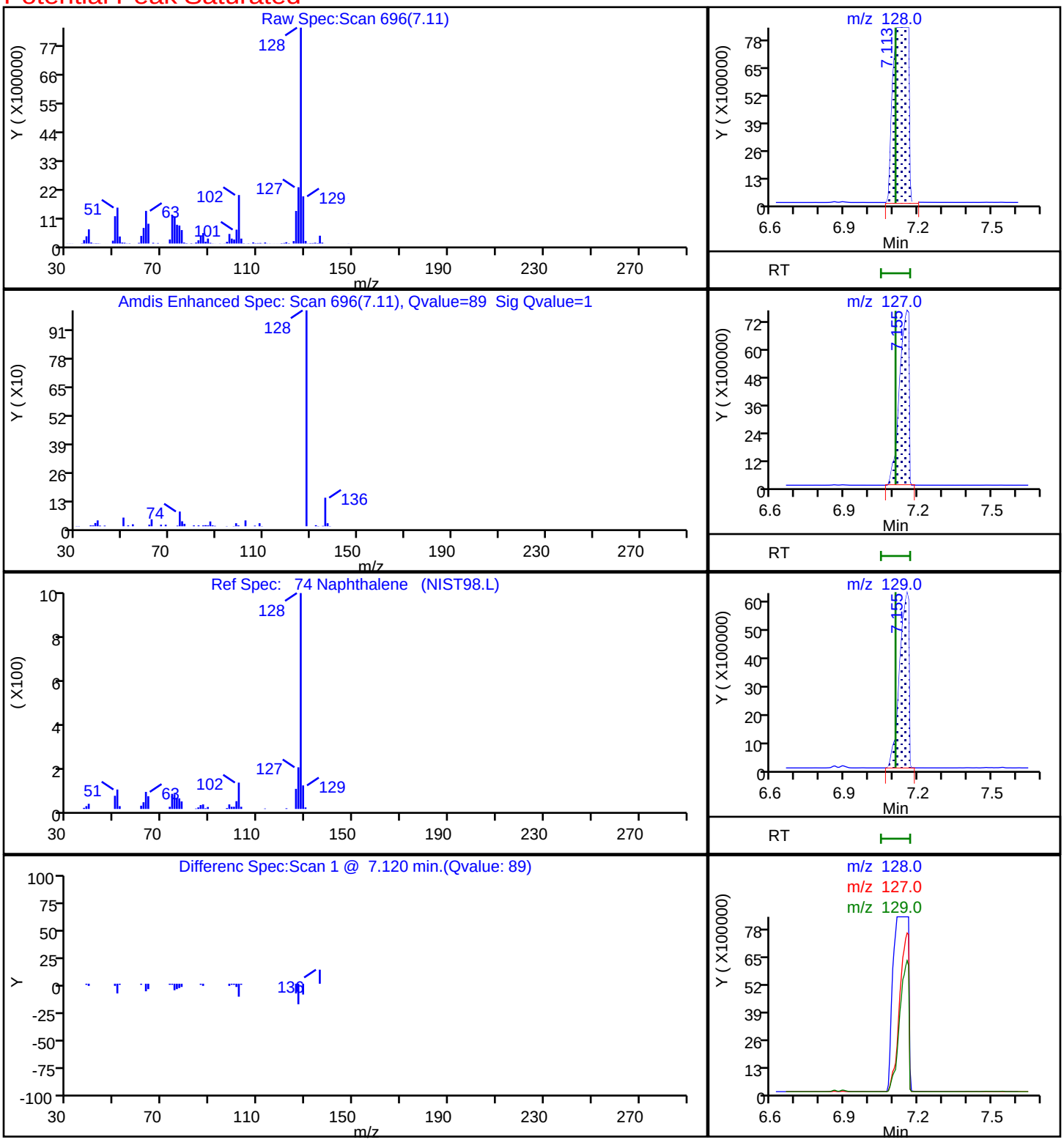
Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3

Potential Peak Saturated



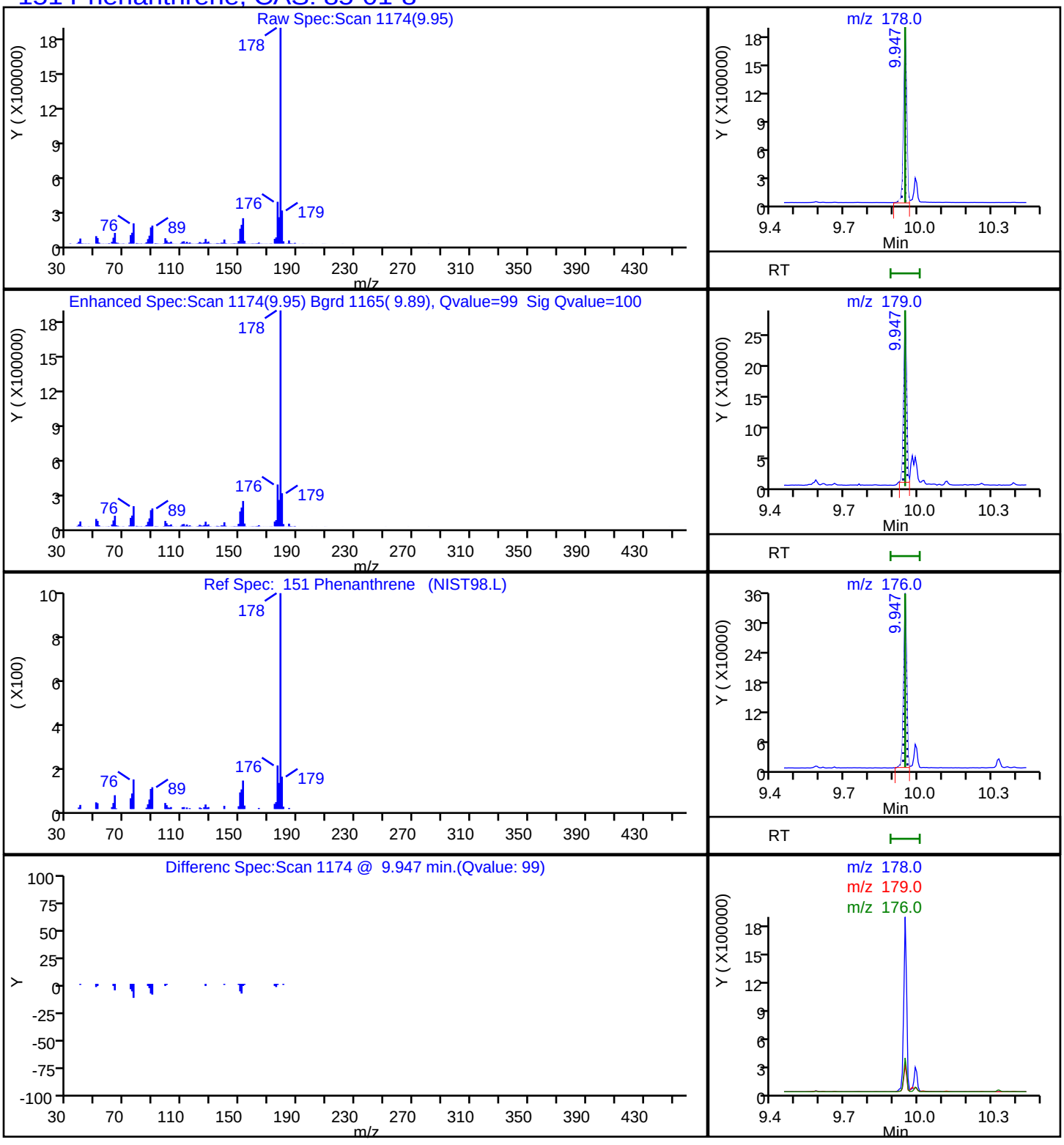
Report Date: 30-Oct-2024 15:17:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

151 Phenanthrene, CAS: 85-01-8

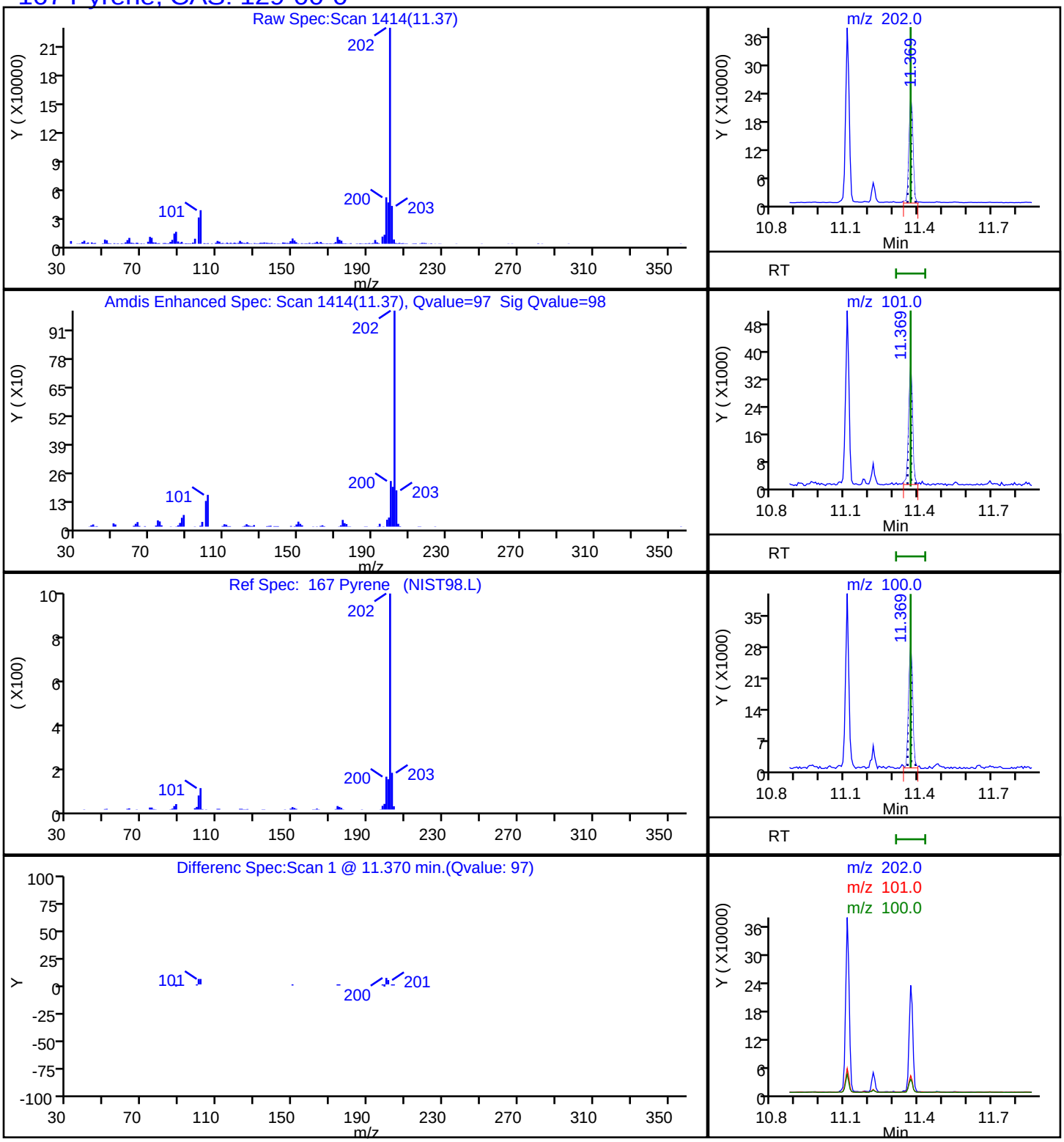


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D

Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10
Client ID:	MW-BCP-13B-10252024		
Operator ID:	JM	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

167 Pyrene, CAS: 129-00-0



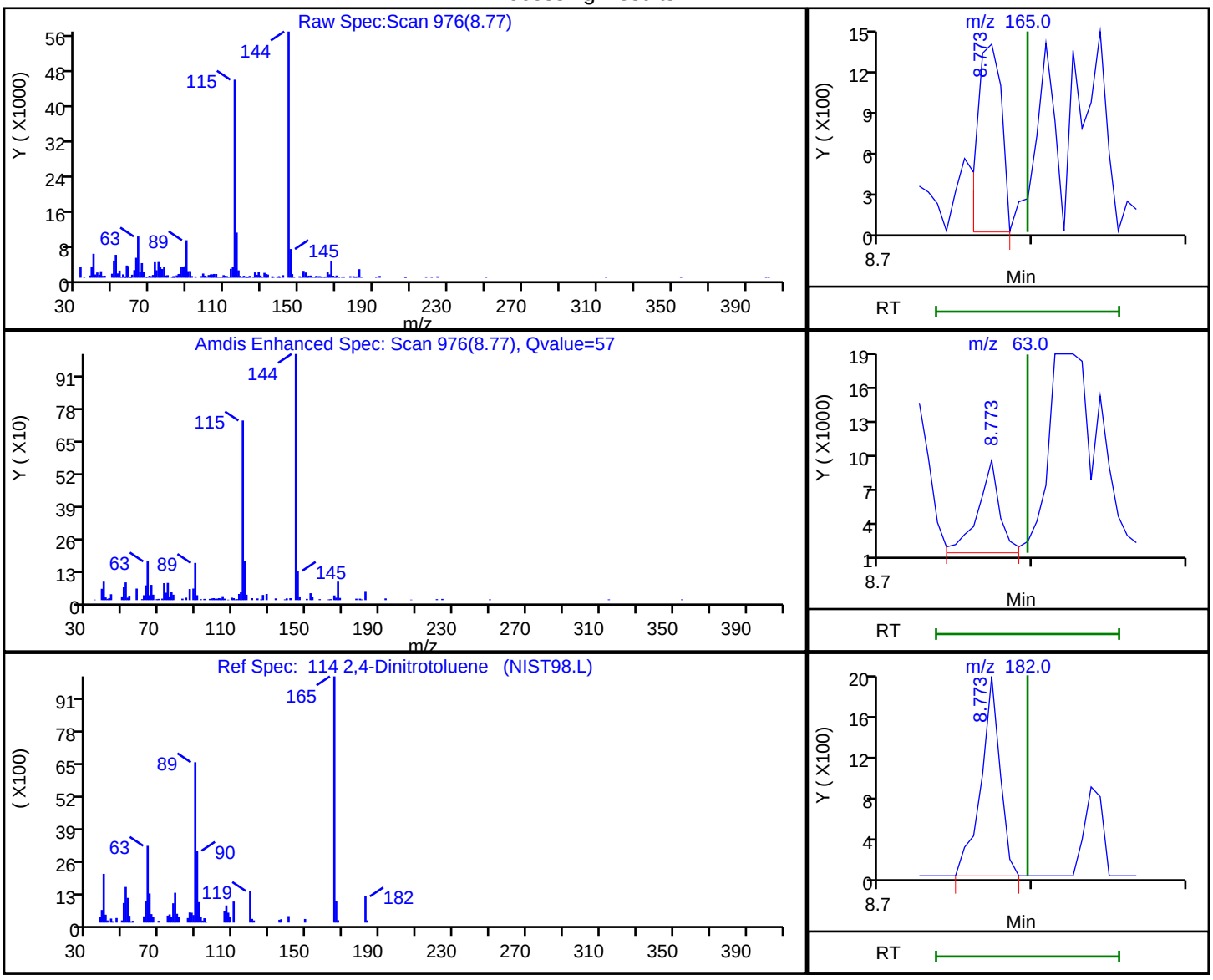
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

114 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
8.77	165.00	1478	0.161849
8.77	63.00	8356	
8.77	182.00	1692	

Reviewer: IZ8L, 30-Oct-2024 15:11:33 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

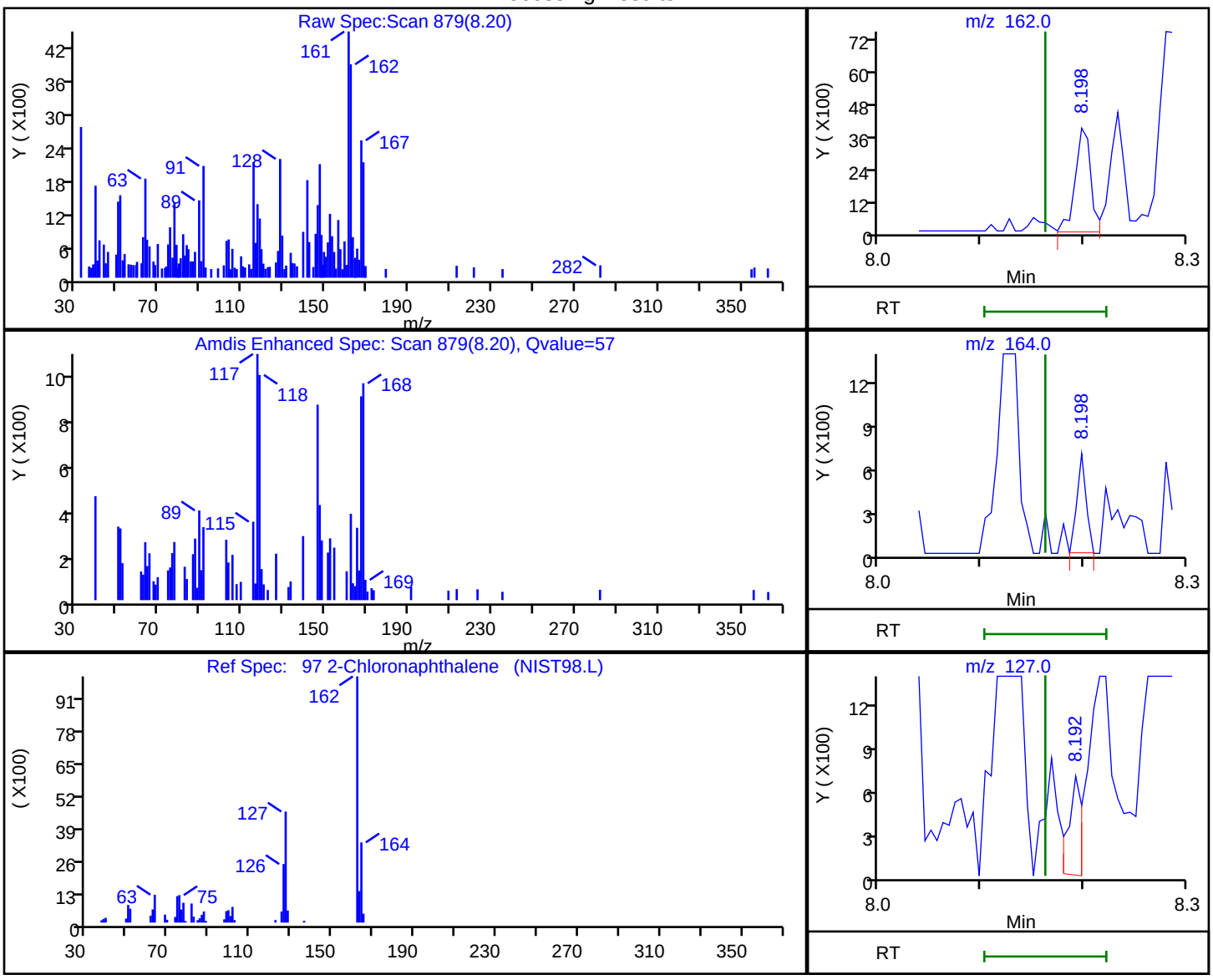
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

97 2-Chloronaphthalene, CAS: 91-58-7

Processing Results



RT	Mass	Response	Amount
8.20	162.00	4034	0.037138
8.20	164.00	443	
8.19	127.00	620	

Reviewer: IZ8L, 30-Oct-2024 15:11:28 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

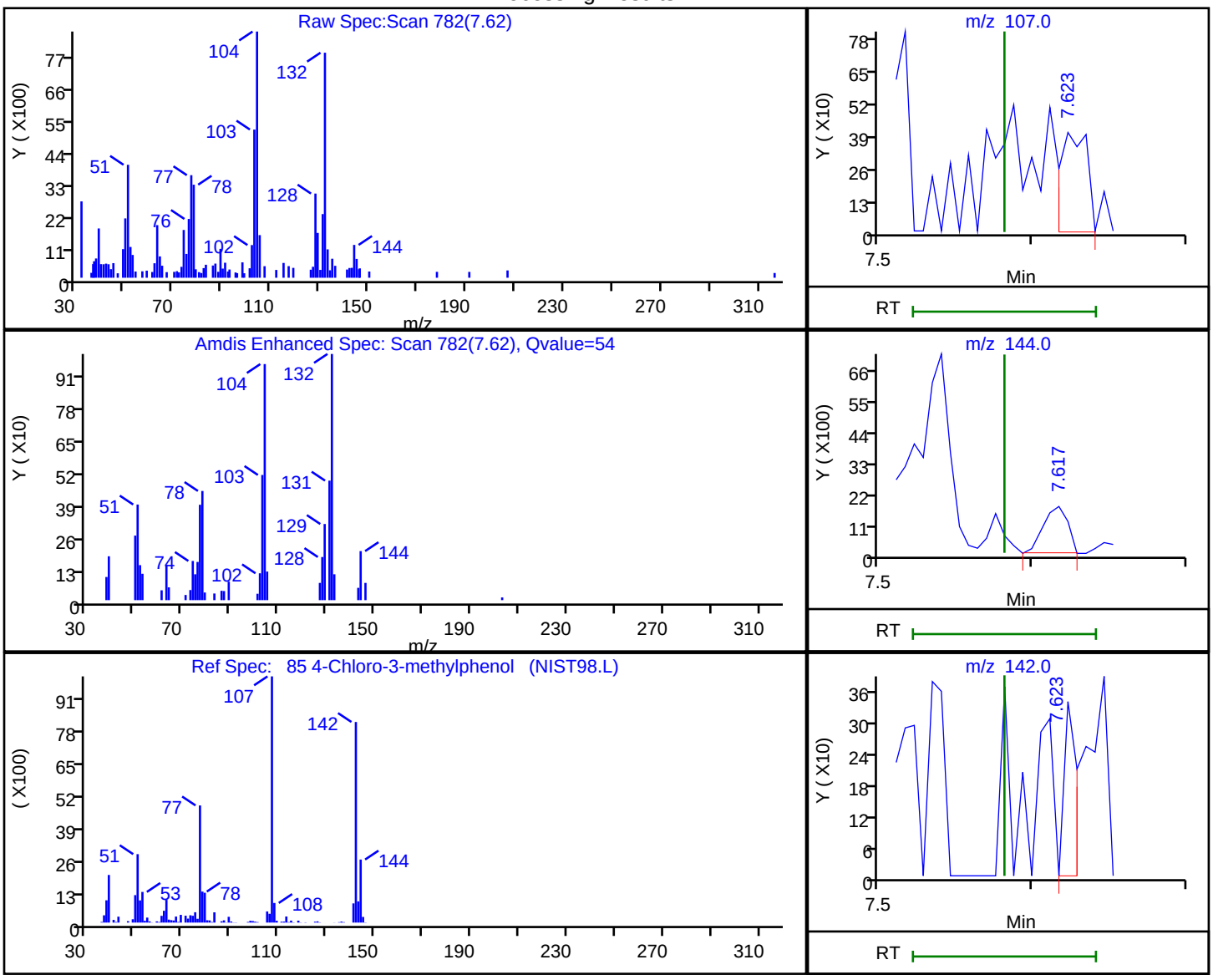
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

85 4-Chloro-3-methylphenol, CAS: 59-50-7

Processing Results



RT	Mass	Response	Amount
7.62	107.00	493	0.084636
7.62	144.00	1864	
7.62	142.00	194	

Reviewer: IZ8L, 30-Oct-2024 15:11:24 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

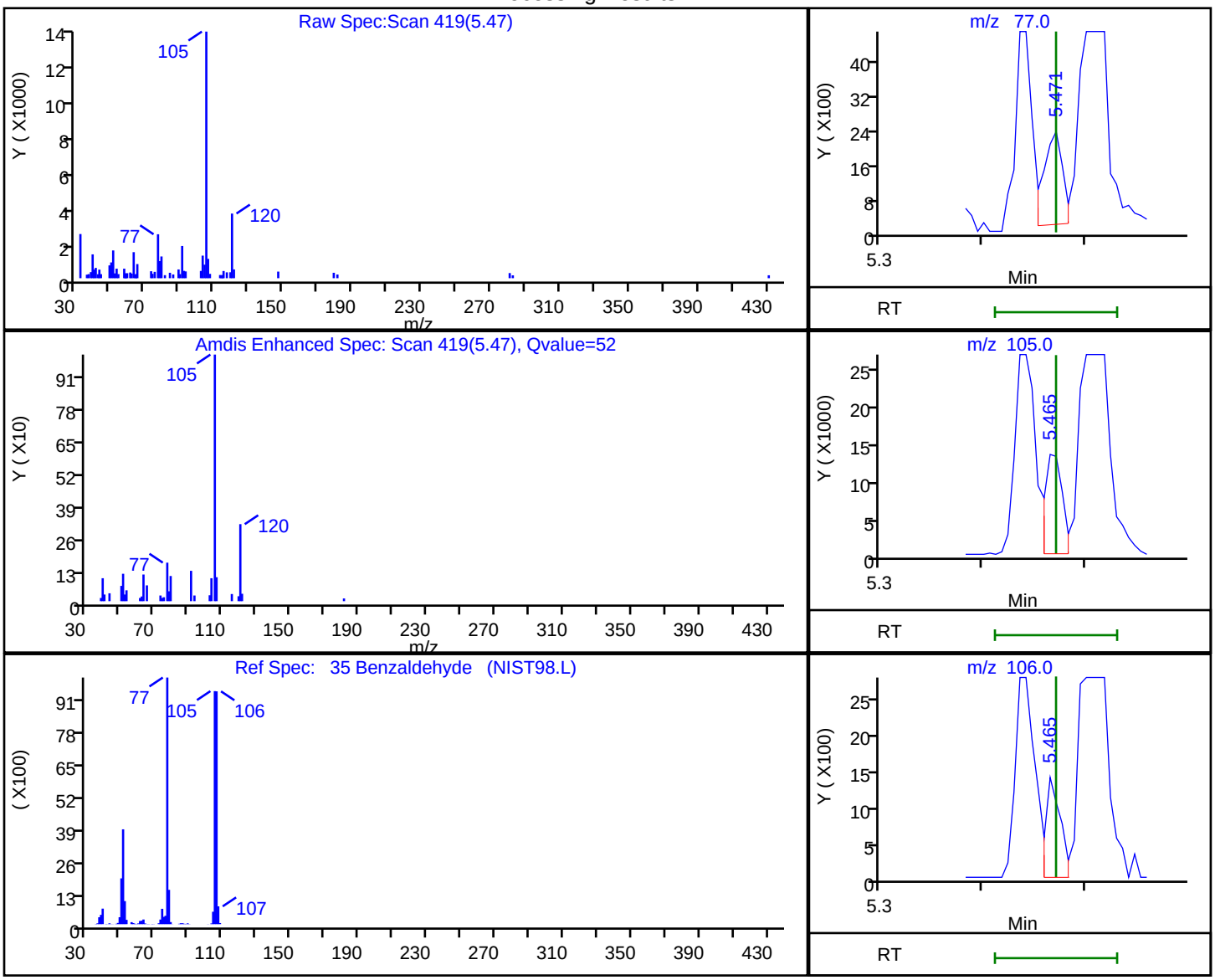
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

35 Benzaldehyde, CAS: 100-52-7

Processing Results



RT	Mass	Response	Amount
5.47	77.00	2816	-0.052538
5.47	105.00	16093	
5.47	106.00	1394	

Reviewer: IZ8L, 30-Oct-2024 15:10:17 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

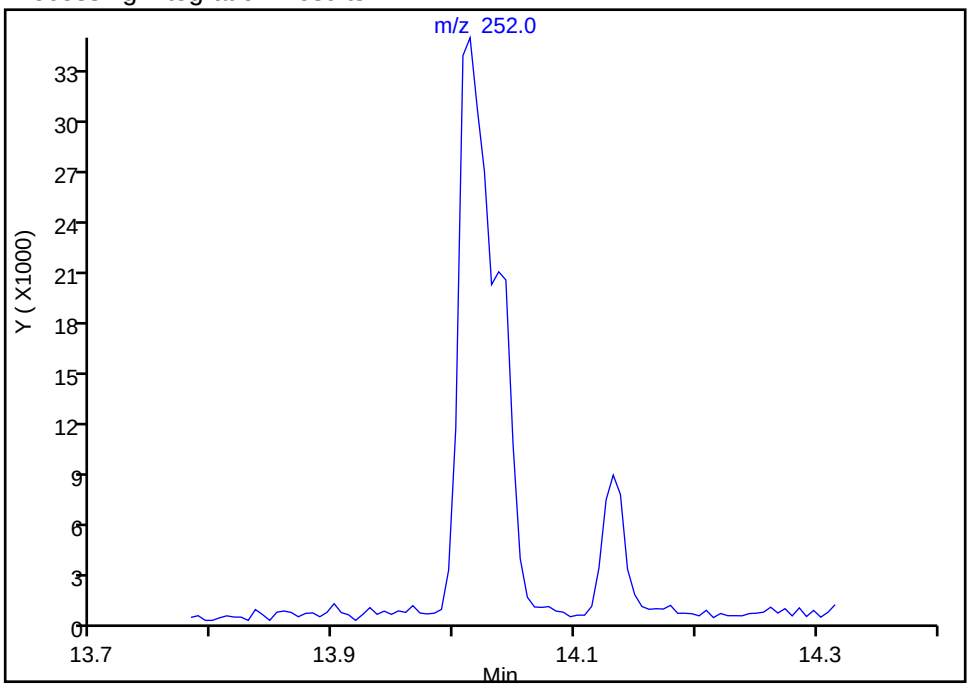
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

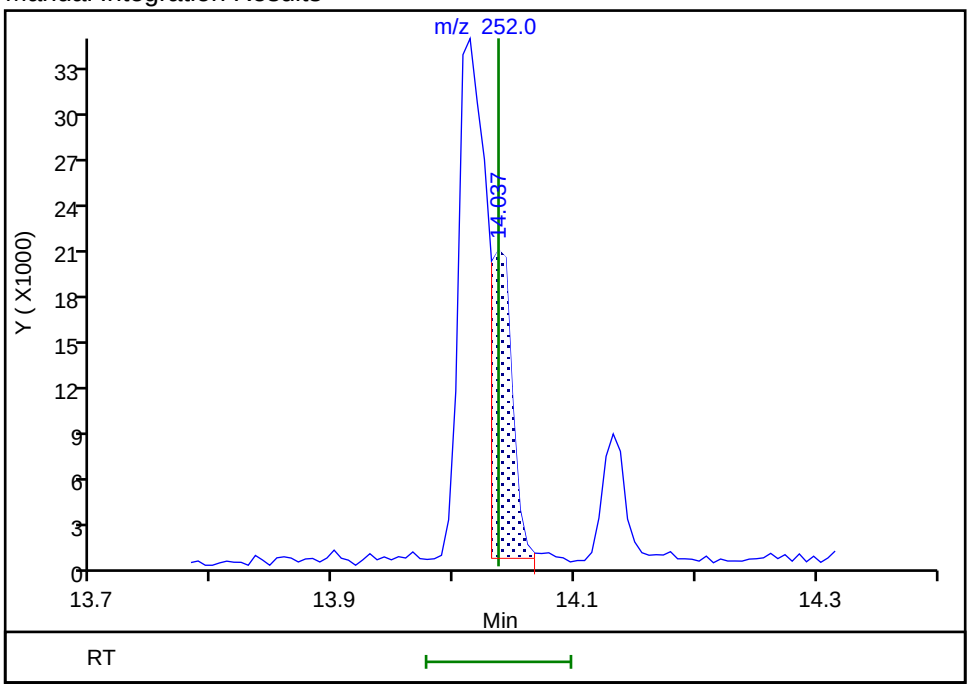
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 26498
Amount: 0.135298
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:11:53 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

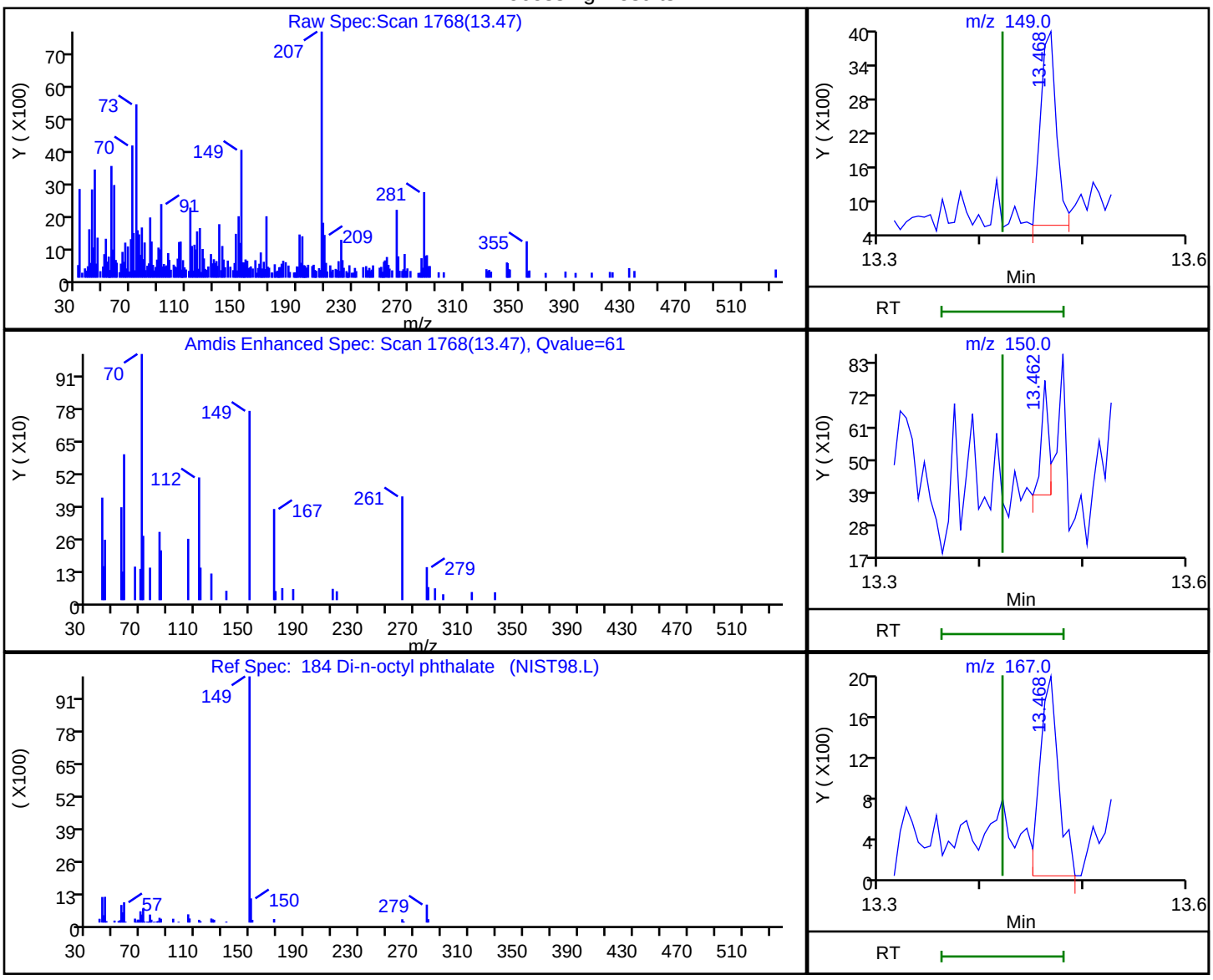
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

184 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
13.47	149.00	3643	0.097546
13.46	150.00	200	
13.47	167.00	2417	

Reviewer: IZ8L, 30-Oct-2024 15:11:43 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

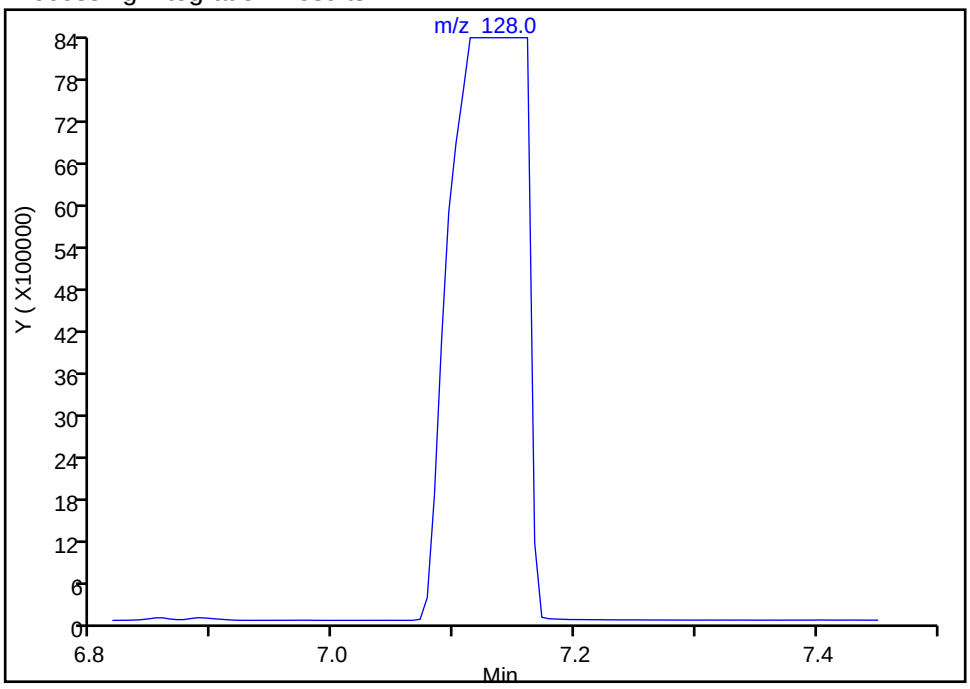
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04593.D				
Injection Date:	29-Oct-2024 21:18:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3

Signal: 1

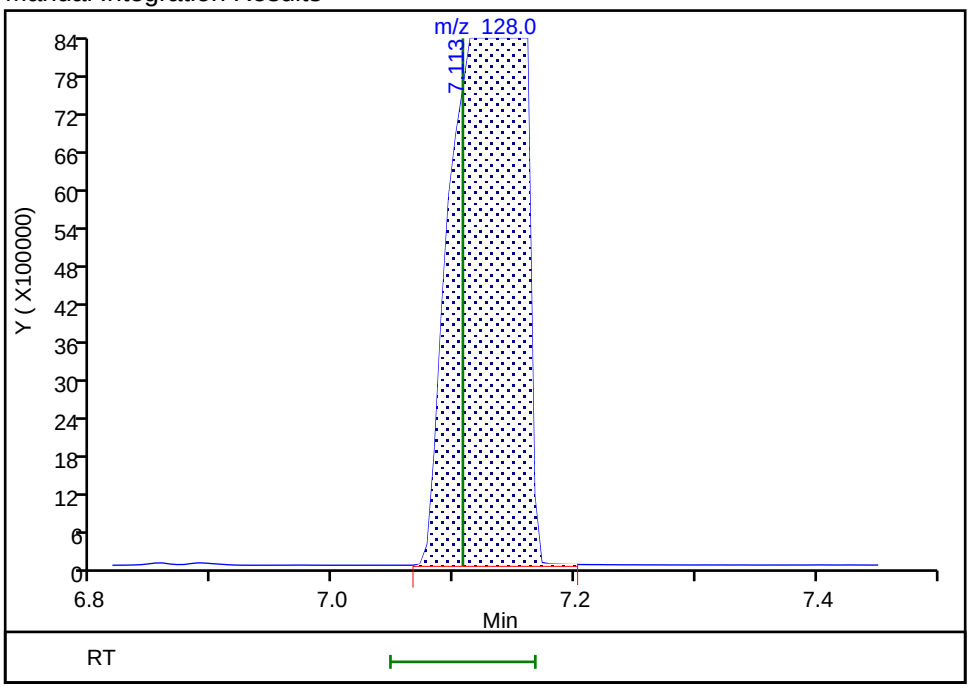
Not Detected
Expected RT: 7.11

Processing Integration Results



Manual Integration Results

RT: 7.11
Area: 36732723
Amount: 149.6229
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:10:34 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 DL | Lab Sample ID: 480-224869-10 DL

Matrix: Water | Lab File ID: Y04614.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:10

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 15:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2500	330
108-60-1	bis (2-chloroisopropyl) ether	ND		2500	260
95-95-4	2,4,5-Trichlorophenol	ND		2500	240
88-06-2	2,4,6-Trichlorophenol	ND		2500	310
120-83-2	2,4-Dichlorophenol	ND		2500	260
105-67-9	2,4-Dimethylphenol	ND		2500	250
51-28-5	2,4-Dinitrophenol	ND		5000	1100
121-14-2	2,4-Dinitrotoluene	ND		2500	220
606-20-2	2,6-Dinitrotoluene	ND		2500	200
91-58-7	2-Chloronaphthalene	ND		2500	230
95-57-8	2-Chlorophenol	ND		2500	270
91-57-6	2-Methylnaphthalene	ND		2500	300
95-48-7	2-Methylphenol	ND		2500	200
88-74-4	2-Nitroaniline	ND		5000	210
88-75-5	2-Nitrophenol	ND		2500	240
91-94-1	3,3'-Dichlorobenzidine	ND		2500	200
99-09-2	3-Nitroaniline	ND		5000	240
534-52-1	4,6-Dinitro-2-methylphenol	ND		5000	1100
101-55-3	4-Bromophenyl phenyl ether	ND		2500	230
59-50-7	4-Chloro-3-methylphenol	ND		2500	230
106-47-8	4-Chloroaniline	ND		2500	300
7005-72-3	4-Chlorophenyl phenyl ether	ND		2500	180
106-44-5	4-Methylphenol	ND		5000	180
100-01-6	4-Nitroaniline	ND		5000	130
100-02-7	4-Nitrophenol	ND	*+	5000	760
83-32-9	Acenaphthene	ND		2500	210
208-96-8	Acenaphthylene	210	J	2500	190
98-86-2	Acetophenone	ND		2500	270
120-12-7	Anthracene	ND		2500	140
1912-24-9	Atrazine	ND		2500	230
100-52-7	Benzaldehyde	ND		2500	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 DL | Lab Sample ID: 480-224869-10 DL

Matrix: Water | Lab File ID: Y04614.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:10

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 15:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		2500	180
50-32-8	Benzo(a)pyrene	ND		2500	240
205-99-2	Benzo(b)fluoranthene	ND		2500	170
191-24-2	Benzo(g,h,i)perylene	ND		2500	180
207-08-9	Benzo(k)fluoranthene	ND		2500	370
111-91-1	Bis(2-chloroethoxy)methane	ND		2500	180
111-44-4	Bis(2-chloroethyl)ether	ND		2500	200
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2500	1100
85-68-7	Butyl benzyl phthalate	ND		2500	500
105-60-2	Caprolactam	ND		2500	1100
86-74-8	Carbazole	ND		2500	150
218-01-9	Chrysene	ND		2500	170
84-74-2	Di-n-butyl phthalate	ND		2500	160
117-84-0	Di-n-octyl phthalate	ND		2500	240
53-70-3	Dibenz(a,h)anthracene	ND		2500	210
132-64-9	Dibenzofuran	ND		5000	260
84-66-2	Diethyl phthalate	ND		2500	110
131-11-3	Dimethyl phthalate	ND		2500	180
206-44-0	Fluoranthene	ND		2500	200
86-73-7	Fluorene	ND		2500	180
118-74-1	Hexachlorobenzene	ND		2500	260
87-68-3	Hexachlorobutadiene	ND		2500	340
77-47-4	Hexachlorocyclopentadiene	ND		2500	300
67-72-1	Hexachloroethane	ND		2500	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2500	240
78-59-1	Isophorone	ND		2500	220
621-64-7	N-Nitrosodi-n-propylamine	ND		2500	270
86-30-6	N-Nitrosodiphenylamine	ND		2500	260
91-20-3	Naphthalene	13000		2500	380
98-95-3	Nitrobenzene	ND		2500	150
87-86-5	Pentachlorophenol	ND		5000	1100

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-13B-10252024 DL | Lab Sample ID: 480-224869-10 DL

Matrix: Water | Lab File ID: Y04614.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:10

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 15:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 500

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	*Phenanthrene*	*ND*		*2500*	*220*
108-95-2	*Phenol*	*ND*		*2500*	*200*
129-00-0	*Pyrene*	*ND*		*2500*	*170*

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	S1-	25-144
321-60-8	2-Fluorobiphenyl	0	S1-	53-126
367-12-4	2-Fluorophenol	0	S1-	24-120
4165-60-0	Nitrobenzene-d5	0	S1-	29-129
1718-51-0	p-Terphenyl-d14	0	S1-	33-132
4165-62-2	Phenol-d5	0	S1-	10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04614.D
Lims ID: 480-224869-A-10-A
Client ID: MW-BCP-13B-10252024
Sample Type: Client
Inject. Date: 30-Oct-2024 15:46:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 2.0 ul Dil. Factor: 500.0000
Sample Info: 480-0120914-015
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:06:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.883	0.003	96	152688	4.00	
* 2 Naphthalene-d8	136	7.089	7.086	0.003	99	569595	4.00	
* 3 Acenaphthene-d10	164	8.648	8.651	-0.003	94	325934	4.00	
* 4 Phenanthrene-d10	188	9.923	9.926	-0.003	97	499406	4.00	
* 5 Chrysene-d12	240	12.774	12.777	-0.003	99	442099	4.00	
* 6 Perylene-d12	264	14.463	14.460	0.003	98	508795	4.00	
$ 7 2-Fluorophenol	112		4.638				ND	
$ 8 Phenol-d5	99		5.521				ND	
$ 9 Nitrobenzene-d5	82		6.410				ND	
$ 10 2-Fluorobiphenyl	172		8.035				ND	
$ 11 2,4,6-Tribromophenol	330		9.327				ND	
$ 12 p-Terphenyl-d14	244		11.485				ND	
35 Benzaldehyde	77		5.474				ND	
37 Phenol	94		5.533				ND	
39 Bis(2-chloroethyl)ether	93		5.604				ND	
40 2-Chlorophenol	128		5.699				ND	
48 2-Methylphenol	108		6.108				ND	
49 2,2'-oxybis[1-chloropropane]	45		6.120				ND	
53 N-Nitrosodi-n-propylamine	70		6.244				ND	
57 4-Methylphenol	108		6.256				ND	
52 Acetophenone	105		6.262				ND	
58 Hexachloroethane	117		6.375				ND	
59 Nitrobenzene	77		6.434				ND	
62 Isophorone	82		6.647				ND	
64 2-Nitrophenol	139		6.730				ND	
66 2,4-Dimethylphenol	107		6.748				ND	
69 Bis(2-chloroethoxy)methane	93		6.819				ND	
72 2,4-Dichlorophenol	162		6.962				ND	
74 Naphthalene	128	7.107	7.110	-0.003	98	996479	6.62	
76 4-Chloroaniline	127		7.145				ND	
79 Hexachlorobutadiene	225		7.205				ND	
84 Caprolactam	113		7.466				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.578				ND	
87 2-Methylnaphthalene	142	7.729	7.726	0.003	95	3998	0.0431	
90 Hexachlorocyclopentadiene	237		7.869				ND	
93 2,4,6-Trichlorophenol	196		7.981				ND	
94 2,4,5-Trichlorophenol	196		8.023				ND	
96 1,1'-Biphenyl	154	8.133	8.129	0.004	95	3509	0.0293	
97 2-Chloronaphthalene	162		8.165				ND	
100 2-Nitroaniline	65		8.248				ND	
105 Dimethyl phthalate	163		8.372				ND	
107 2,6-Dinitrotoluene	165		8.438				ND	
108 Acenaphthylene	152	8.530	8.533	-0.002	98	15407	0.1067	
109 3-Nitroaniline	138		8.598				ND	
110 Acenaphthene	153		8.681				ND	
111 2,4-Dinitrophenol	184		8.693				ND	
112 4-Nitrophenol	109		8.752				ND	
114 2,4-Dinitrotoluene	165		8.799				ND	
115 Dibenzofuran	168	8.826	8.823	0.003	94	7407	0.0567	
120 Diethyl phthalate	149		8.965				ND	
123 4-Chlorophenyl phenyl ether	204		9.090				ND	
124 Fluorene	166	9.122	9.119	0.003	94	7184	0.0783	
126 4-Nitroaniline	138		9.131				ND	
127 4,6-Dinitro-2-methylphenol	198		9.155				ND	
130 N-Nitrosodiphenylamine	169		9.190				ND	
139 4-Bromophenyl phenyl ether	248		9.511				ND	
140 Hexachlorobenzene	284		9.605				ND	
143 Atrazine	200		9.617				ND	
145 Pentachlorophenol	266		9.765				ND	
151 Phenanthrene	178	9.946	9.943	0.003	95	12410	0.0899	
152 Anthracene	178		9.991				ND	
153 Carbazole	167	10.130	10.121	0.009	95	5998	0.0489	
157 Di-n-butyl phthalate	149		10.358				ND	
164 Fluoranthene	202	11.114	11.111	0.003	63	3765	0.0257	
167 Pyrene	202	11.375	11.372	0.003	73	2291	0.0155	
174 Butyl benzyl phthalate	149		12.006				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.664				ND	
179 3,3'-Dichlorobenzidine	252		12.700				ND	
180 Benzo[a]anthracene	228		12.765				ND	
182 Chrysene	228		12.806				ND	
184 Di-n-octyl phthalate	149		13.417				ND	
186 Benzo[b]fluoranthene	252		14.010				ND	
187 Benzo[k]fluoranthene	252		14.039				ND	
189 Benzo[a]pyrene	252		14.395				ND	
194 Dibenz(a,h)anthracene	278		15.936				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.948				ND	
195 Benzo[g,h,i]perylene	276		16.393				ND	

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

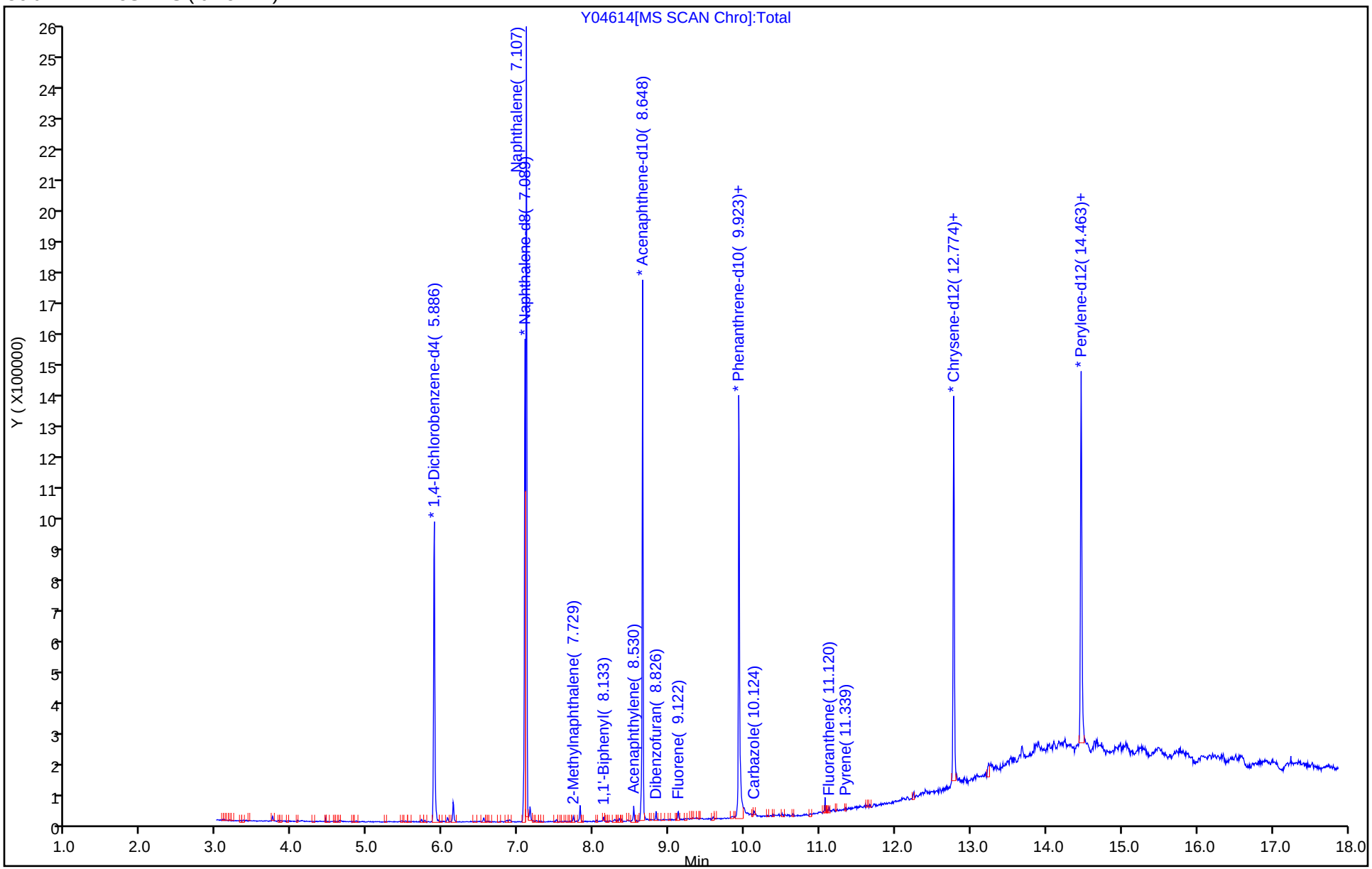
Report Date: 30-Oct-2024 16:07:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04614.D

Injection Date:	30-Oct-2024 15:46:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10	Worklist Smp#:	15
Client ID:	MW-BCP-13B-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	500.0000	ALS Bottle#:	15
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



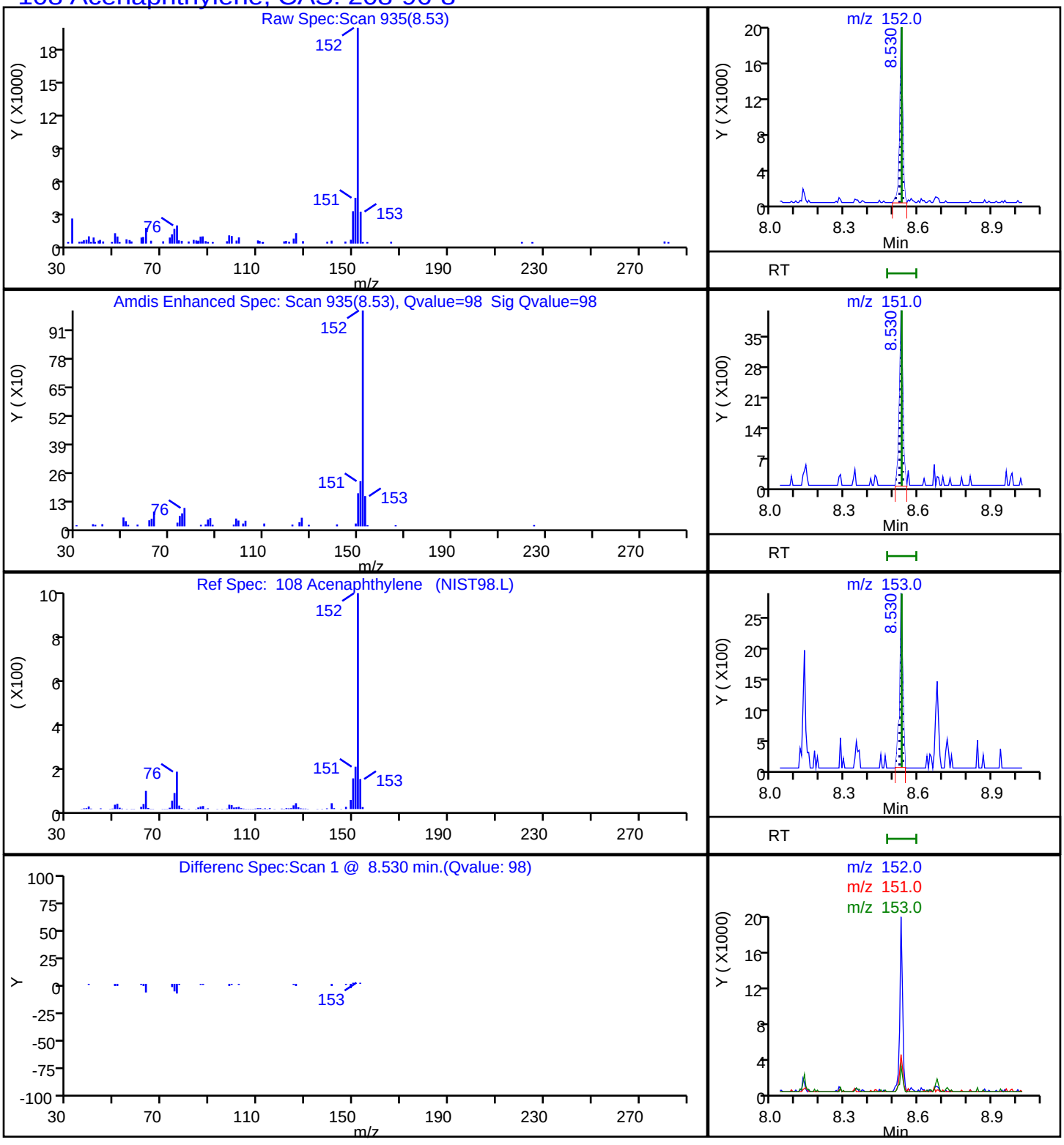
Report Date: 30-Oct-2024 16:07:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04614.D

Injection Date:	30-Oct-2024 15:46:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

108 Acenaphthylene, CAS: 208-96-8



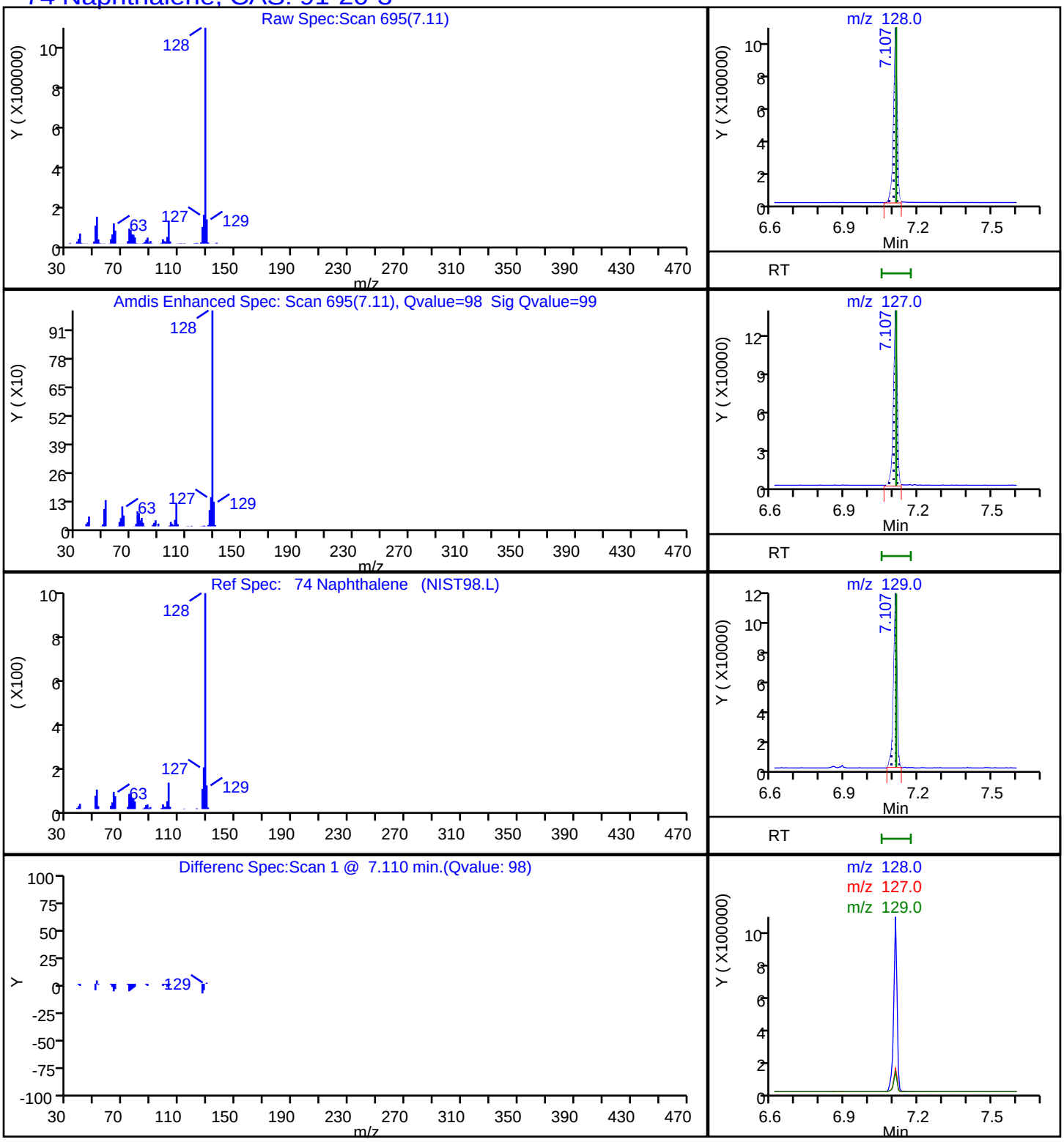
Report Date: 30-Oct-2024 16:07:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04614.D

Injection Date:	30-Oct-2024 15:46:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-10-A	Lab Sample ID:	480-224869-10		
Client ID:	MW-BCP-13B-10252024				
Operator ID:	JM	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	2.0 ul	Dil. Factor:	500.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-24A-10252024 | Lab Sample ID: 480-224869-11

Matrix: Water | Lab File ID: Y04594.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:35

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 21:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	0.86	J	5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	1.5	J	10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND	*+	10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-24A-10252024 | Lab Sample ID: 480-224869-11

Matrix: Water | Lab File ID: Y04594.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:35

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 21:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		5.0	0.36
50-32-8	Benzo(a)pyrene	ND		5.0	0.47
205-99-2	Benzo(b)fluoranthene	ND		5.0	0.34
191-24-2	Benzo(g,h,i)perylene	ND		5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	3.8	J	5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-24A-10252024 | Lab Sample ID: 480-224869-11

Matrix: Water | Lab File ID: Y04594.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:35

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 21:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	0.49	J	5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	86		25-144
321-60-8	2-Fluorobiphenyl	94		53-126
367-12-4	2-Fluorophenol	73		24-120
4165-60-0	Nitrobenzene-d5	104		29-129
1718-51-0	p-Terphenyl-d14	83		33-132
4165-62-2	Phenol-d5	55		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D
Lims ID: 480-224869-A-11-A
Client ID: MW-BCP-24A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 21:45:30 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-025
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:12:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.885	5.886	-0.001	95	164815	4.00	
* 2 Naphthalene-d8	136	7.089	7.089	0.000	99	611843	4.00	
* 3 Acenaphthene-d10	164	8.648	8.648	0.000	95	343501	4.00	
* 4 Phenanthrene-d10	188	9.922	9.929	-0.007	97	608481	4.00	
* 5 Chrysene-d12	240	12.773	12.774	-0.001	98	488725	4.00	
* 6 Perylene-d12	264	14.463	14.463	0.000	97	564966	4.00	
$ 7 2-Fluorophenol	112	4.670	4.644	0.029	93	294610	5.80	
$ 8 Phenol-d5	99	5.530	5.527	0.006	87	277460	4.42	
$ 9 Nitrobenzene-d5	82	6.413	6.410	-0.001	96	491890	8.35	
$ 10 2-Fluorobiphenyl	172	8.037	8.040	-0.001	99	885237	7.50	
$ 11 2,4,6-Tribromophenol	330	9.329	9.327	-0.001	83	104566	6.92	
$ 12 p-Terphenyl-d14	244	11.481	11.484	-0.001	97	877963	6.63	
35 Benzaldehyde	77		5.471				ND	
37 Phenol	94	5.542	5.538	0.006	90	7848	0.1230	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108	6.117	6.111	0.006	95	10354	0.2140	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.259	6.314	0.005	85	18332	0.3645	
52 Acetophenone	105		6.265				ND	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107	6.751	6.751	0.000	91	6152	0.1155	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.107	7.113	0.000	98	154441	0.9554	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113		7.463				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142	7.729	7.726	-0.001	94	2860	0.0287	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154		8.133				ND	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152		8.530				ND	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153		8.678				ND	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	
115 Dibenzofuran	168	8.826	8.829	0.000	94	1977	0.0143	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166		9.123				ND	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.946	9.946	-0.001	93	6482	0.0385	
152 Anthracene	178	9.987	10.001	-0.001	90	2688	0.0160	
153 Carbazole	167		10.118				ND	
157 Di-n-butyl phthalate	149	10.355	10.352	-0.001	97	4343	0.0226	
164 Fluoranthene	202	11.114	11.104	0.006	97	8008	0.0448	
167 Pyrene	202	11.369	11.366	0.000	96	6869	0.0420	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228	12.762	12.764	0.000	56	5676	0.0339	
182 Chrysene	228	12.809	12.809	-0.001	1	4510	0.0295	a
184 Di-n-octyl phthalate	149		13.420				ND	
186 Benzo[b]fluoranthene	252	14.018	14.019	0.011	96	4673	0.0450	M
187 Benzo[k]fluoranthene	252	14.030	14.037	-0.007	1	3062	0.0169	Ma
189 Benzo[a]pyrene	252	14.409	14.401	0.011	72	3908	0.0467	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.945				ND	
195 Benzo[g,h,i]perylene	276		16.396				ND	

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

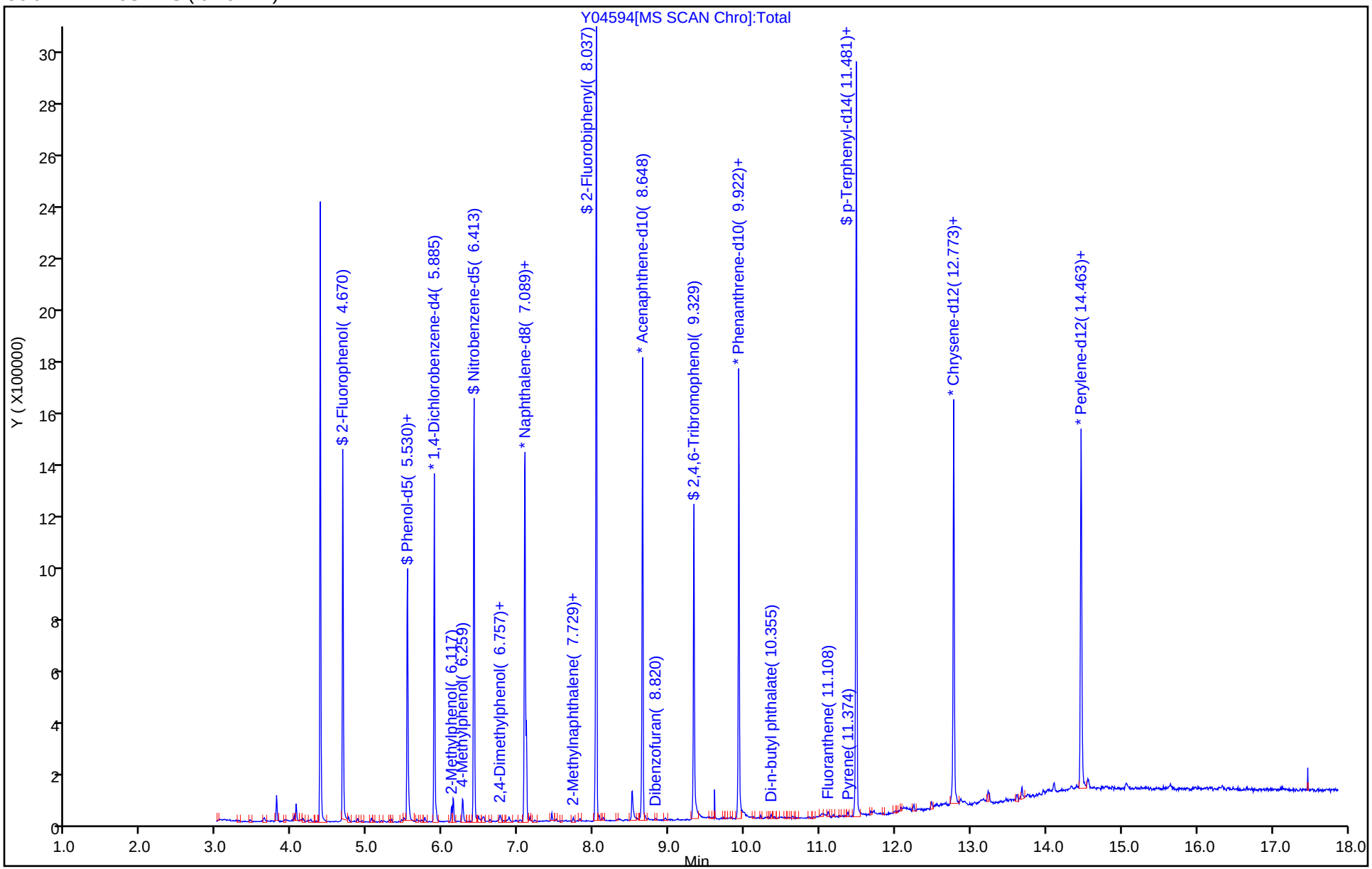
Report Date: 30-Oct-2024 15:17:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D

Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11	Worklist Smp#:	25
Client ID:	MW-BCP-24A-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D
Lims ID: 480-224869-A-11-A
Client ID: MW-BCP-24A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 21:45:30 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-025
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:12:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.80	72.52
$ 8 Phenol-d5	8.00	4.42	55.28
$ 9 Nitrobenzene-d5	8.00	8.35	104.37
$ 10 2-Fluorobiphenyl	8.00	7.50	93.72
$ 11 2,4,6-Tribromophenol	8.00	6.92	86.44
$ 12 p-Terphenyl-d14	8.00	6.63	82.84

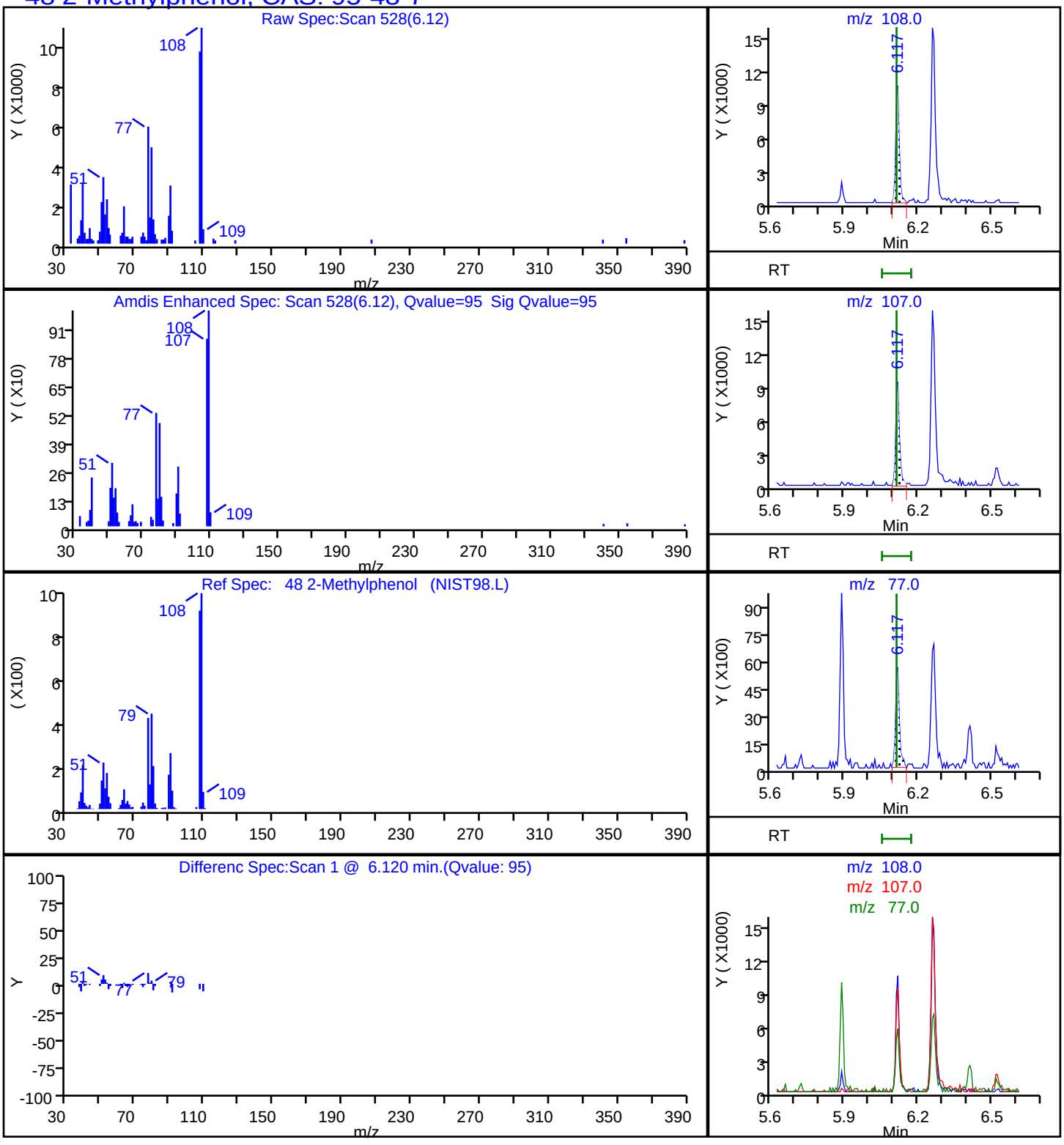
Report Date: 30-Oct-2024 15:17:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D

Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	JM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

48 2-Methylphenol, CAS: 95-48-7

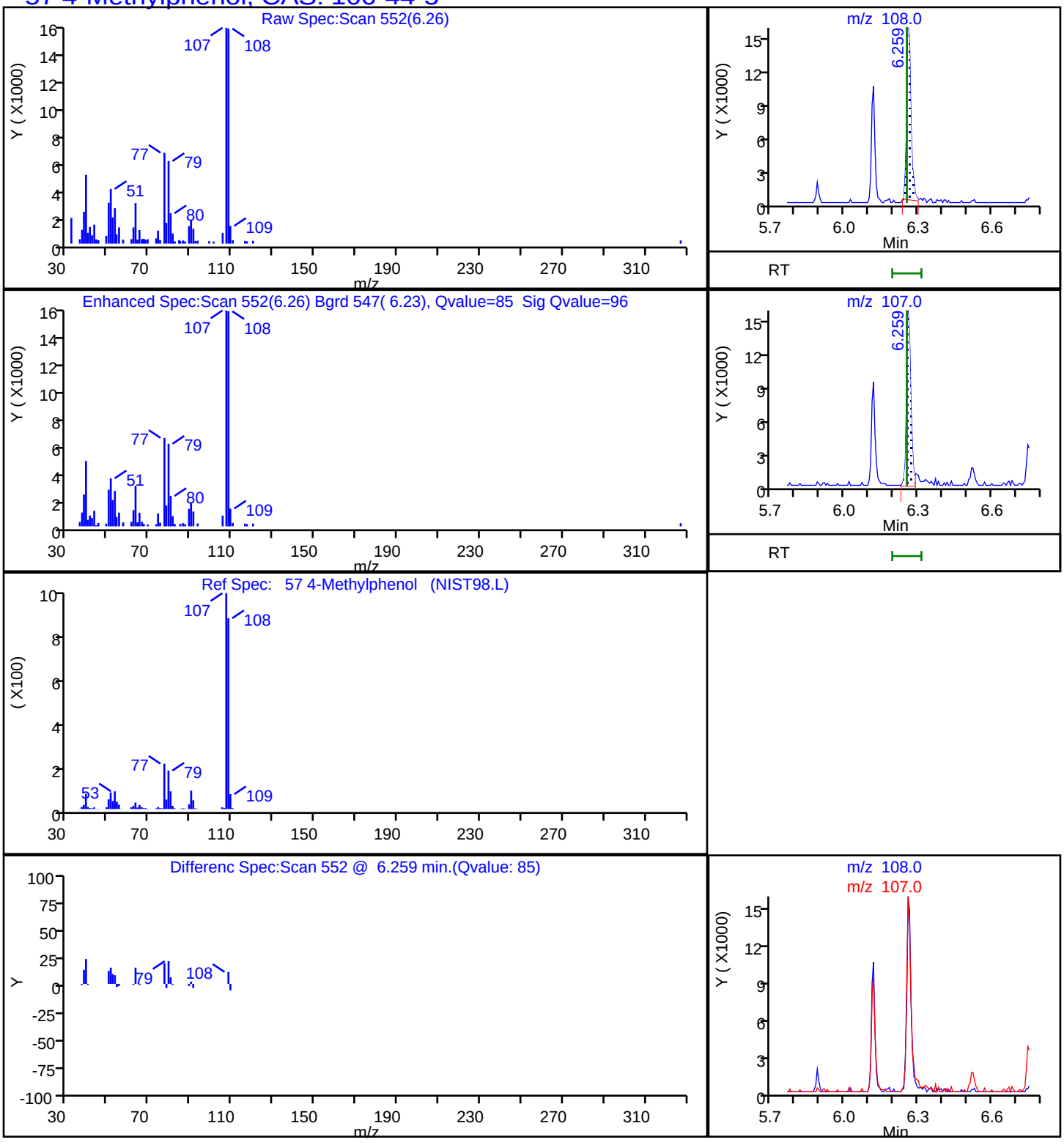


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D

Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11
Client ID:	MW-BCP-24A-10252024		
Operator ID:	JM	ALS Bottle#:	25 Worklist Smp#: 25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

57 4-Methylphenol, CAS: 106-44-5



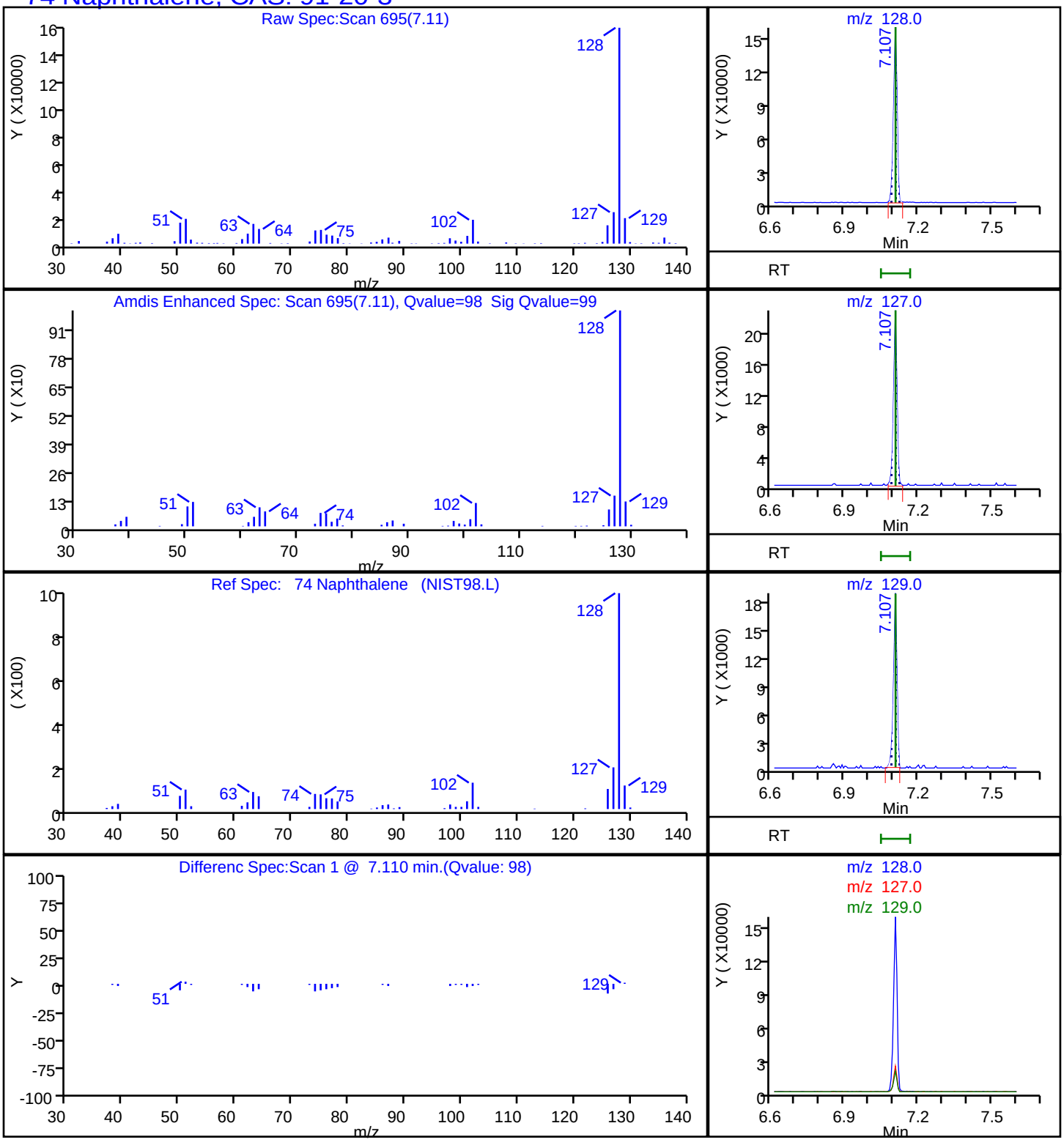
Report Date: 30-Oct-2024 15:17:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D

Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	JM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3

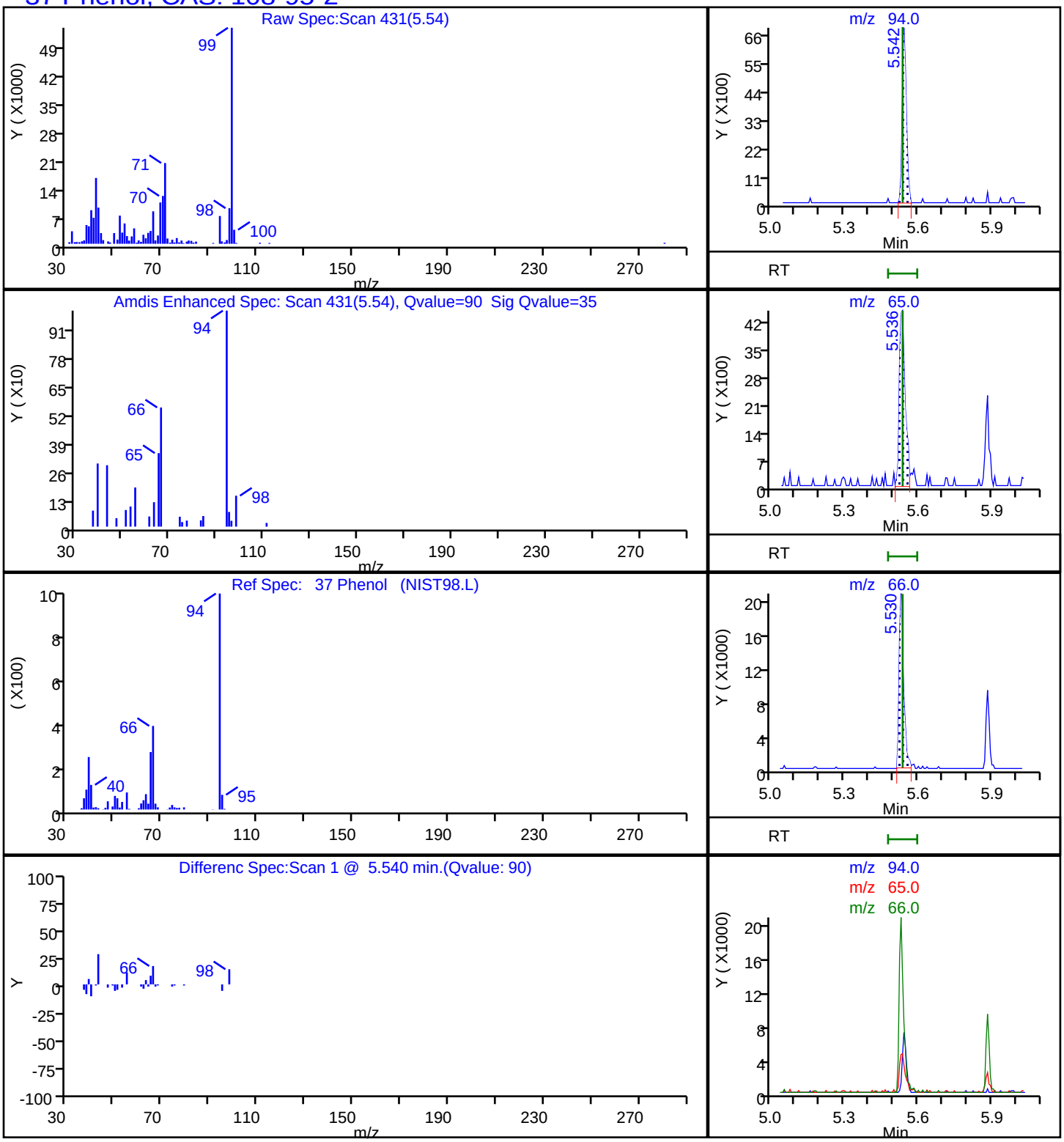


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D

Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11
Client ID:	MW-BCP-24A-10252024		
Operator ID:	JM	ALS Bottle#:	25 Worklist Smp#: 25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

37 Phenol, CAS: 108-95-2



Manual Integration/User Assign Peak Report

Eurofins Buffalo

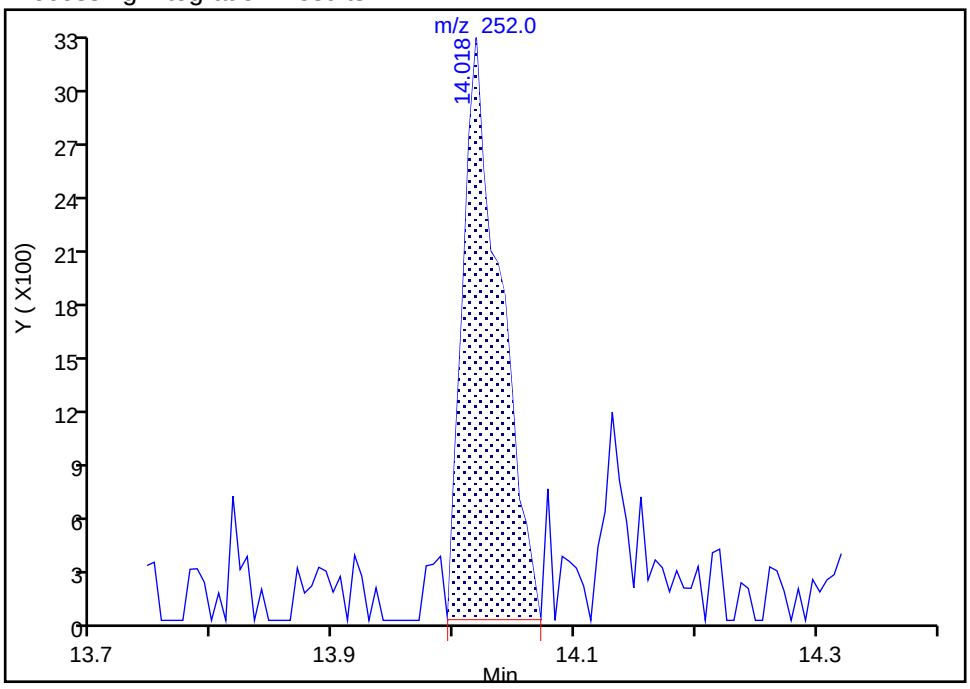
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D				
Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	JM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

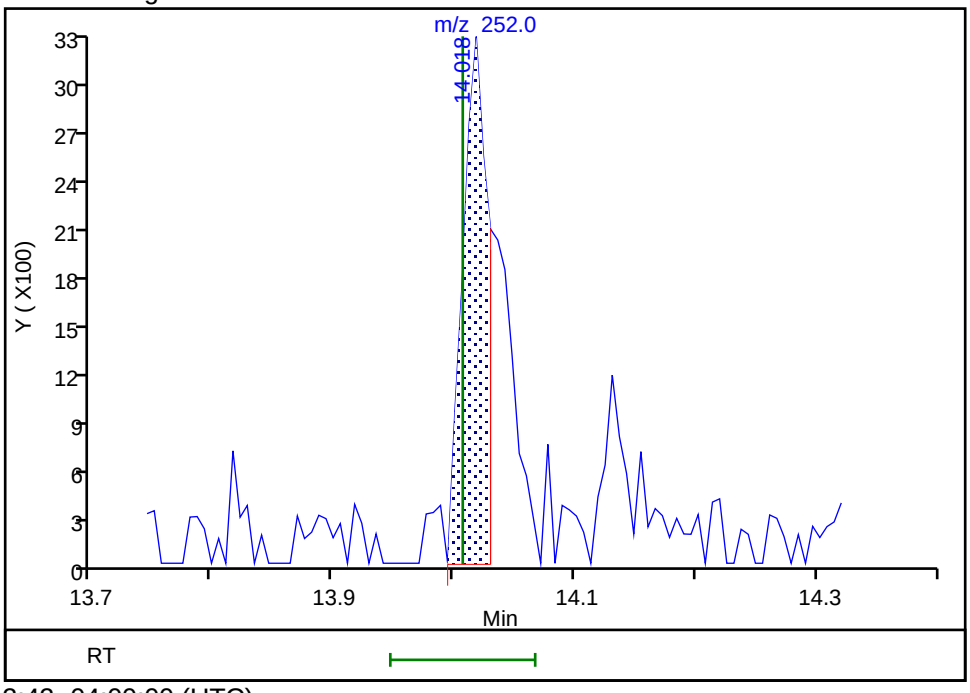
Processing Integration Results

RT: 14.02
Area: 7005
Amount: 0.057865
Amount Units: ng/uL



Manual Integration Results

RT: 14.02
Area: 4673
Amount: 0.044978
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:12:42 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

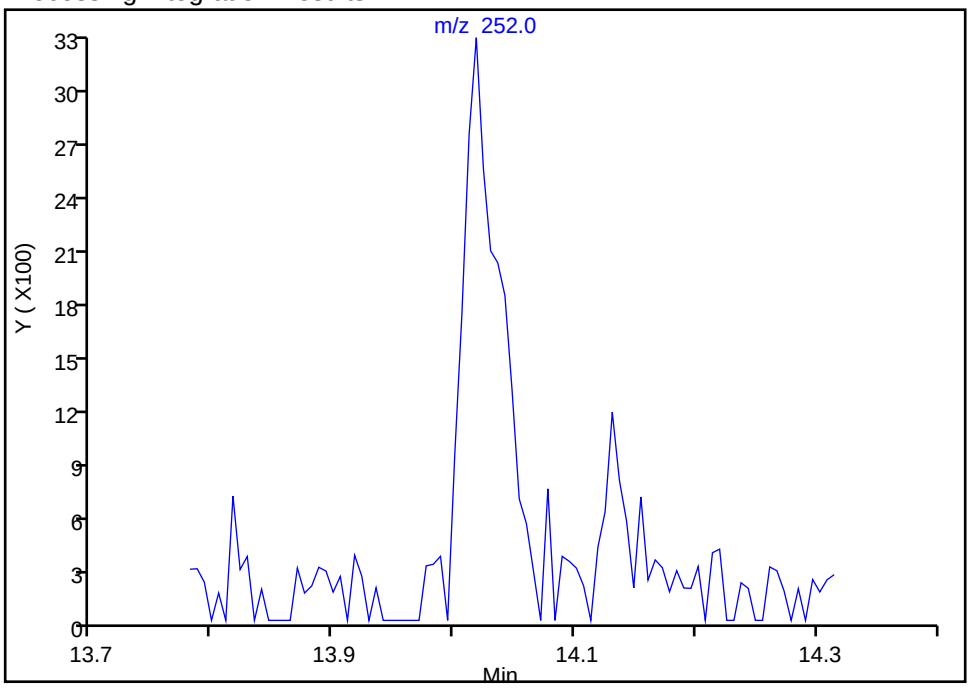
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D				
Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	JM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

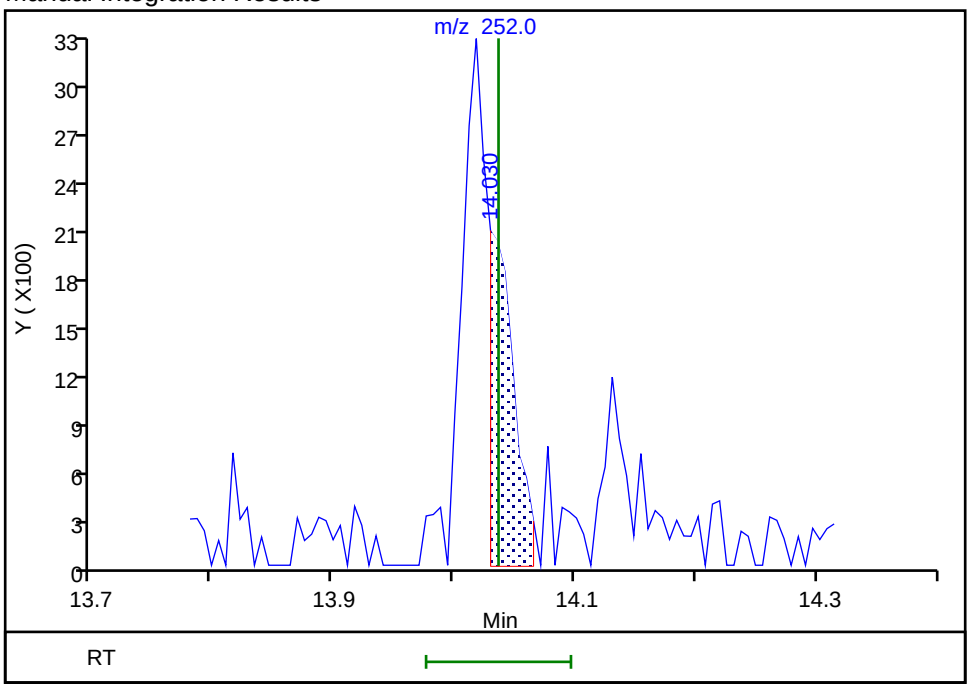
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.03
Area: 3062
Amount: 0.016903
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:12:49 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

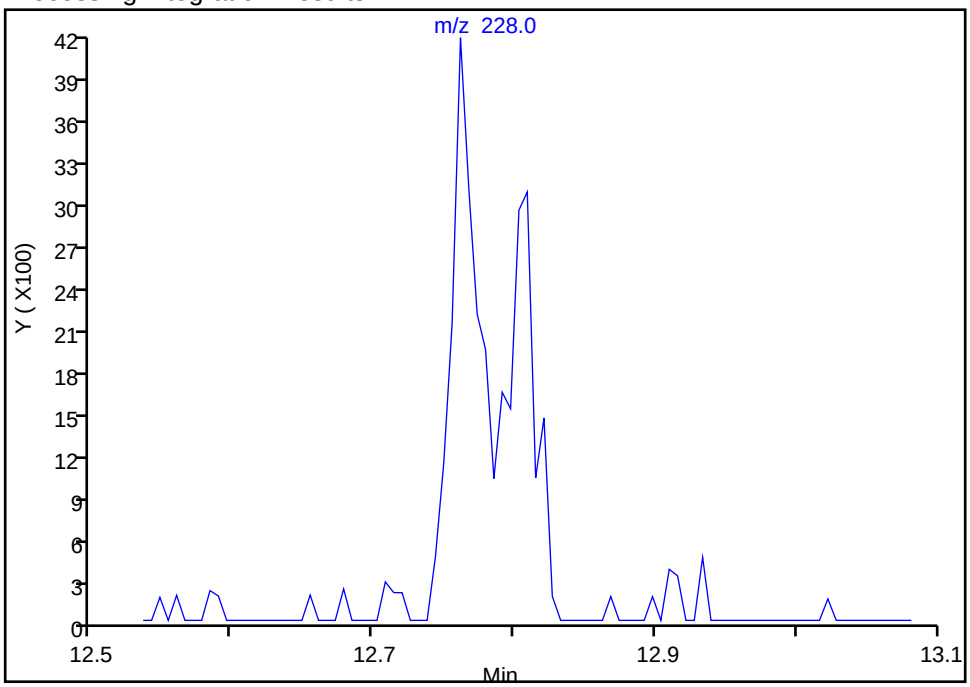
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04594.D				
Injection Date:	29-Oct-2024 21:45:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-11-A	Lab Sample ID:	480-224869-11		
Client ID:	MW-BCP-24A-10252024				
Operator ID:	JM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

182 Chrysene, CAS: 218-01-9

Signal: 1

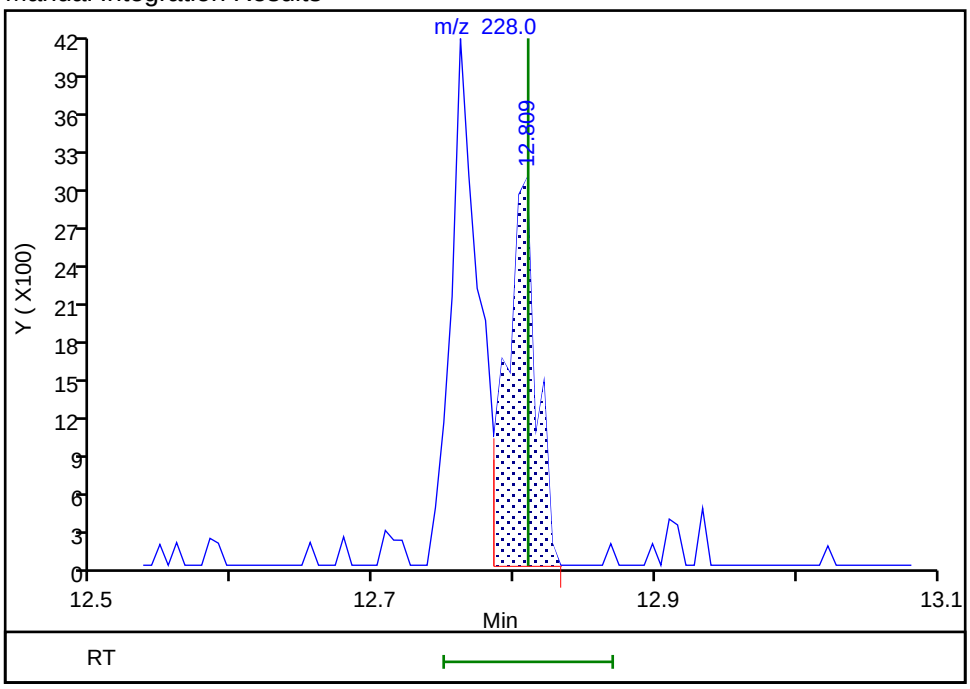
Not Detected
Expected RT: 12.81

Processing Integration Results



Manual Integration Results

RT: 12.81
Area: 4510
Amount: 0.029496
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:12:35 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-25A-10252024 | Lab Sample ID: 480-224869-12

Matrix: Water | Lab File ID: Y04595.D

Analysis Method: 8270D | Date Collected: 10/25/2024 02:05

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 22:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.2	0.68
108-60-1	bis (2-chloroisopropyl) ether	ND		5.2	0.54
95-95-4	2,4,5-Trichlorophenol	ND		5.2	0.50
88-06-2	2,4,6-Trichlorophenol	ND		5.2	0.64
120-83-2	2,4-Dichlorophenol	ND		5.2	0.53
105-67-9	2,4-Dimethylphenol	ND		5.2	0.52
51-28-5	2,4-Dinitrophenol	ND		10	2.3
121-14-2	2,4-Dinitrotoluene	ND		5.2	0.47
606-20-2	2,6-Dinitrotoluene	ND		5.2	0.42
91-58-7	2-Chloronaphthalene	ND		5.2	0.48
95-57-8	2-Chlorophenol	ND		5.2	0.55
91-57-6	2-Methylnaphthalene	ND		5.2	0.63
95-48-7	2-Methylphenol	0.42	J	5.2	0.42
88-74-4	2-Nitroaniline	ND		10	0.44
88-75-5	2-Nitrophenol	ND		5.2	0.50
91-94-1	3,3'-Dichlorobenzidine	ND		5.2	0.42
99-09-2	3-Nitroaniline	ND		10	0.50
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.3
101-55-3	4-Bromophenyl phenyl ether	ND		5.2	0.47
59-50-7	4-Chloro-3-methylphenol	ND		5.2	0.47
106-47-8	4-Chloroaniline	ND		5.2	0.61
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.2	0.36
106-44-5	4-Methylphenol	0.61	J	10	0.38
100-01-6	4-Nitroaniline	ND		10	0.26
100-02-7	4-Nitrophenol	ND	*+	10	1.6
83-32-9	Acenaphthene	ND		5.2	0.43
208-96-8	Acenaphthylene	ND		5.2	0.40
98-86-2	Acetophenone	ND		5.2	0.56
120-12-7	Anthracene	ND		5.2	0.29
1912-24-9	Atrazine	ND		5.2	0.48
100-52-7	Benzaldehyde	ND		5.2	0.28

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-25A-10252024 | Lab Sample ID: 480-224869-12

Matrix: Water | Lab File ID: Y04595.D

Analysis Method: 8270D | Date Collected: 10/25/2024 02:05

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 22:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		5.2	0.38
50-32-8	Benzo(a)pyrene	ND		5.2	0.49
205-99-2	Benzo(b)fluoranthene	0.35	J	5.2	0.35
191-24-2	Benzo(g,h,i)perylene	ND		5.2	0.36
207-08-9	Benzo(k)fluoranthene	ND		5.2	0.76
111-91-1	Bis(2-chloroethoxy)methane	ND		5.2	0.36
111-44-4	Bis(2-chloroethyl)ether	ND		5.2	0.42
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.2	2.3
85-68-7	Butyl benzyl phthalate	ND		5.2	1.0
105-60-2	Caprolactam	ND		5.2	2.3
86-74-8	Carbazole	ND		5.2	0.31
218-01-9	Chrysene	ND		5.2	0.34
84-74-2	Di-n-butyl phthalate	ND		5.2	0.32
117-84-0	Di-n-octyl phthalate	ND		5.2	0.49
53-70-3	Dibenz(a,h)anthracene	ND		5.2	0.44
132-64-9	Dibenzofuran	ND		10	0.53
84-66-2	Diethyl phthalate	ND		5.2	0.23
131-11-3	Dimethyl phthalate	ND		5.2	0.38
206-44-0	Fluoranthene	ND		5.2	0.42
86-73-7	Fluorene	ND		5.2	0.38
118-74-1	Hexachlorobenzene	ND		5.2	0.53
87-68-3	Hexachlorobutadiene	ND		5.2	0.71
77-47-4	Hexachlorocyclopentadiene	ND		5.2	0.61
67-72-1	Hexachloroethane	ND		5.2	0.61
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.2	0.49
78-59-1	Isophorone	ND		5.2	0.45
621-64-7	N-Nitrosodi-n-propylamine	ND		5.2	0.56
86-30-6	N-Nitrosodiphenylamine	ND		5.2	0.53
91-20-3	Naphthalene	1.9	J	5.2	0.79
98-95-3	Nitrobenzene	ND		5.2	0.30
87-86-5	Pentachlorophenol	ND		10	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-25A-10252024 | Lab Sample ID: 480-224869-12

Matrix: Water | Lab File ID: Y04595.D

Analysis Method: 8270D | Date Collected: 10/25/2024 02:05

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 22:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		5.2	0.46
108-95-2	Phenol	ND		5.2	0.41
129-00-0	Pyrene	ND		5.2	0.35

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	84		25-144
321-60-8	2-Fluorobiphenyl	86		53-126
367-12-4	2-Fluorophenol	70		24-120
4165-60-0	Nitrobenzene-d5	95		29-129
1718-51-0	p-Terphenyl-d14	69		33-132
4165-62-2	Phenol-d5	53		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D
Lims ID: 480-224869-A-12-A
Client ID: MW-BCP-25A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 22:13:30 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-026
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:13:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.887	5.886	0.001	96	162551	4.00	
* 2 Naphthalene-d8	136	7.084	7.089	-0.005	99	611626	4.00	
* 3 Acenaphthene-d10	164	8.649	8.648	0.001	95	342410	4.00	
* 4 Phenanthrene-d10	188	9.923	9.929	-0.006	97	598636	4.00	
* 5 Chrysene-d12	240	12.775	12.774	0.001	99	496149	4.00	
* 6 Perylene-d12	264	14.464	14.463	0.001	97	566199	4.00	
$ 7 2-Fluorophenol	112	4.671	4.644	0.030	92	279921	5.59	
$ 8 Phenol-d5	99	5.531	5.527	0.007	88	263494	4.26	
$ 9 Nitrobenzene-d5	82	6.414	6.410	0.000	96	447882	7.61	
$ 10 2-Fluorobiphenyl	172	8.038	8.040	0.000	99	810278	6.88	
$ 11 2,4,6-Tribromophenol	330	9.331	9.327	0.001	81	99432	6.69	
$ 12 p-Terphenyl-d14	244	11.482	11.484	0.000	97	744313	5.53	
35 Benzaldehyde	77		5.471				ND	
37 Phenol	94	5.543	5.538	0.007	51	4542	0.0722	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108	6.118	6.111	0.007	87	4848	0.1016	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.266	6.314	0.012	81	7320	0.1476	
52 Acetophenone	105	6.266	6.268	0.001	68	2378	0.0344	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107	6.752	6.751	0.001	86	2830	0.0531	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.108	7.113	0.001	97	75411	0.4667	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113	7.451	7.462	-0.012	69	2787	0.2420	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142	7.730	7.726	0.000	64	1711	0.0172	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154		8.133				ND	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152	8.530	8.532	0.000	89	3609	0.0238	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153		8.678				ND	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	
115 Dibenzofuran	168		8.826				ND	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166	9.117	9.125	-0.006	51	2455	0.0344	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.947	9.946	0.000	74	8723	0.0527	
152 Anthracene	178	9.989	10.001	0.001	84	7696	0.0465	
153 Carbazole	167		10.118				ND	
157 Di-n-butyl phthalate	149	10.356	10.352	0.000	95	6589	0.0348	
164 Fluoranthene	202	11.109	11.104	0.001	96	15463	0.0880	
167 Pyrene	202	11.370	11.366	0.001	96	13150	0.0791	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149	12.668	12.670	0.001	60	7334	0.1532	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228		12.762				ND	
182 Chrysene	228		12.810				ND	
184 Di-n-octyl phthalate	149		13.420				ND	
186 Benzo[b]fluoranthene	252	14.013	14.019	0.006	95	11696	0.0836	
187 Benzo[k]fluoranthene	252	14.043	14.037	0.006	89	5391	0.0297	Ma
189 Benzo[a]pyrene	252	14.399	14.401	0.001	51	9675	0.0823	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276	15.964	15.942	0.019	97	6888	0.0545	
195 Benzo[g,h,i]perylene	276	16.408	16.417	0.012	94	6336	0.0571	

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

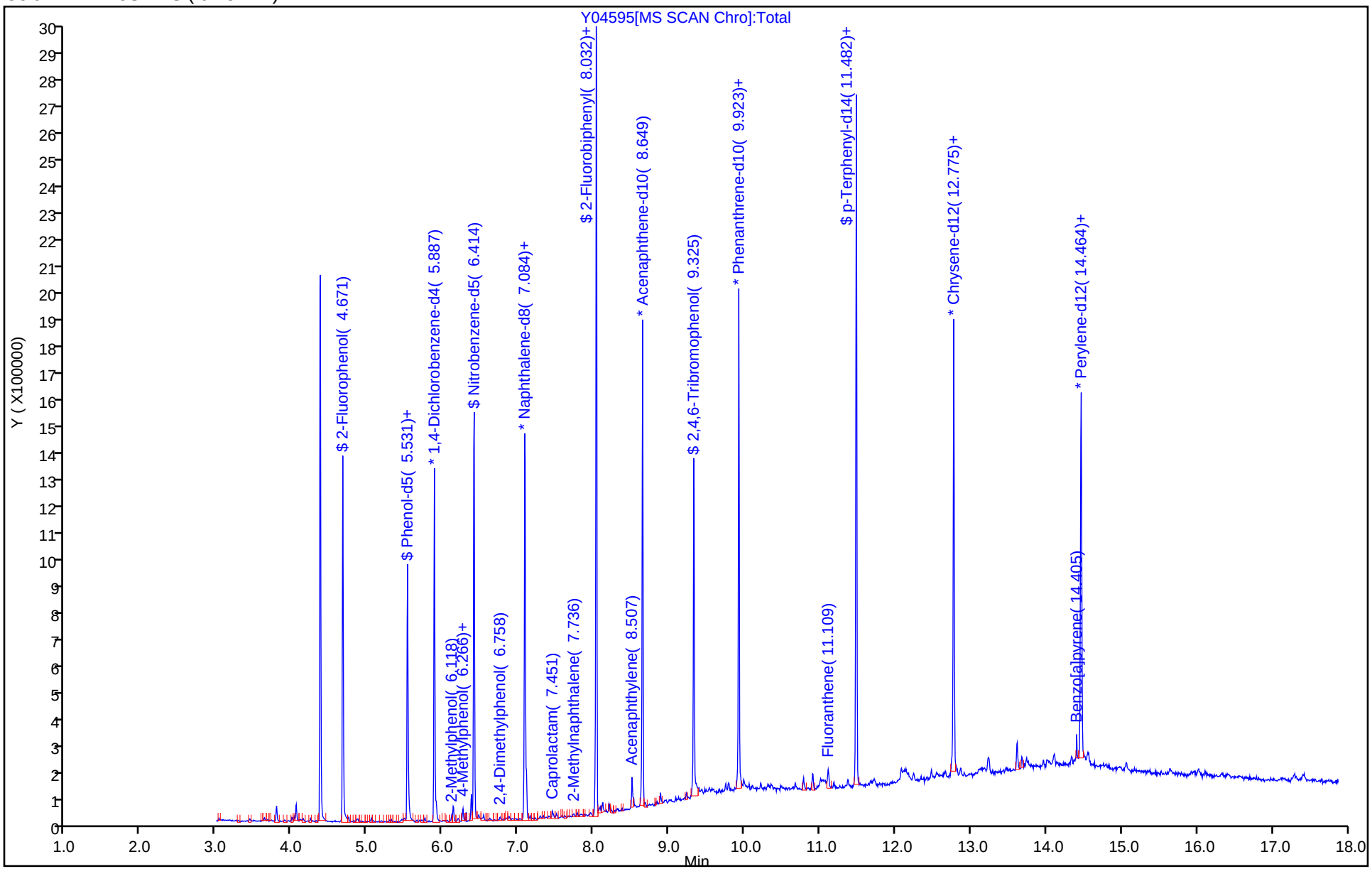
Report Date: 30-Oct-2024 15:17:36 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D

Injection Date:	29-Oct-2024 22:13:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-A-12-A	Lab Sample ID:	480-224869-12	Worklist Smp#:	26
Client ID:	MW-BCP-25A-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D
Lims ID: 480-224869-A-12-A
Client ID: MW-BCP-25A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 22:13:30 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-026
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

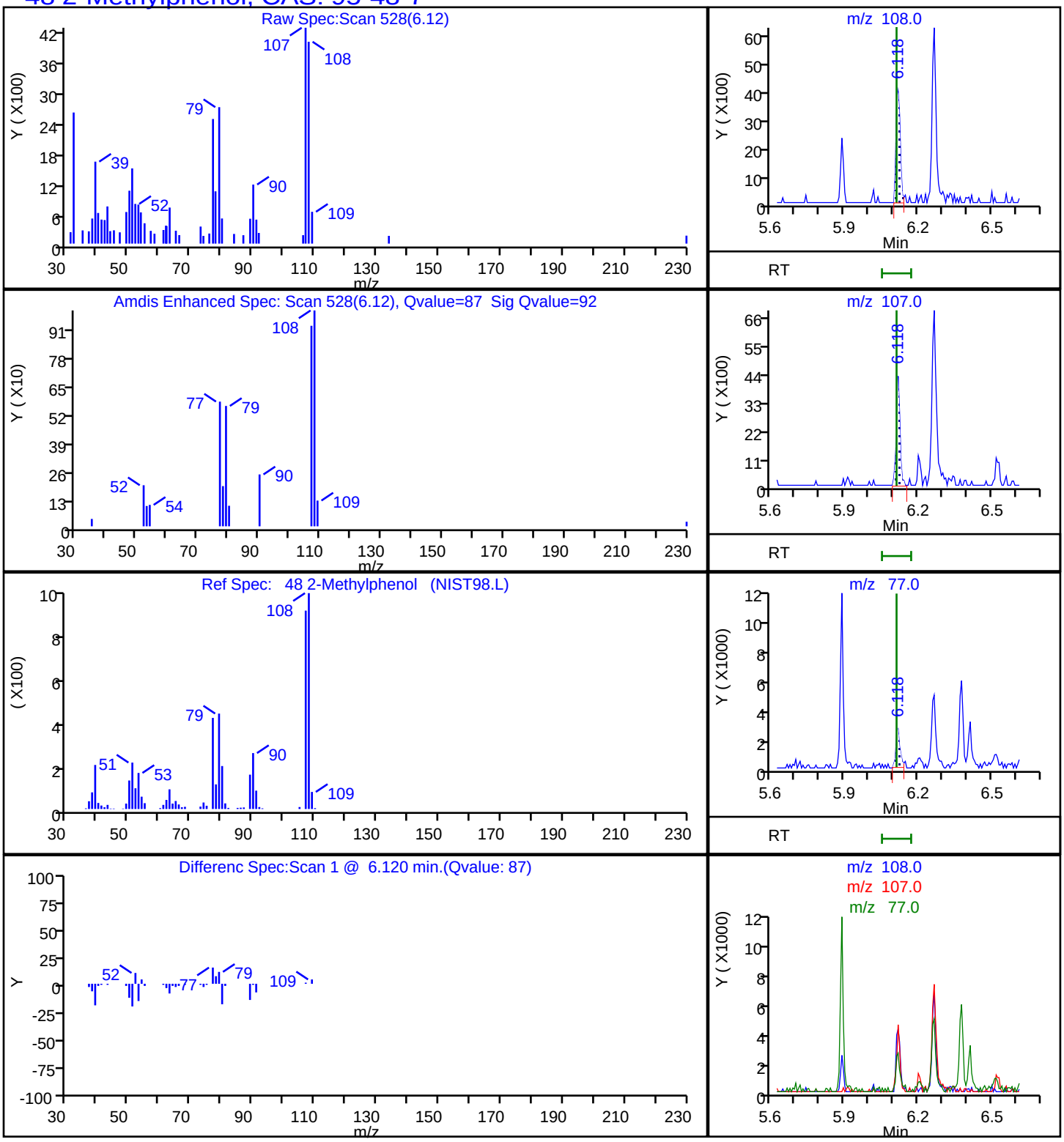
First Level Reviewer: IZ8L Date: 30-Oct-2024 15:13:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.59	69.86
$ 8 Phenol-d5	8.00	4.26	53.23
$ 9 Nitrobenzene-d5	8.00	7.61	95.12
$ 10 2-Fluorobiphenyl	8.00	6.88	86.06
$ 11 2,4,6-Tribromophenol	8.00	6.69	83.62
$ 12 p-Terphenyl-d14	8.00	5.53	69.18

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D
Injection Date: 29-Oct-2024 22:13:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-12-A Lab Sample ID: 480-224869-12
Client ID: MW-BCP-25A-10252024
Operator ID: JM ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

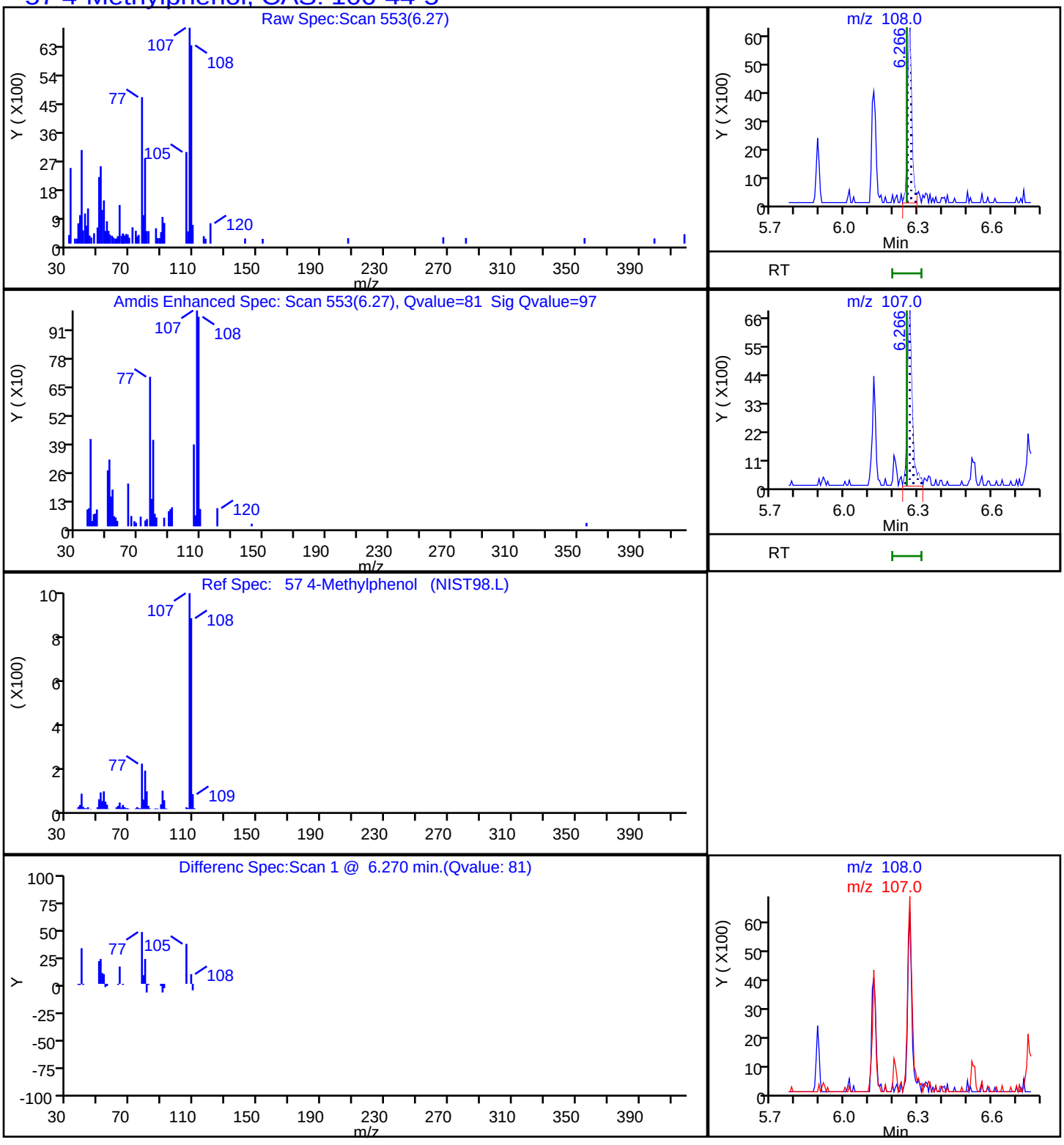
48 2-Methylphenol, CAS: 95-48-7



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D
Injection Date: 29-Oct-2024 22:13:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-12-A Lab Sample ID: 480-224869-12
Client ID: MW-BCP-25A-10252024
Operator ID: JM ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

57 4-Methylphenol, CAS: 106-44-5



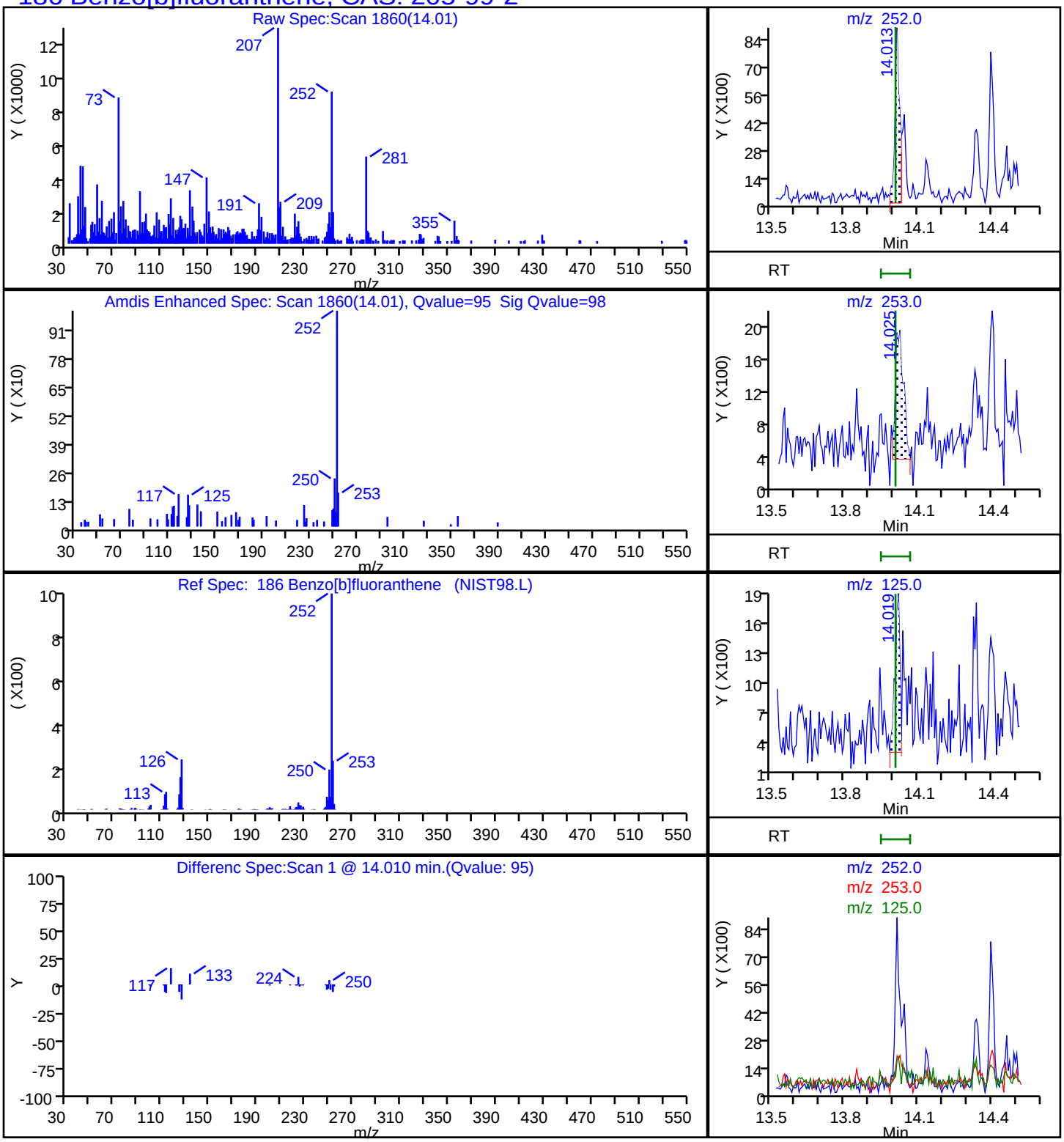
Report Date: 30-Oct-2024 15:17:36 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D

Injection Date:	29-Oct-2024 22:13:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-12-A	Lab Sample ID:	480-224869-12		
Client ID:	MW-BCP-25A-10252024				
Operator ID:	JM	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2



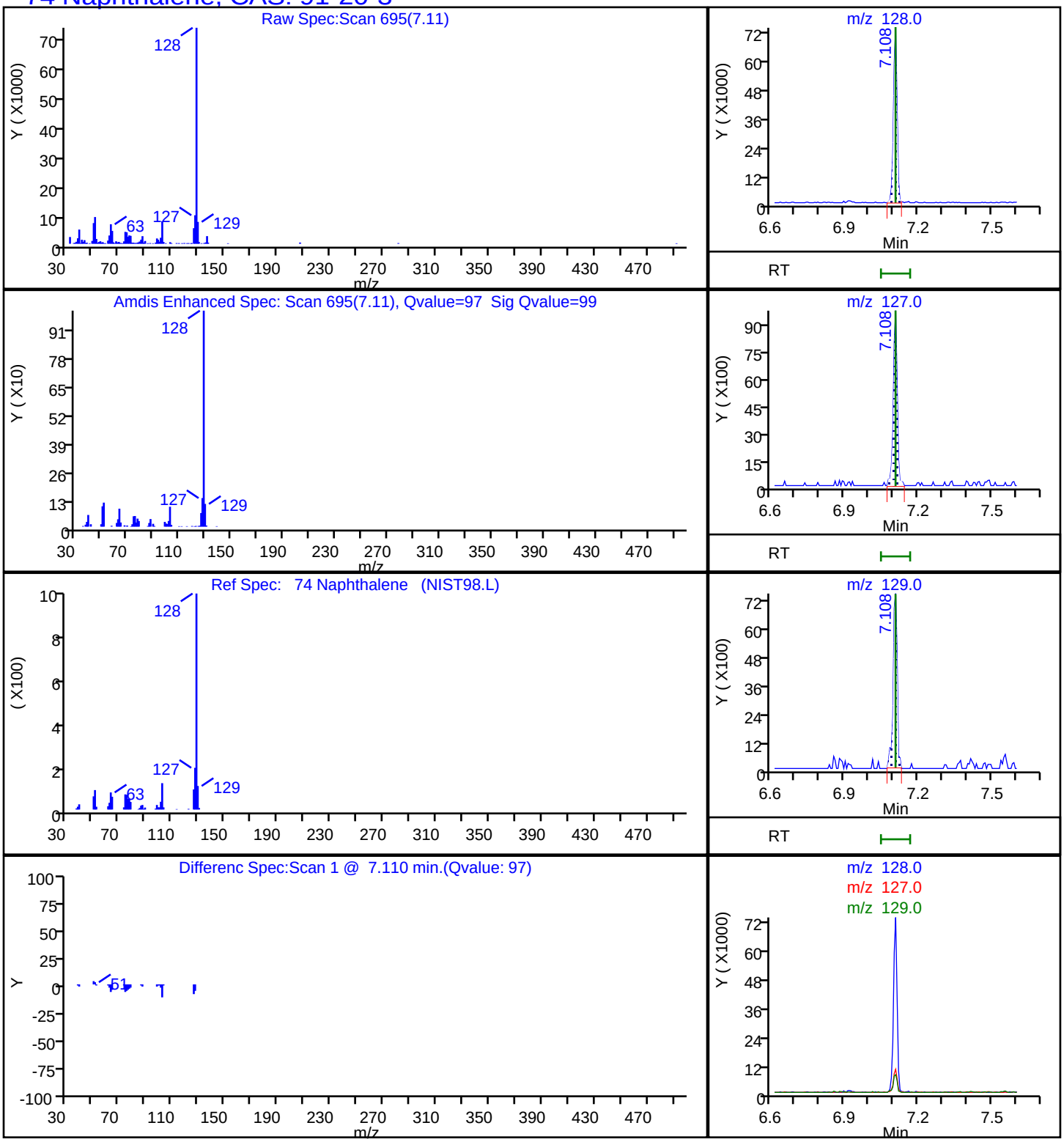
Report Date: 30-Oct-2024 15:17:36 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D

Injection Date:	29-Oct-2024 22:13:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-12-A	Lab Sample ID:	480-224869-12
Client ID:	MW-BCP-25A-10252024		
Operator ID:	JM	ALS Bottle#:	26 Worklist Smp#: 26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

74 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

Eurofins Buffalo

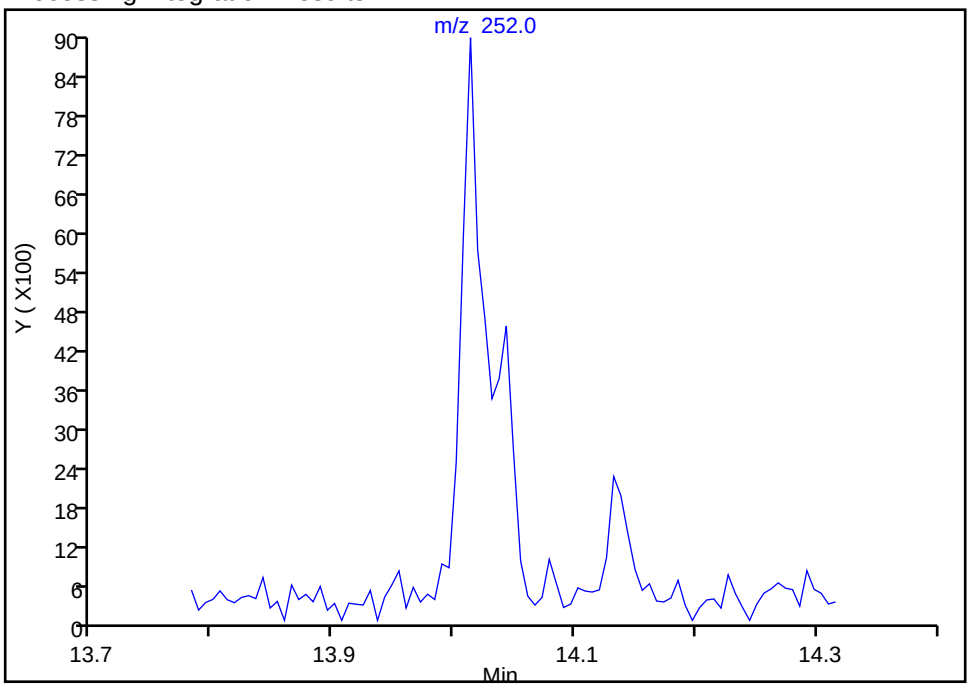
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04595.D				
Injection Date:	29-Oct-2024 22:13:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-12-A	Lab Sample ID:	480-224869-12		
Client ID:	MW-BCP-25A-10252024				
Operator ID:	JM	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

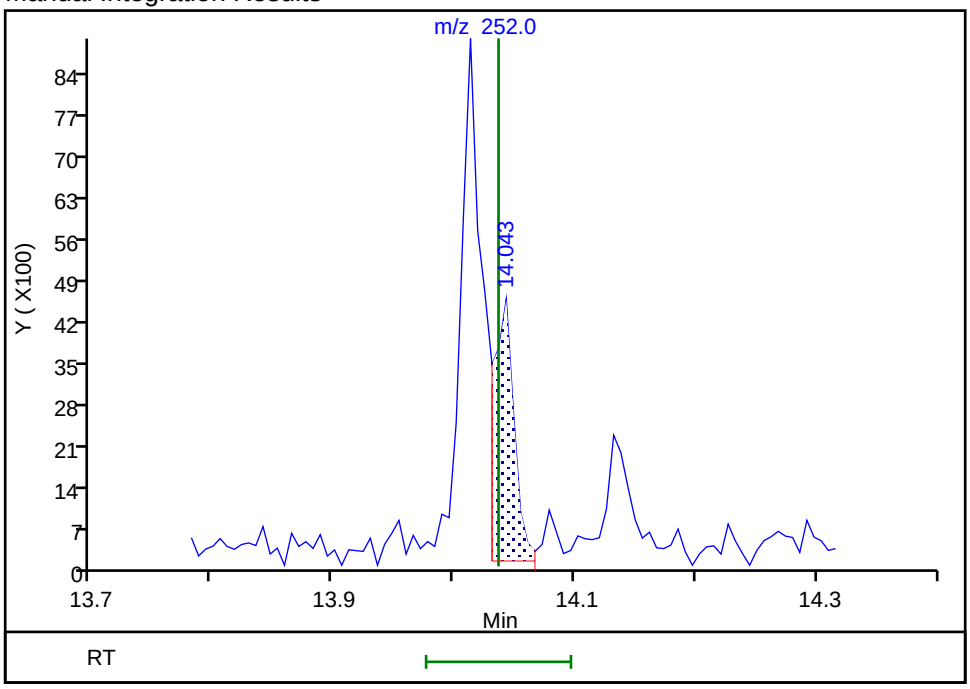
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 5391
Amount: 0.029696
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:13:34 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 | Lab Sample ID: 480-224869-13

Matrix: Water | Lab File ID: Y04596.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:55

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 22:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	14		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	0.53	J	5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	1.1	J	5.0	0.60
95-48-7	2-Methylphenol	0.49	J	5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	0.92	J	10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND	*+	10	1.5
83-32-9	Acenaphthene	8.8		5.0	0.41
208-96-8	Acenaphthylene	51		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	15		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 | Lab Sample ID: 480-224869-13

Matrix: Water | Lab File ID: Y04596.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:55

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 22:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	2.3	J	5.0	0.36
50-32-8	Benzo(a)pyrene	1.5	J	5.0	0.47
205-99-2	Benzo(b)fluoranthene	1.8	J	5.0	0.34
191-24-2	Benzo(g,h,i)perylene	0.75	J	5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	27		5.0	0.30
218-01-9	Chrysene	2.2	J	5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	48		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	22		5.0	0.40
86-73-7	*Fluorene*	*68*	*E*	*5.0*	*0.36*
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	0.66	J	5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	6.4		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 | Lab Sample ID: 480-224869-13

Matrix: Water | Lab File ID: Y04596.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:55

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 22:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	*Phenanthrene*	*78*	*E*	*5.0*	*0.44*
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	14		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	97		25-144
321-60-8	2-Fluorobiphenyl	91		53-126
367-12-4	2-Fluorophenol	69		24-120
4165-60-0	Nitrobenzene-d5	100		29-129
1718-51-0	p-Terphenyl-d14	70		33-132
4165-62-2	Phenol-d5	51		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D
Lims ID: 480-224869-A-13-A
Client ID: MW-BCP-19B-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 22:40:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-027
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 08:03:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.889	5.886	0.003	96	163000	4.00	
* 2 Naphthalene-d8	136	7.086	7.089	-0.003	99	610447	4.00	
* 3 Acenaphthene-d10	164	8.651	8.648	0.003	93	347940	4.00	
* 4 Phenanthrene-d10	188	9.926	9.929	-0.003	97	594796	4.00	
* 5 Chrysene-d12	240	12.777	12.774	0.003	99	521486	4.00	
* 6 Perylene-d12	264	14.466	14.463	0.003	97	575292	4.00	
$ 7 2-Fluorophenol	112	4.674	4.644	0.033	92	275871	5.49	
$ 8 Phenol-d5	99	5.527	5.527	0.003	88	255514	4.12	
$ 9 Nitrobenzene-d5	82	6.411	6.410	-0.004	98	470929	8.01	
$ 10 2-Fluorobiphenyl	172	8.035	8.040	-0.003	98	866055	7.24	
$ 11 2,4,6-Tribromophenol	330	9.327	9.327	-0.003	86	115055	7.76	
$ 12 p-Terphenyl-d14	244	11.485	11.484	0.003	97	787236	5.57	
35 Benzaldehyde	77		5.471				ND	U
37 Phenol	94		5.536				ND	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108	6.114	6.111	0.003	84	5890	0.1231	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.262	6.314	0.008	83	11395	0.2291	
52 Acetophenone	105		6.265				ND	
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	U
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107	6.754	6.751	0.003	80	7022	0.1321	
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.104	7.113	-0.003	98	258201	1.60	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113	7.454	7.462	-0.009	56	2468	0.2233	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142	7.726	7.726	-0.004	90	27829	0.2798	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154	8.130	8.132	-0.003	97	459775	3.60	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	U
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152	8.533	8.532	0.003	98	1975660	12.8	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153	8.675	8.675	-0.003	96	225868	2.19	
111 2,4-Dinitrophenol	184		8.696				ND	
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	U
115 Dibenzofuran	168	8.823	8.829	-0.003	94	1673623	12.0	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166	9.119	9.125	-0.004	94	2017592	17.1	E
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	U
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178	9.949	9.946	0.002	99	3222037	19.6	E
152 Anthracene	178	9.991	10.001	0.003	98	604667	3.68	
153 Carbazole	167	10.121	10.149	0.003	97	973952	6.66	
157 Di-n-butyl phthalate	149	10.358	10.352	0.002	50	8464	0.0450	
164 Fluoranthene	202	11.111	11.104	0.003	98	967901	5.54	
167 Pyrene	202	11.372	11.366	0.003	97	628223	3.60	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.667				ND	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228	12.759	12.764	-0.003	99	100940	0.5653	
182 Chrysene	228	12.807	12.809	-0.003	95	87700	0.5375	
184 Di-n-octyl phthalate	149		13.420				ND	U
186 Benzo[b]fluoranthene	252	14.016	14.019	0.009	97	79502	0.4506	M
187 Benzo[k]fluoranthene	252	14.039	14.037	0.002	43	31619	0.1714	Ma
189 Benzo[a]pyrene	252	14.401	14.401	0.003	78	58346	0.3772	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276	15.954	15.942	0.009	96	29137	0.1642	
195 Benzo[g,h,i]perylene	276	16.405	16.417	0.009	94	27189	0.1882	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

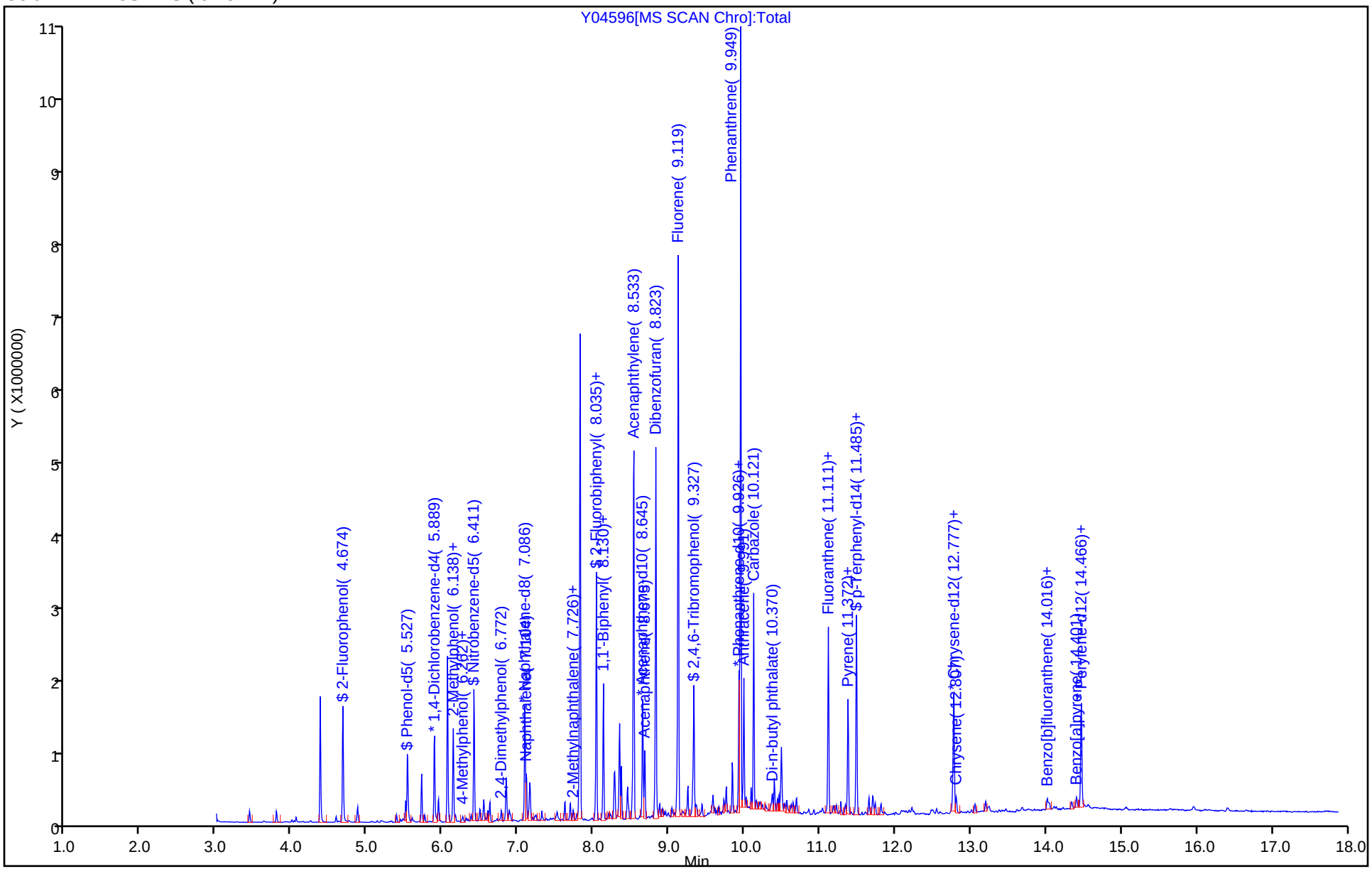
Report Date: 30-Oct-2024 15:17:41 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13	Worklist Smp#:	27
Client ID:	MW-BCP-19B-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D
Lims ID: 480-224869-A-13-A
Client ID: MW-BCP-19B-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 22:40:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-027
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 08:03:02

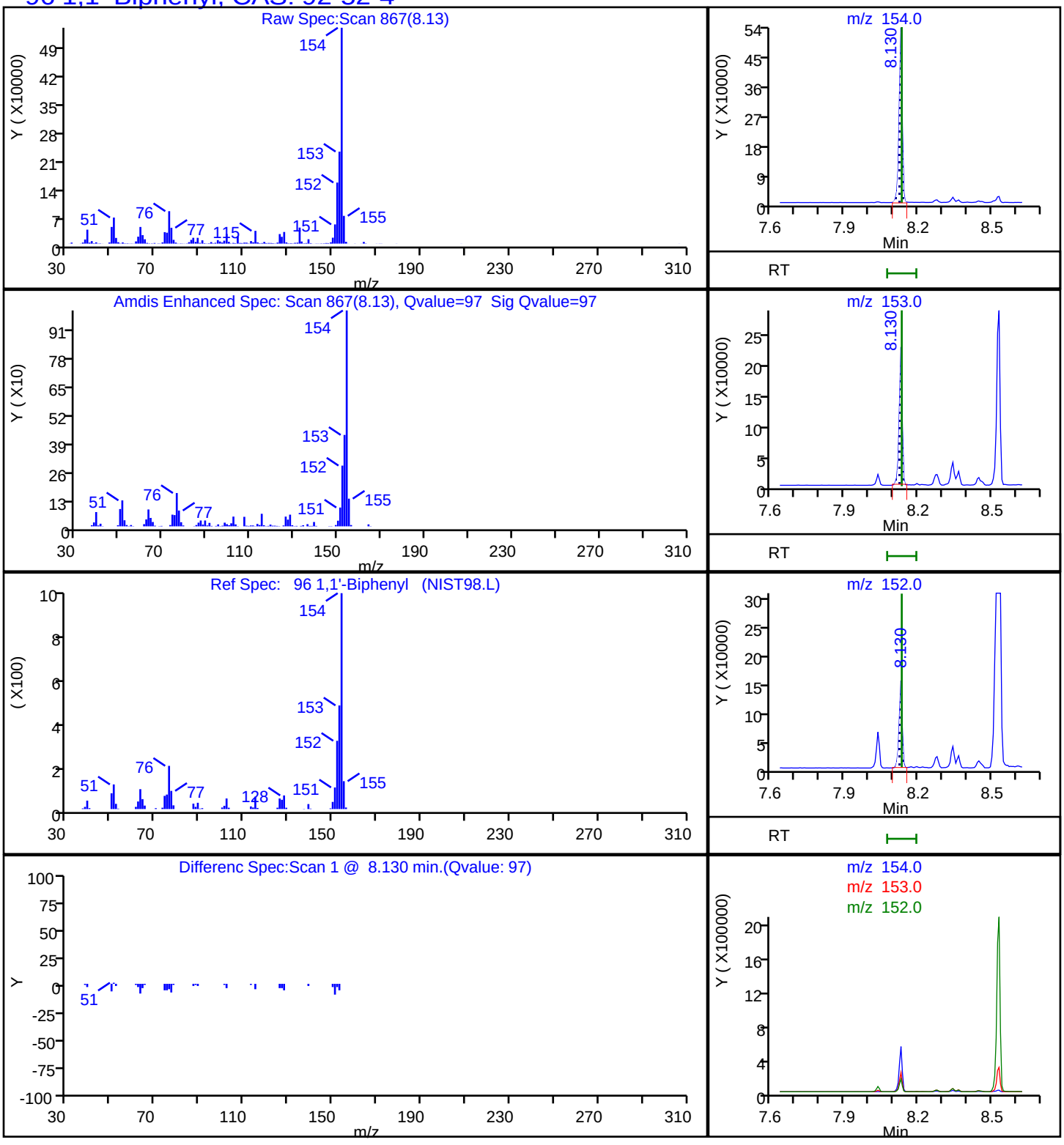
Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.49	68.66
$ 8 Phenol-d5	8.00	4.12	51.47
$ 9 Nitrobenzene-d5	8.00	8.01	100.18
$ 10 2-Fluorobiphenyl	8.00	7.24	90.52
$ 11 2,4,6-Tribromophenol	8.00	7.76	97.02
$ 12 p-Terphenyl-d14	8.00	5.57	69.61

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

96 1,1'-Biphenyl, CAS: 92-52-4

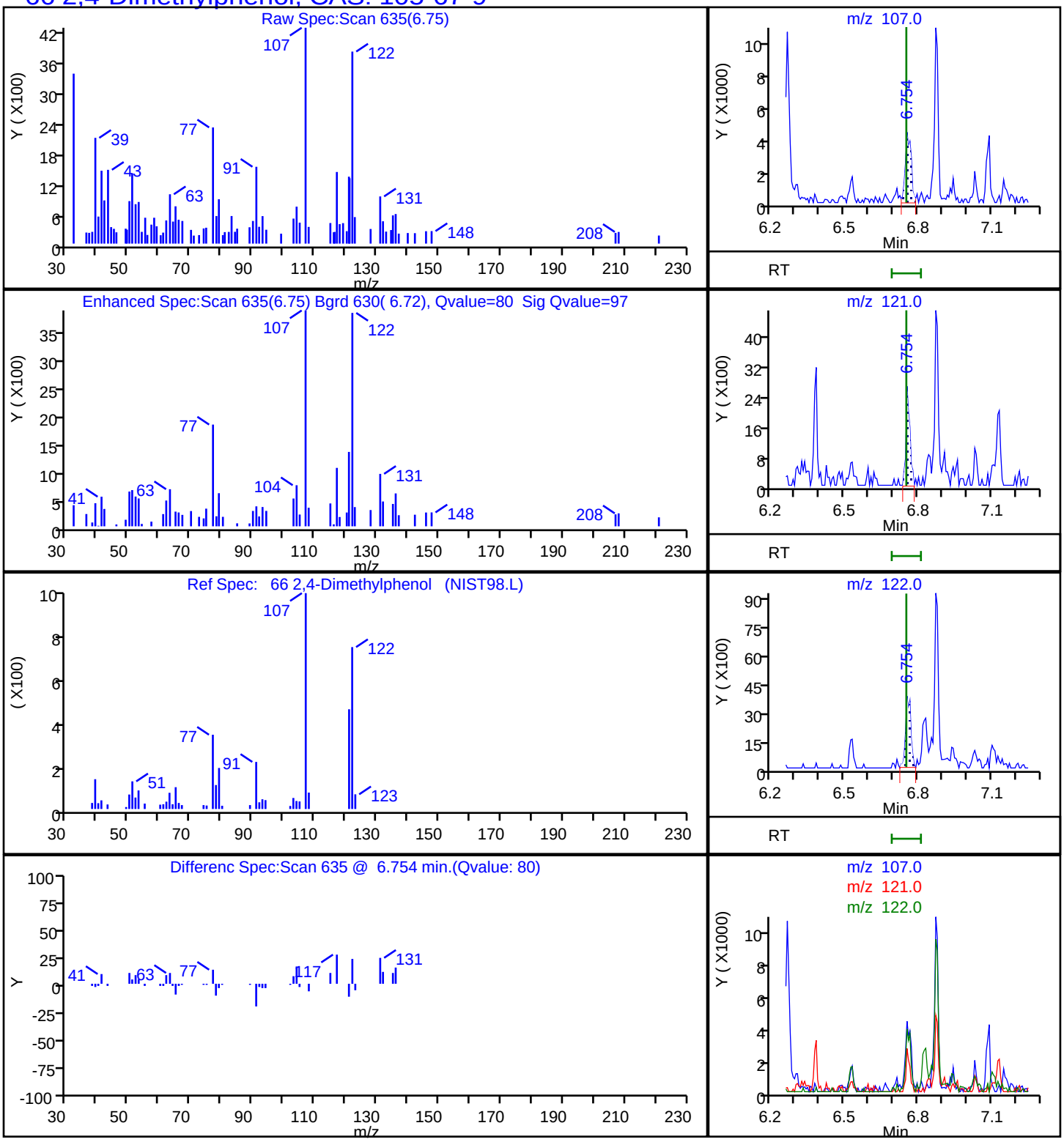


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dimethylphenol, CAS: 105-67-9



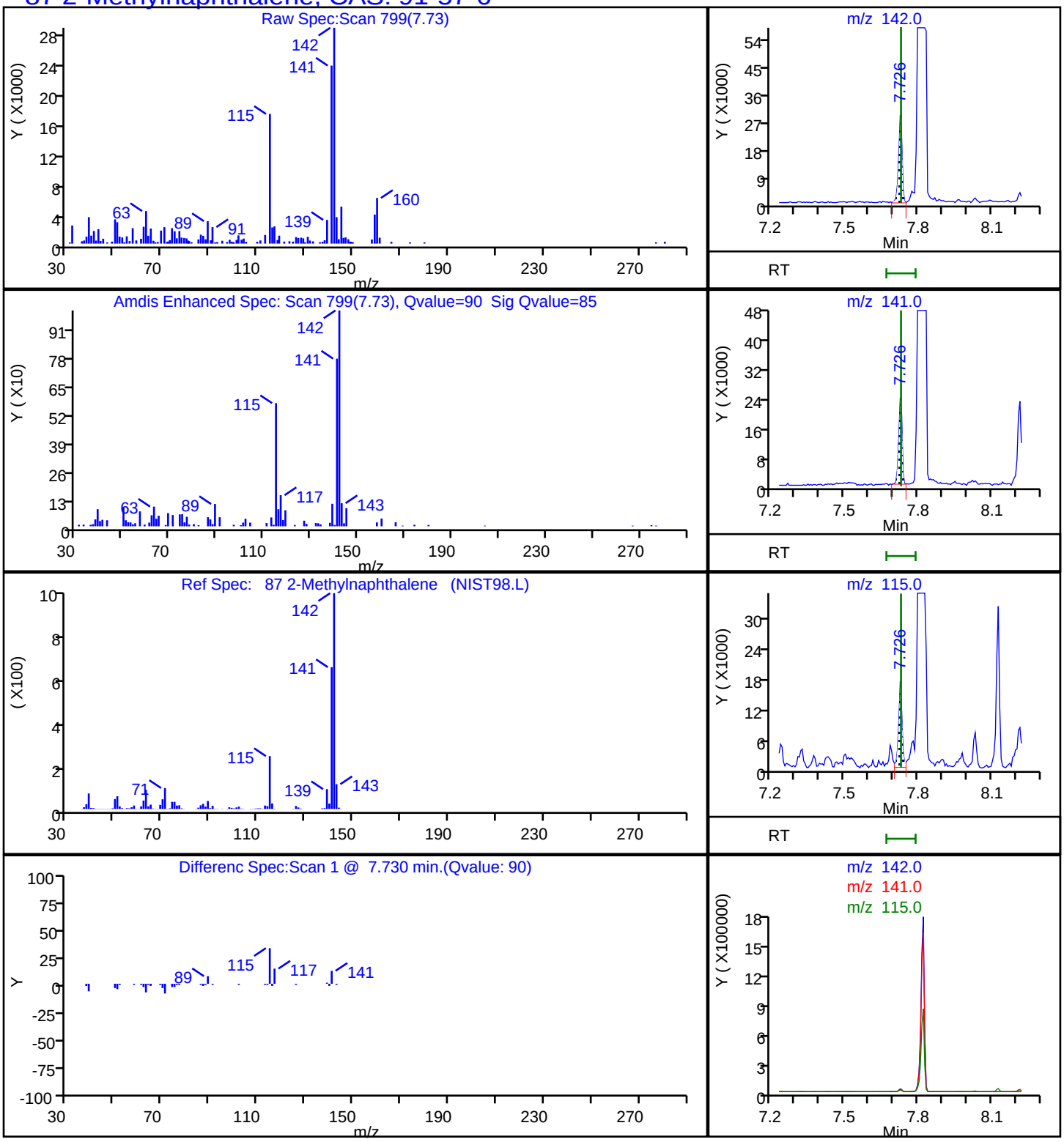
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

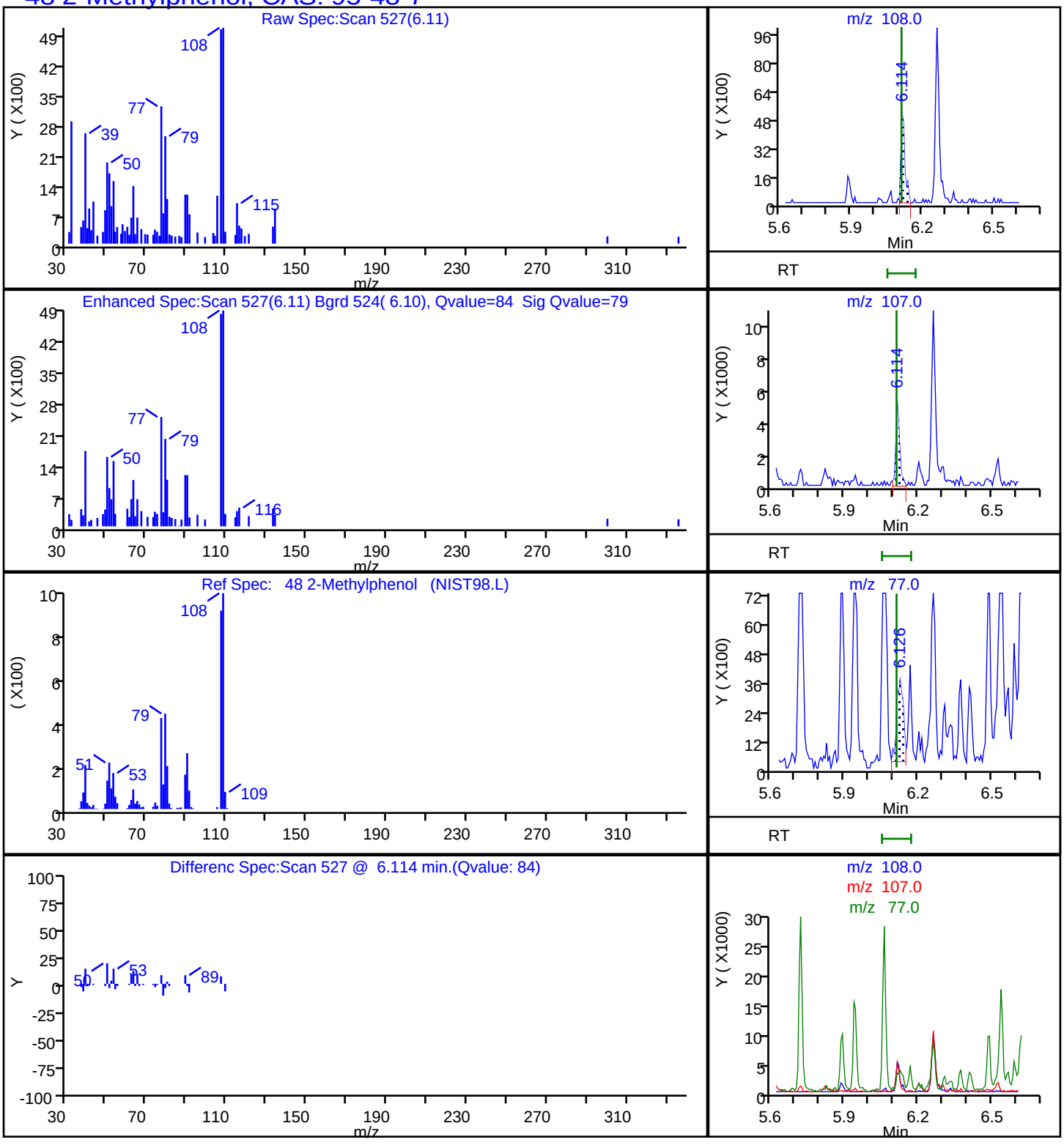
87 2-Methylnaphthalene, CAS: 91-57-6



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D
Injection Date: 29-Oct-2024 22:40:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-13-A Lab Sample ID: 480-224869-13
Client ID: MW-BCP-19B-10252024
Operator ID: JM ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

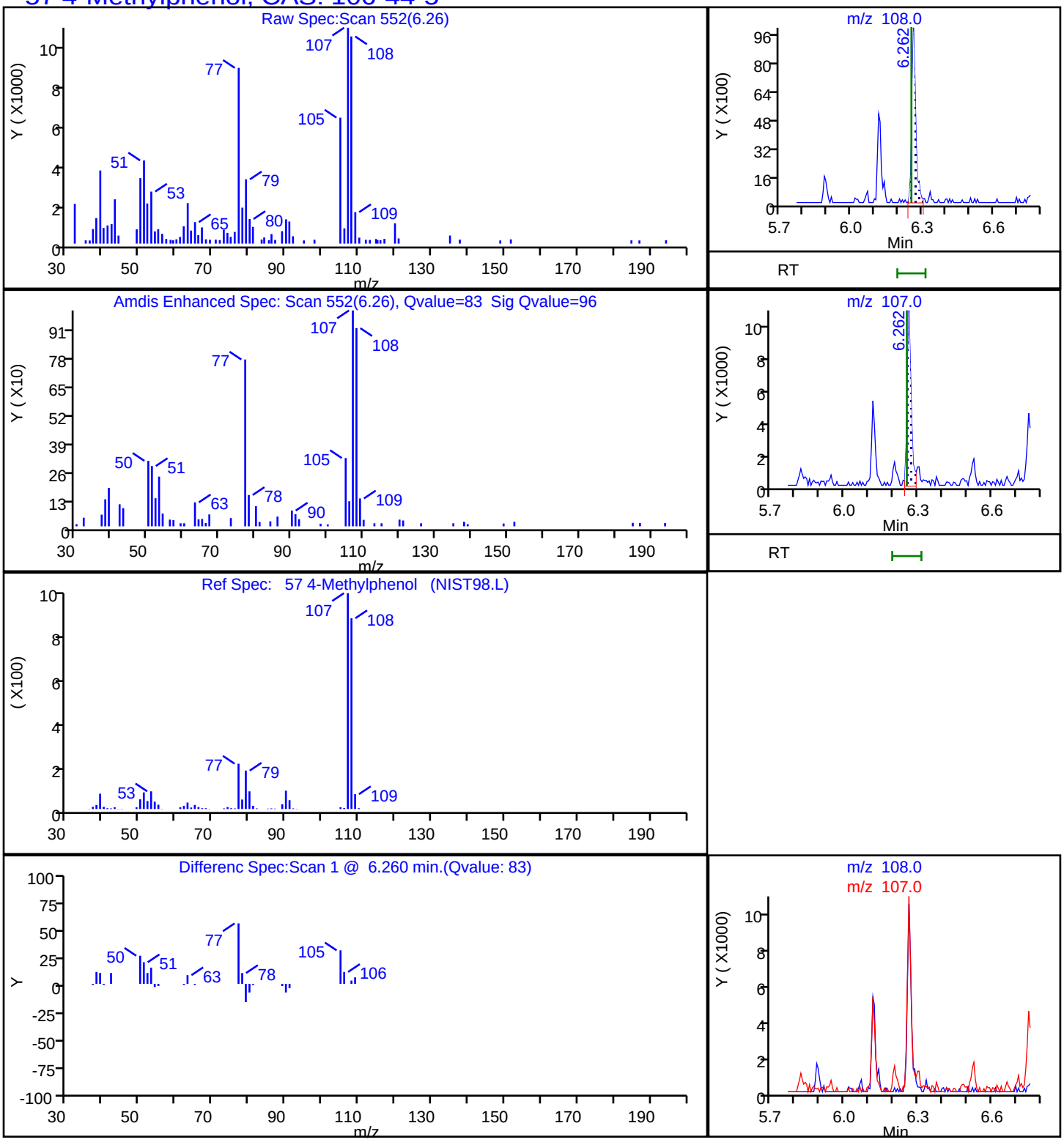
48 2-Methylphenol, CAS: 95-48-7



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D
Injection Date: 29-Oct-2024 22:40:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-13-A Lab Sample ID: 480-224869-13
Client ID: MW-BCP-19B-10252024
Operator ID: JM ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

57 4-Methylphenol, CAS: 106-44-5

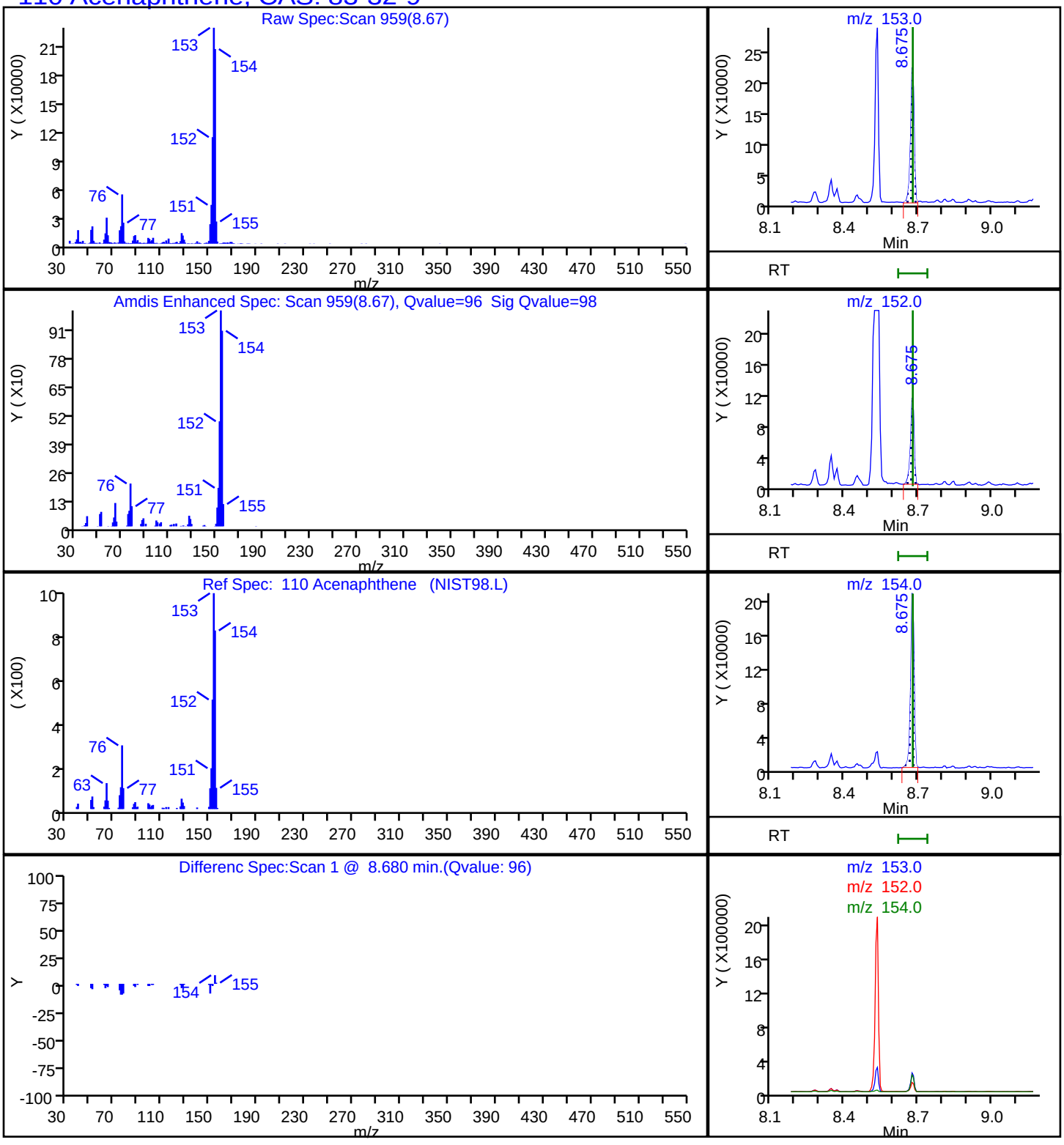


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

110 Acenaphthene, CAS: 83-32-9

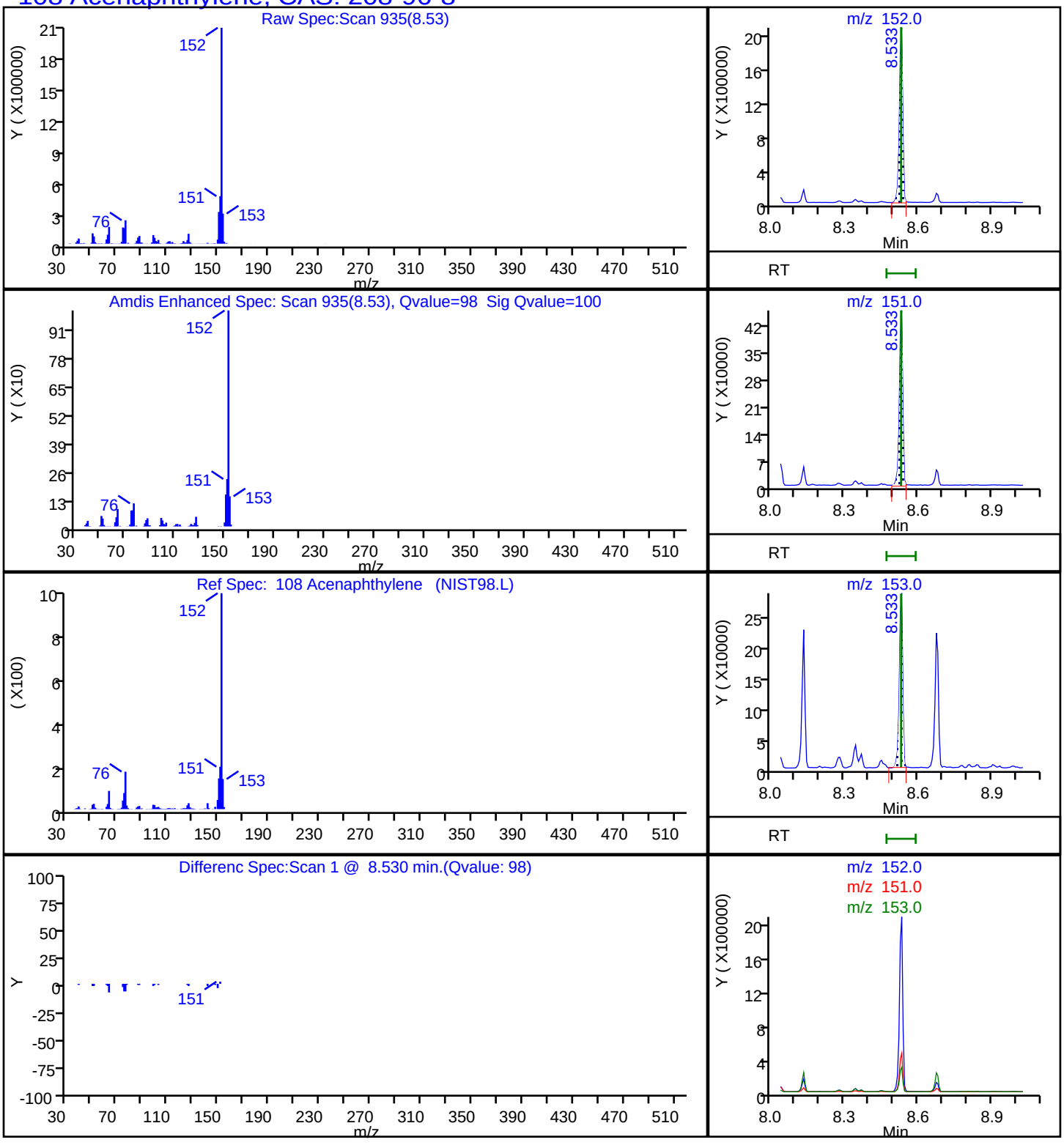


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

108 Acenaphthylene, CAS: 208-96-8



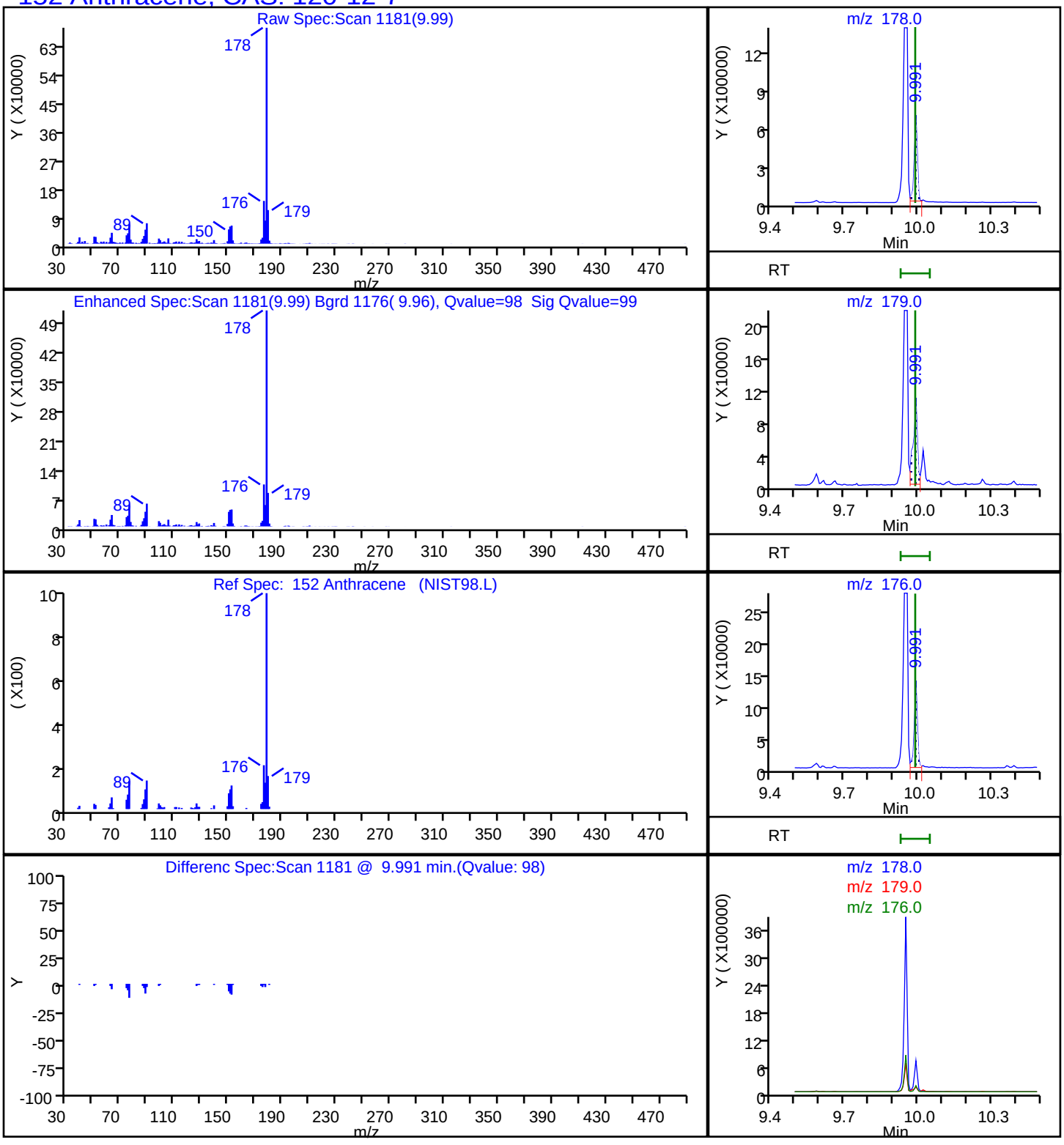
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

152 Anthracene, CAS: 120-12-7



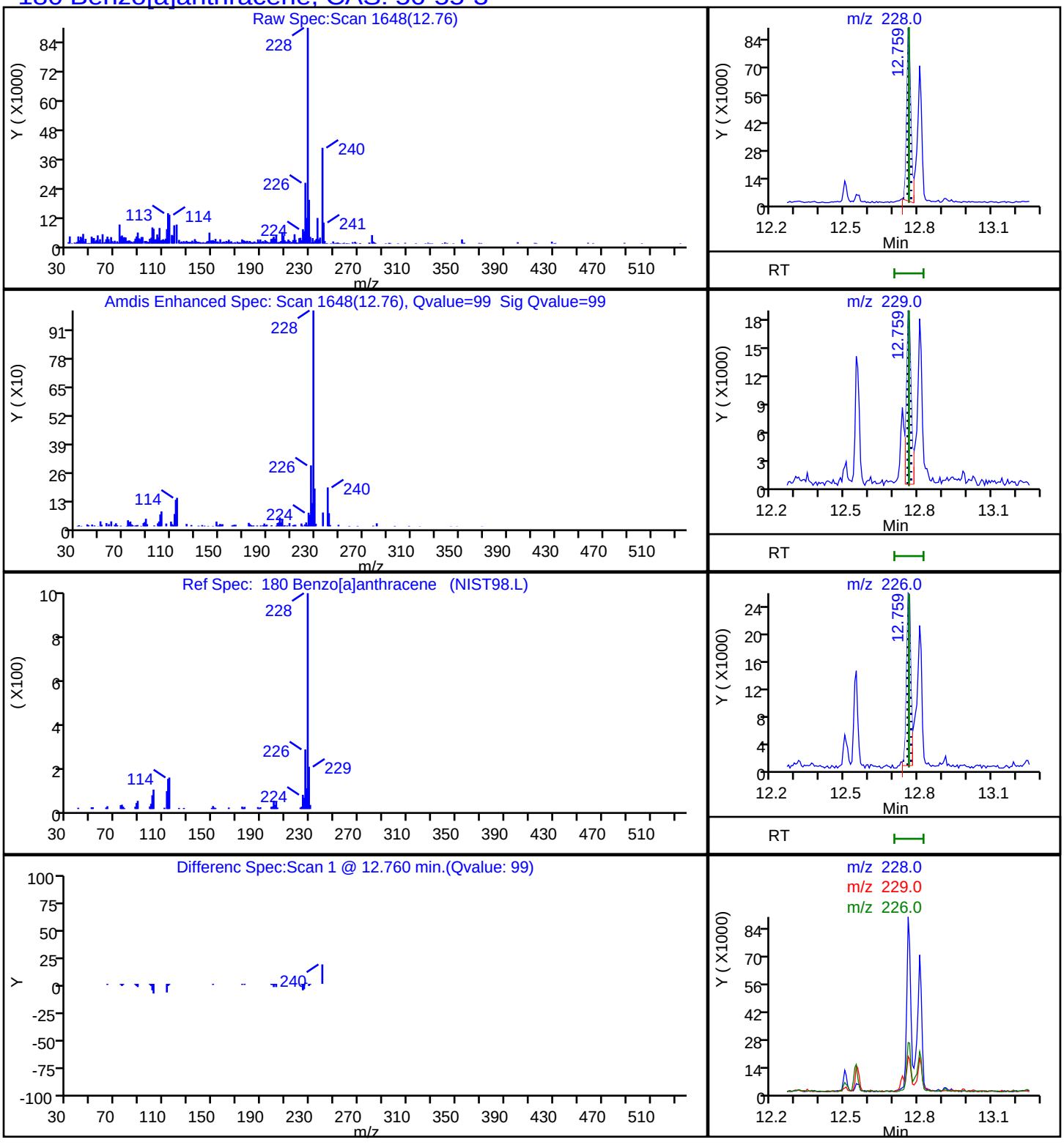
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

180 Benzo[a]anthracene, CAS: 56-55-3



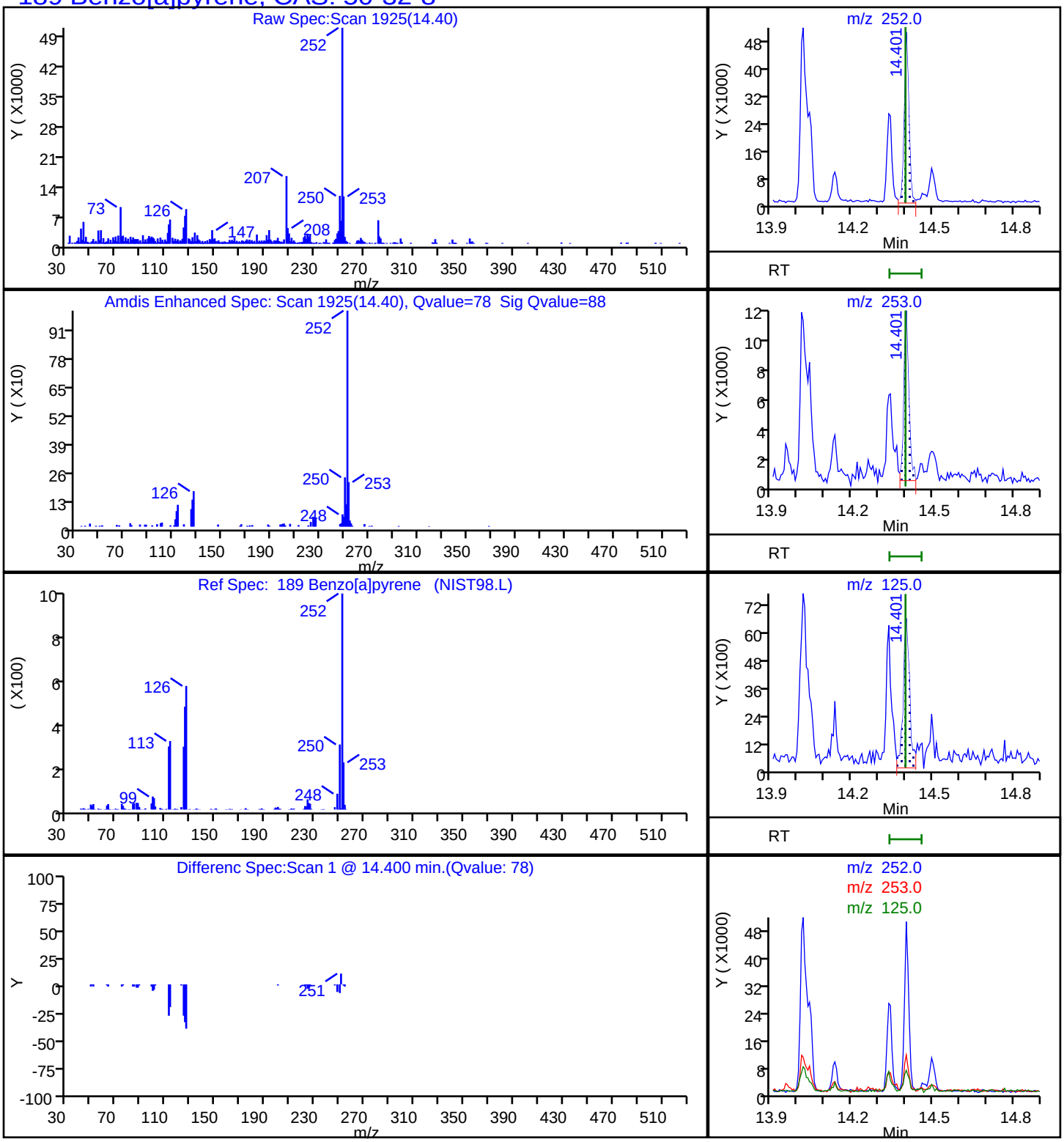
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

189 Benzo[a]pyrene, CAS: 50-32-8



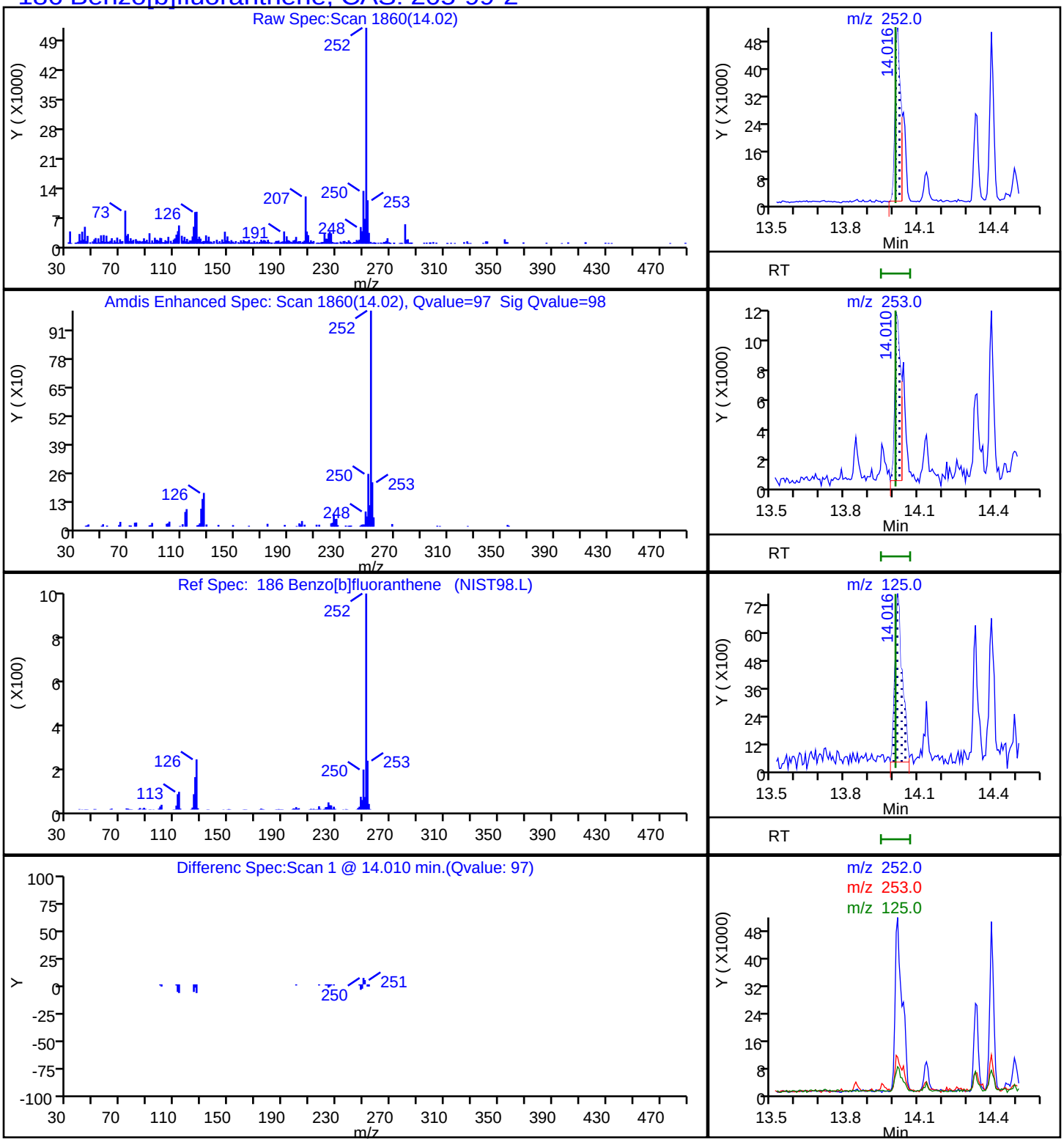
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2



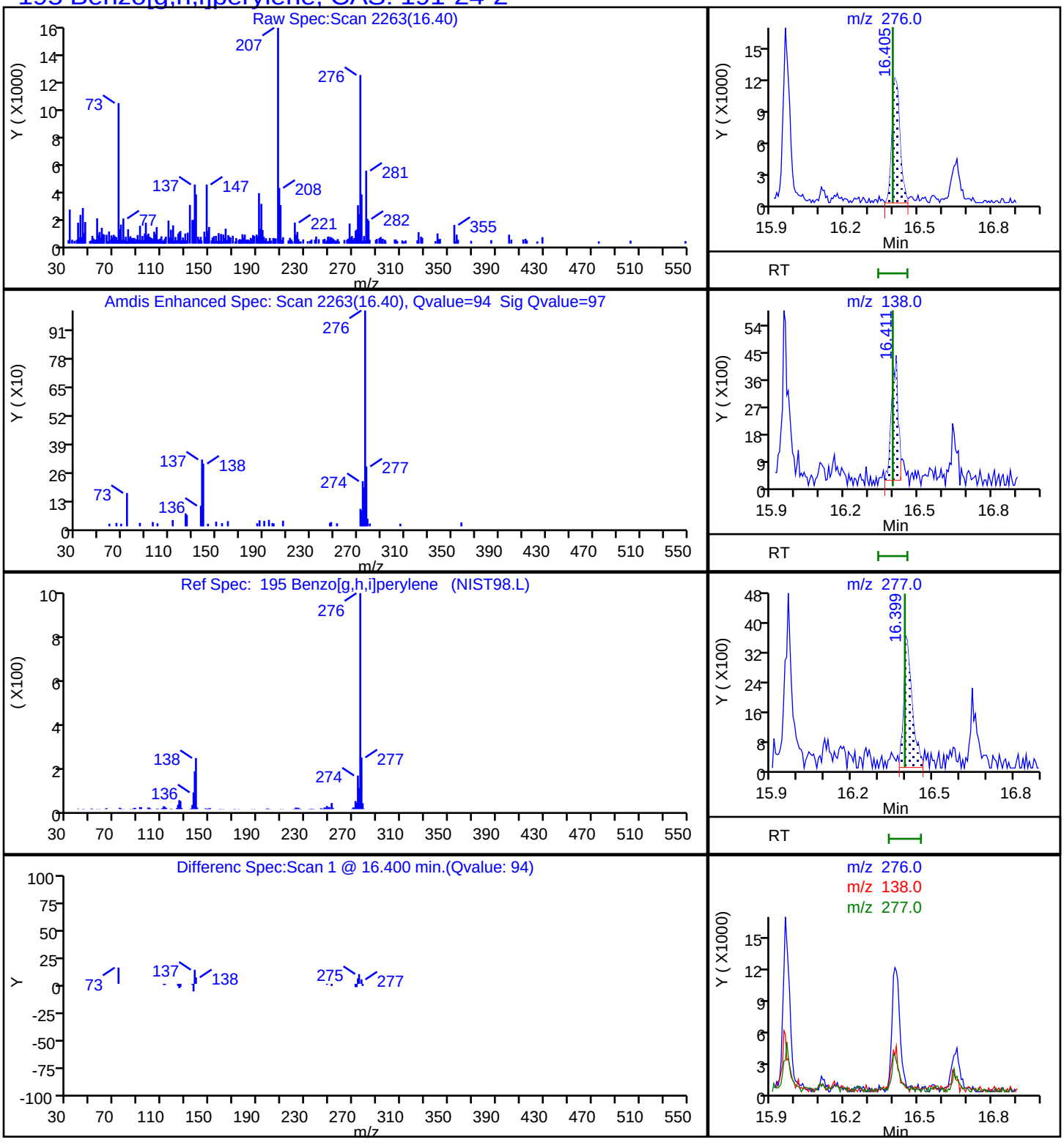
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

195 Benzo[g,h,i]perylene, CAS: 191-24-2



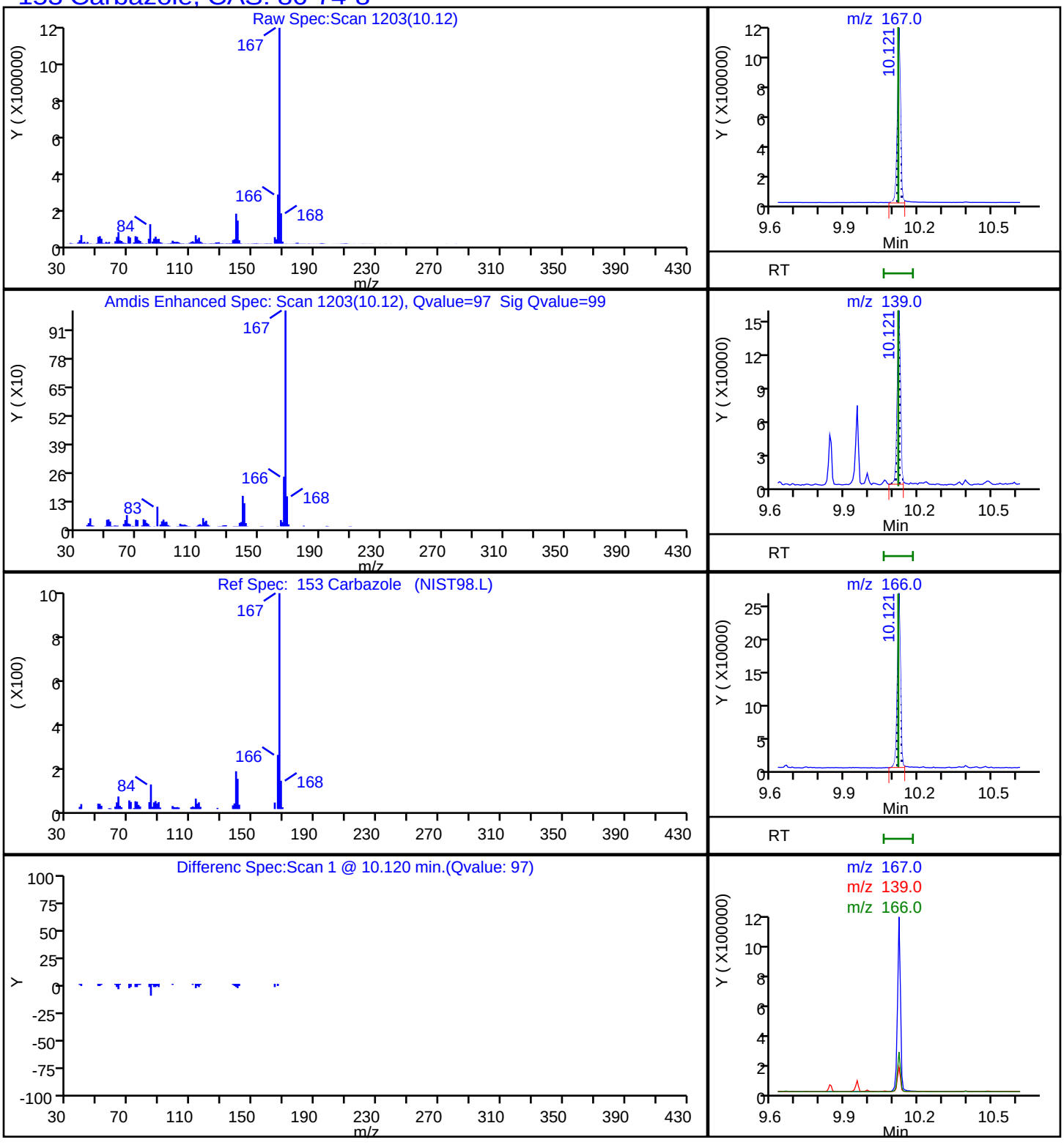
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

153 Carbazole, CAS: 86-74-8



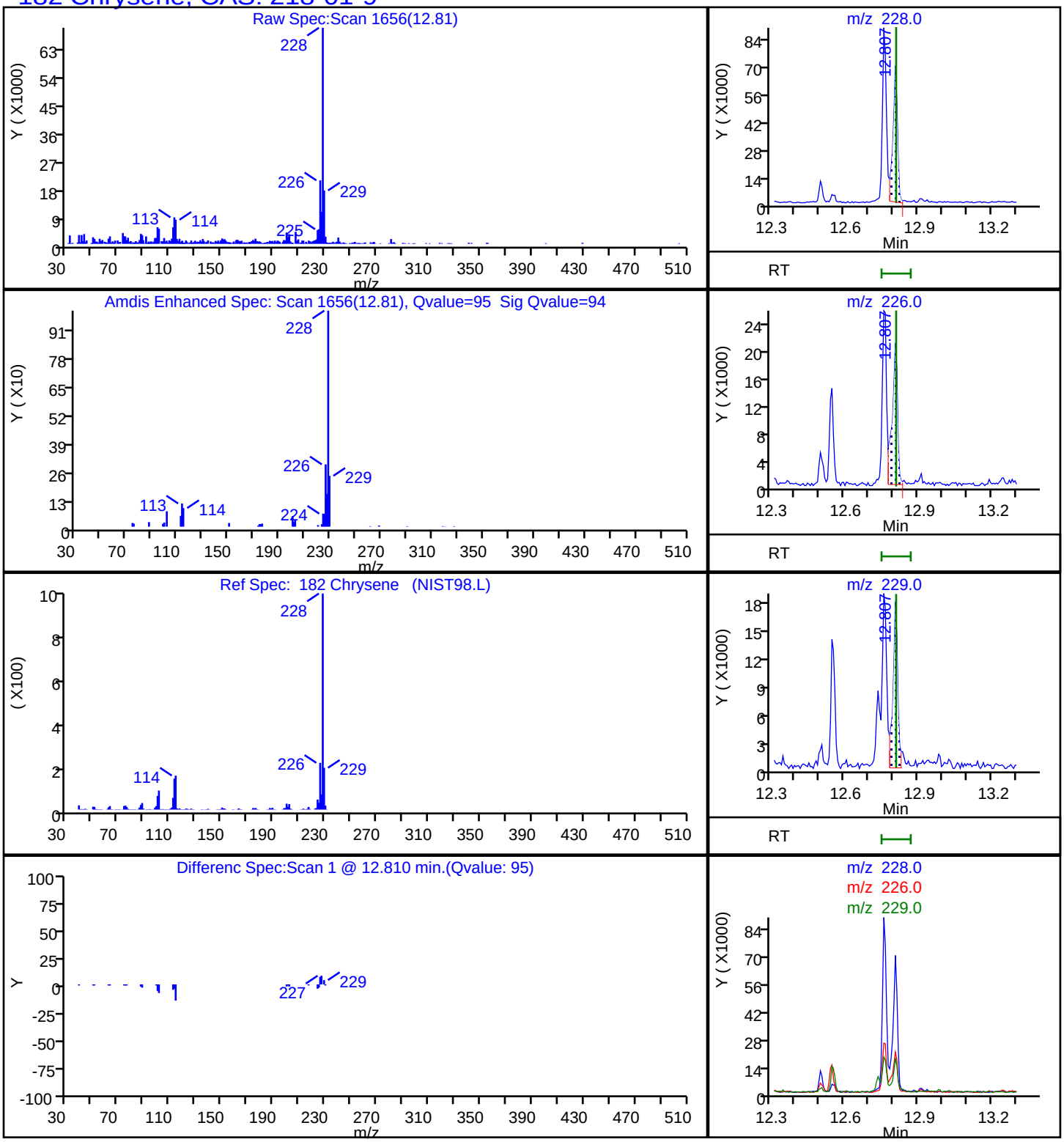
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

182 Chrysene, CAS: 218-01-9



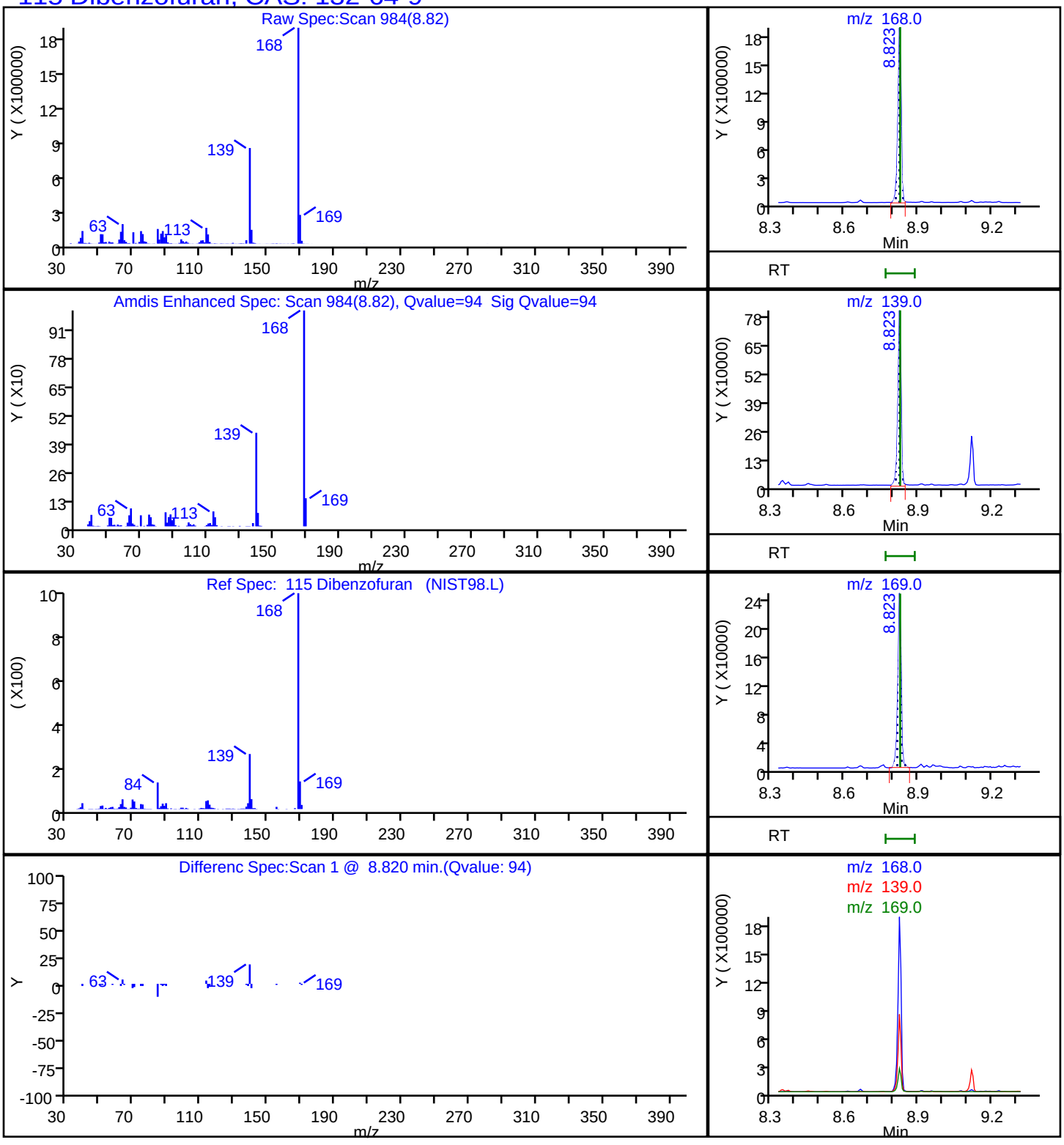
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

115 Dibenzofuran, CAS: 132-64-9



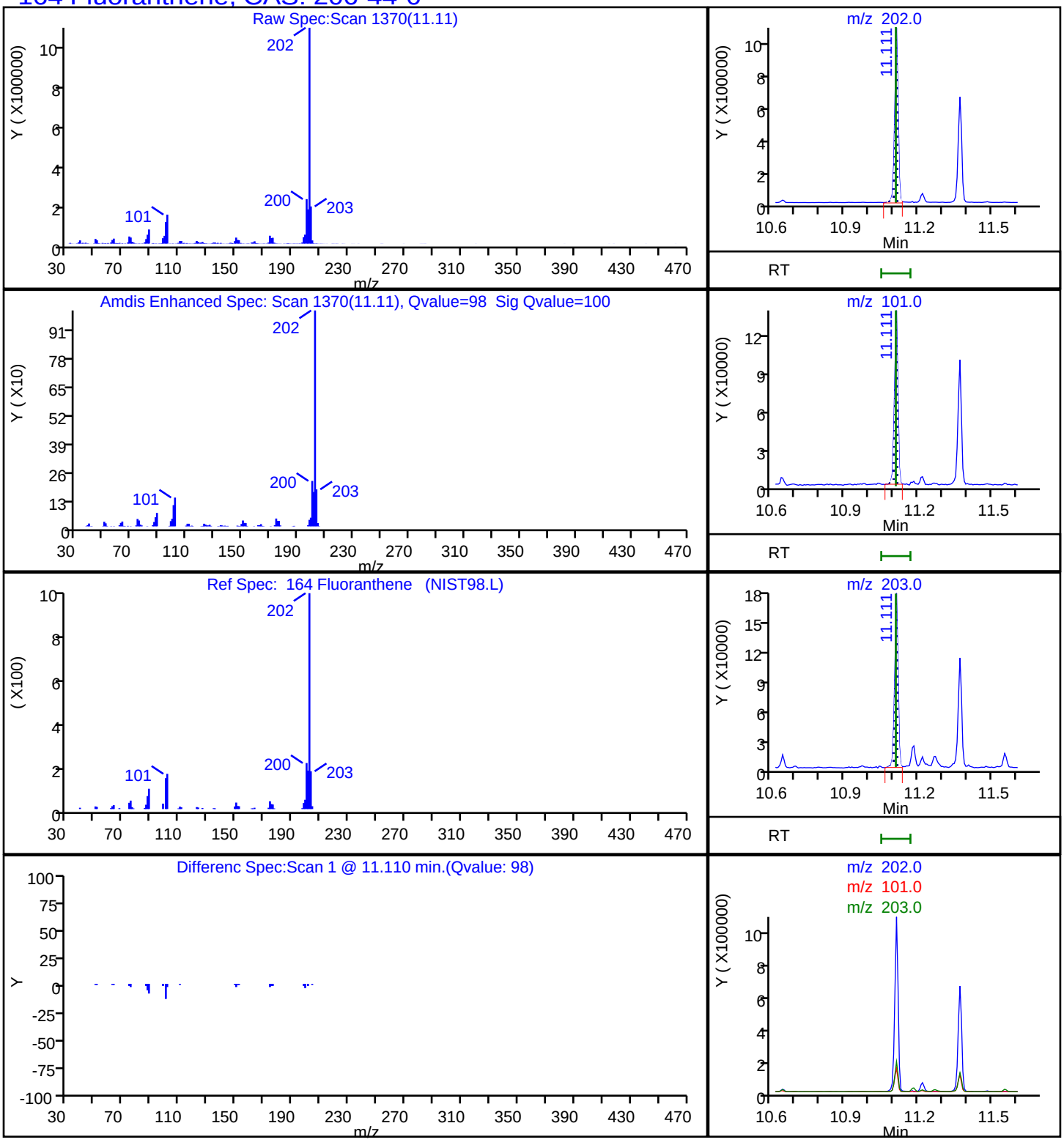
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

164 Fluoranthene, CAS: 206-44-0

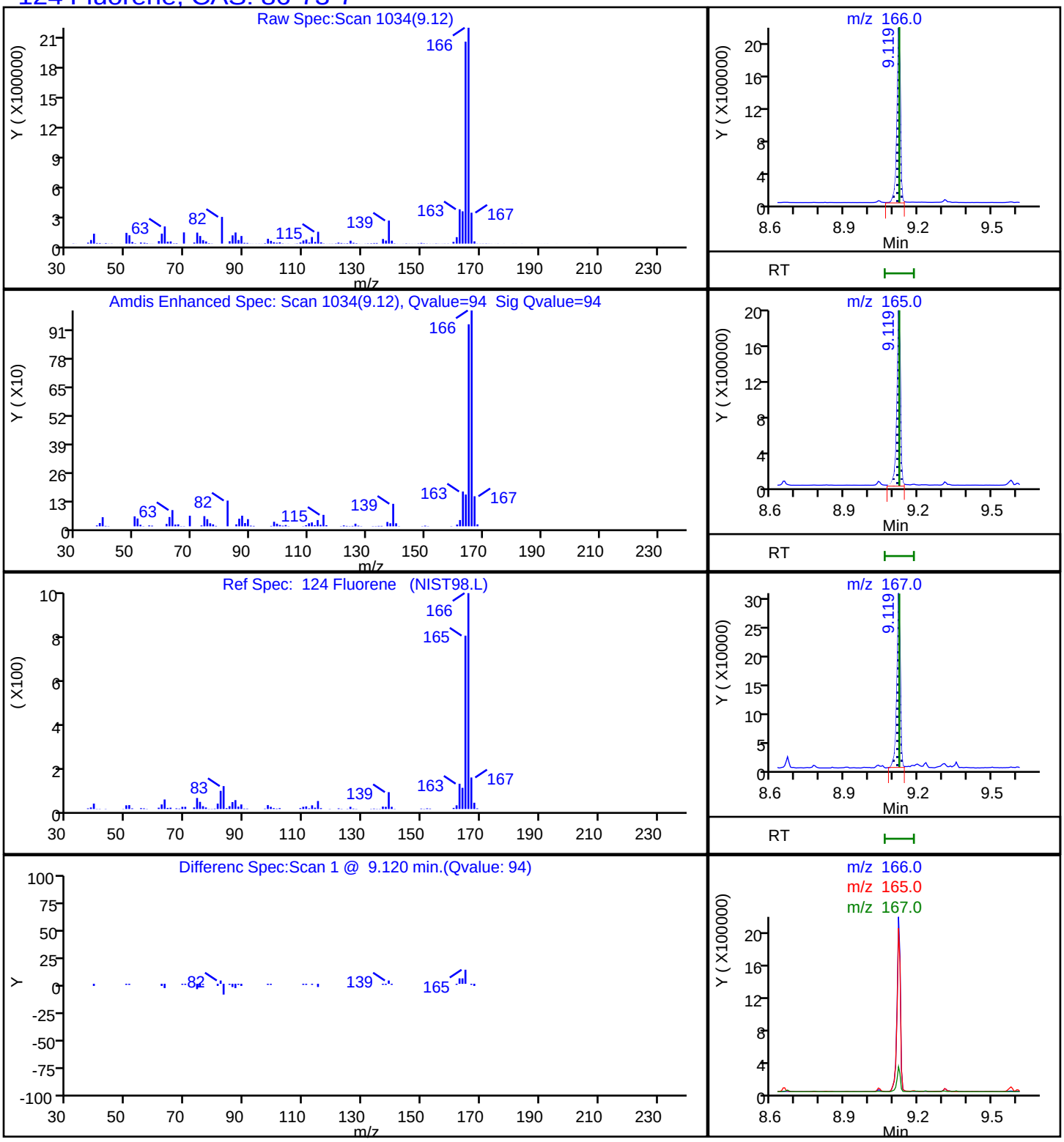


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

124 Fluorene, CAS: 86-73-7



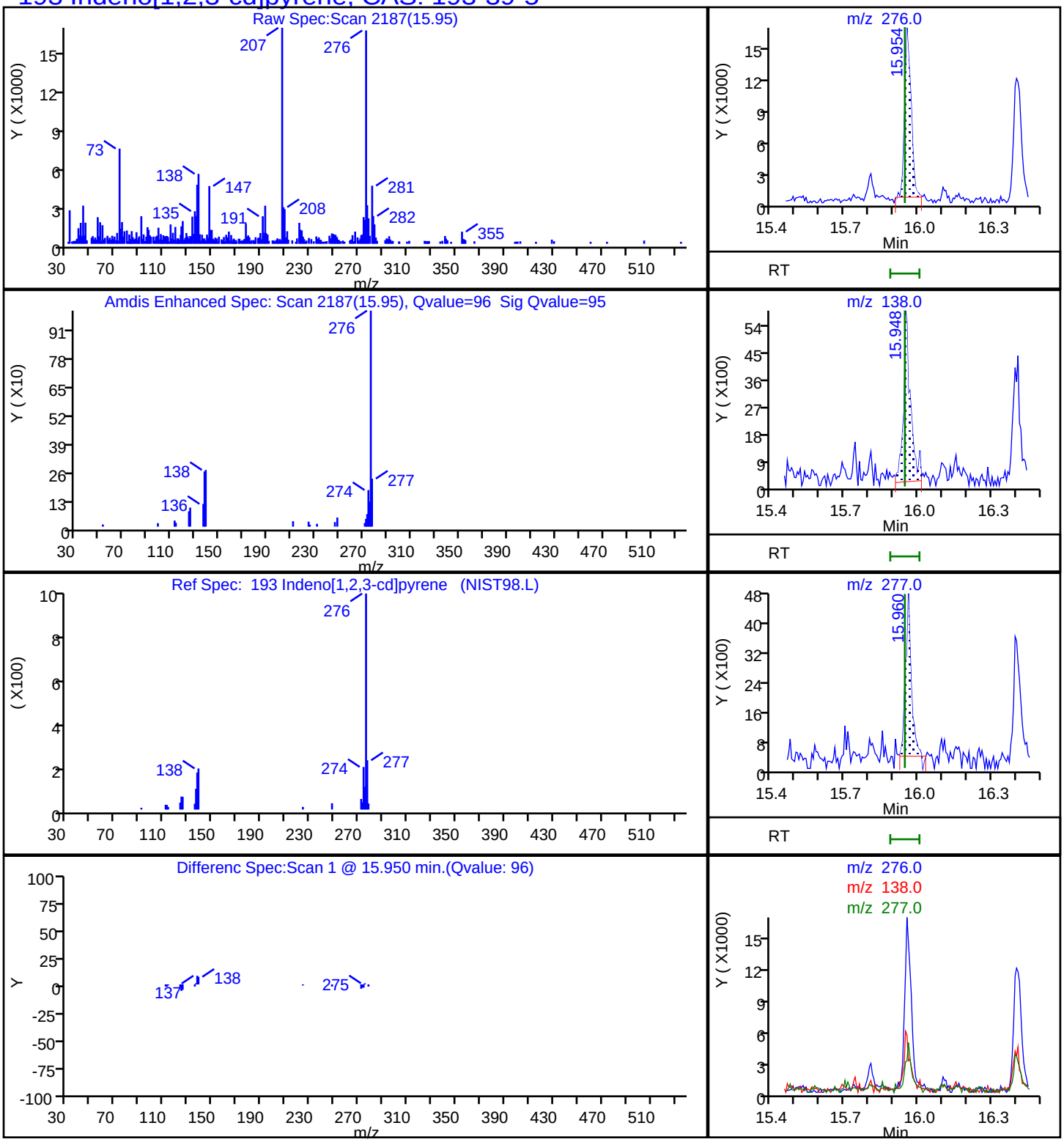
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

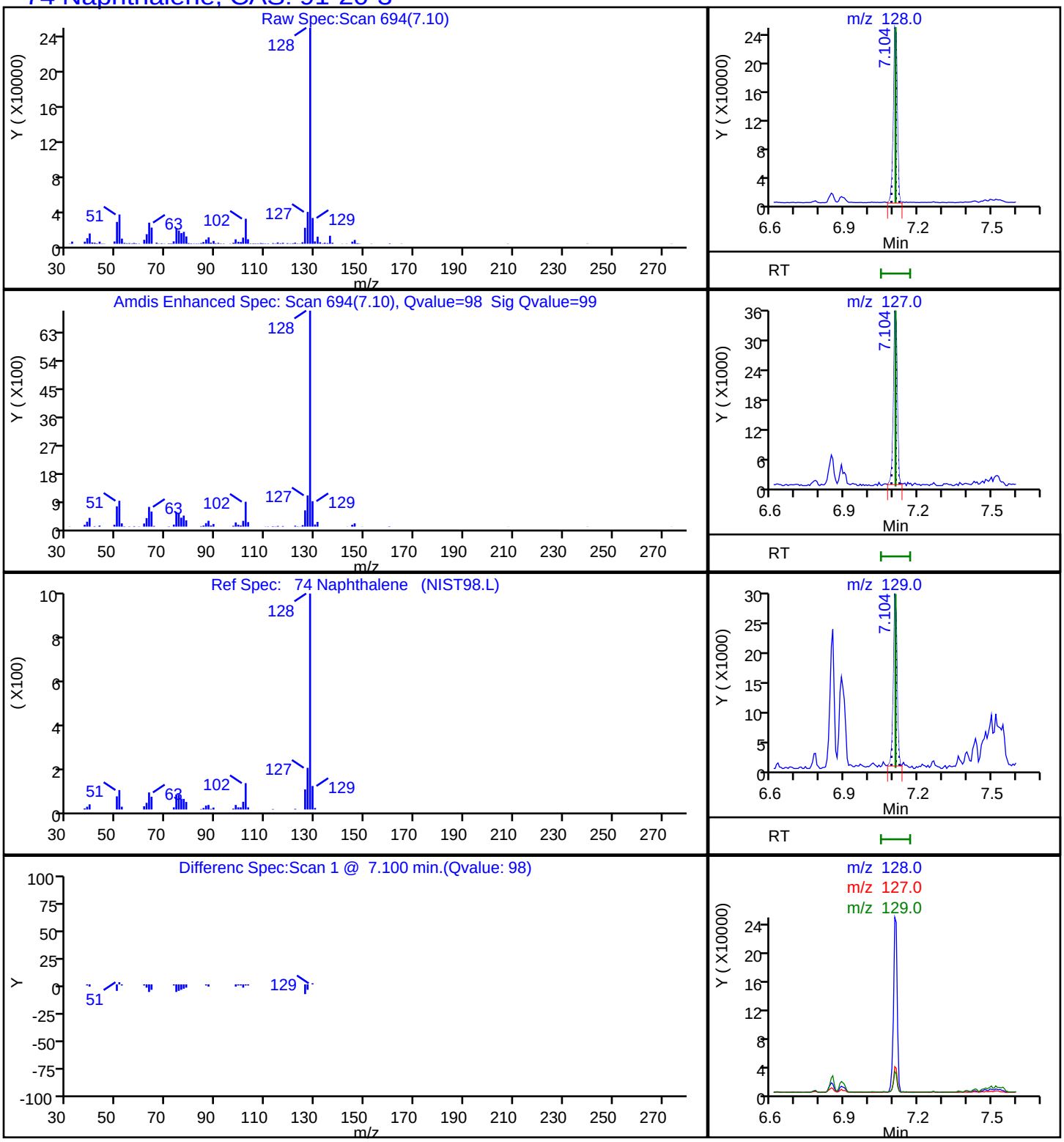


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

74 Naphthalene, CAS: 91-20-3



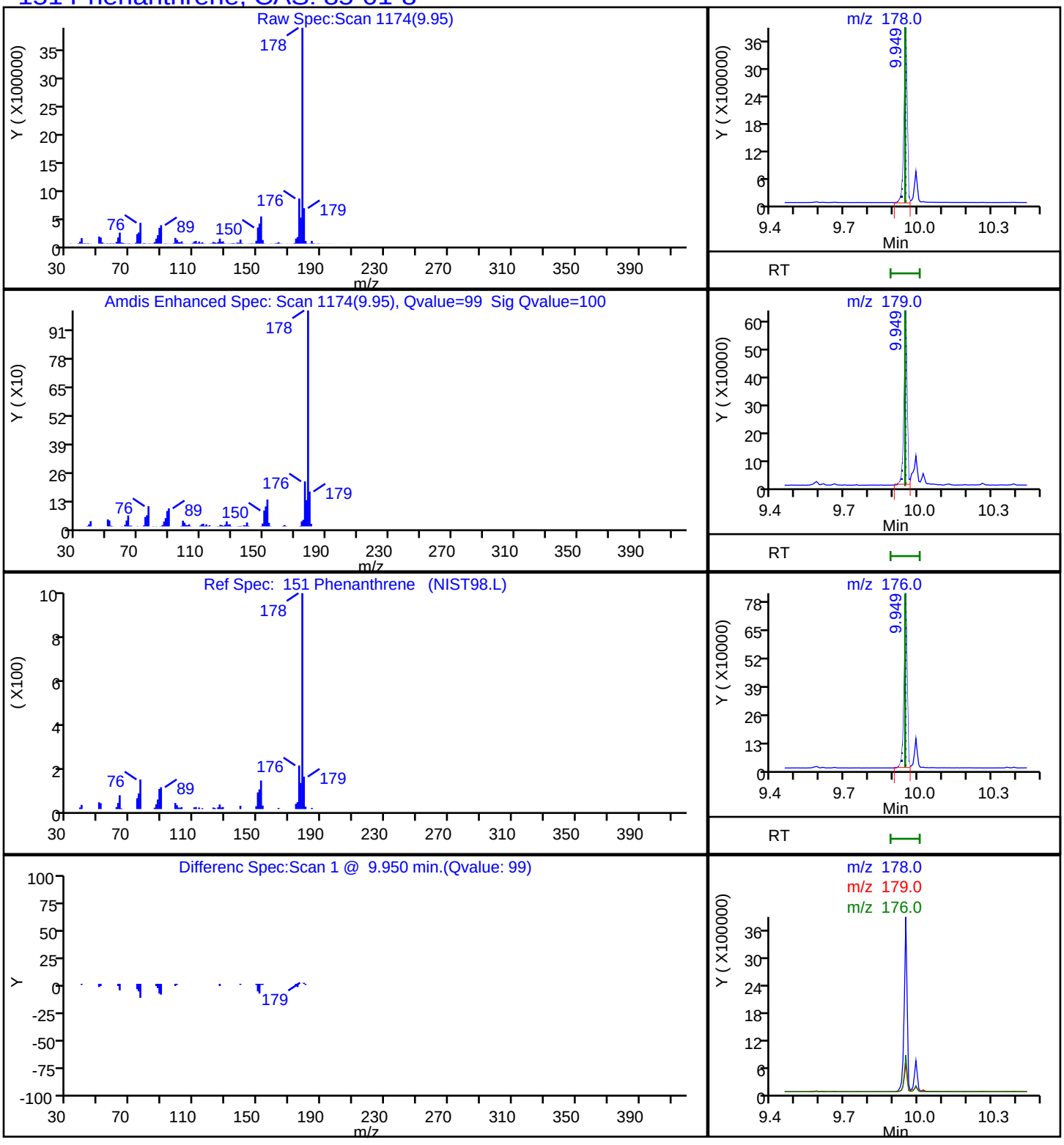
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

151 Phenanthrene, CAS: 85-01-8



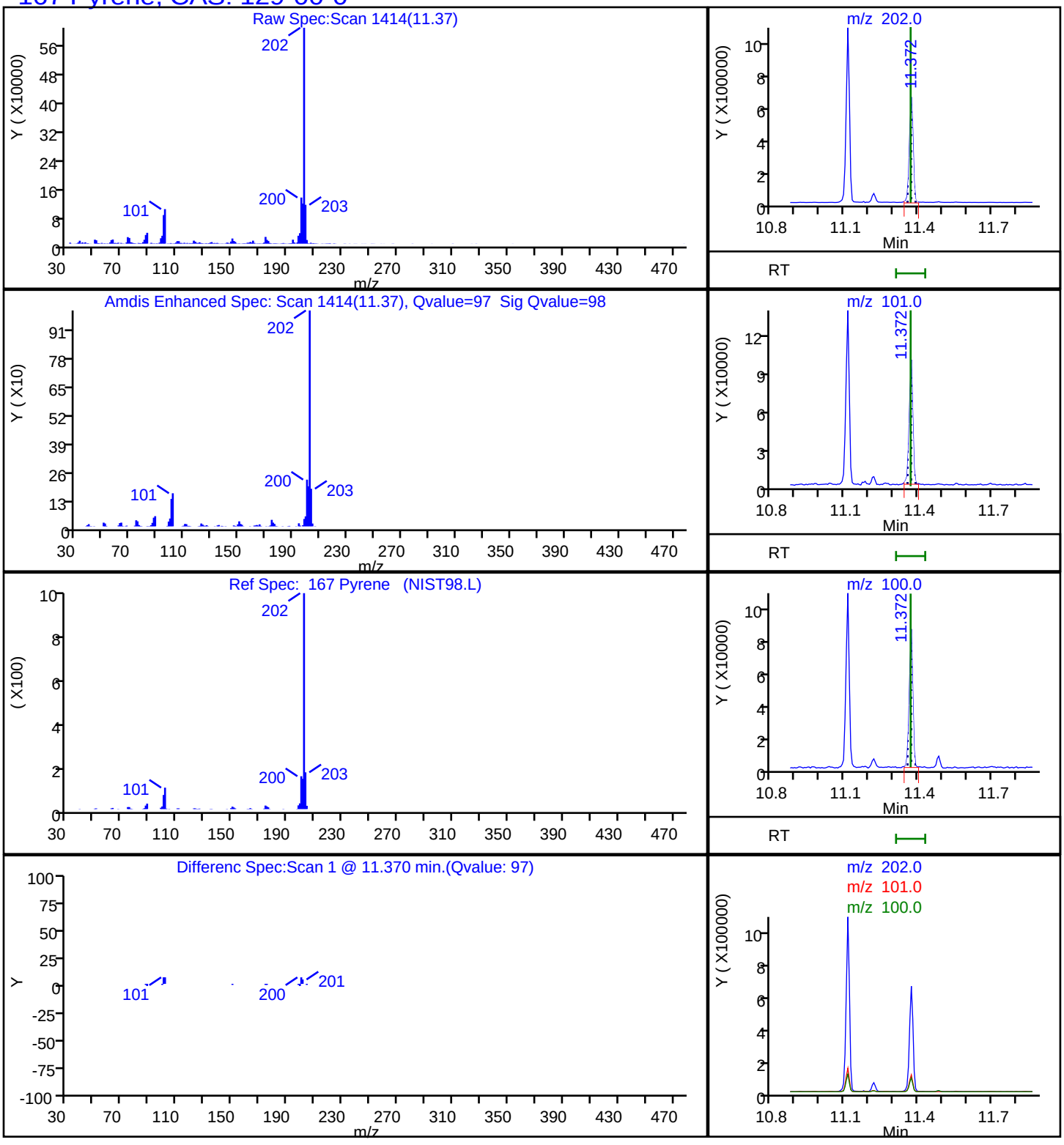
Report Date: 30-Oct-2024 15:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

167 Pyrene, CAS: 129-00-0



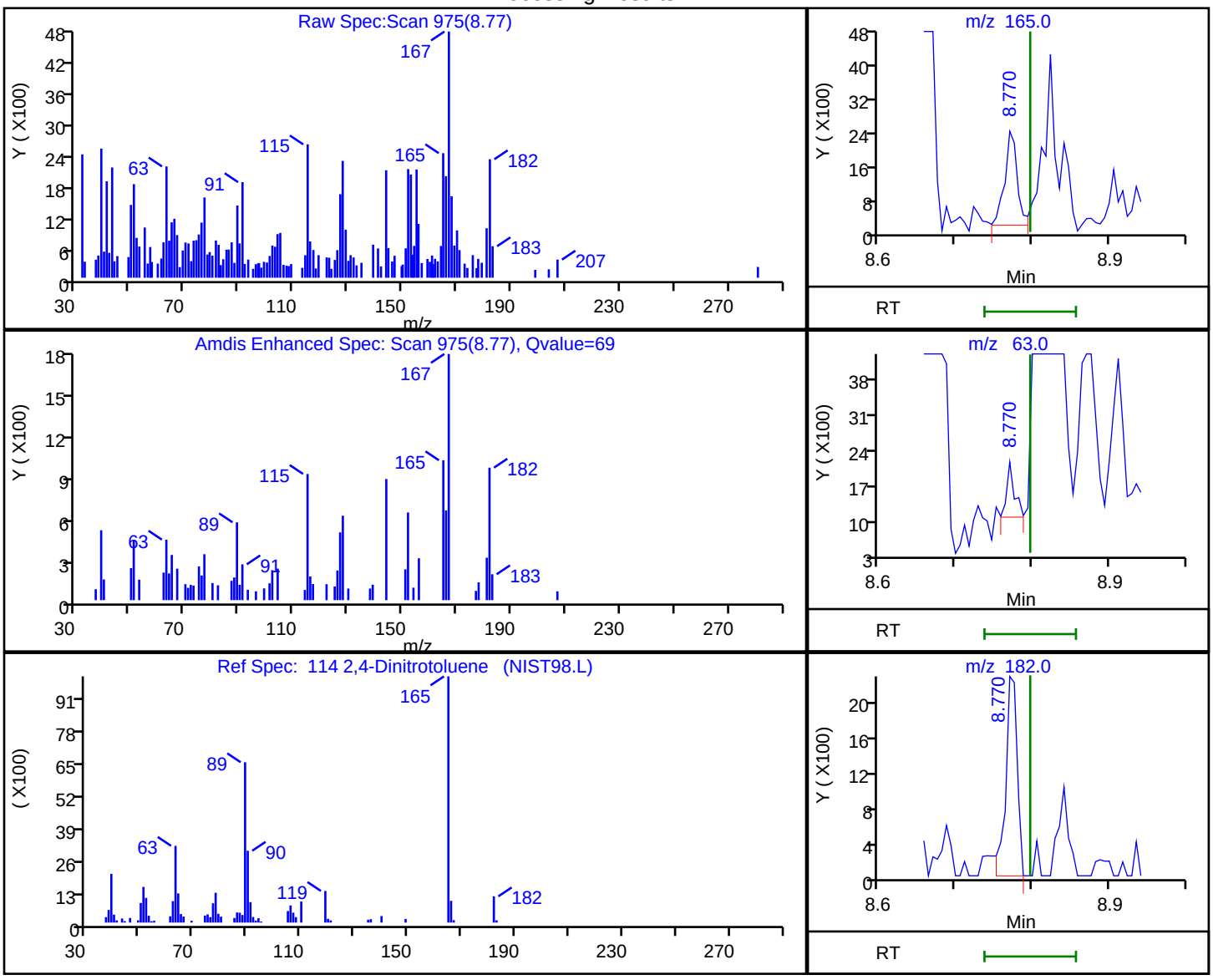
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

114 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
8.77	165.00	2509	0.195132
8.77	63.00	721	
8.77	182.00	2367	

Reviewer: IZ8L, 30-Oct-2024 15:14:08 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

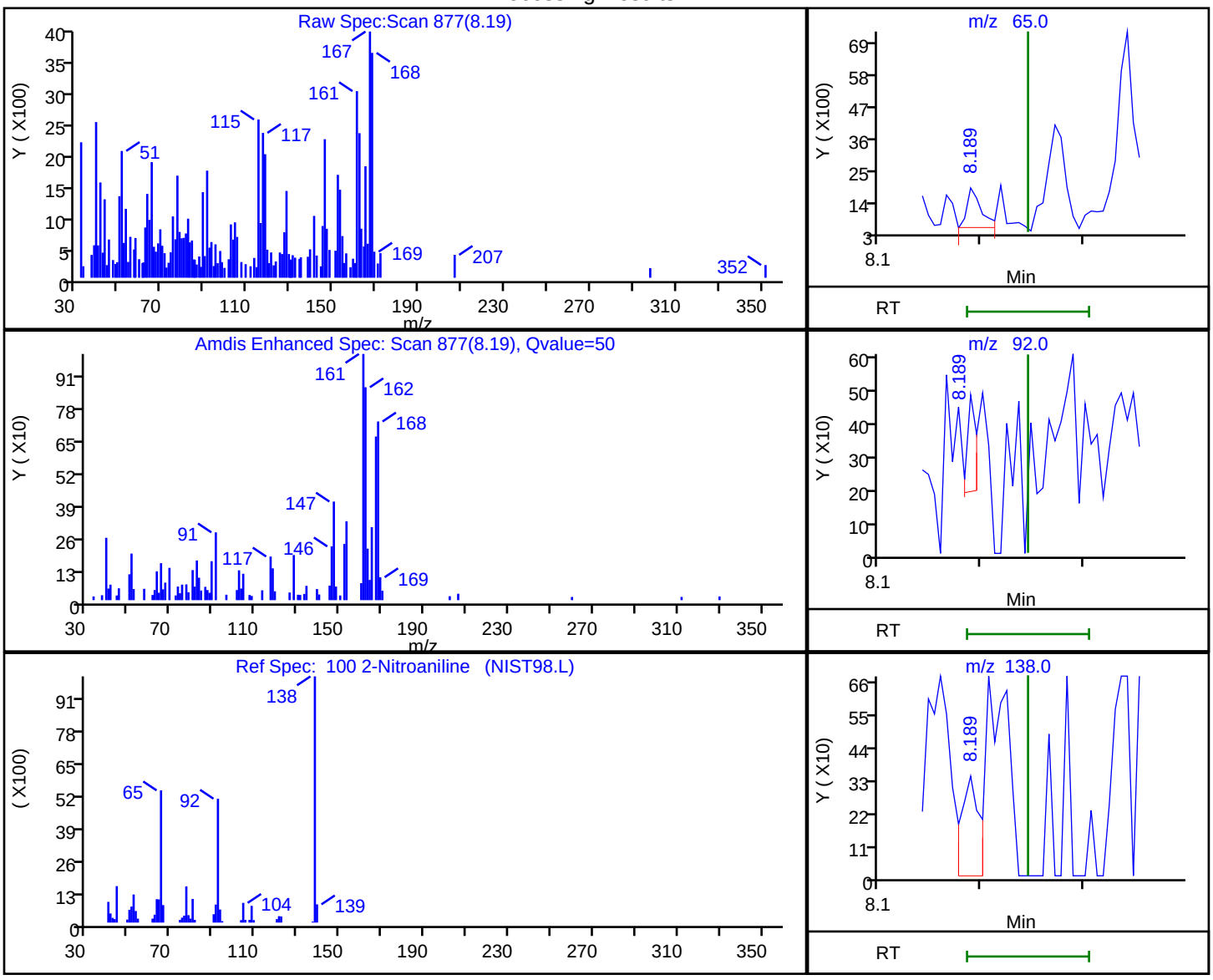
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

100 2-Nitroaniline, CAS: 88-74-4

Processing Results



RT	Mass	Response	Amount
8.19	65.00	1344	0.164287
8.19	92.00	181	
8.19	138.00	417	

Reviewer: IZ8L, 30-Oct-2024 15:14:04 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

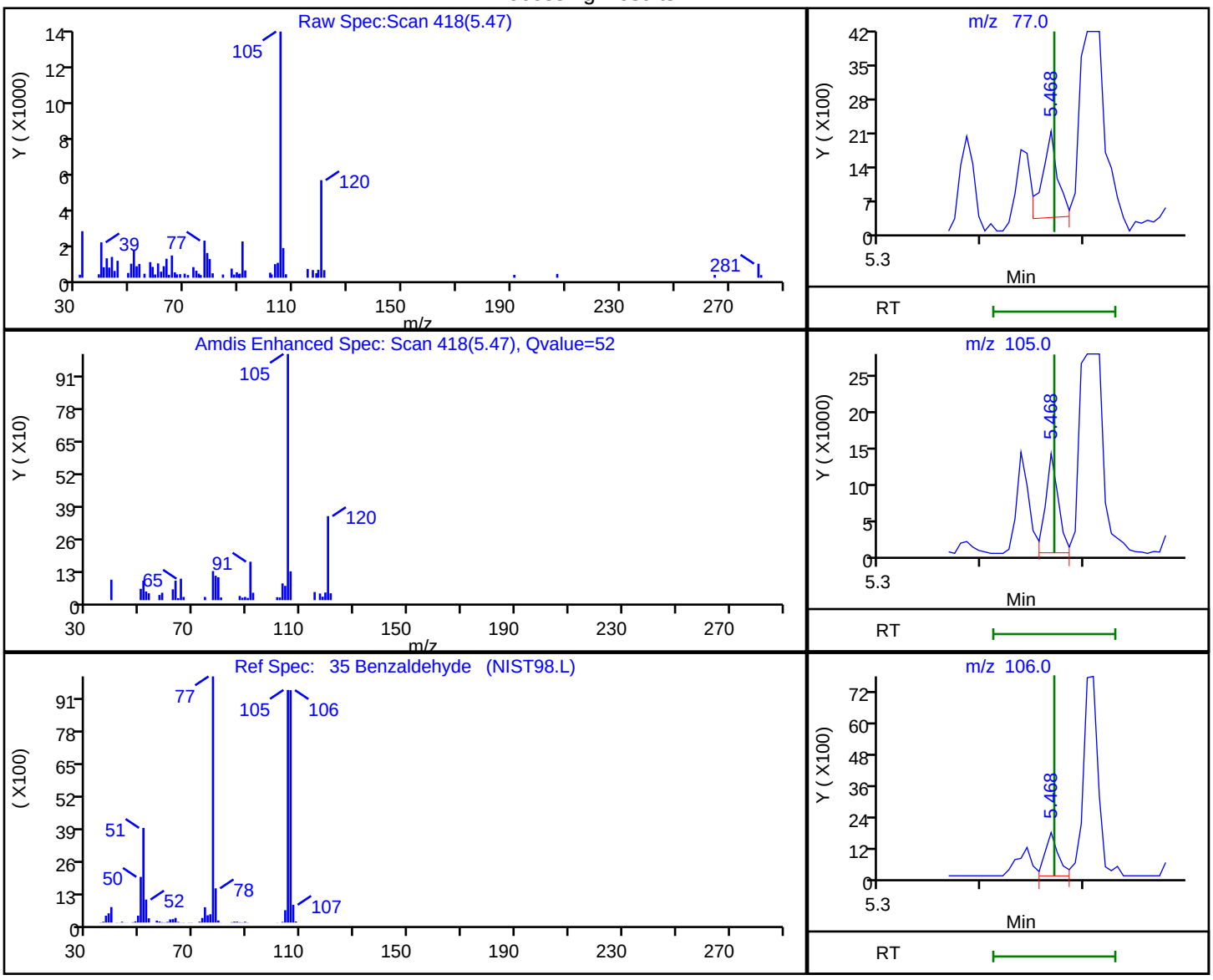
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

35 Benzaldehyde, CAS: 100-52-7

Processing Results



RT	Mass	Response	Amount
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5.47	105.00	12212	
5.47	106.00	1527	

Reviewer: IZ8L, 30-Oct-2024 15:13:51 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

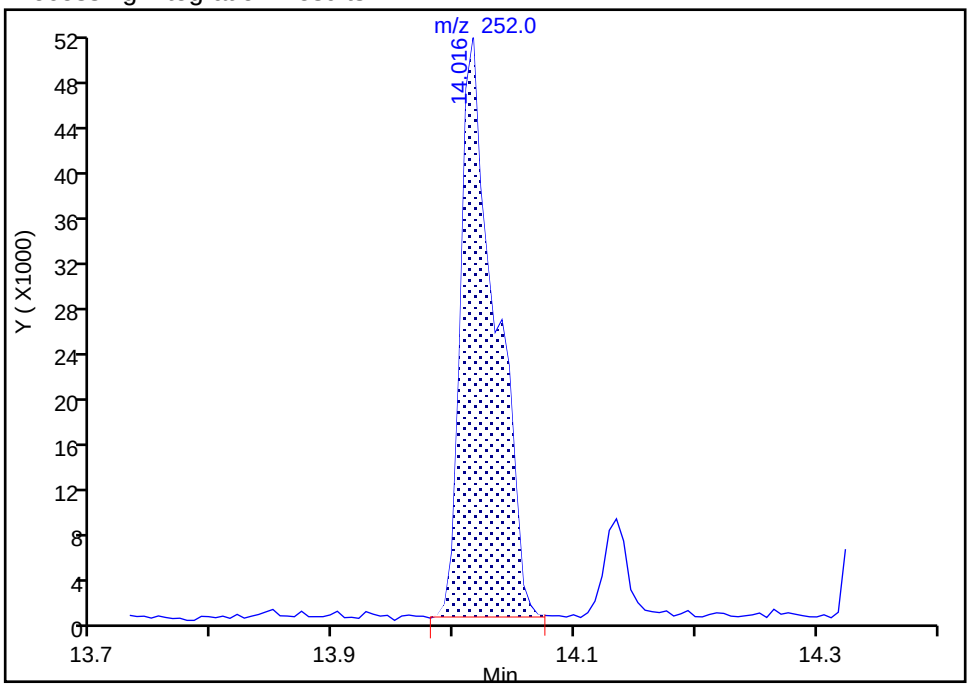
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

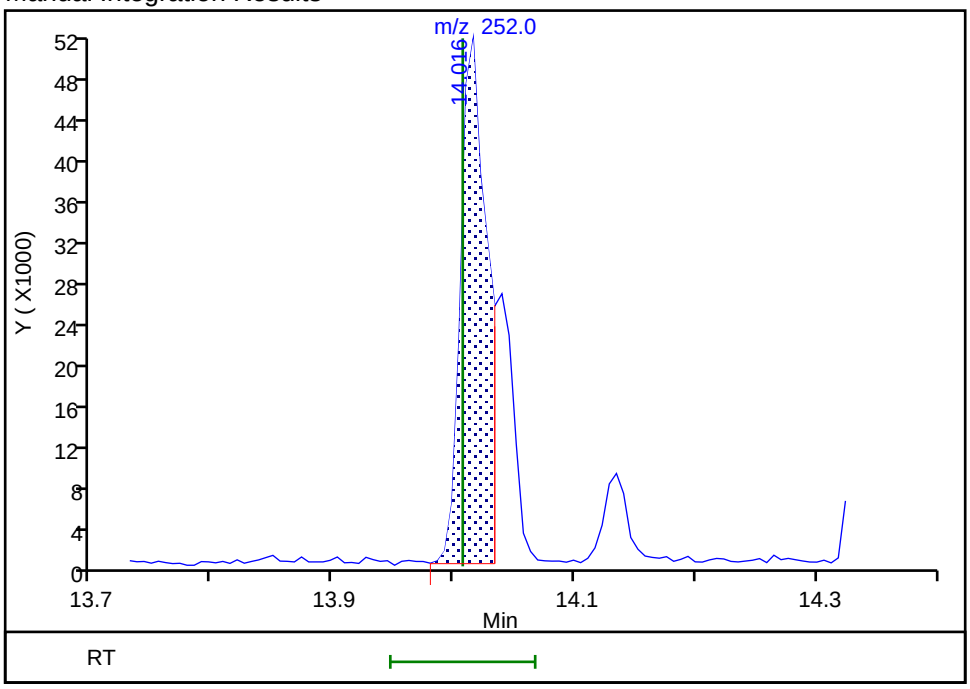
Processing Integration Results

RT: 14.02
Area: 102743
Amount: 0.576754
Amount Units: ng/uL



Manual Integration Results

RT: 14.02
Area: 79502
Amount: 0.450621
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:14:30 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

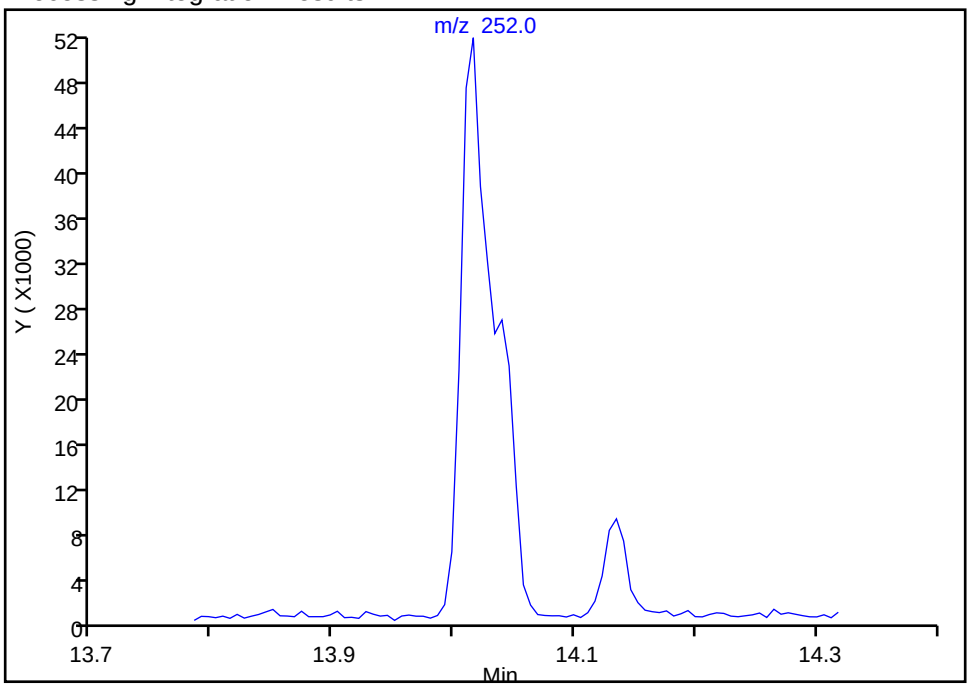
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

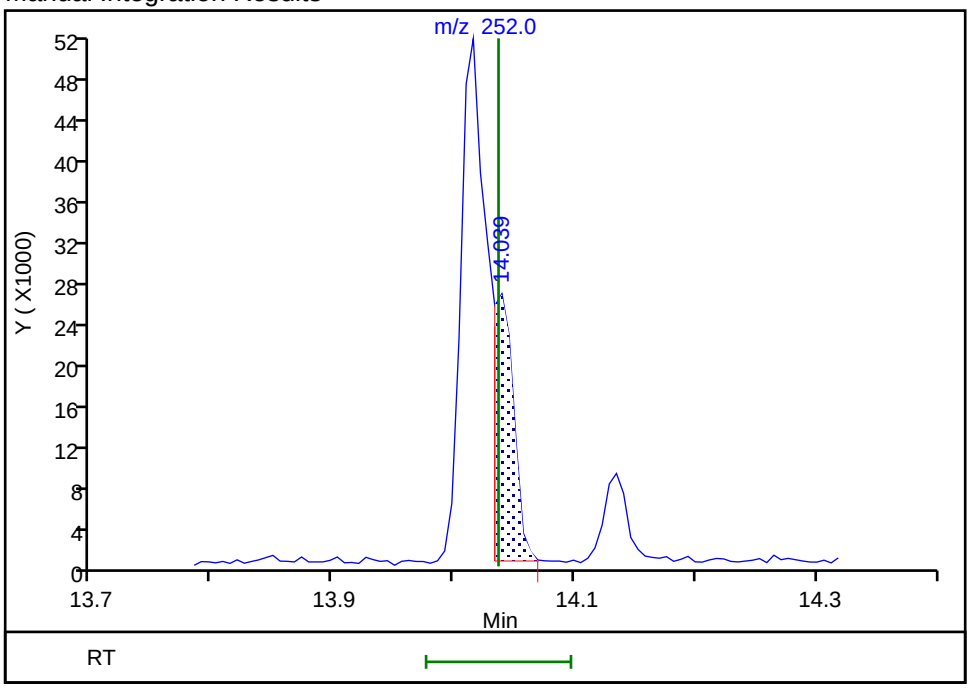
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 31619
Amount: 0.171416
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:14:38 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

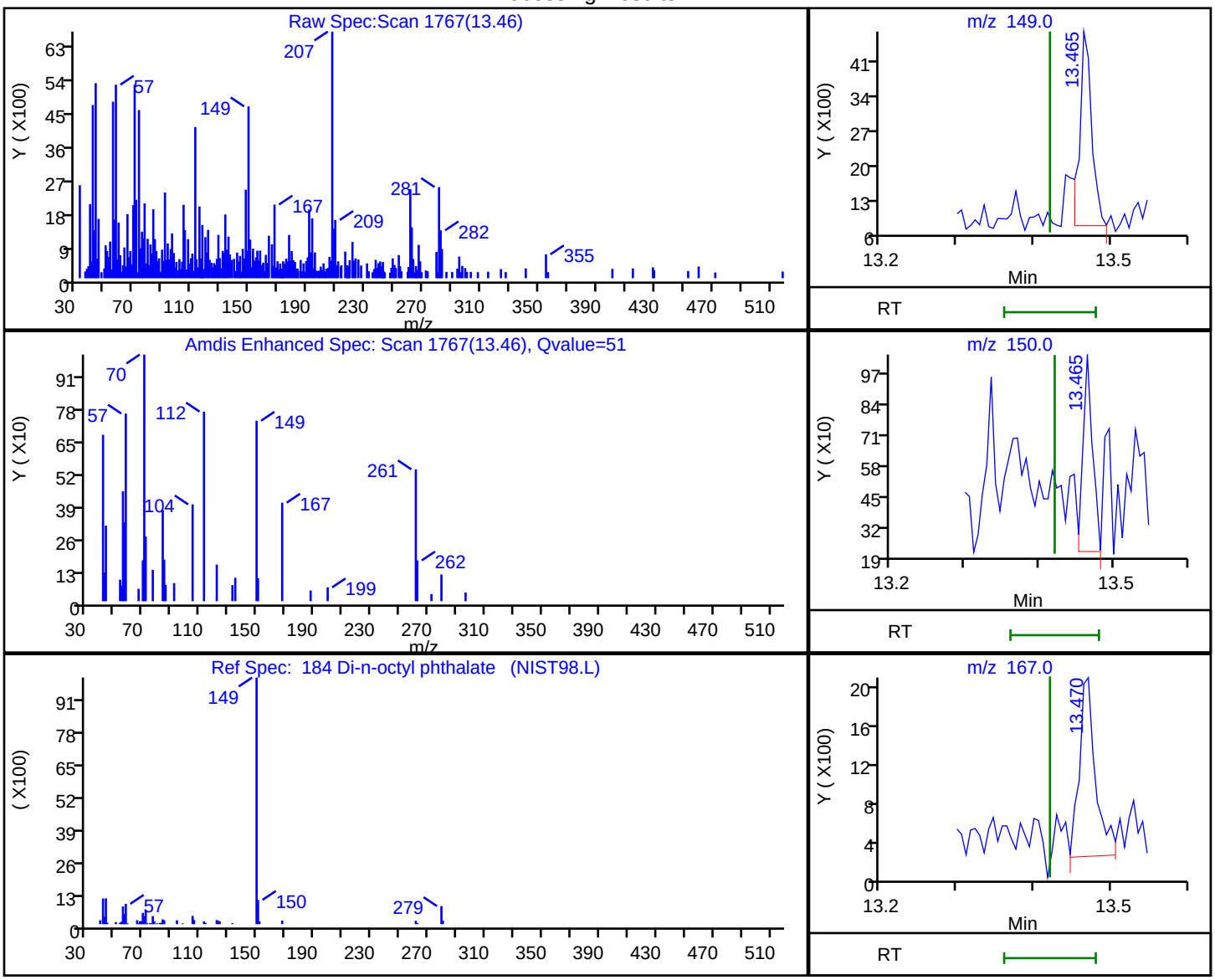
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

184 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
13.46	149.00	4194	0.101032
13.46	150.00	737	
13.47	167.00	2732	

Reviewer: IZ8L, 30-Oct-2024 15:14:23 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

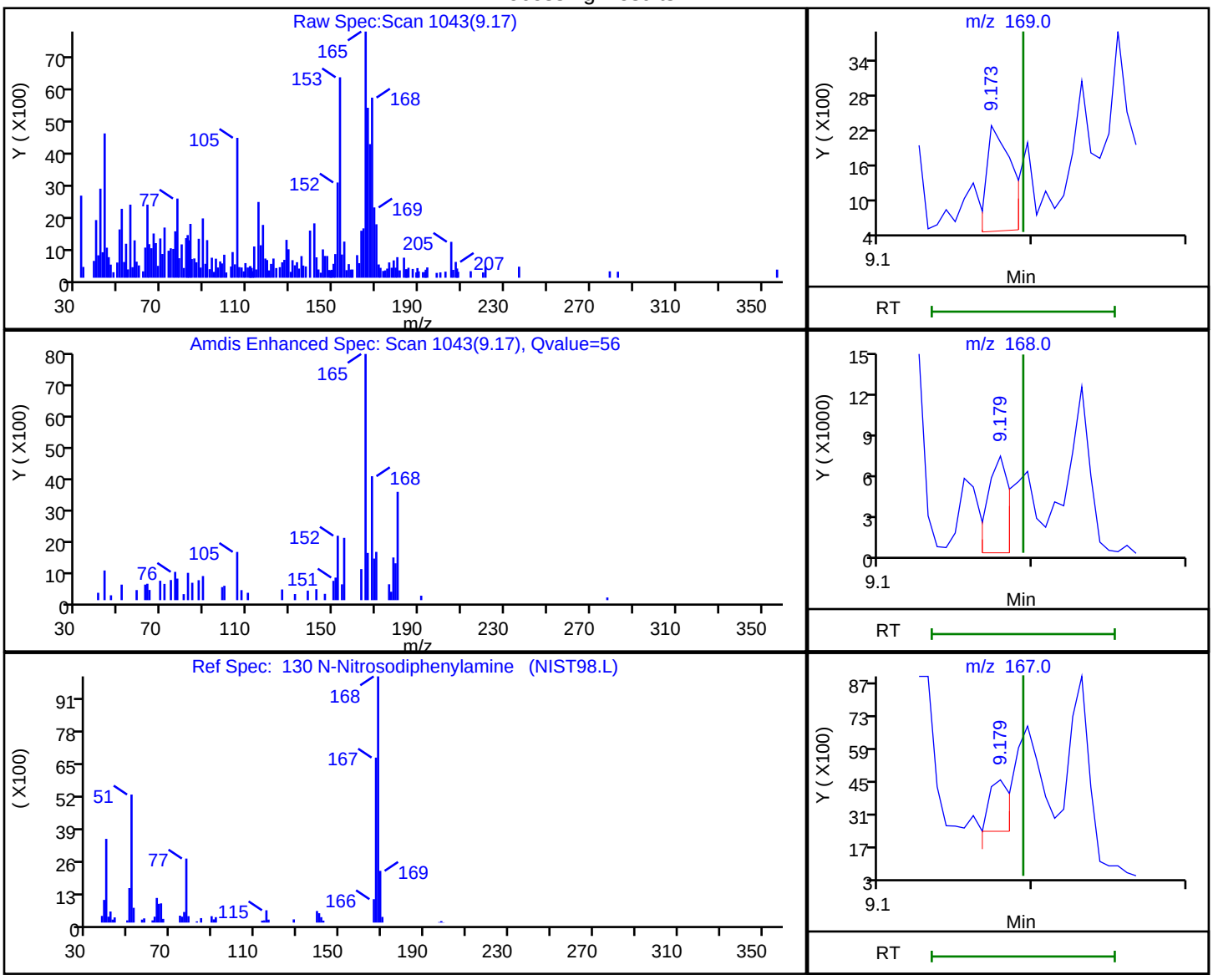
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

130 N-Nitrosodiphenylamine, CAS: 86-30-6

Processing Results



RT	Mass	Response	Amount
9.17	169.00	2030	0.024671
9.18	168.00	6468	
9.18	167.00	2068	

Reviewer: IZ8L, 30-Oct-2024 15:14:13 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

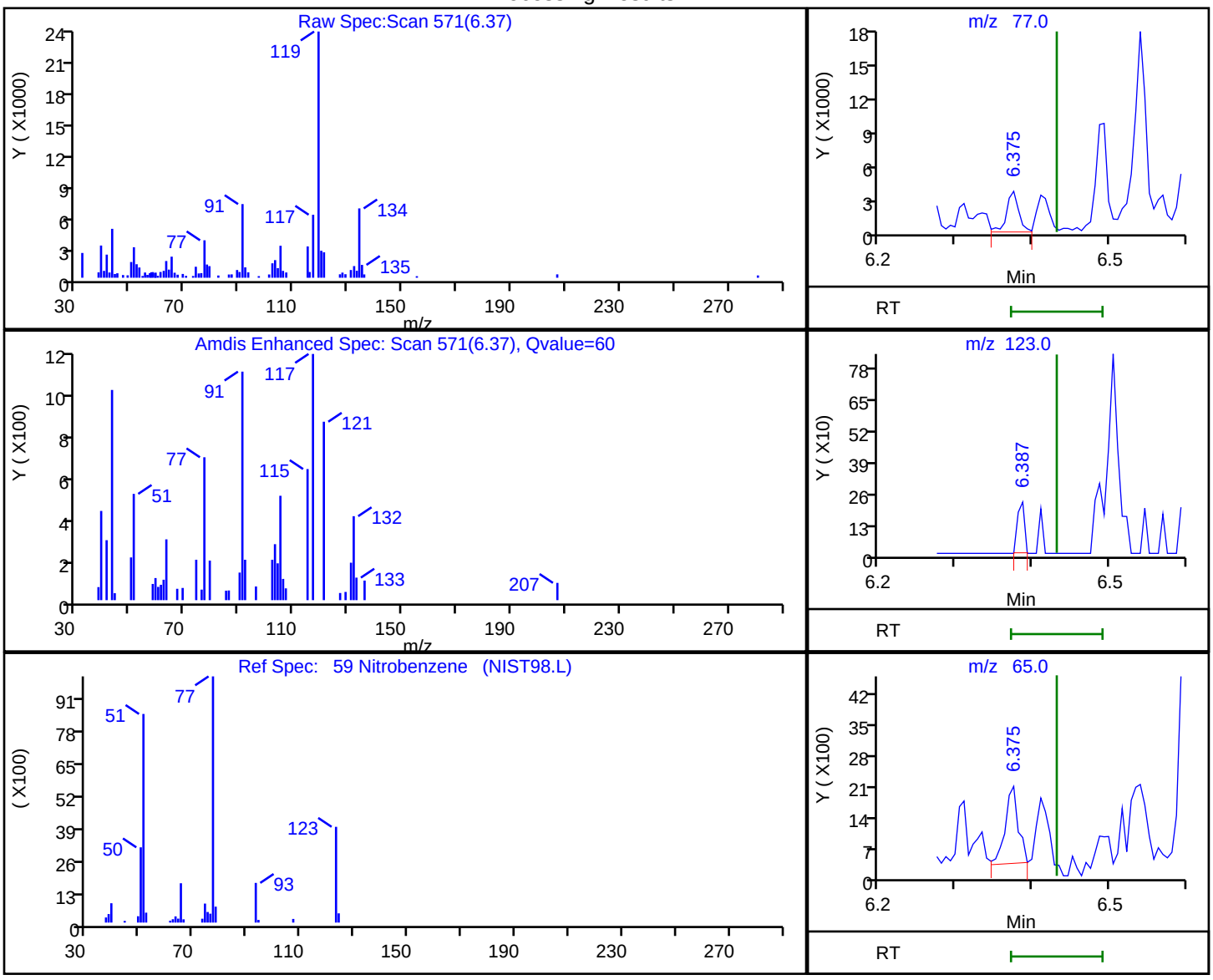
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04596.D				
Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

59 Nitrobenzene, CAS: 98-95-3

Processing Results



RT	Mass	Response	Amount
6.37	77.00	3590	0.063224
6.39	123.00	138	
6.37	65.00	2069	

Reviewer: IZ8L, 30-Oct-2024 15:13:56 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 DL | Lab Sample ID: 480-224869-13 DL

Matrix: Water | Lab File ID: Y04606.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:55

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 12:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	13	J	25	3.3
108-60-1	bis (2-chloroisopropyl) ether	ND		25	2.6
95-95-4	2,4,5-Trichlorophenol	ND		25	2.4
88-06-2	2,4,6-Trichlorophenol	ND		25	3.1
120-83-2	2,4-Dichlorophenol	ND		25	2.6
105-67-9	2,4-Dimethylphenol	ND		25	2.5
51-28-5	2,4-Dinitrophenol	ND		50	11
121-14-2	2,4-Dinitrotoluene	ND		25	2.2
606-20-2	2,6-Dinitrotoluene	ND		25	2.0
91-58-7	2-Chloronaphthalene	ND		25	2.3
95-57-8	2-Chlorophenol	ND		25	2.7
91-57-6	2-Methylnaphthalene	ND		25	3.0
95-48-7	2-Methylphenol	ND		25	2.0
88-74-4	2-Nitroaniline	ND		50	2.1
88-75-5	2-Nitrophenol	ND		25	2.4
91-94-1	3,3'-Dichlorobenzidine	ND		25	2.0
99-09-2	3-Nitroaniline	ND		50	2.4
534-52-1	4,6-Dinitro-2-methylphenol	ND		50	11
101-55-3	4-Bromophenyl phenyl ether	ND		25	2.3
59-50-7	4-Chloro-3-methylphenol	ND		25	2.3
106-47-8	4-Chloroaniline	ND		25	3.0
7005-72-3	4-Chlorophenyl phenyl ether	ND		25	1.8
106-44-5	4-Methylphenol	ND		50	1.8
100-01-6	4-Nitroaniline	ND		50	1.3
100-02-7	4-Nitrophenol	ND	*+	50	7.6
83-32-9	Acenaphthene	8.8	J	25	2.1
208-96-8	Acenaphthylene	49		25	1.9
98-86-2	Acetophenone	ND		25	2.7
120-12-7	Anthracene	14	J	25	1.4
1912-24-9	Atrazine	ND		25	2.3
100-52-7	Benzaldehyde	ND		25	1.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 DL | Lab Sample ID: 480-224869-13 DL

Matrix: Water | Lab File ID: Y04606.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:55

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 12:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	2.5	J	25	1.8
50-32-8	Benzo(a)pyrene	ND		25	2.4
205-99-2	Benzo(b)fluoranthene	2.2	J	25	1.7
191-24-2	Benzo(g,h,i)perylene	ND		25	1.8
207-08-9	Benzo(k)fluoranthene	ND		25	3.7
111-91-1	Bis(2-chloroethoxy)methane	ND		25	1.8
111-44-4	Bis(2-chloroethyl)ether	ND		25	2.0
117-81-7	Bis(2-ethylhexyl) phthalate	ND		25	11
85-68-7	Butyl benzyl phthalate	ND		25	5.0
105-60-2	Caprolactam	ND		25	11
86-74-8	Carbazole	26		25	1.5
218-01-9	Chrysene	2.5	J	25	1.7
84-74-2	Di-n-butyl phthalate	ND		25	1.6
117-84-0	Di-n-octyl phthalate	ND		25	2.4
53-70-3	Dibenz(a,h)anthracene	ND		25	2.1
132-64-9	Dibenzofuran	45	J	50	2.6
84-66-2	Diethyl phthalate	ND		25	1.1
131-11-3	Dimethyl phthalate	ND		25	1.8
206-44-0	Fluoranthene	23	J	25	2.0
86-73-7	Fluorene	63		25	1.8
118-74-1	Hexachlorobenzene	ND		25	2.6
87-68-3	Hexachlorobutadiene	ND		25	3.4
77-47-4	Hexachlorocyclopentadiene	ND		25	3.0
67-72-1	Hexachloroethane	ND		25	3.0
193-39-5	Indeno(1,2,3-cd)pyrene	ND		25	2.4
78-59-1	Isophorone	ND		25	2.2
621-64-7	N-Nitrosodi-n-propylamine	ND		25	2.7
86-30-6	N-Nitrosodiphenylamine	ND		25	2.6
91-20-3	Naphthalene	6.6	J	25	3.8
98-95-3	Nitrobenzene	ND		25	1.5
87-86-5	Pentachlorophenol	ND		50	11

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19B-10252024 DL | Lab Sample ID: 480-224869-13 DL

Matrix: Water | Lab File ID: Y04606.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:55

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 12:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	79		25	2.2
108-95-2	*Phenol*	*ND*		*25*	*2.0*
129-00-0	*Pyrene*	*15*	*J*	*25*	*1.7*

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	83		25-144
321-60-8	2-Fluorobiphenyl	86		53-126
367-12-4	2-Fluorophenol	67		24-120
4165-60-0	Nitrobenzene-d5	94		29-129
1718-51-0	p-Terphenyl-d14	69		33-132
4165-62-2	Phenol-d5	49		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D
Lims ID: 480-224869-A-13-A
Client ID: MW-BCP-19B-10252024
Sample Type: Client
Inject. Date: 30-Oct-2024 12:07:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Sample Info: 480-0120914-007
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:01:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.885	5.883	0.002	96	152701	4.00	
* 2 Naphthalene-d8	136	7.089	7.086	0.003	99	578547	4.00	
* 3 Acenaphthene-d10	164	8.648	8.651	-0.003	94	328376	4.00	
* 4 Phenanthrene-d10	188	9.922	9.926	-0.004	97	513338	4.00	
* 5 Chrysene-d12	240	12.773	12.777	-0.004	99	456316	4.00	
* 6 Perylene-d12	264	14.463	14.460	0.003	97	509986	4.00	
$ 7 2-Fluorophenol	112	4.652	4.638	0.014	93	50813	1.08	
$ 8 Phenol-d5	99	5.530	5.521	0.009	87	45661	0.7855	
$ 9 Nitrobenzene-d5	82	6.413	6.410	0.003	98	81193	1.50	
$ 10 2-Fluorobiphenyl	172	8.037	8.035	0.002	99	155271	1.38	
$ 11 2,4,6-Tribromophenol	330	9.329	9.327	0.002	79	15142	1.33	
$ 12 p-Terphenyl-d14	244	11.481	11.485	-0.004	97	136125	1.10	
35 Benzaldehyde	77		5.474				ND	U
37 Phenol	94		5.533				ND	
39 Bis(2-chloroethyl)ether	93		5.604				ND	
40 2-Chlorophenol	128		5.699				ND	
48 2-Methylphenol	108		6.108				ND	
49 2,2'-oxybis[1-chloropropane]	45		6.120				ND	
53 N-Nitrosodi-n-propylamine	70		6.244				ND	
57 4-Methylphenol	108	6.265	6.256	0.009	75	1565	0.0336	
52 Acetophenone	105		6.262				ND	U
58 Hexachloroethane	117		6.375				ND	
59 Nitrobenzene	77		6.434				ND	
62 Isophorone	82		6.647				ND	
64 2-Nitrophenol	139		6.730				ND	
66 2,4-Dimethylphenol	107		6.748				ND	
69 Bis(2-chloroethoxy)methane	93		6.819				ND	
72 2,4-Dichlorophenol	162		6.962				ND	
74 Naphthalene	128	7.107	7.110	-0.003	97	50712	0.3318	
76 4-Chloroaniline	127		7.145				ND	
79 Hexachlorobutadiene	225		7.205				ND	
84 Caprolactam	113		7.466				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.578				ND	
87 2-Methylnaphthalene	142	7.729	7.726	0.003	82	4443	0.0471	
90 Hexachlorocyclopentadiene	237		7.869				ND	
93 2,4,6-Trichlorophenol	196		7.981				ND	
94 2,4,5-Trichlorophenol	196		8.023				ND	
96 1,1'-Biphenyl	154	8.132	8.129	0.003	97	81224	0.6742	
97 2-Chloronaphthalene	162		8.165				ND	
100 2-Nitroaniline	65		8.248				ND	
105 Dimethyl phthalate	163		8.372				ND	
107 2,6-Dinitrotoluene	165		8.438				ND	
108 Acenaphthylene	152	8.529	8.533	-0.003	98	357498	2.46	
109 3-Nitroaniline	138		8.598				ND	
110 Acenaphthene	153	8.677	8.681	-0.004	95	42752	0.4390	
111 2,4-Dinitrophenol	184		8.693				ND	
112 4-Nitrophenol	109		8.752				ND	
114 2,4-Dinitrotoluene	165		8.799				ND	U
115 Dibenzofuran	168	8.820	8.823	-0.003	95	293336	2.23	
120 Diethyl phthalate	149		8.965				ND	
123 4-Chlorophenyl phenyl ether	204		9.090				ND	
124 Fluorene	166	9.116	9.119	-0.003	94	348436	3.14	
126 4-Nitroaniline	138		9.131				ND	
127 4,6-Dinitro-2-methylphenol	198		9.155				ND	
130 N-Nitrosodiphenylamine	169		9.190				ND	
139 4-Bromophenyl phenyl ether	248		9.511				ND	
140 Hexachlorobenzene	284		9.605				ND	
143 Atrazine	200		9.617				ND	
145 Pentachlorophenol	266		9.765				ND	
151 Phenanthrene	178	9.946	9.943	0.003	98	557106	3.93	
152 Anthracene	178	9.987	9.991	-0.004	98	101182	0.7126	
153 Carbazole	167	10.118	10.121	-0.003	97	165684	1.31	
157 Di-n-butyl phthalate	149	10.355	10.358	-0.003	54	1296	0.007985	
164 Fluoranthene	202	11.108	11.111	-0.003	98	171639	1.14	
167 Pyrene	202	11.369	11.372	-0.003	97	111505	0.7297	
174 Butyl benzyl phthalate	149		12.006				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.664				ND	
179 3,3'-Dichlorobenzidine	252		12.700				ND	
180 Benzo[a]anthracene	228	12.762	12.765	-0.003	97	19650	0.1258	
182 Chrysene	228	12.803	12.806	-0.003	96	18030	0.1263	
184 Di-n-octyl phthalate	149		13.417				ND	
186 Benzo[b]fluoranthene	252	14.012	14.010	0.002	96	14945	0.1106	M
187 Benzo[k]fluoranthene	252	14.030	14.039	-0.009	1	8084	0.0494	Ma
189 Benzo[a]pyrene	252	14.404	14.395	0.009	75	10754	0.0963	
194 Dibenz(a,h)anthracene	278		15.936				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.948				ND	
195 Benzo[g,h,i]perylene	276	16.425	16.393	0.032	67	5749	0.0574	

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D
Lims ID: 480-224869-A-13-A
Client ID: MW-BCP-19B-10252024
Sample Type: Client
Inject. Date: 30-Oct-2024 12:07:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Sample Info: 480-0120914-007
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:01:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	1.08	67.50
$ 8 Phenol-d5	8.00	0.7855	49.10
$ 9 Nitrobenzene-d5	8.00	1.50	93.57
$ 10 2-Fluorobiphenyl	8.00	1.38	85.98
$ 11 2,4,6-Tribromophenol	8.00	1.33	83.21
$ 12 p-Terphenyl-d14	8.00	1.10	68.78

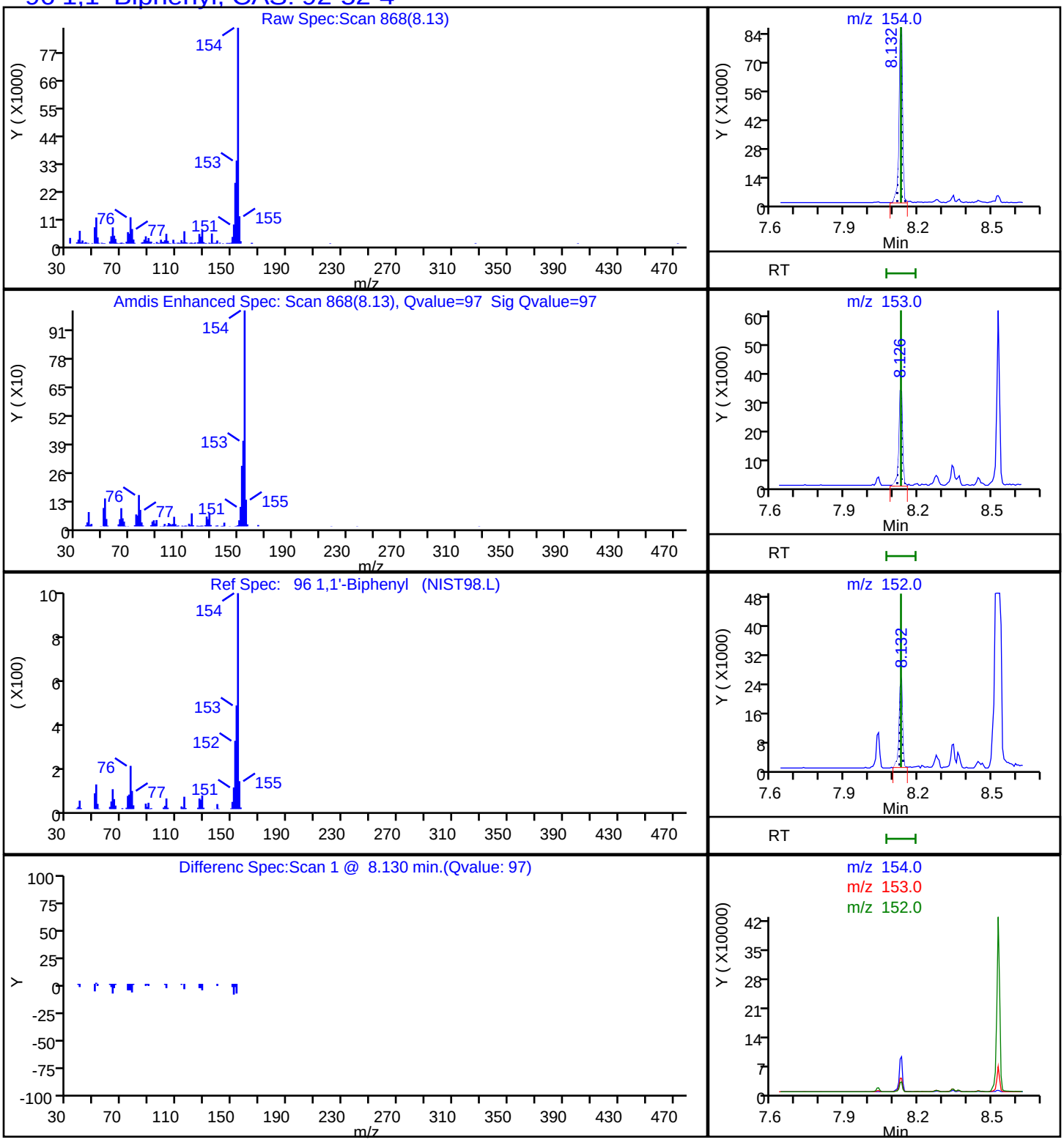
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

96 1,1'-Biphenyl, CAS: 92-52-4



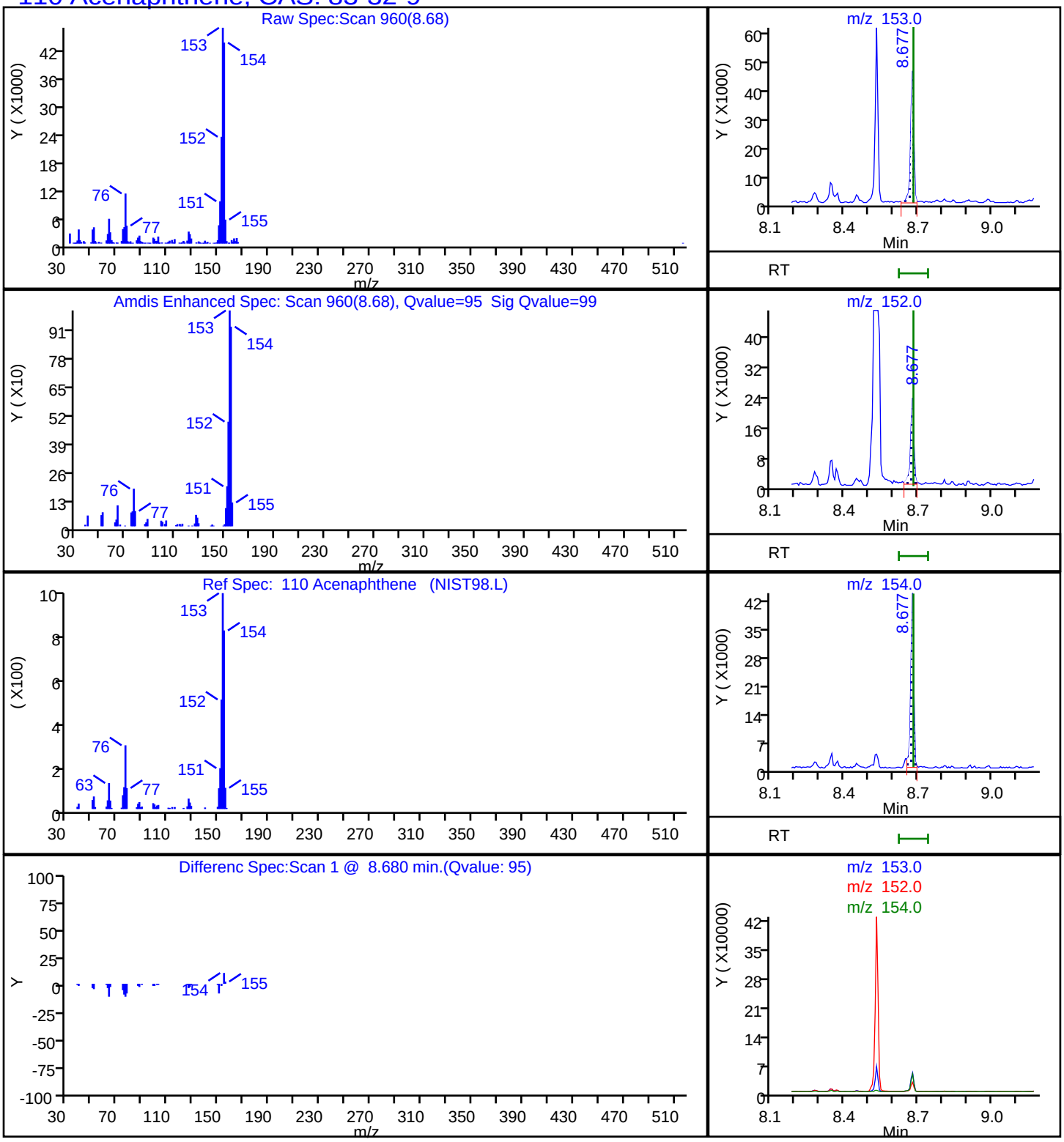
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

110 Acenaphthene, CAS: 83-32-9



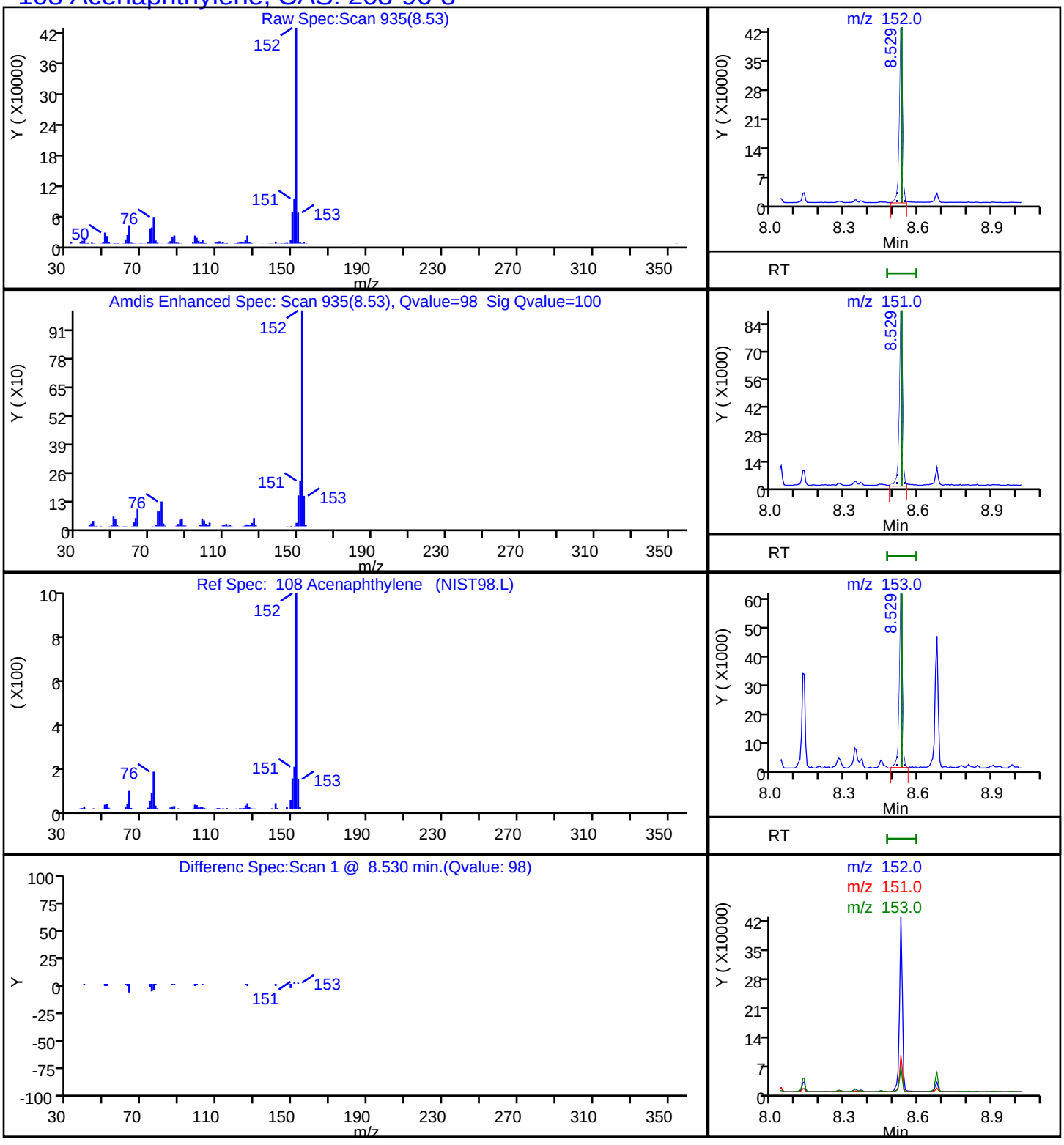
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

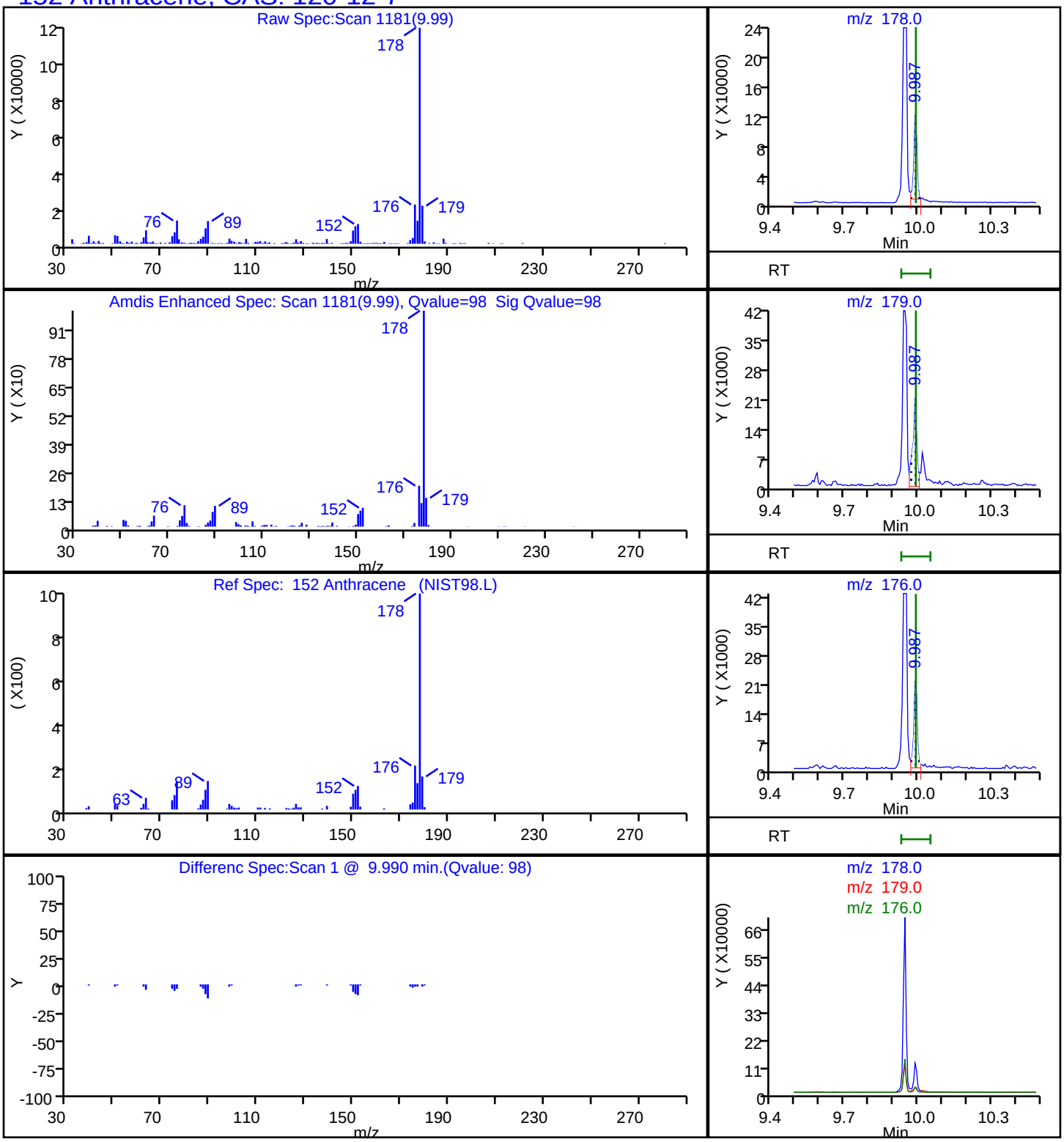
108 Acenaphthylene, CAS: 208-96-8



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D
Injection Date: 30-Oct-2024 12:07:30 Instrument ID: HP5973Y
Lims ID: 480-224869-A-13-A Lab Sample ID: 480-224869-13
Client ID: MW-BCP-19B-10252024
Operator ID: JM ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

152 Anthracene, CAS: 120-12-7



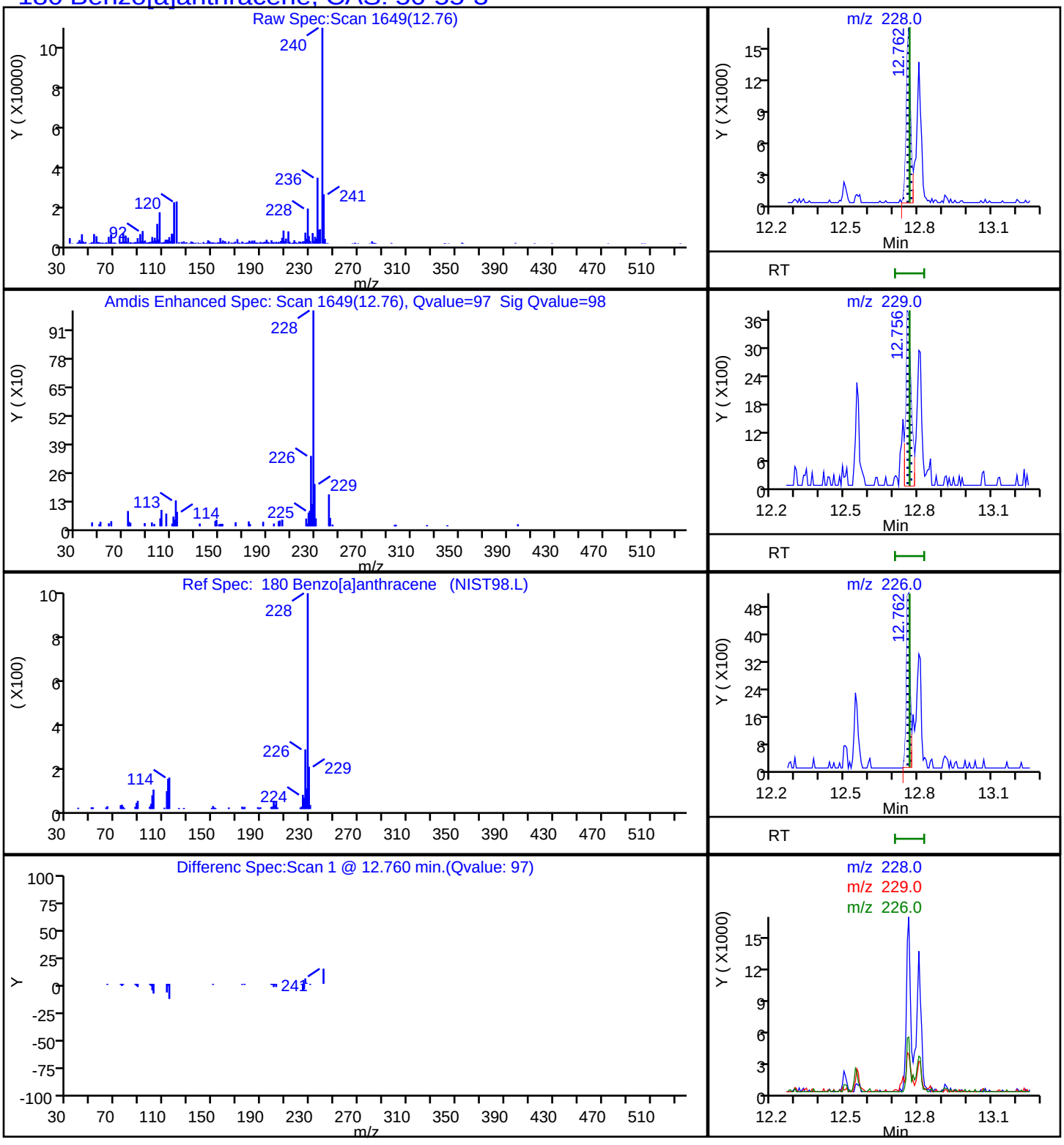
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

180 Benzo[a]anthracene, CAS: 56-55-3



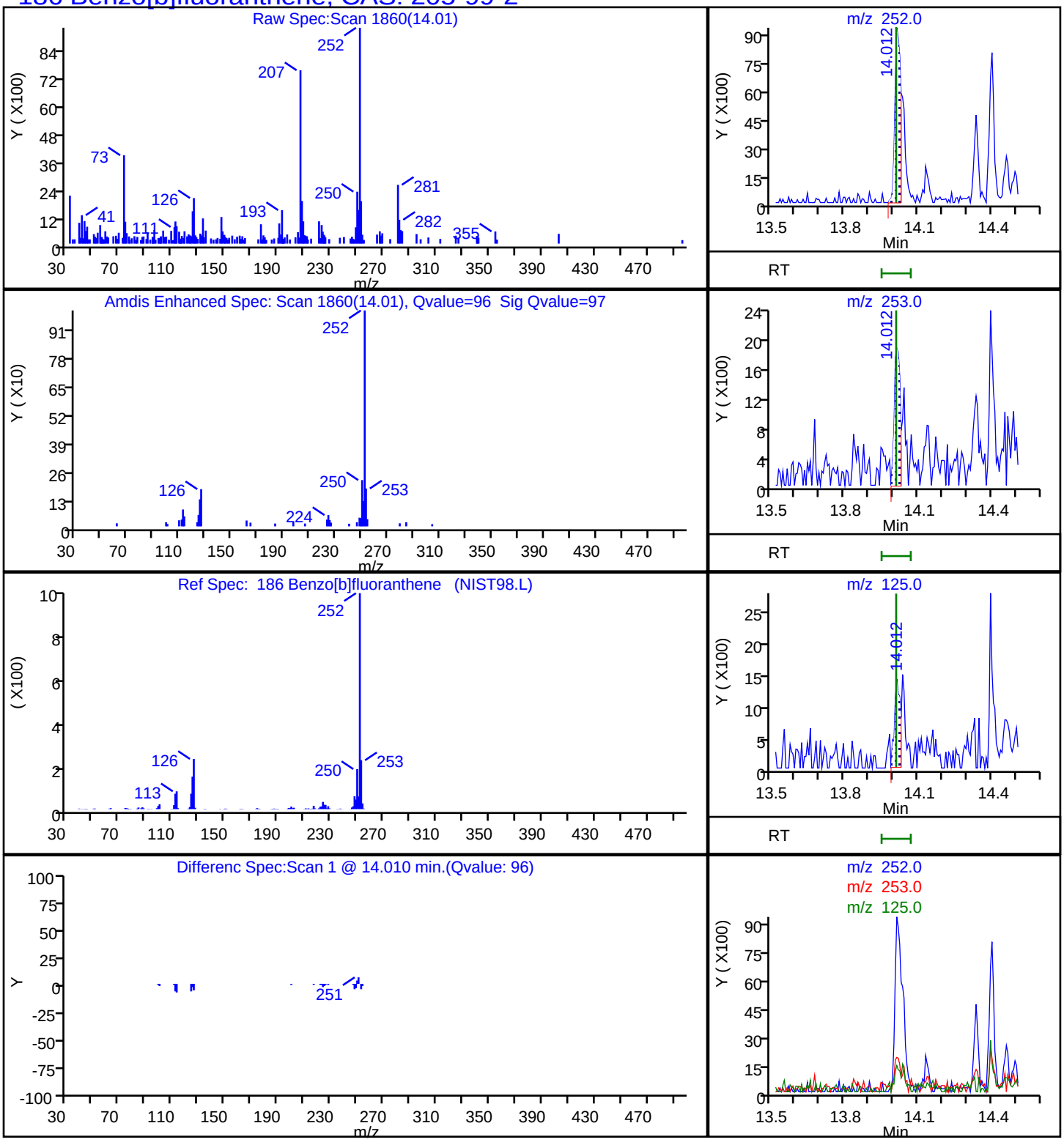
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2



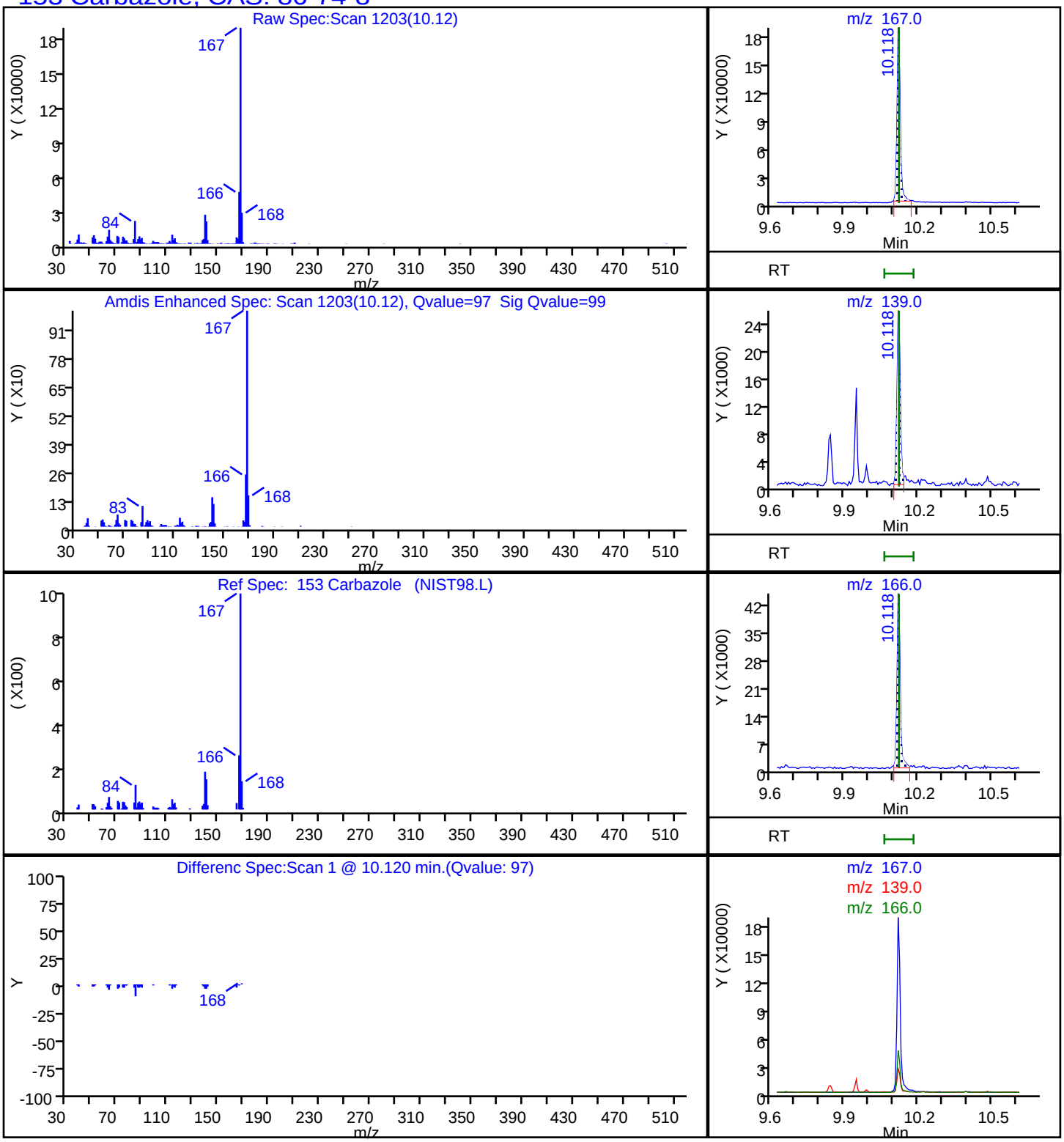
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

153 Carbazole, CAS: 86-74-8



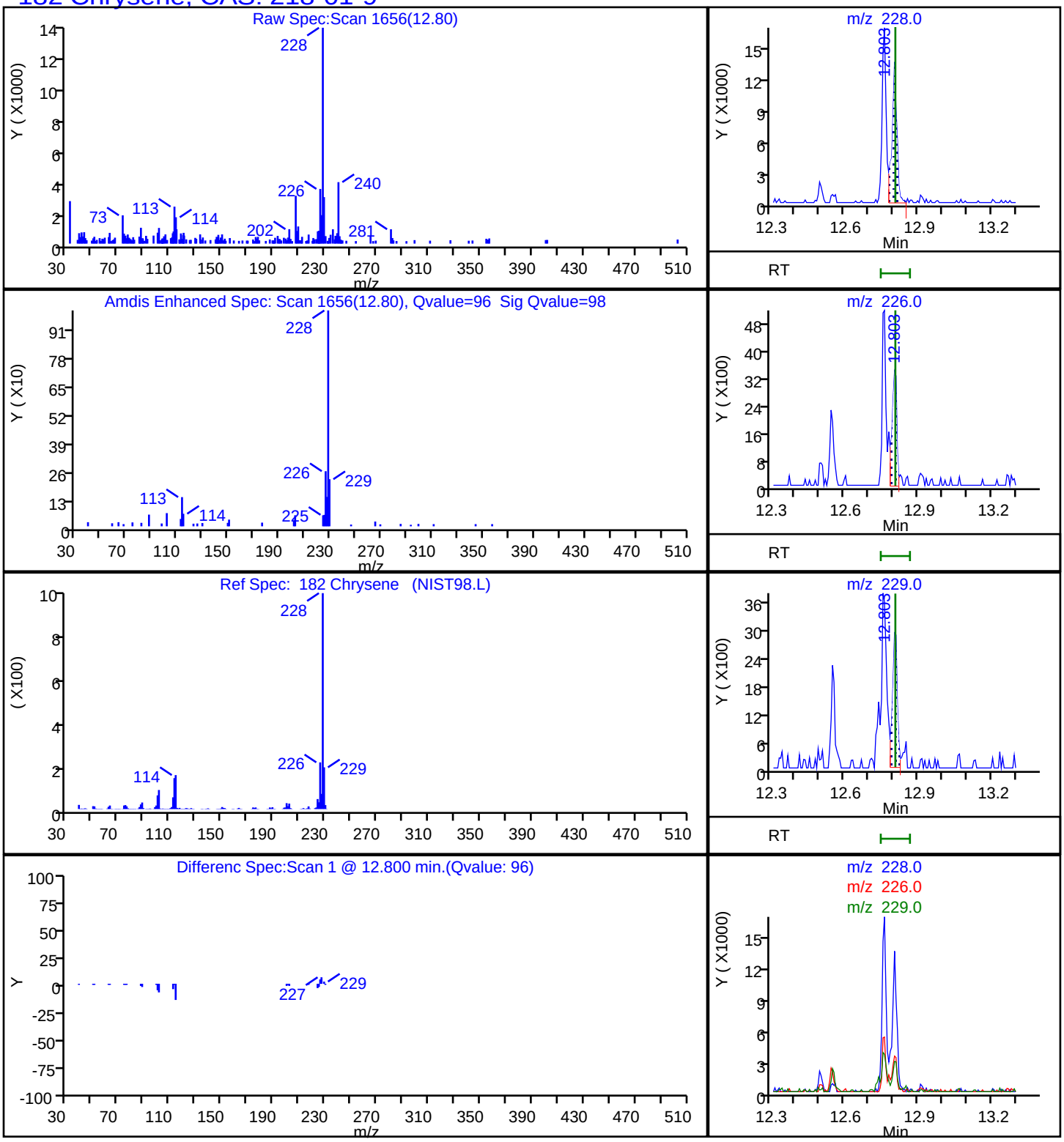
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

182 Chrysene, CAS: 218-01-9



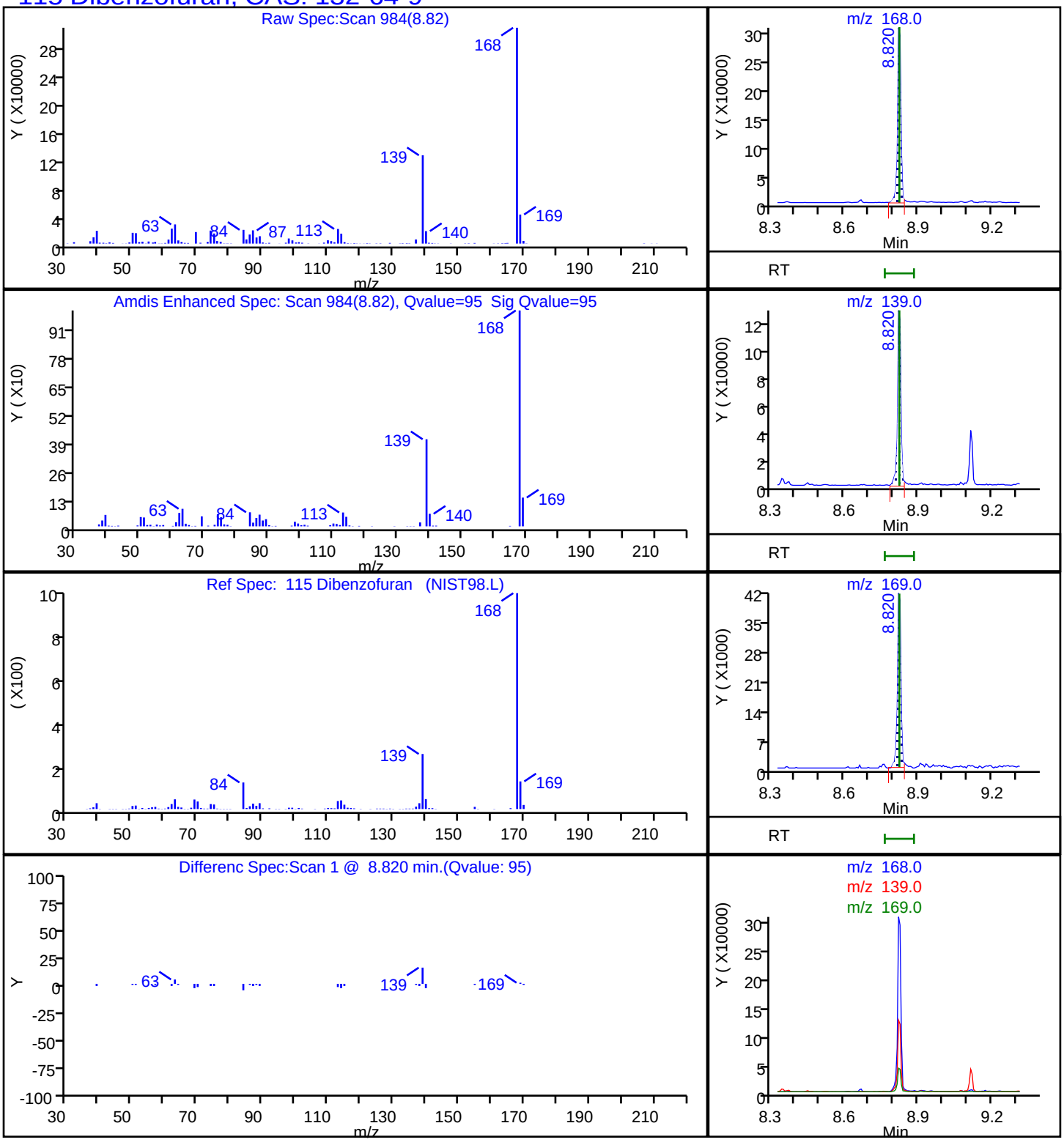
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

115 Dibenzofuran, CAS: 132-64-9



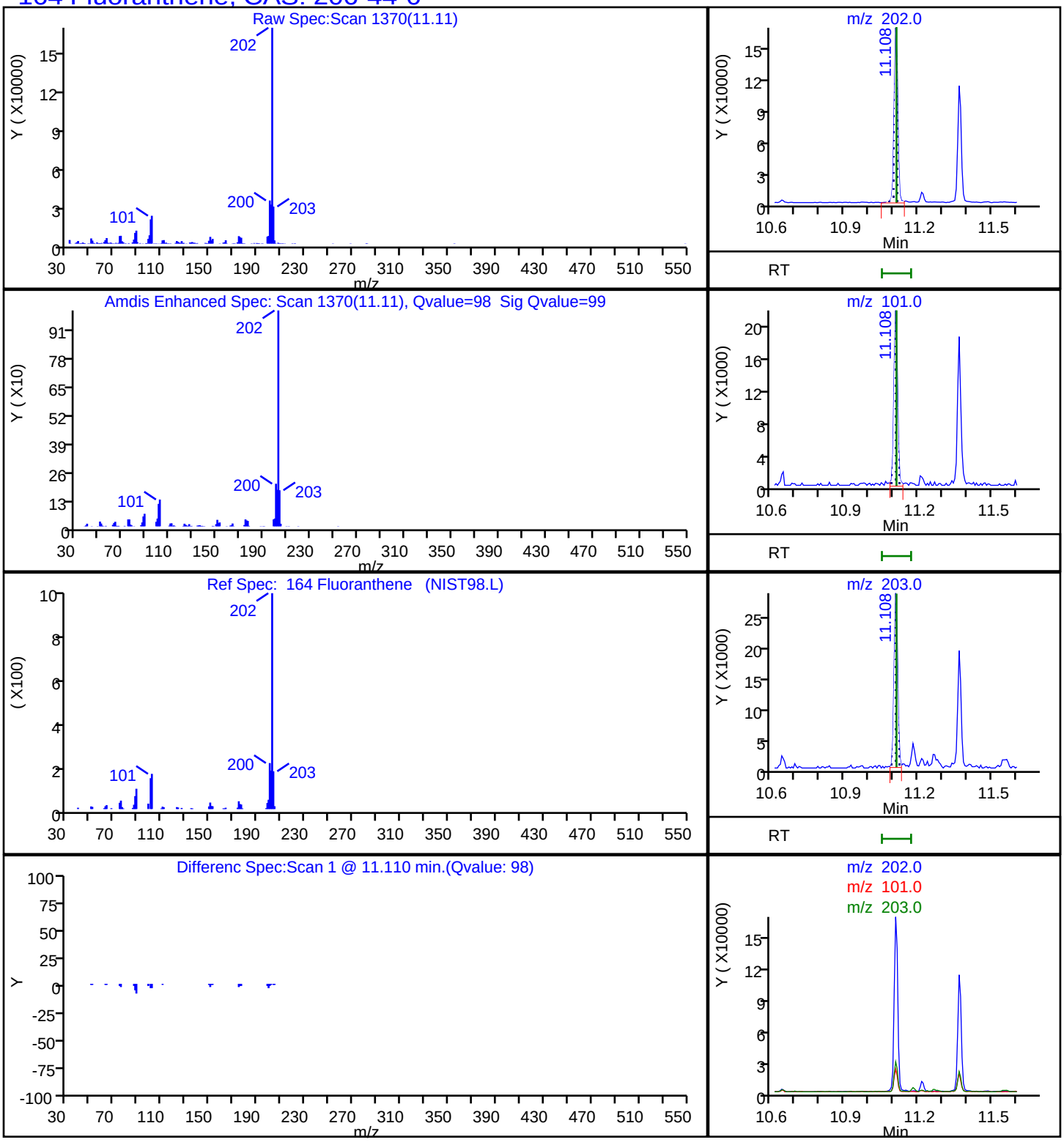
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

164 Fluoranthene, CAS: 206-44-0



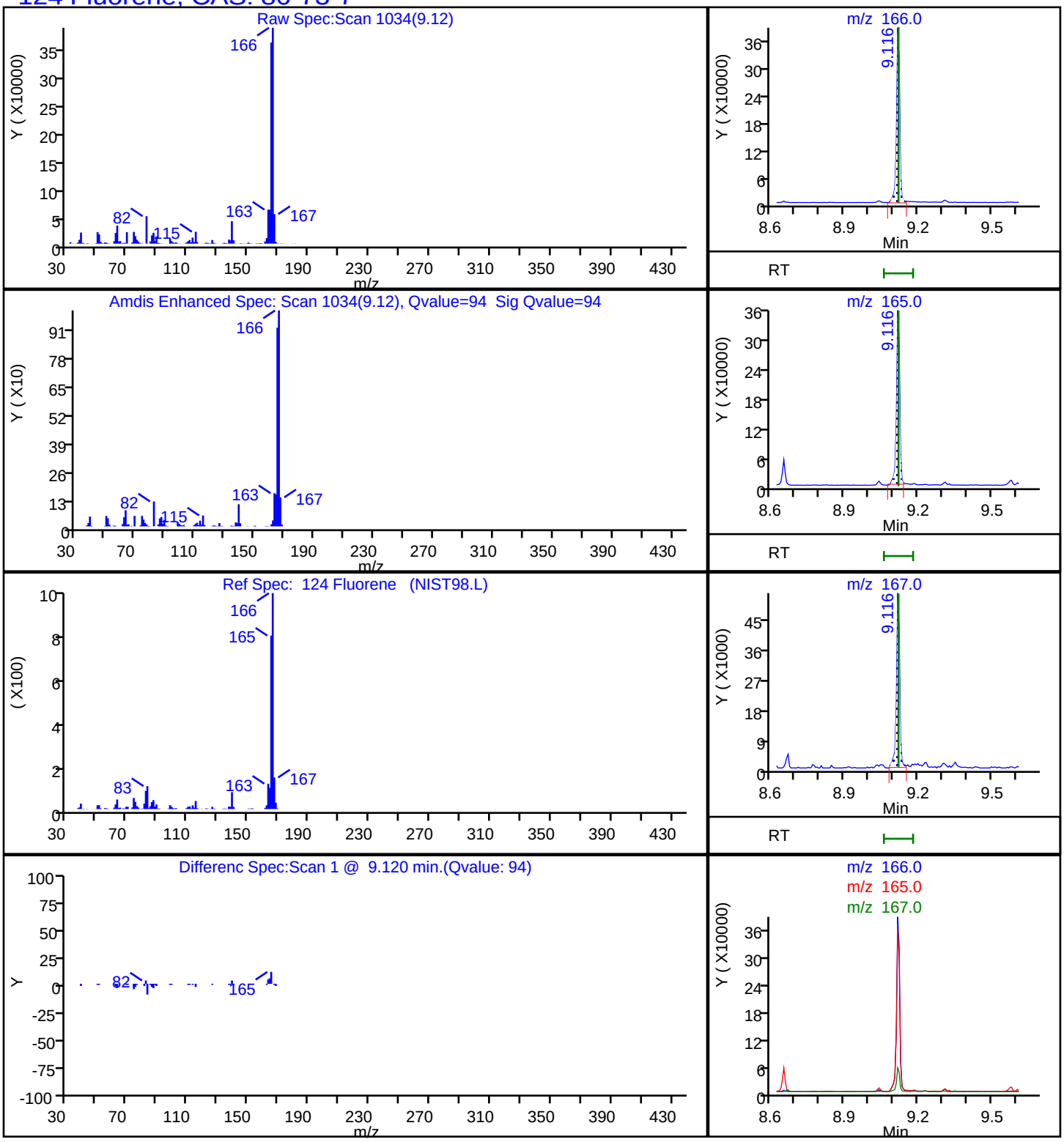
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

124 Fluorene, CAS: 86-73-7



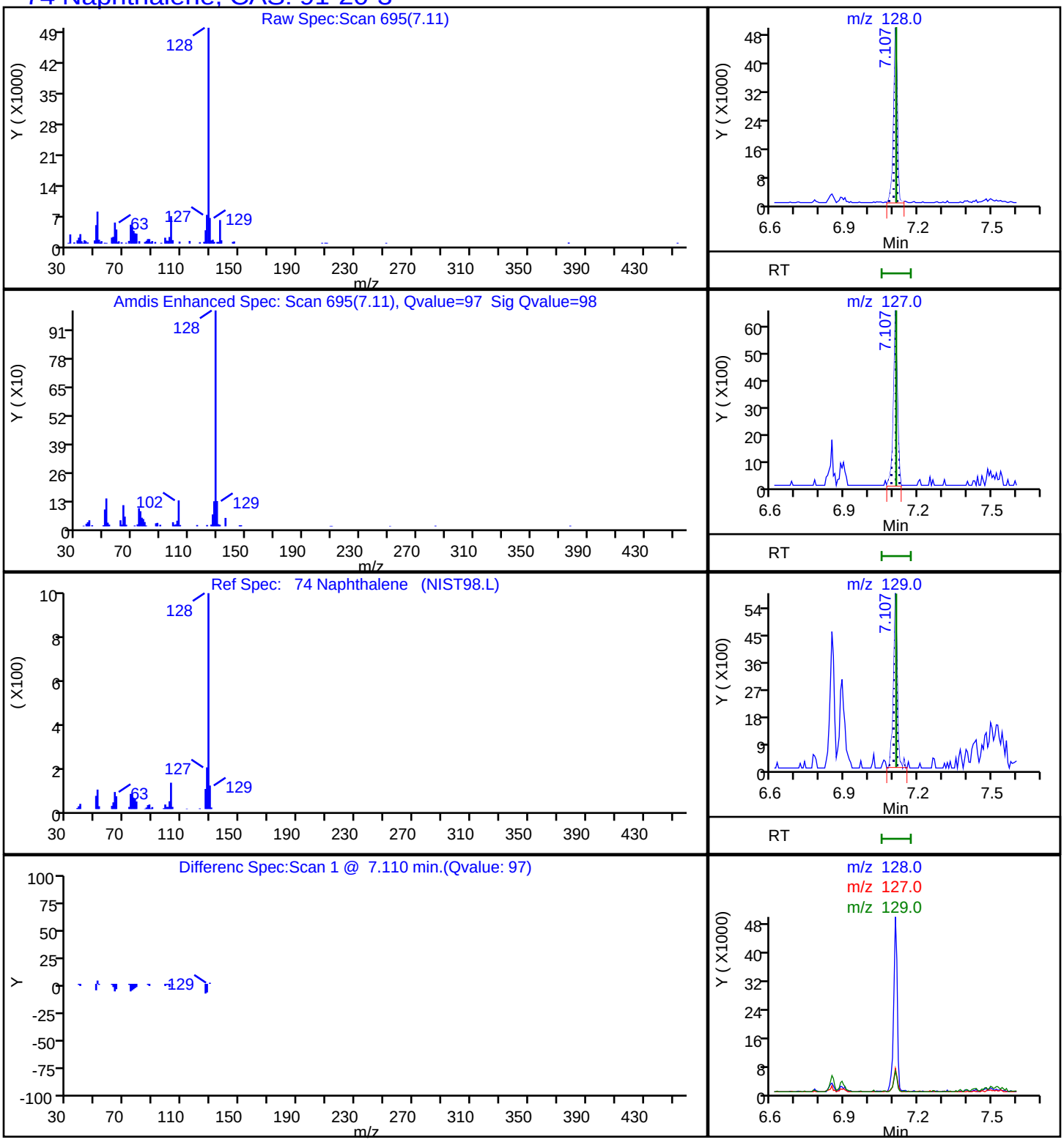
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

74 Naphthalene, CAS: 91-20-3



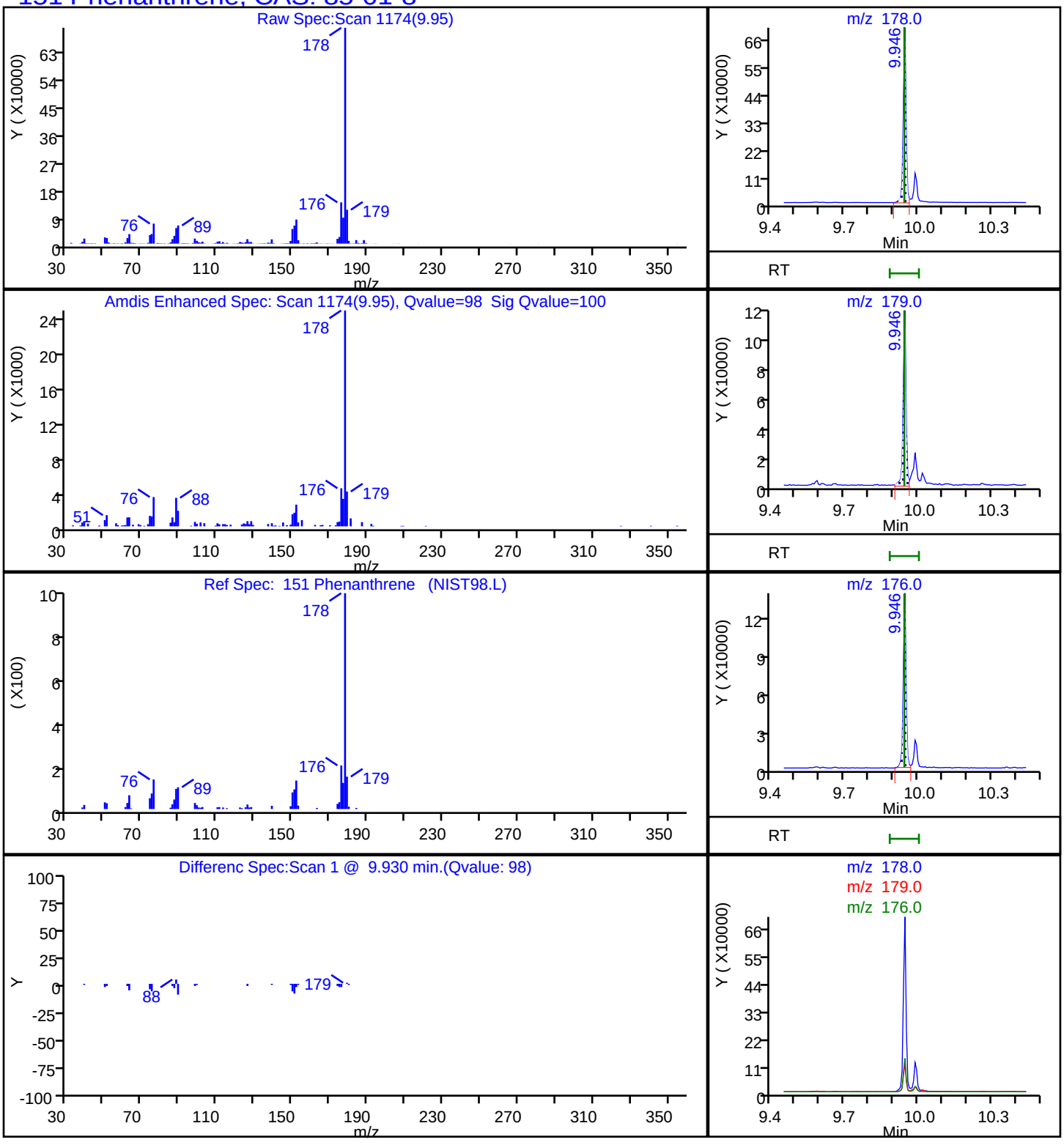
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13
Client ID:	MW-BCP-19B-10252024		
Operator ID:	JM	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

151 Phenanthrene, CAS: 85-01-8



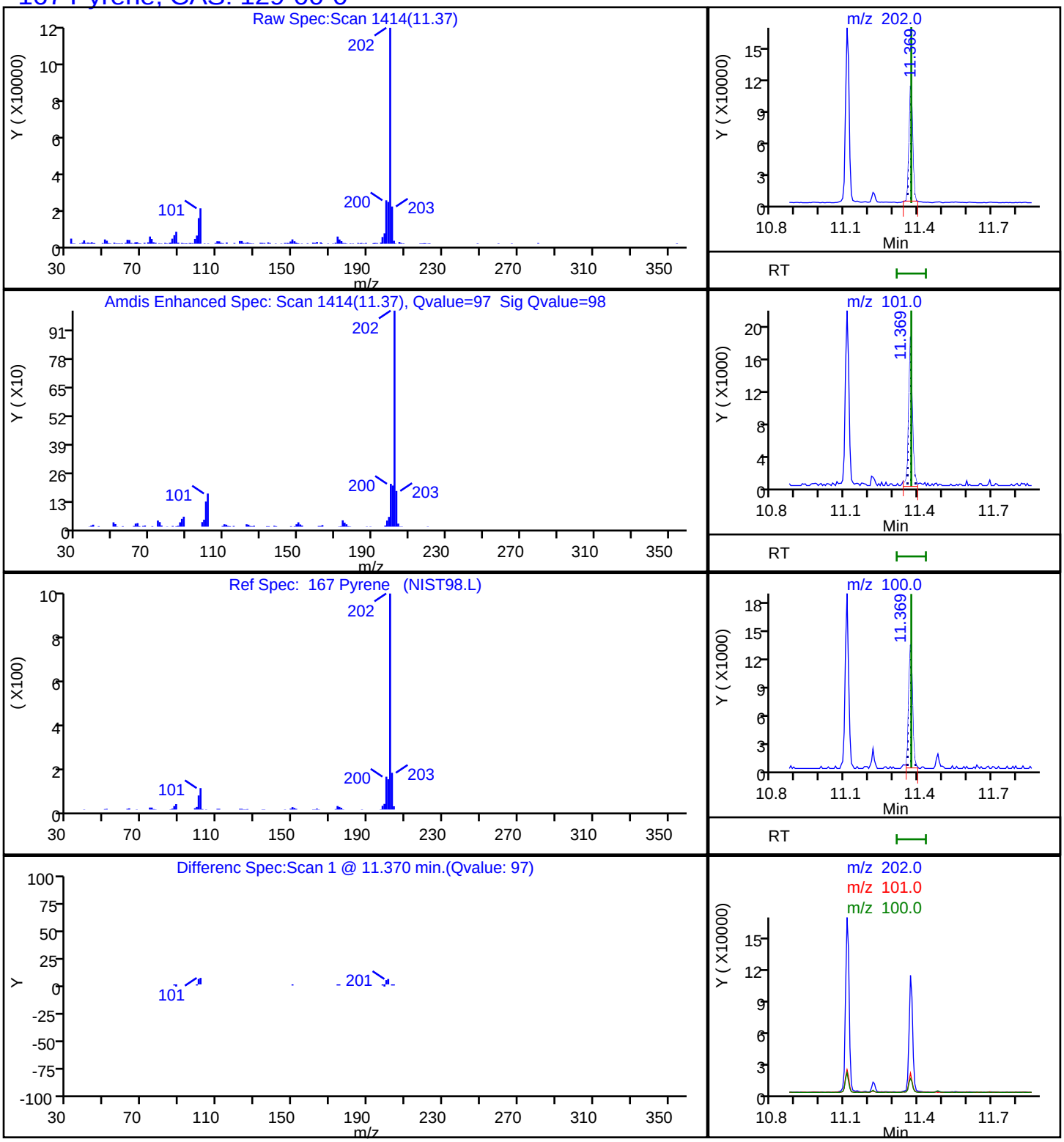
Report Date: 30-Oct-2024 16:06:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D

Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

167 Pyrene, CAS: 129-00-0



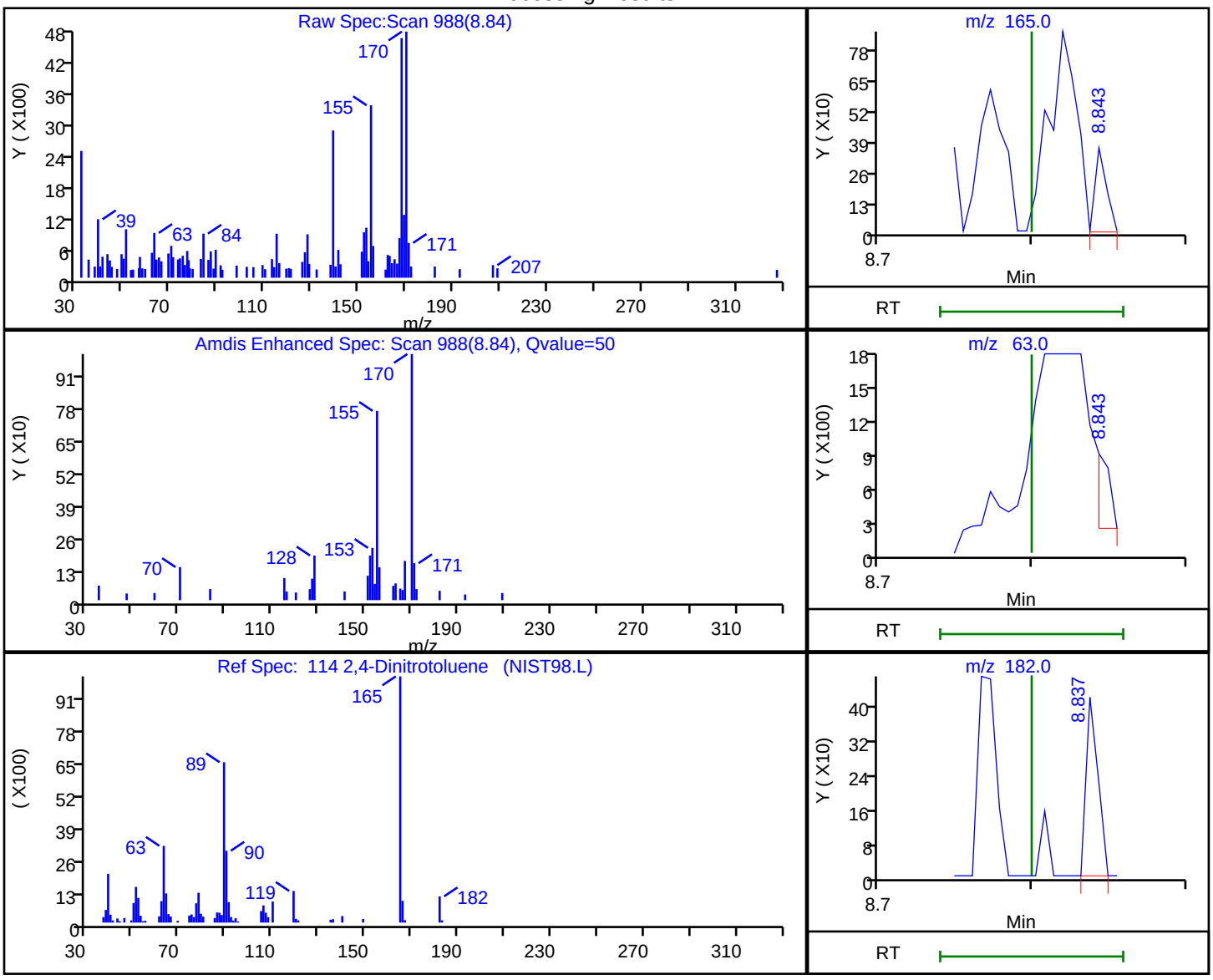
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D				
Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

114 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
8.84	165.00	183	0.126392
8.84	63.00	421	
8.84	182.00	225	

Reviewer: IZ8L, 30-Oct-2024 16:00:51 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

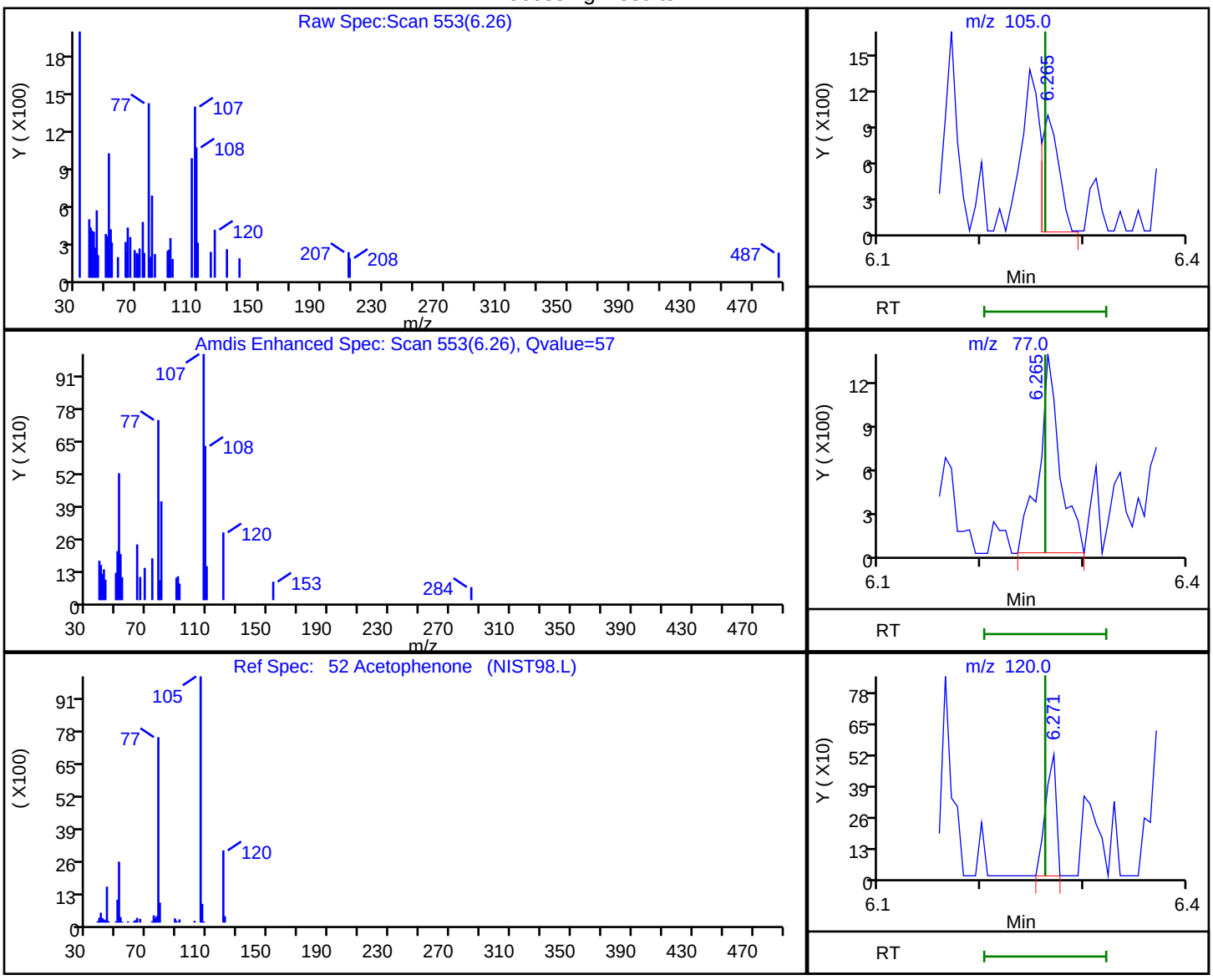
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D				
Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

52 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
6.26	105.00	1115	0.017168
6.26	77.00	1985	
6.27	120.00	374	

Reviewer: IZ8L, 30-Oct-2024 16:00:40 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

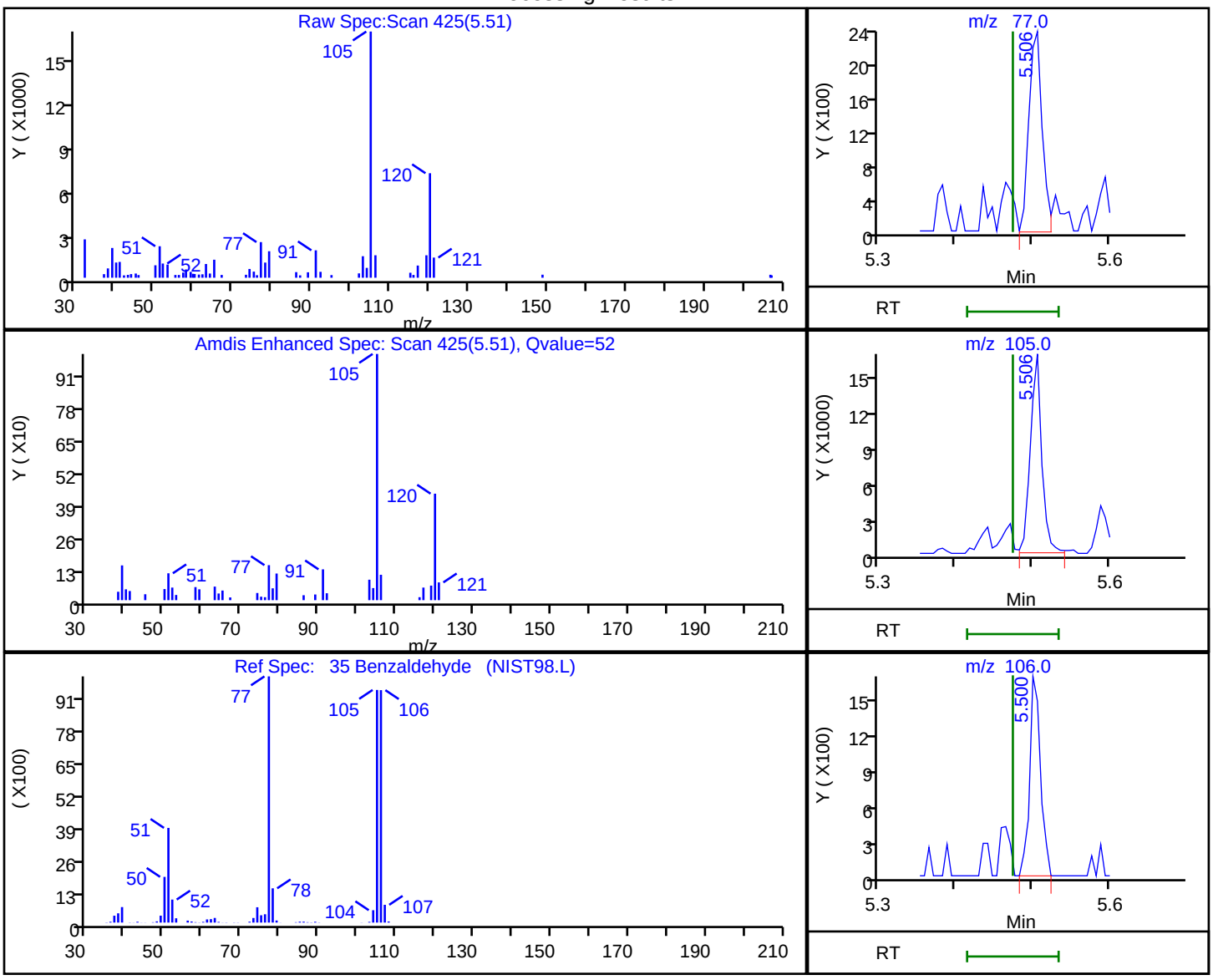
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D				
Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

35 Benzaldehyde, CAS: 100-52-7

Processing Results



RT	Mass	Response	Amount
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5.51	105.00	16982	
5.50	106.00	1677	

Reviewer: IZ8L, 30-Oct-2024 16:00:23 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

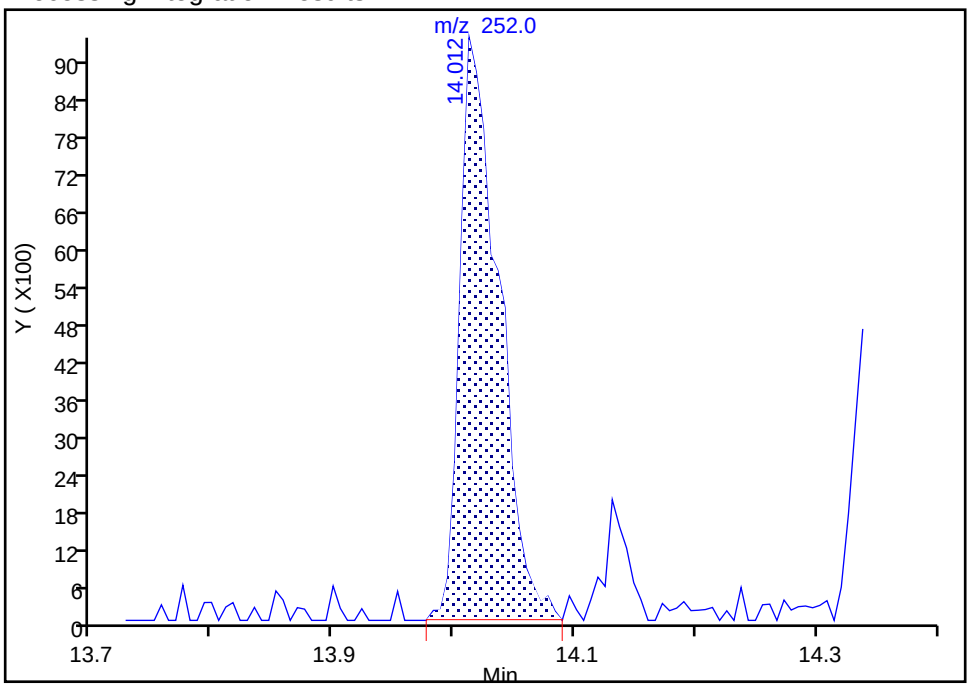
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D				
Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

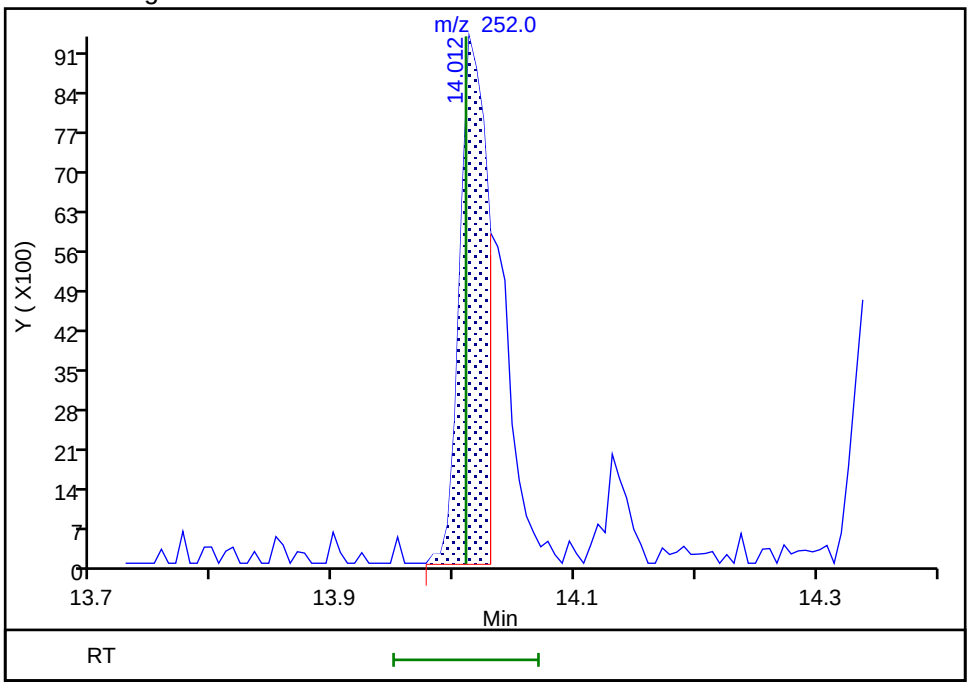
Processing Integration Results

RT: 14.01
Area: 20938
Amount: 0.147338
Amount Units: ng/uL



Manual Integration Results

RT: 14.01
Area: 14945
Amount: 0.110648
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 16:01:08 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

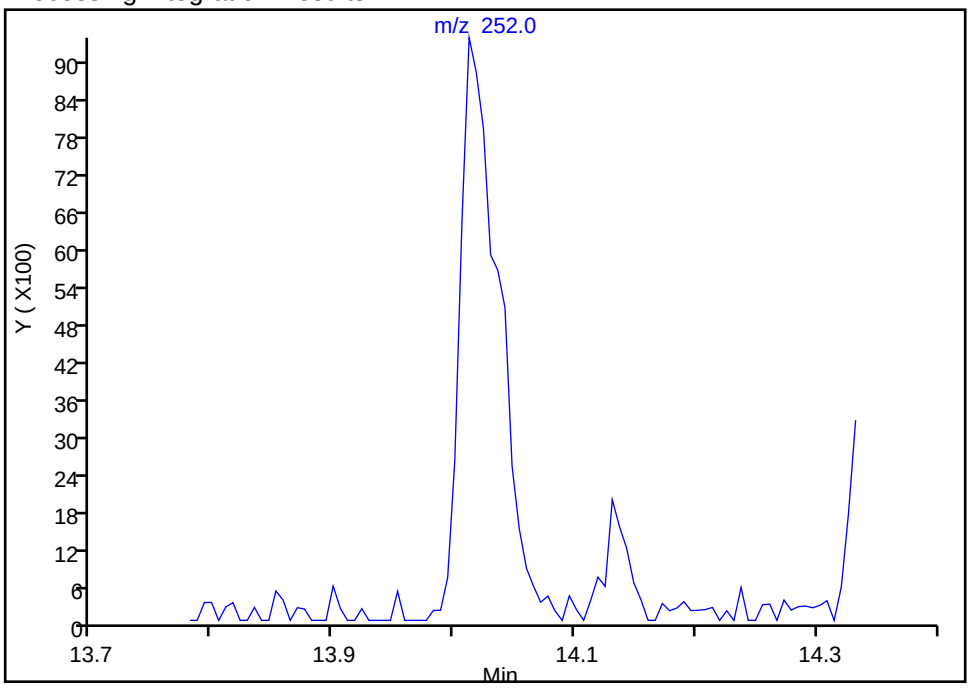
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04606.D				
Injection Date:	30-Oct-2024 12:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-13-A	Lab Sample ID:	480-224869-13		
Client ID:	MW-BCP-19B-10252024				
Operator ID:	JM	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

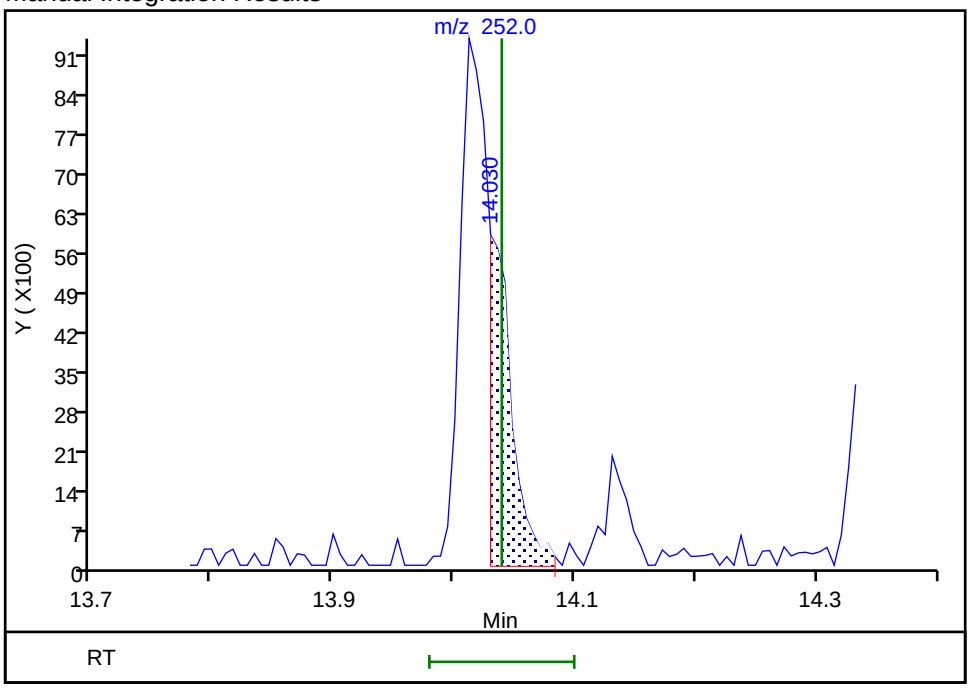
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.03
Area: 8084
Amount: 0.049438
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 16:01:15 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-21A-10252024 | Lab Sample ID: 480-224869-18

Matrix: Water | Lab File ID: Y04597.D

Analysis Method: 8270D | Date Collected: 10/25/2024 11:00

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 23:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.2	0.68
108-60-1	bis (2-chloroisopropyl) ether	ND		5.2	0.54
95-95-4	2,4,5-Trichlorophenol	ND		5.2	0.50
88-06-2	2,4,6-Trichlorophenol	ND		5.2	0.64
120-83-2	2,4-Dichlorophenol	ND		5.2	0.53
105-67-9	2,4-Dimethylphenol	ND		5.2	0.52
51-28-5	2,4-Dinitrophenol	ND		10	2.3
121-14-2	2,4-Dinitrotoluene	ND		5.2	0.47
606-20-2	2,6-Dinitrotoluene	ND		5.2	0.42
91-58-7	2-Chloronaphthalene	ND		5.2	0.48
95-57-8	2-Chlorophenol	ND		5.2	0.55
91-57-6	2-Methylnaphthalene	ND		5.2	0.63
95-48-7	2-Methylphenol	0.47	J	5.2	0.42
88-74-4	2-Nitroaniline	ND		10	0.44
88-75-5	2-Nitrophenol	ND		5.2	0.50
91-94-1	3,3'-Dichlorobenzidine	ND		5.2	0.42
99-09-2	3-Nitroaniline	ND		10	0.50
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.3
101-55-3	4-Bromophenyl phenyl ether	ND		5.2	0.47
59-50-7	4-Chloro-3-methylphenol	ND		5.2	0.47
106-47-8	4-Chloroaniline	ND		5.2	0.61
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.2	0.36
106-44-5	4-Methylphenol	0.70	J	10	0.38
100-01-6	4-Nitroaniline	ND		10	0.26
100-02-7	4-Nitrophenol	ND	*+	10	1.6
83-32-9	Acenaphthene	ND		5.2	0.43
208-96-8	Acenaphthylene	ND		5.2	0.40
98-86-2	Acetophenone	ND		5.2	0.56
120-12-7	Anthracene	ND		5.2	0.29
1912-24-9	Atrazine	ND		5.2	0.48
100-52-7	Benzaldehyde	ND		5.2	0.28

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-21A-10252024 | Lab Sample ID: 480-224869-18

Matrix: Water | Lab File ID: Y04597.D

Analysis Method: 8270D | Date Collected: 10/25/2024 11:00

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 23:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		5.2	0.38
50-32-8	Benzo(a)pyrene	ND		5.2	0.49
205-99-2	Benzo(b)fluoranthene	ND		5.2	0.35
191-24-2	Benzo(g,h,i)perylene	ND		5.2	0.36
207-08-9	Benzo(k)fluoranthene	ND		5.2	0.76
111-91-1	Bis(2-chloroethoxy)methane	ND		5.2	0.36
111-44-4	Bis(2-chloroethyl)ether	ND		5.2	0.42
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.2	2.3
85-68-7	Butyl benzyl phthalate	ND		5.2	1.0
105-60-2	Caprolactam	ND		5.2	2.3
86-74-8	Carbazole	0.66	J	5.2	0.31
218-01-9	Chrysene	ND		5.2	0.34
84-74-2	Di-n-butyl phthalate	ND		5.2	0.32
117-84-0	Di-n-octyl phthalate	ND		5.2	0.49
53-70-3	Dibenz(a,h)anthracene	ND		5.2	0.44
132-64-9	Dibenzofuran	ND		10	0.53
84-66-2	Diethyl phthalate	ND		5.2	0.23
131-11-3	Dimethyl phthalate	ND		5.2	0.38
206-44-0	Fluoranthene	0.43	J	5.2	0.42
86-73-7	Fluorene	ND		5.2	0.38
118-74-1	Hexachlorobenzene	ND		5.2	0.53
87-68-3	Hexachlorobutadiene	ND		5.2	0.71
77-47-4	Hexachlorocyclopentadiene	ND		5.2	0.61
67-72-1	Hexachloroethane	ND		5.2	0.61
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.2	0.49
78-59-1	Isophorone	ND		5.2	0.45
621-64-7	N-Nitrosodi-n-propylamine	ND		5.2	0.56
86-30-6	N-Nitrosodiphenylamine	ND		5.2	0.53
91-20-3	Naphthalene	1.8	J	5.2	0.79
98-95-3	Nitrobenzene	ND		5.2	0.30
87-86-5	Pentachlorophenol	ND		10	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-21A-10252024 | Lab Sample ID: 480-224869-18

Matrix: Water | Lab File ID: Y04597.D

Analysis Method: 8270D | Date Collected: 10/25/2024 11:00

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 240(mL) | Date Analyzed: 10/29/2024 23:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		5.2	0.46
108-95-2	Phenol	ND		5.2	0.41
129-00-0	Pyrene	0.40	J	5.2	0.35

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	93		25-144
321-60-8	2-Fluorobiphenyl	89		53-126
367-12-4	2-Fluorophenol	70		24-120
4165-60-0	Nitrobenzene-d5	100		29-129
1718-51-0	p-Terphenyl-d14	48		33-132
4165-62-2	Phenol-d5	52		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D
Lims ID: 480-224869-A-18-A
Client ID: MW-BCP-21A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 23:07:30 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-028
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:16:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.000	95	166540	4.00	
* 2 Naphthalene-d8	136	7.089	7.089	0.000	99	603903	4.00	
* 3 Acenaphthene-d10	164	8.648	8.648	0.000	95	344558	4.00	
* 4 Phenanthrene-d10	188	9.923	9.929	-0.006	97	600706	4.00	
* 5 Chrysene-d12	240	12.774	12.774	0.000	99	510087	4.00	
* 6 Perylene-d12	264	14.469	14.463	0.006	97	595588	4.00	
$ 7 2-Fluorophenol	112	4.677	4.644	0.036	92	288601	5.62	
$ 8 Phenol-d5	99	5.530	5.527	0.006	88	264467	4.17	
$ 9 Nitrobenzene-d5	82	6.414	6.410	0.000	96	464909	8.00	
$ 10 2-Fluorobiphenyl	172	8.038	8.040	0.000	99	843487	7.12	
$ 11 2,4,6-Tribromophenol	330	9.330	9.327	0.000	86	110945	7.42	
$ 12 p-Terphenyl-d14	244	11.482	11.484	0.000	97	535207	3.87	
35 Benzaldehyde	77		5.471				ND	
37 Phenol	94	5.542	5.538	0.006	55	4009	0.0622	
39 Bis(2-chloroethyl)ether	93		5.607				ND	
40 2-Chlorophenol	128		5.696				ND	
48 2-Methylphenol	108	6.117	6.111	0.006	86	5471	0.1119	
49 2,2'-oxybis[1-chloropropane]	45		6.117				ND	
53 N-Nitrosodi-n-propylamine	70		6.248				ND	
57 4-Methylphenol	108	6.265	6.314	0.011	79	8508	0.1674	
52 Acetophenone	105		6.265				ND	U
58 Hexachloroethane	117		6.378				ND	
59 Nitrobenzene	77		6.431				ND	
62 Isophorone	82		6.645				ND	
64 2-Nitrophenol	139		6.734				ND	
66 2,4-Dimethylphenol	107	6.751	6.751	0.000	88	4210	0.0800	M
69 Bis(2-chloroethoxy)methane	93		6.823				ND	
72 2,4-Dichlorophenol	162		6.959				ND	
74 Naphthalene	128	7.107	7.113	0.000	97	69639	0.4365	
76 4-Chloroaniline	127		7.149				ND	
79 Hexachlorobutadiene	225		7.208				ND	
84 Caprolactam	113		7.463				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.581				ND	
87 2-Methylnaphthalene	142		7.730				ND	
90 Hexachlorocyclopentadiene	237		7.866				ND	
93 2,4,6-Trichlorophenol	196		7.979				ND	
94 2,4,5-Trichlorophenol	196		8.026				ND	
96 1,1'-Biphenyl	154		8.133				ND	
97 2-Chloronaphthalene	162		8.162				ND	
100 2-Nitroaniline	65		8.245				ND	
105 Dimethyl phthalate	163		8.370				ND	
107 2,6-Dinitrotoluene	165		8.441				ND	
108 Acenaphthylene	152	8.530	8.532	0.000	87	5480	0.0359	
109 3-Nitroaniline	138		8.601				ND	
110 Acenaphthene	153		8.678				ND	
111 2,4-Dinitrophenol	184		8.696				ND	U
112 4-Nitrophenol	109		8.749				ND	
114 2,4-Dinitrotoluene	165		8.797				ND	U
115 Dibenzofuran	168	8.820	8.829	-0.006	96	5307	0.0384	
120 Diethyl phthalate	149		8.968				ND	
123 4-Chlorophenyl phenyl ether	204		9.093				ND	
124 Fluorene	166	9.117	9.125	-0.006	90	4527	0.0520	
126 4-Nitroaniline	138		9.129				ND	
127 4,6-Dinitro-2-methylphenol	198		9.158				ND	
130 N-Nitrosodiphenylamine	169		9.194				ND	
139 4-Bromophenyl phenyl ether	248		9.514				ND	
140 Hexachlorobenzene	284		9.603				ND	
143 Atrazine	200		9.621				ND	
145 Pentachlorophenol	266		9.769				ND	
151 Phenanthrene	178		9.947				ND	U
152 Anthracene	178	9.988	10.001	0.000	89	5176	0.0312	
153 Carbazole	167	10.124	10.149	0.006	96	23538	0.1594	
157 Di-n-butyl phthalate	149		10.356				ND	
164 Fluoranthene	202	11.114	11.104	0.006	96	18129	0.1028	
167 Pyrene	202	11.369	11.366	0.000	97	16369	0.0958	
174 Butyl benzyl phthalate	149		12.009				ND	
181 Bis(2-ethylhexyl) phthalate	149	12.667	12.670	0.000	91	7939	0.1566	
179 3,3'-Dichlorobenzidine	252		12.697				ND	
180 Benzo[a]anthracene	228		12.762				ND	
182 Chrysene	228		12.810				ND	
184 Di-n-octyl phthalate	149		13.420				ND	
186 Benzo[b]fluoranthene	252	14.019	14.019	0.012	95	9443	0.0687	M
187 Benzo[k]fluoranthene	252	14.037	14.037	0.000	1	3294	0.0172	Ma
189 Benzo[a]pyrene	252	14.404	14.401	0.006	76	6078	0.0582	
194 Dibenz(a,h)anthracene	278		15.939				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.945				ND	
195 Benzo[g,h,i]perylene	276		16.396				ND	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

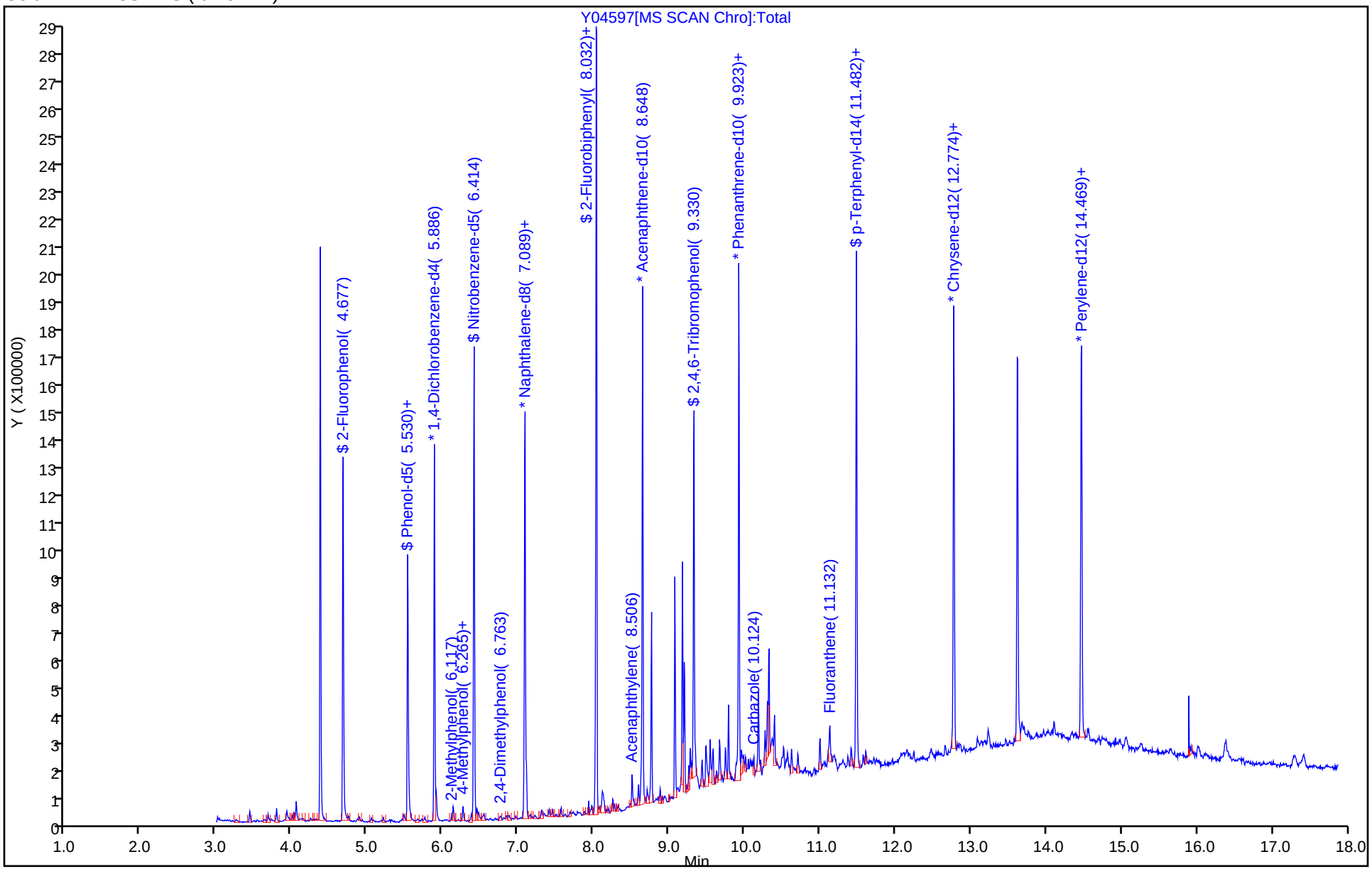
Report Date: 30-Oct-2024 15:17:47 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D

Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18	Worklist Smp#:	28
Client ID:	MW-BCP-21A-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D
Lims ID: 480-224869-A-18-A
Client ID: MW-BCP-21A-10252024
Sample Type: Client
Inject. Date: 29-Oct-2024 23:07:30 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-028
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 15:16:04

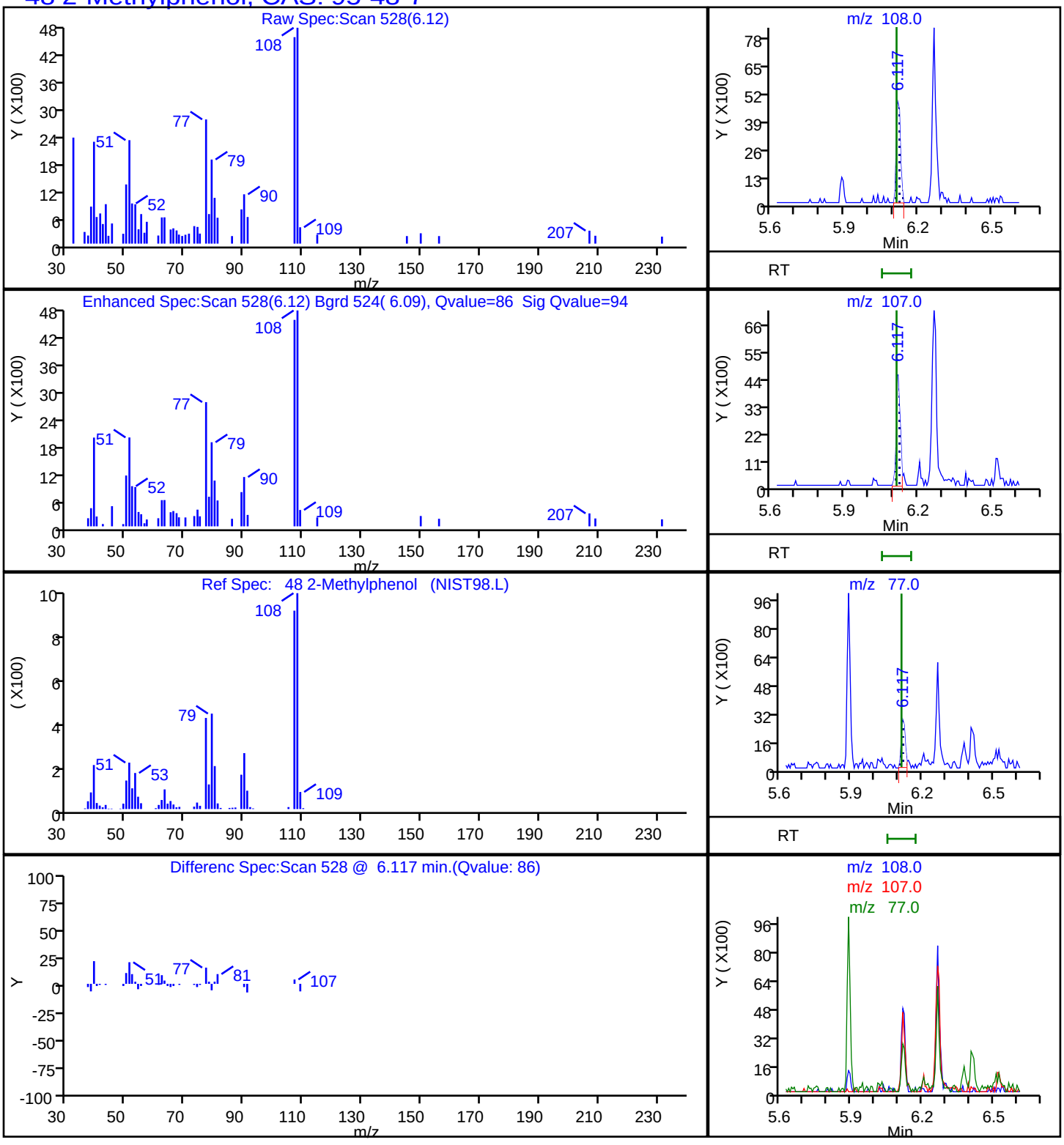
Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.62	70.30
$ 8 Phenol-d5	8.00	4.17	52.15
$ 9 Nitrobenzene-d5	8.00	8.00	99.97
$ 10 2-Fluorobiphenyl	8.00	7.12	89.03
$ 11 2,4,6-Tribromophenol	8.00	7.42	92.74
$ 12 p-Terphenyl-d14	8.00	3.87	48.38

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D

Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18
Client ID:	MW-BCP-21A-10252024		
Operator ID:	JM	ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

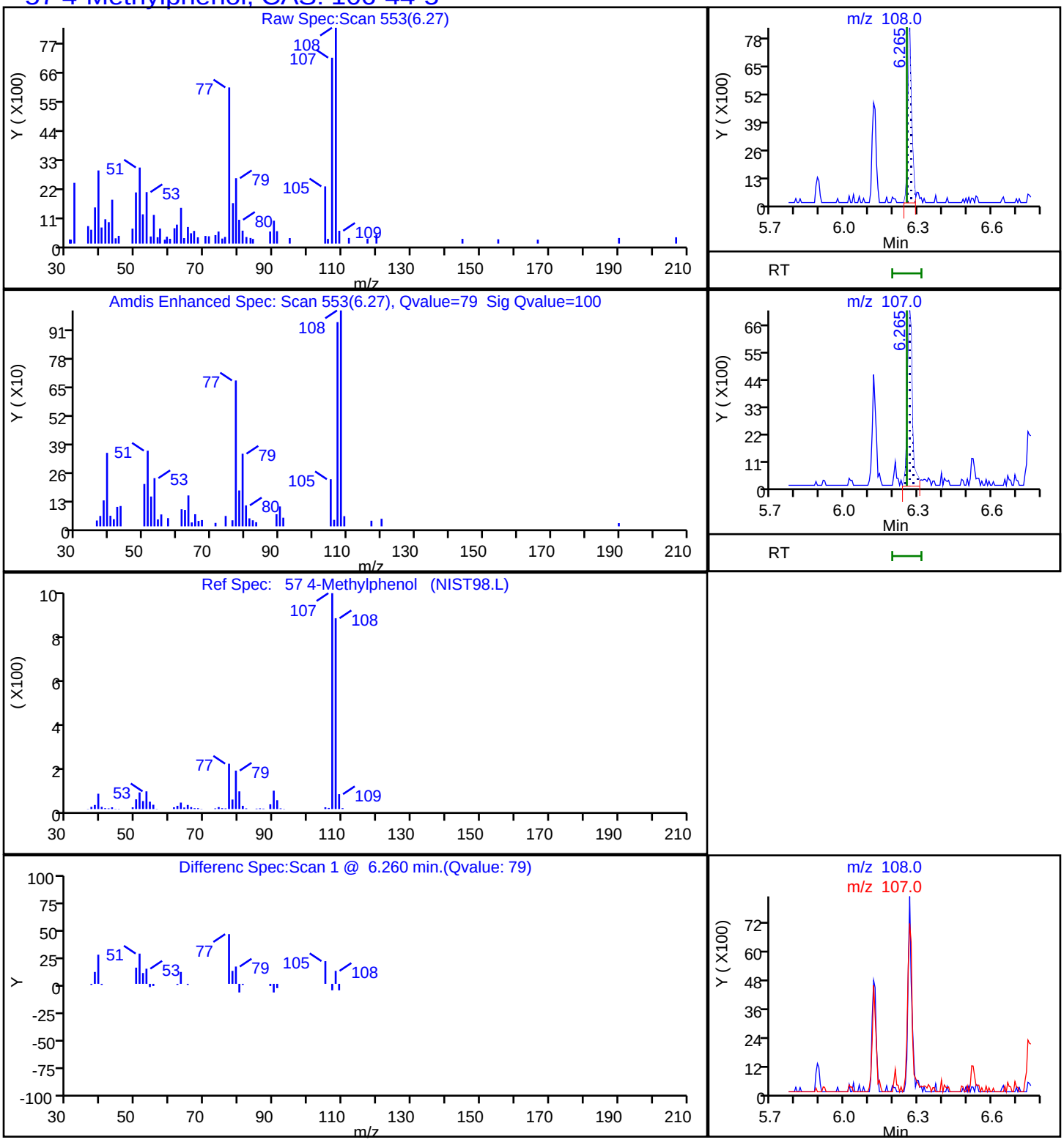
48 2-Methylphenol, CAS: 95-48-7



Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

57 4-Methylphenol, CAS: 106-44-5



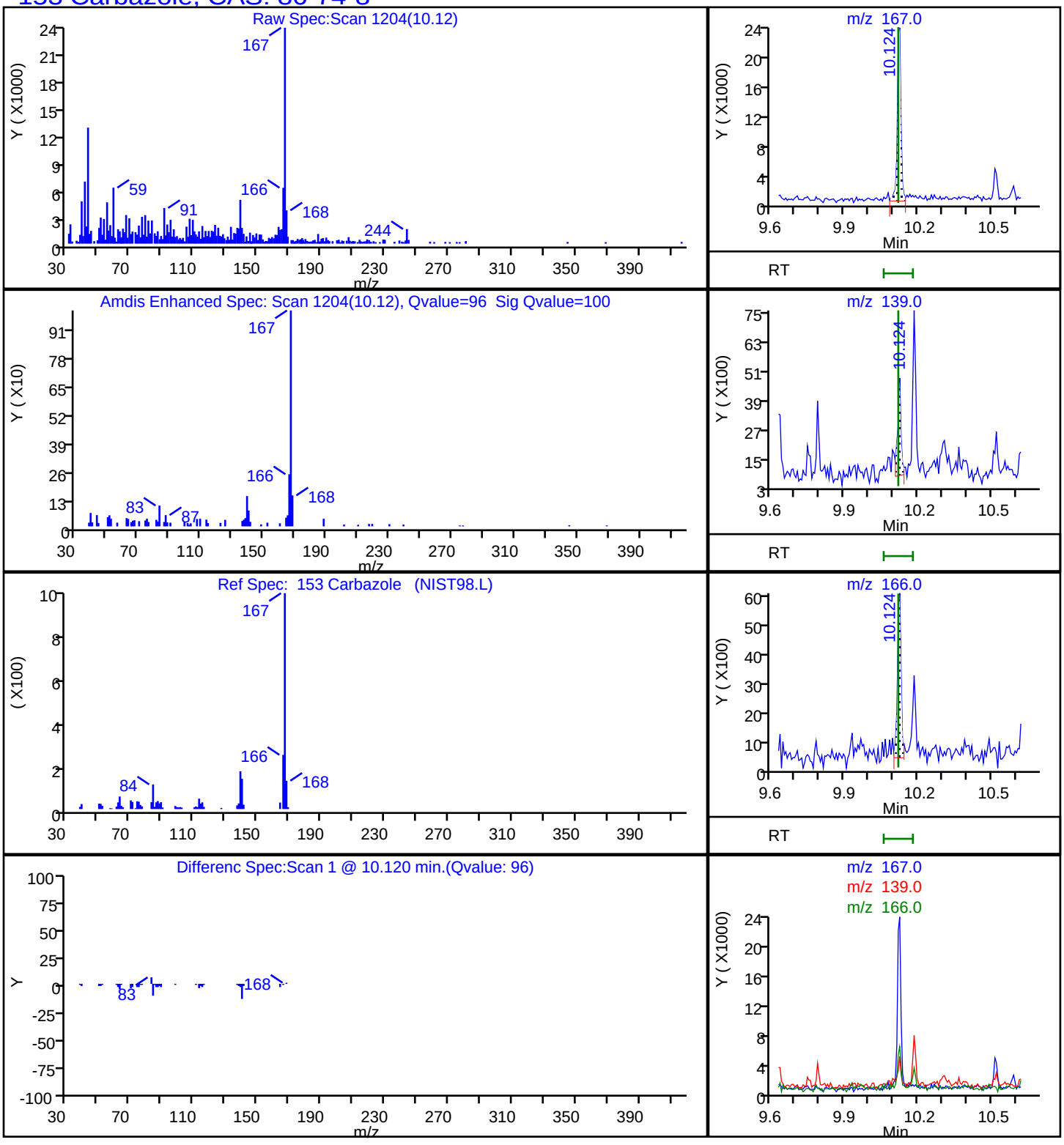
Report Date: 30-Oct-2024 15:17:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D

Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18
Client ID:	MW-BCP-21A-10252024		
Operator ID:	JM	ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

153 Carbazole, CAS: 86-74-8



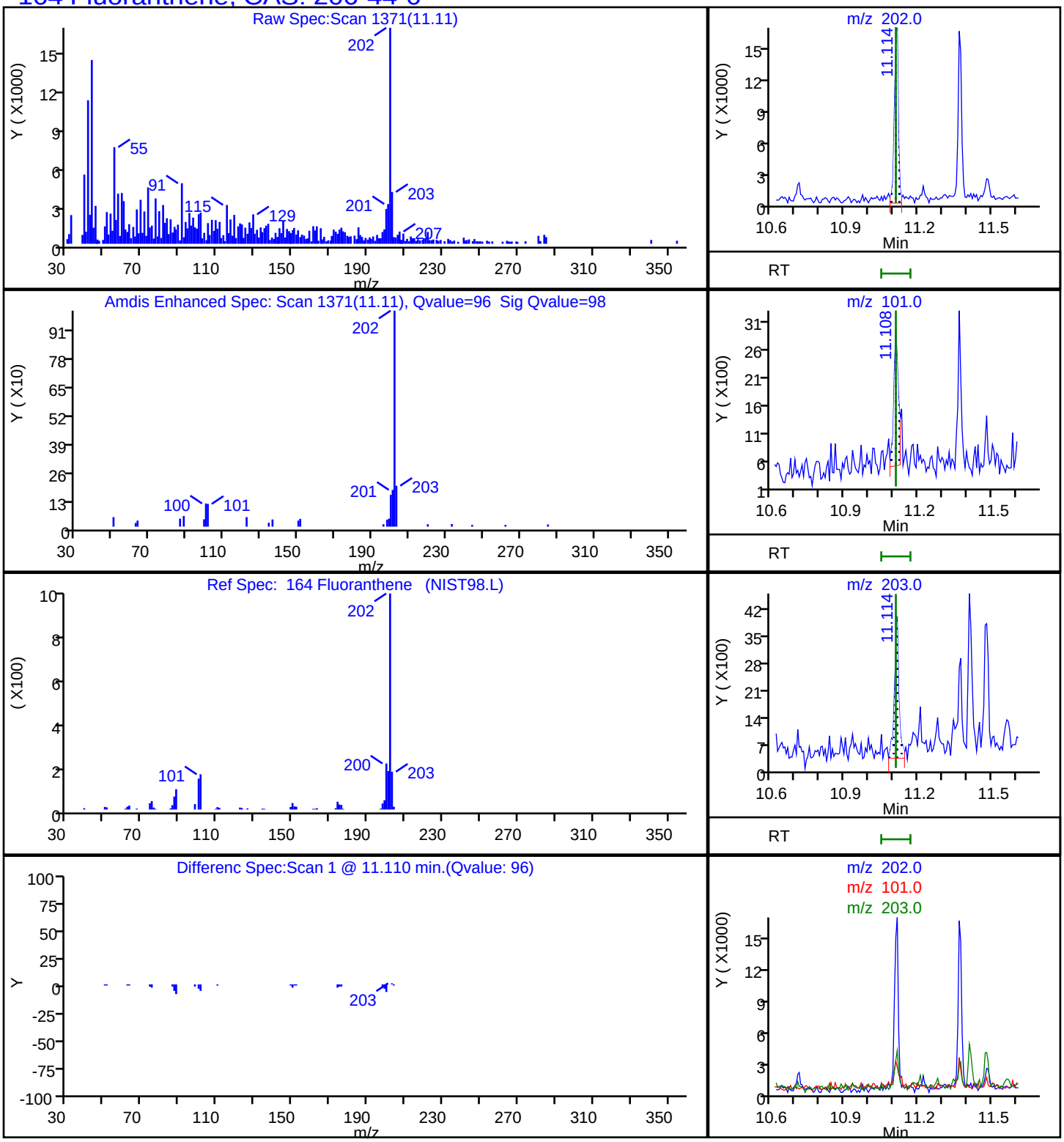
Report Date: 30-Oct-2024 15:17:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D

Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18
Client ID:	MW-BCP-21A-10252024		
Operator ID:	JM	ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

164 Fluoranthene, CAS: 206-44-0

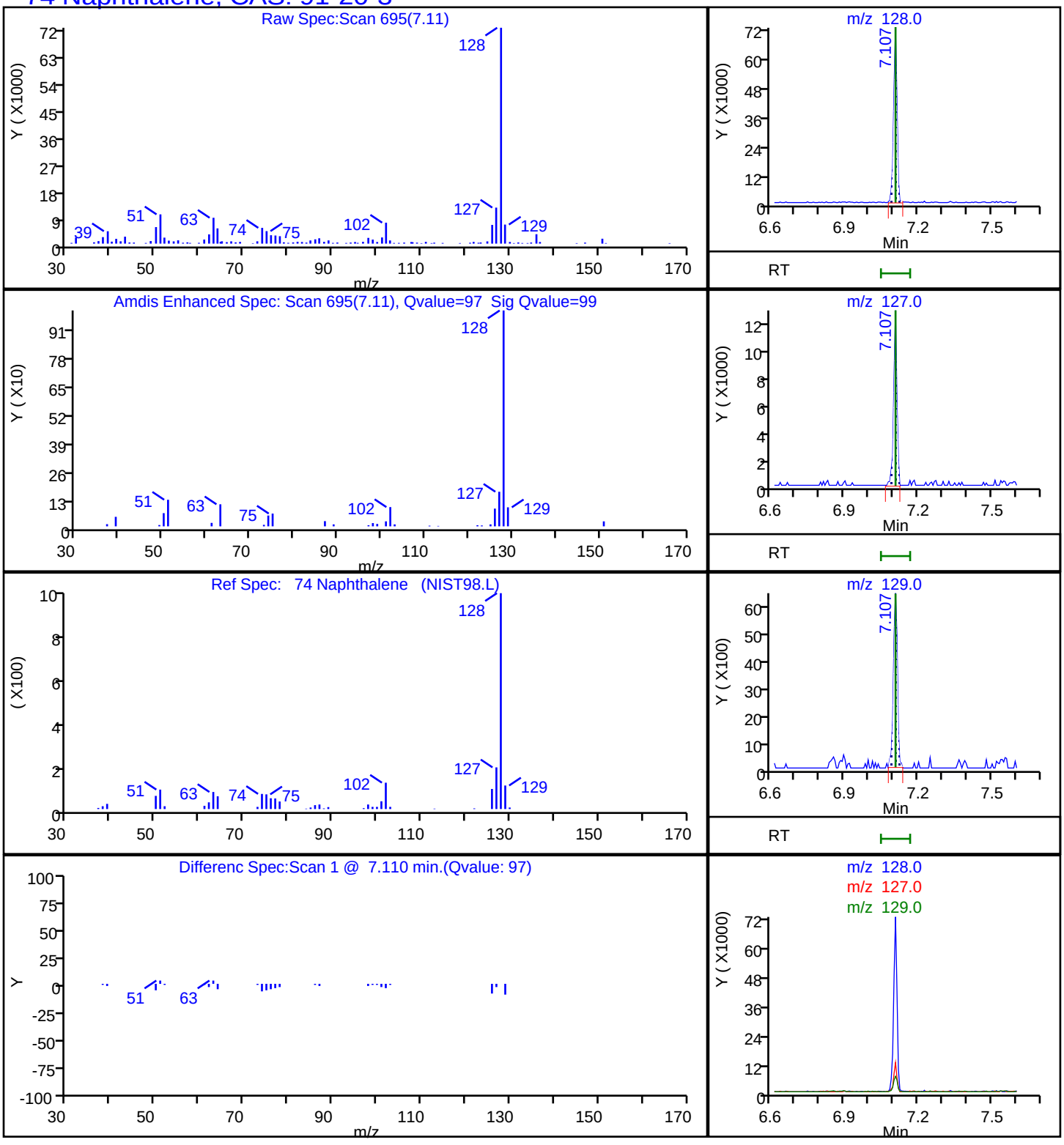


Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D

Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3



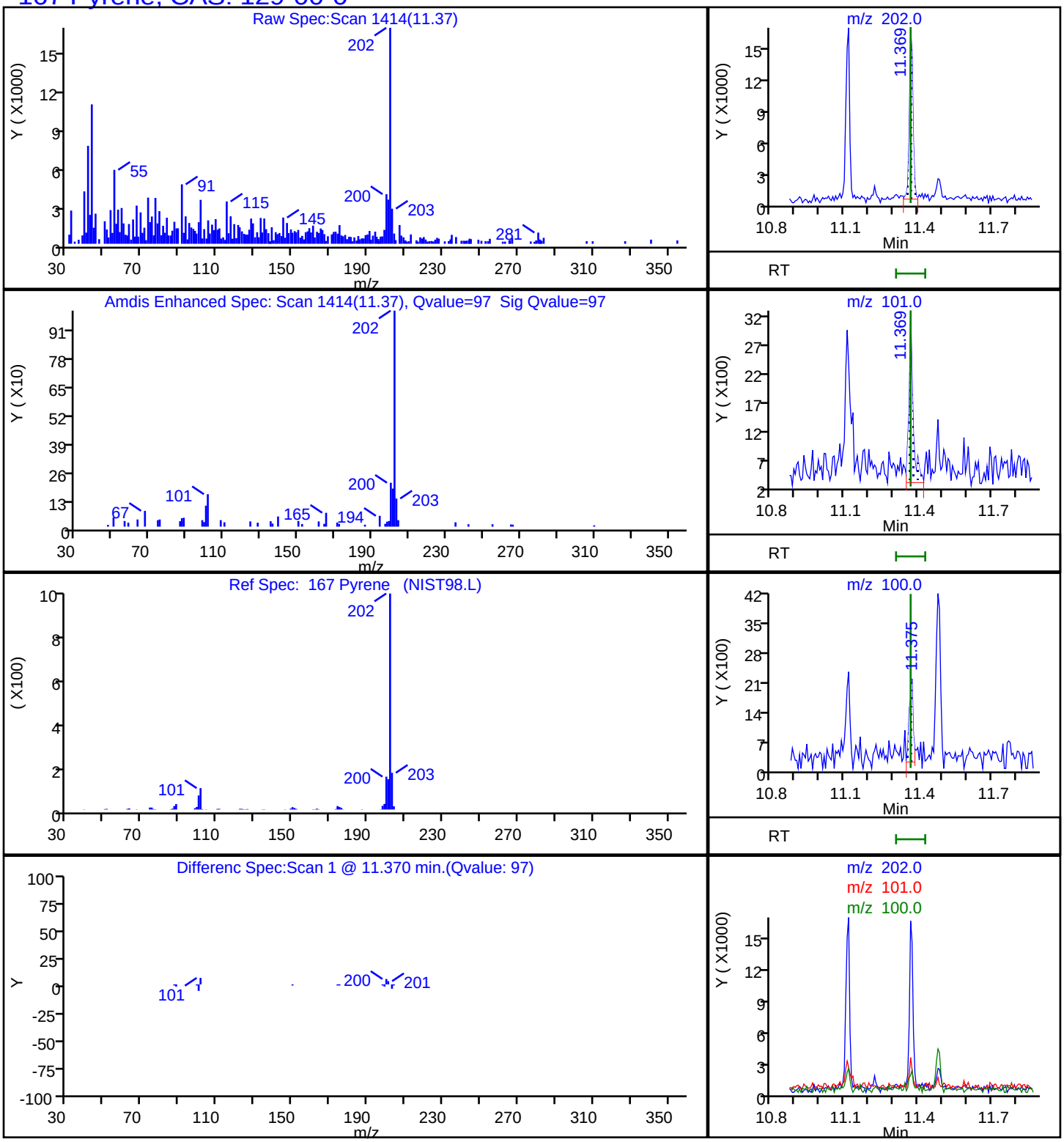
Report Date: 30-Oct-2024 15:17:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D

Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18
Client ID:	MW-BCP-21A-10252024		
Operator ID:	JM	ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

167 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Buffalo

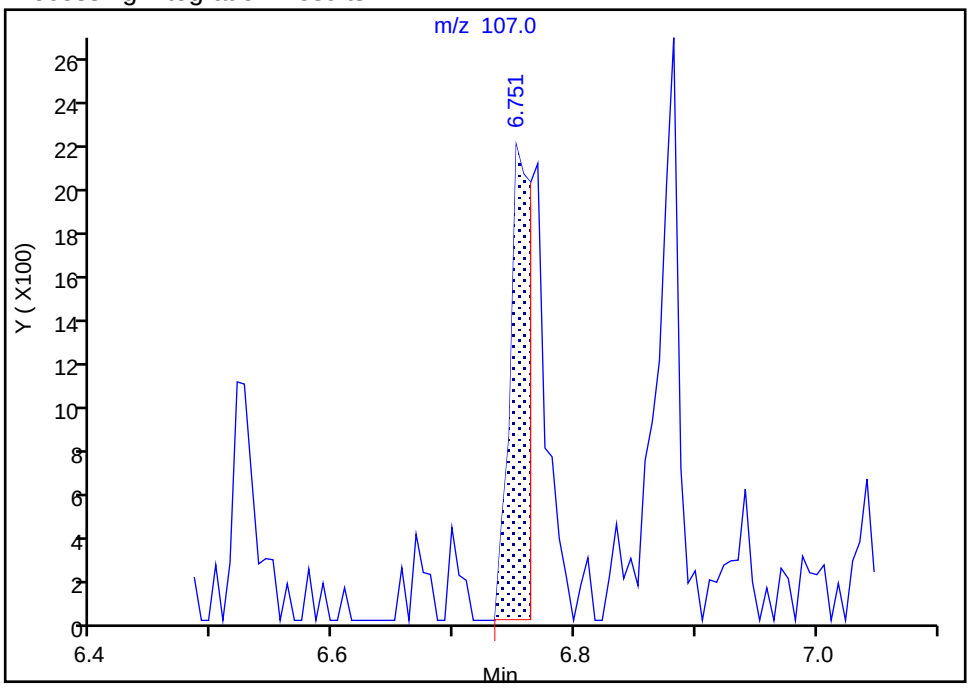
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dimethylphenol, CAS: 105-67-9

Signal: 1

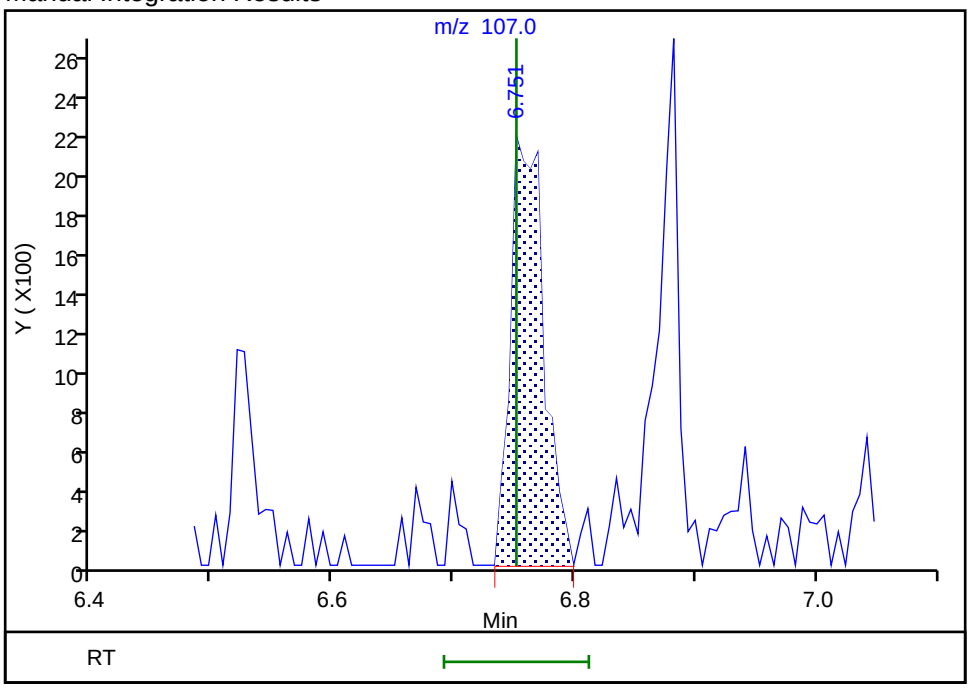
Processing Integration Results

RT: 6.75
Area: 2703
Amount: 0.051395
Amount Units: ng/uL



Manual Integration Results

RT: 6.75
Area: 4210
Amount: 0.080049
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:15:15 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

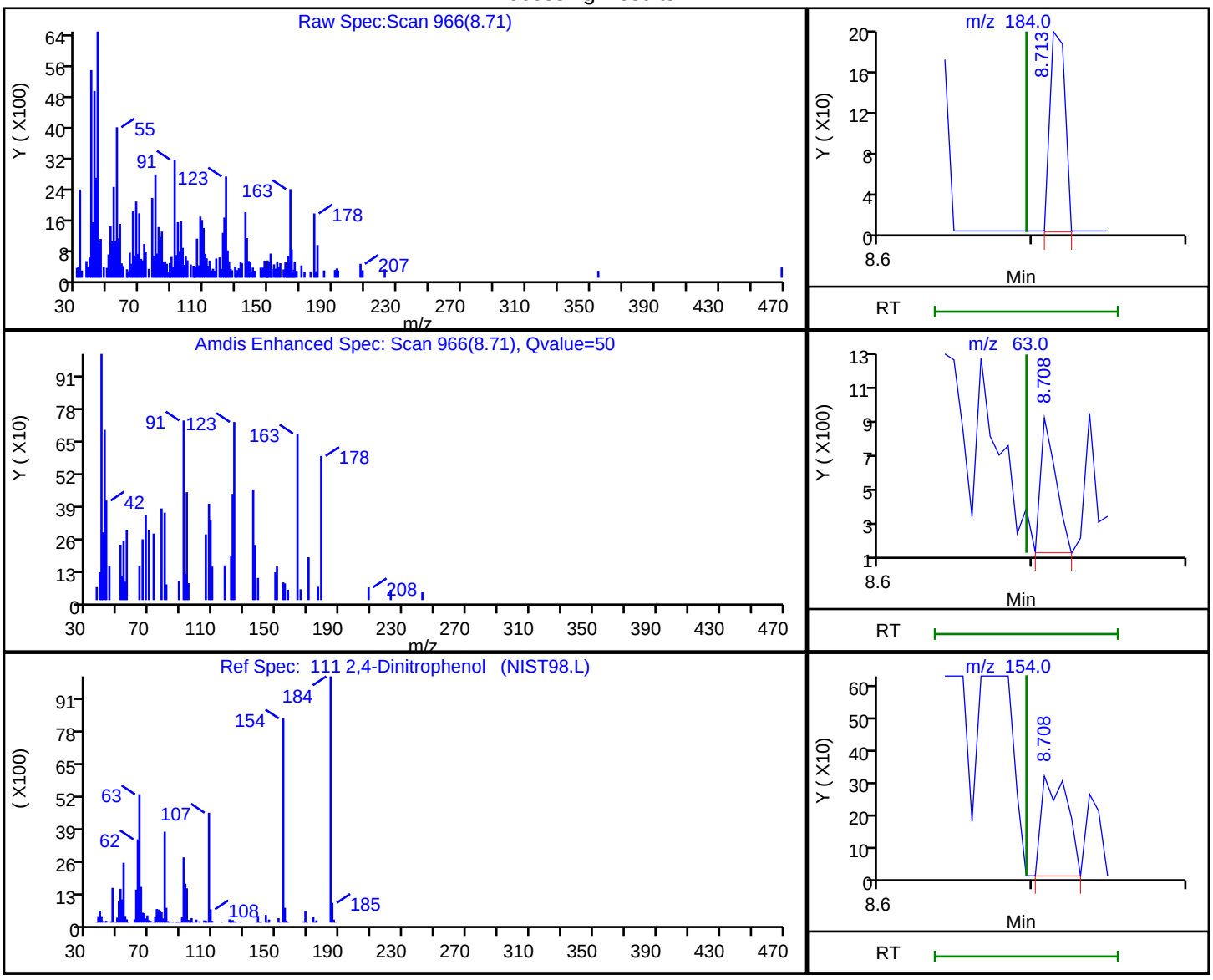
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

111 2,4-Dinitrophenol, CAS: 51-28-5

Processing Results



RT	Mass	Response	Amount
8.71	184.00	132	1.900556
8.71	63.00	479	
8.71	154.00	367	

Reviewer: IZ8L, 30-Oct-2024 15:15:27 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

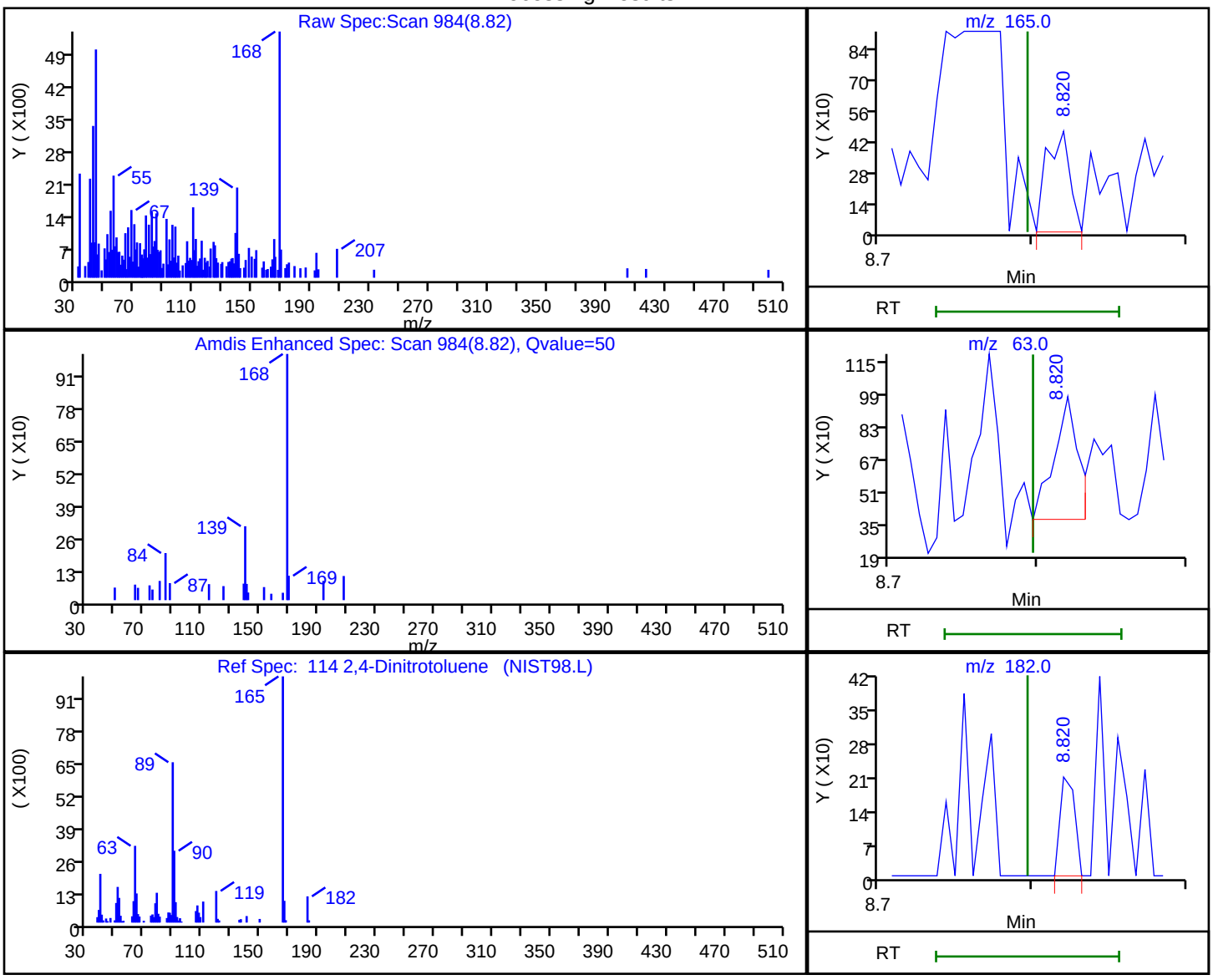
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

114 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
8.82	165.00	477	0.134937
8.82	63.00	708	
8.82	182.00	138	

Reviewer: IZ8L, 30-Oct-2024 15:15:29 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

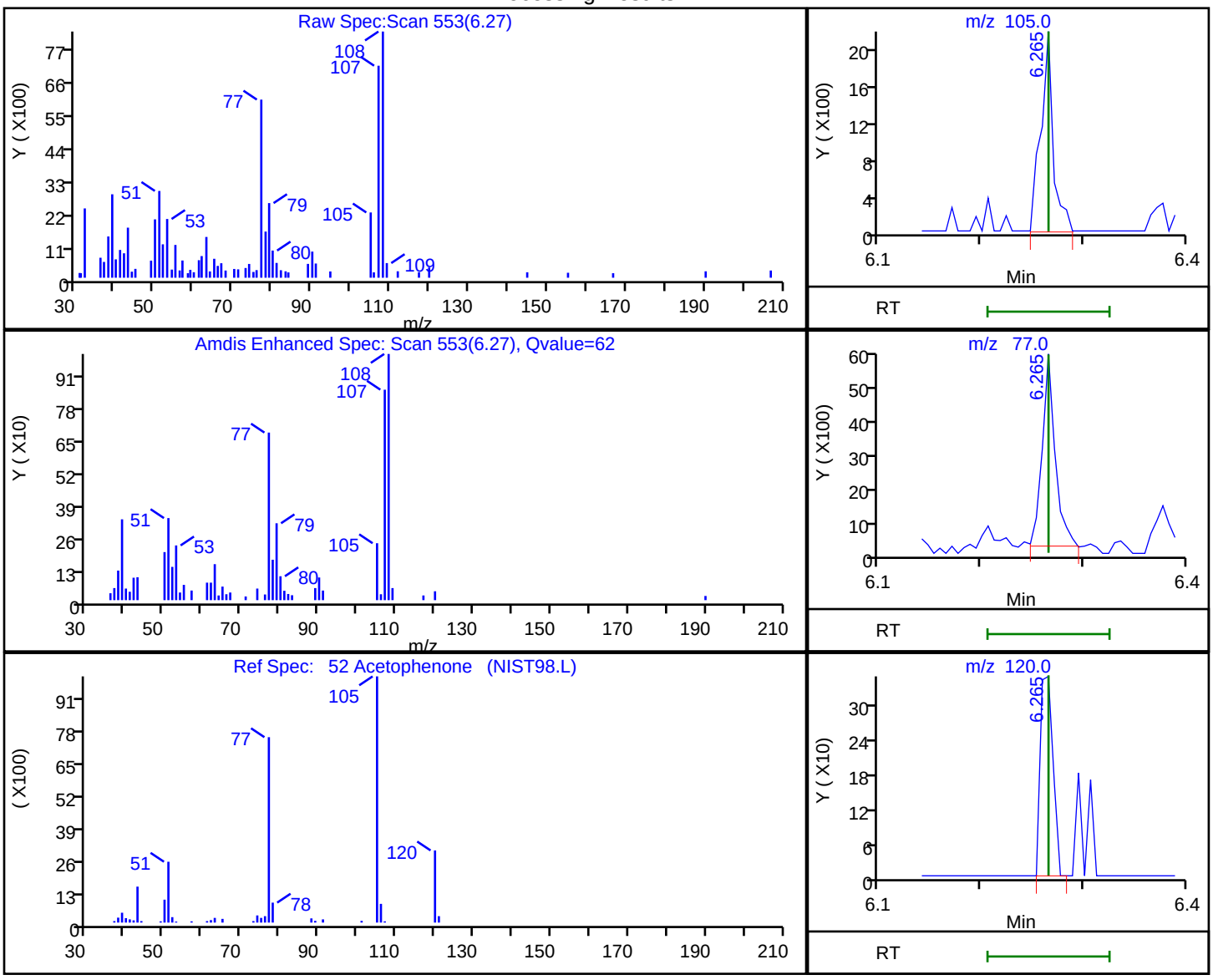
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

52 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
6.27	105.00	1863	0.026301
6.27	77.00	5203	
6.27	120.00	300	

Reviewer: IZ8L, 30-Oct-2024 15:15:05 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Buffalo

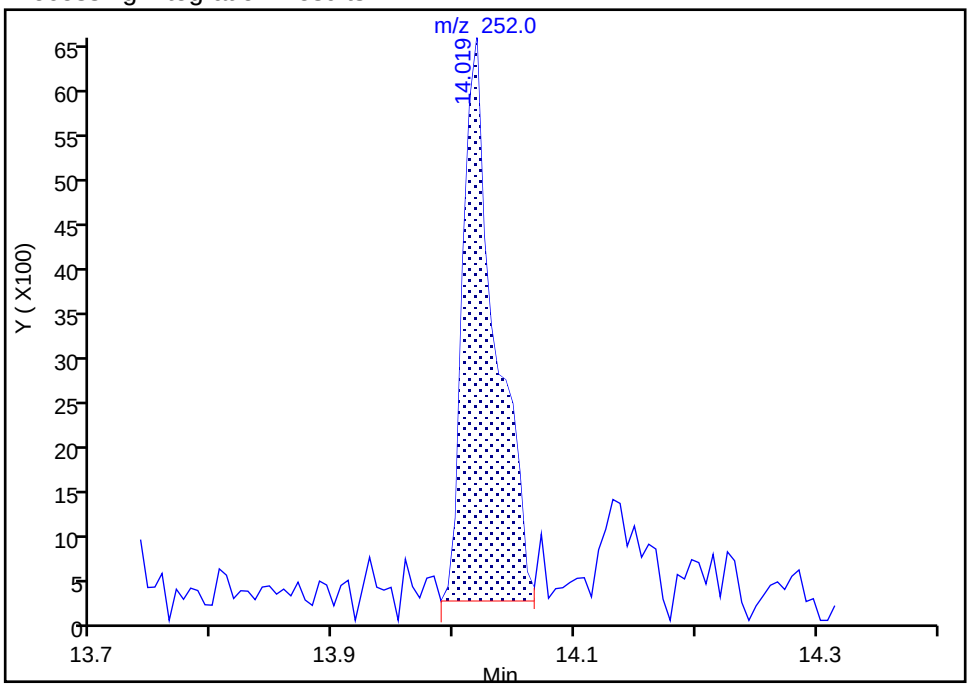
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

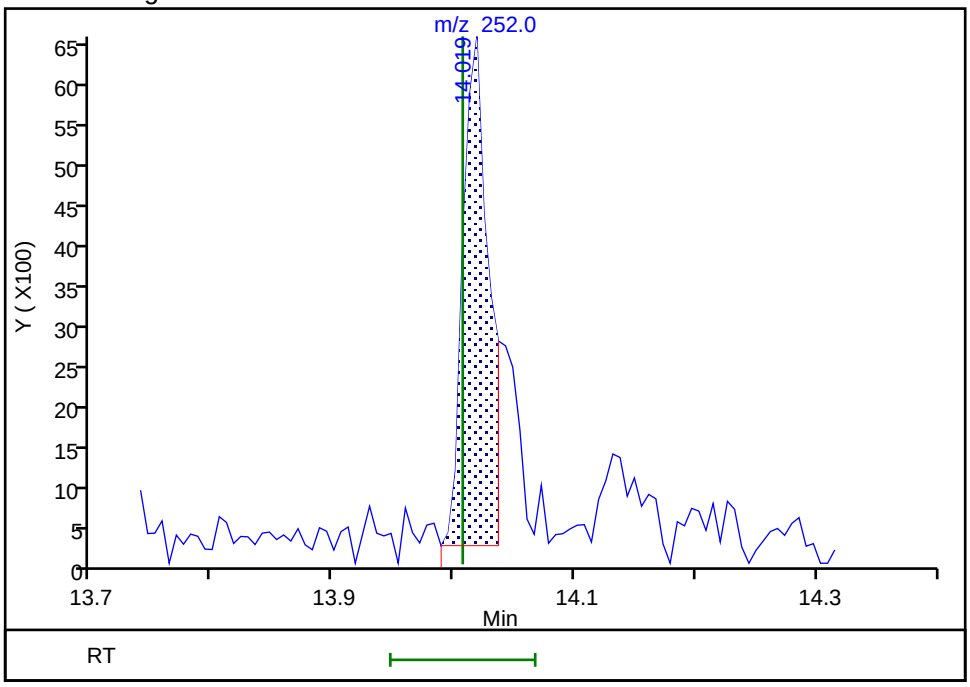
Processing Integration Results

RT: 14.02
Area: 11799
Amount: 0.081006
Amount Units: ng/uL



Manual Integration Results

RT: 14.02
Area: 9443
Amount: 0.068655
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:15:50 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Buffalo

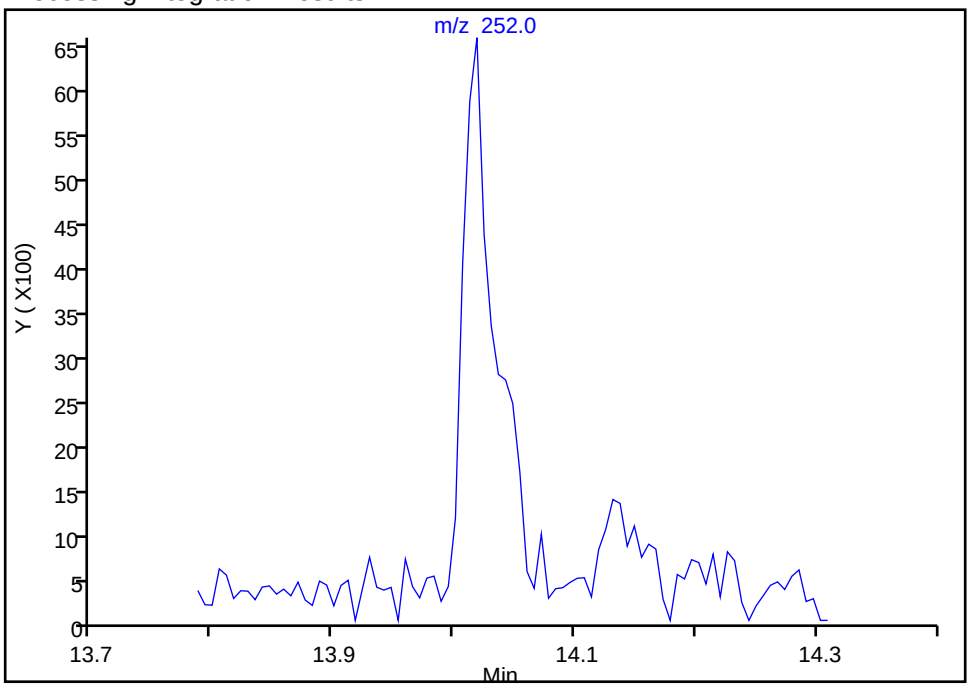
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

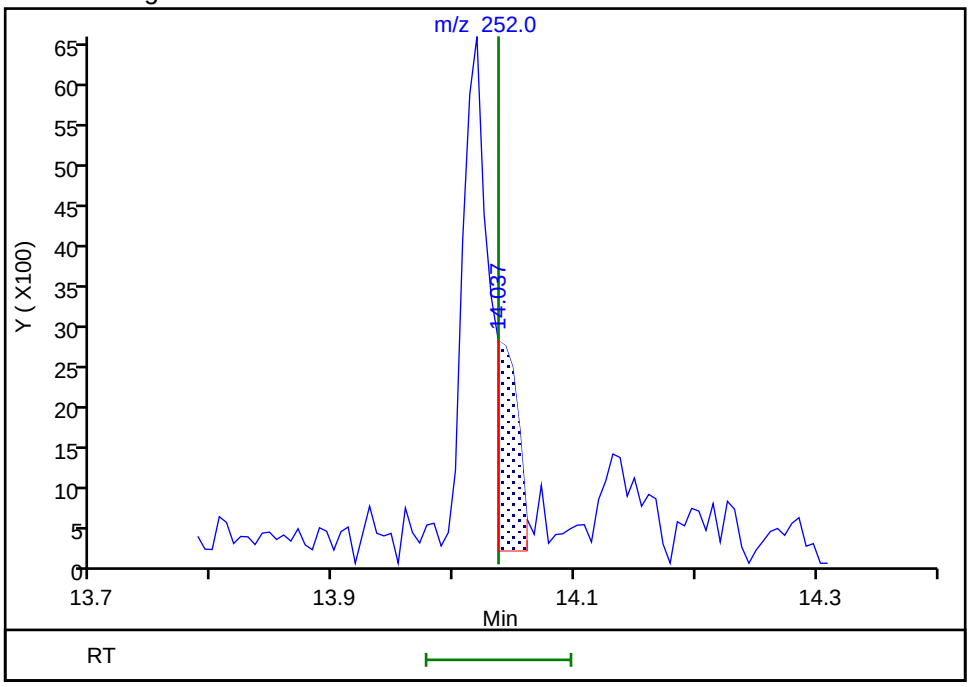
Not Detected
Expected RT: 14.04

Processing Integration Results



Manual Integration Results

RT: 14.04
Area: 3294
Amount: 0.017249
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:15:59 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

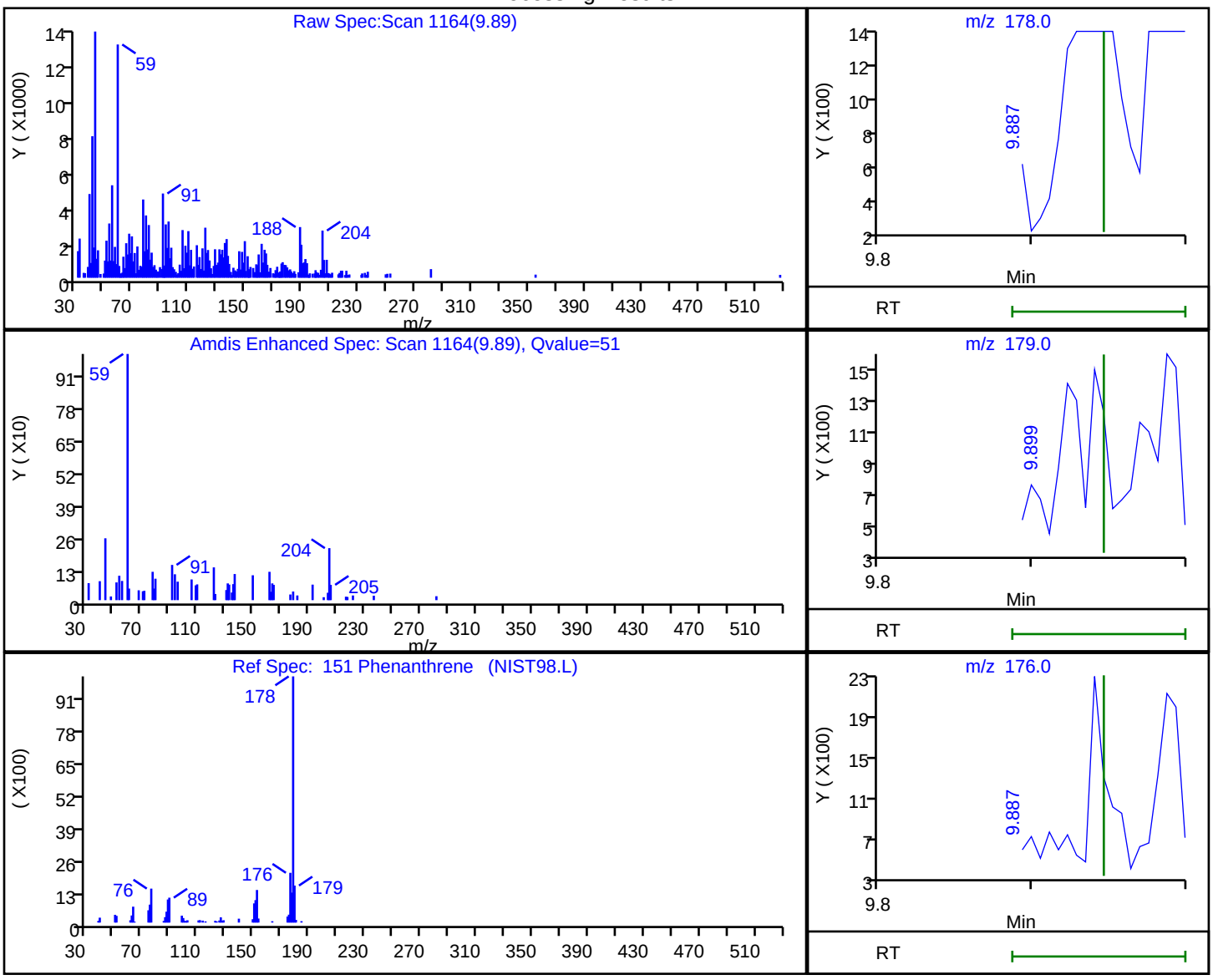
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04597.D				
Injection Date:	29-Oct-2024 23:07:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-A-18-A	Lab Sample ID:	480-224869-18		
Client ID:	MW-BCP-21A-10252024				
Operator ID:	JM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

151 Phenanthrene, CAS: 85-01-8

Processing Results



RT	Mass	Response	Amount
9.89	178.00	337	0.002029
9.90	179.00	459	
9.89	176.00	528	

Reviewer: IZ8L, 30-Oct-2024 15:15:37 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19A-10252024 | Lab Sample ID: 480-224869-19

Matrix: Water | Lab File ID: Y04607.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 12:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 300

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1500	200
108-60-1	bis (2-chloroisopropyl) ether	ND		1500	160
95-95-4	2,4,5-Trichlorophenol	ND		1500	140
88-06-2	2,4,6-Trichlorophenol	ND		1500	180
120-83-2	2,4-Dichlorophenol	ND		1500	150
105-67-9	2,4-Dimethylphenol	530	J	1500	150
51-28-5	2,4-Dinitrophenol	ND		3000	670
121-14-2	2,4-Dinitrotoluene	ND		1500	130
606-20-2	2,6-Dinitrotoluene	ND		1500	120
91-58-7	2-Chloronaphthalene	ND		1500	140
95-57-8	2-Chlorophenol	ND		1500	160
91-57-6	2-Methylnaphthalene	370	J	1500	180
95-48-7	2-Methylphenol	410	J	1500	120
88-74-4	2-Nitroaniline	ND		3000	130
88-75-5	2-Nitrophenol	ND		1500	140
91-94-1	3,3'-Dichlorobenzidine	ND		1500	120
99-09-2	3-Nitroaniline	ND		3000	140
534-52-1	4,6-Dinitro-2-methylphenol	ND		3000	660
101-55-3	4-Bromophenyl phenyl ether	ND		1500	140
59-50-7	4-Chloro-3-methylphenol	ND		1500	140
106-47-8	4-Chloroaniline	ND		1500	180
7005-72-3	4-Chlorophenyl phenyl ether	ND		1500	110
106-44-5	4-Methylphenol	ND		3000	110
100-01-6	4-Nitroaniline	ND		3000	75
100-02-7	4-Nitrophenol	ND	*+	3000	460
83-32-9	Acenaphthene	ND		1500	120
208-96-8	Acenaphthylene	ND		1500	110
98-86-2	Acetophenone	ND		1500	160
120-12-7	Anthracene	ND		1500	84
1912-24-9	Atrazine	ND		1500	140
100-52-7	Benzaldehyde	ND		1500	80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19A-10252024 | Lab Sample ID: 480-224869-19

Matrix: Water | Lab File ID: Y04607.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 12:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 300

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		1500	110
50-32-8	Benzo(a)pyrene	ND		1500	140
205-99-2	Benzo(b)fluoranthene	ND		1500	100
191-24-2	Benzo(g,h,i)perylene	ND		1500	110
207-08-9	Benzo(k)fluoranthene	ND		1500	220
111-91-1	Bis(2-chloroethoxy)methane	ND		1500	110
111-44-4	Bis(2-chloroethyl)ether	ND		1500	120
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1500	660
85-68-7	Butyl benzyl phthalate	ND		1500	300
105-60-2	Caprolactam	ND		1500	660
86-74-8	Carbazole	110	J	1500	90
218-01-9	Chrysene	ND		1500	99
84-74-2	Di-n-butyl phthalate	ND		1500	93
117-84-0	Di-n-octyl phthalate	ND		1500	140
53-70-3	Dibenz(a,h)anthracene	ND		1500	130
132-64-9	Dibenzofuran	ND		3000	150
84-66-2	Diethyl phthalate	ND		1500	66
131-11-3	Dimethyl phthalate	ND		1500	110
206-44-0	Fluoranthene	ND		1500	120
86-73-7	Fluorene	ND		1500	110
118-74-1	Hexachlorobenzene	ND		1500	150
87-68-3	Hexachlorobutadiene	ND		1500	200
77-47-4	Hexachlorocyclopentadiene	ND		1500	180
67-72-1	Hexachloroethane	ND		1500	180
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1500	140
78-59-1	Isophorone	ND		1500	130
621-64-7	N-Nitrosodi-n-propylamine	ND		1500	160
86-30-6	N-Nitrosodiphenylamine	ND		1500	150
91-20-3	Naphthalene	5800		1500	230
98-95-3	Nitrobenzene	ND		1500	87
87-86-5	Pentachlorophenol	ND		3000	660

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: MW-BCP-19A-10252024 | Lab Sample ID: 480-224869-19

Matrix: Water | Lab File ID: Y04607.D

Analysis Method: 8270D | Date Collected: 10/25/2024 09:40

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 12:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 300

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730403 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		1500	130
108-95-2	Phenol	ND		1500	120
129-00-0	Pyrene	ND		1500	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	S1-	25-144
321-60-8	2-Fluorobiphenyl	88		53-126
367-12-4	2-Fluorophenol	0	S1-	24-120
4165-60-0	Nitrobenzene-d5	0	S1-	29-129
1718-51-0	p-Terphenyl-d14	58		33-132
4165-62-2	Phenol-d5	0	S1-	10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D
Lims ID: 480-224869-B-19-A
Client ID: MW-BCP-19A-10252024
Sample Type: Client
Inject. Date: 30-Oct-2024 12:34:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 300.0000
Sample Info: 480-0120914-008
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:02:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.883	0.003	96	149305	4.00	
* 2 Naphthalene-d8	136	7.090	7.086	0.004	99	580517	4.00	
* 3 Acenaphthene-d10	164	8.649	8.651	-0.002	95	313224	4.00	
* 4 Phenanthrene-d10	188	9.923	9.926	-0.003	97	551205	4.00	
* 5 Chrysene-d12	240	12.774	12.777	-0.003	99	448752	4.00	
* 6 Perylene-d12	264	14.464	14.460	0.004	97	508008	4.00	
$ 7 2-Fluorophenol	112		4.638				ND	
$ 8 Phenol-d5	99		5.521				ND	
$ 9 Nitrobenzene-d5	82		6.410				ND	
$ 10 2-Fluorobiphenyl	172	8.038	8.035	0.003	95	2522	0.0234	
$ 11 2,4,6-Tribromophenol	330		9.327				ND	
$ 12 p-Terphenyl-d14	244	11.482	11.485	-0.003	93	1894	0.0156	a
35 Benzaldehyde	77		5.474				ND	
37 Phenol	94		5.533				ND	
39 Bis(2-chloroethyl)ether	93		5.604				ND	
40 2-Chlorophenol	128		5.699				ND	
48 2-Methylphenol	108	6.112	6.108	0.004	94	15096	0.3444	
49 2,2'-oxybis[1-chloropropane]	45		6.120				ND	
53 N-Nitrosodi-n-propylamine	70		6.244				ND	
57 4-Methylphenol	108	6.266	6.256	0.010	88	3691	0.0810	
52 Acetophenone	105		6.262				ND	
58 Hexachloroethane	117		6.375				ND	
59 Nitrobenzene	77		6.434				ND	
62 Isophorone	82		6.647				ND	
64 2-Nitrophenol	139		6.730				ND	
66 2,4-Dimethylphenol	107	6.764	6.748	0.016	91	22232	0.4397	
69 Bis(2-chloroethoxy)methane	93		6.819				ND	
72 2,4-Dichlorophenol	162		6.962				ND	
74 Naphthalene	128	7.107	7.110	-0.003	98	743015	4.84	
76 4-Chloroaniline	127		7.145				ND	
79 Hexachlorobutadiene	225		7.205				ND	
84 Caprolactam	113		7.466				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 4-Chloro-3-methylphenol	107		7.578				ND	
87 2-Methylnaphthalene	142	7.730	7.726	0.004	89	29367	0.3105	
90 Hexachlorocyclopentadiene	237		7.869				ND	
93 2,4,6-Trichlorophenol	196		7.981				ND	
94 2,4,5-Trichlorophenol	196		8.023				ND	
96 1,1'-Biphenyl	154	8.127	8.129	-0.002	93	4801	0.0418	
97 2-Chloronaphthalene	162		8.165				ND	
100 2-Nitroaniline	65		8.248				ND	
105 Dimethyl phthalate	163		8.372				ND	
107 2,6-Dinitrotoluene	165		8.438				ND	
108 Acenaphthylene	152	8.530	8.533	-0.002	98	8393	0.0605	
109 3-Nitroaniline	138		8.598				ND	
110 Acenaphthene	153		8.681				ND	
111 2,4-Dinitrophenol	184		8.693				ND	
112 4-Nitrophenol	109		8.752				ND	
114 2,4-Dinitrotoluene	165		8.799				ND	
115 Dibenzofuran	168	8.827	8.823	0.003	96	10354	0.0824	
120 Diethyl phthalate	149		8.965				ND	
123 4-Chlorophenyl phenyl ether	204		9.090				ND	
124 Fluorene	166	9.117	9.119	-0.002	94	7748	0.0863	
126 4-Nitroaniline	138		9.131				ND	
127 4,6-Dinitro-2-methylphenol	198		9.155				ND	
130 N-Nitrosodiphenylamine	169		9.190				ND	
139 4-Bromophenyl phenyl ether	248		9.511				ND	
140 Hexachlorobenzene	284		9.605				ND	
143 Atrazine	200		9.617				ND	
145 Pentachlorophenol	266		9.765				ND	
151 Phenanthrene	178	9.947	9.943	0.004	93	8805	0.0578	
152 Anthracene	178		9.991				ND	
153 Carbazole	167	10.125	10.121	0.004	97	12638	0.0933	
157 Di-n-butyl phthalate	149		10.358				ND	
164 Fluoranthene	202		11.111				ND	
167 Pyrene	202		11.372				ND	
174 Butyl benzyl phthalate	149		12.006				ND	
181 Bis(2-ethylhexyl) phthalate	149		12.664				ND	
179 3,3'-Dichlorobenzidine	252		12.700				ND	
180 Benzo[a]anthracene	228		12.765				ND	
182 Chrysene	228		12.806				ND	
184 Di-n-octyl phthalate	149		13.417				ND	
186 Benzo[b]fluoranthene	252		14.010				ND	
187 Benzo[k]fluoranthene	252		14.039				ND	
189 Benzo[a]pyrene	252		14.395				ND	
194 Dibenz(a,h)anthracene	278		15.936				ND	
193 Indeno[1,2,3-cd]pyrene	276		15.948				ND	
195 Benzo[g,h,i]perylene	276		16.393				ND	

QC Flag Legend

Processing Flags

Review Flags
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

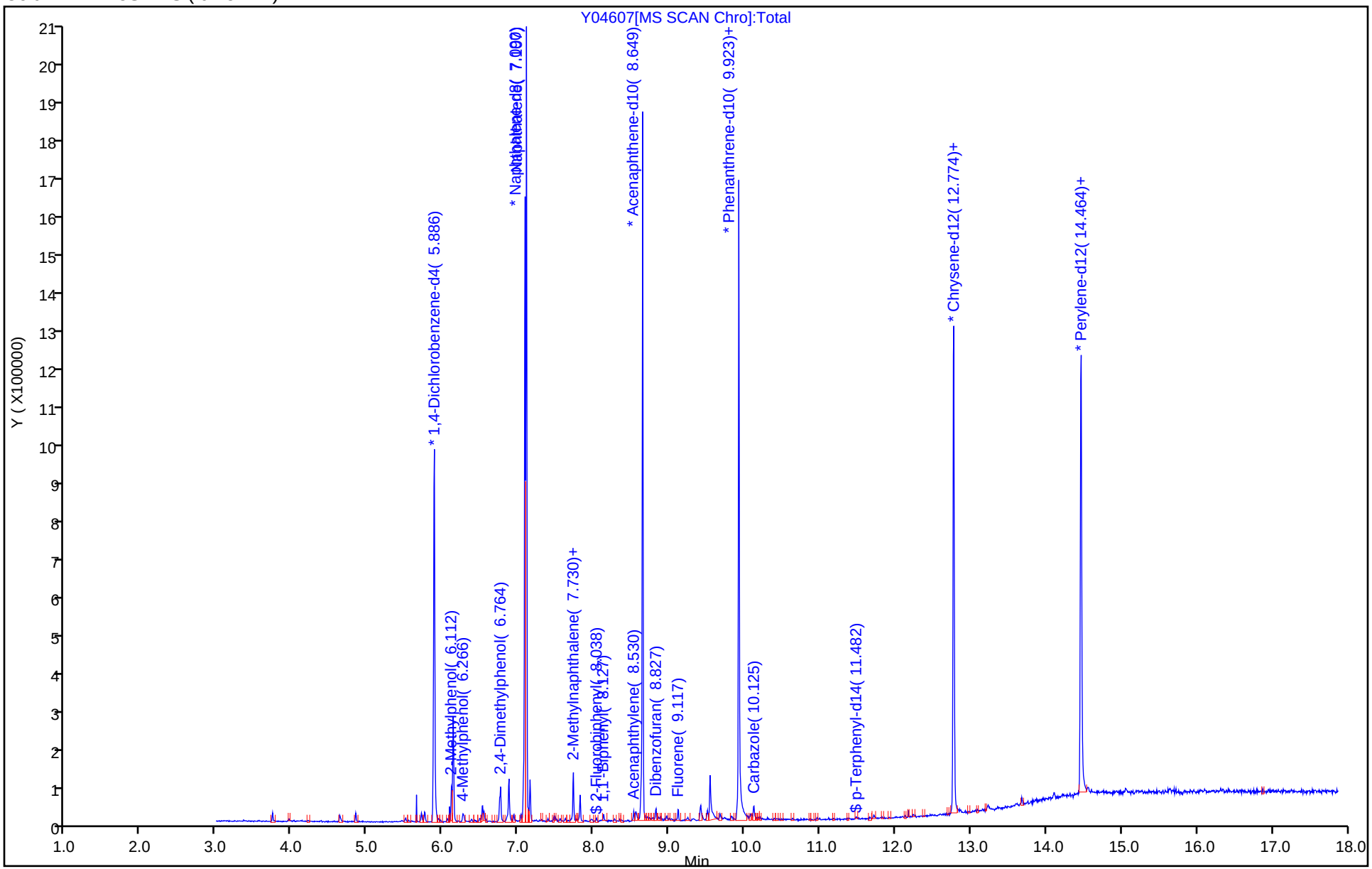
Report Date: 30-Oct-2024 16:06:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D

Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19	Worklist Smp#:	8
Client ID:	MW-BCP-19A-10252024				
Injection Vol:	2.0 ul	Dil. Factor:	300.0000	ALS Bottle#:	8
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D				
Lims ID:	480-224869-B-19-A				
Client ID:	MW-BCP-19A-10252024				
Sample Type:	Client				
Inject. Date:	30-Oct-2024 12:34:30	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Sample Info:	480-0120914-008				
Operator ID:	JM	Instrument ID:	HP5973Y		
Method:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m				
Limit Group:	MB - 8270D ICAL				
Last Update:	30-Oct-2024 16:06:33	Calib Date:	11-Oct-2024 18:51:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D				
Column 1 :	RXI-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1636				

First Level Reviewer: IZ8L Date: 30-Oct-2024 16:02:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorobiphenyl	8.00	0.0234	87.85
$ 12 p-Terphenyl-d14	8.00	0.0156	58.39

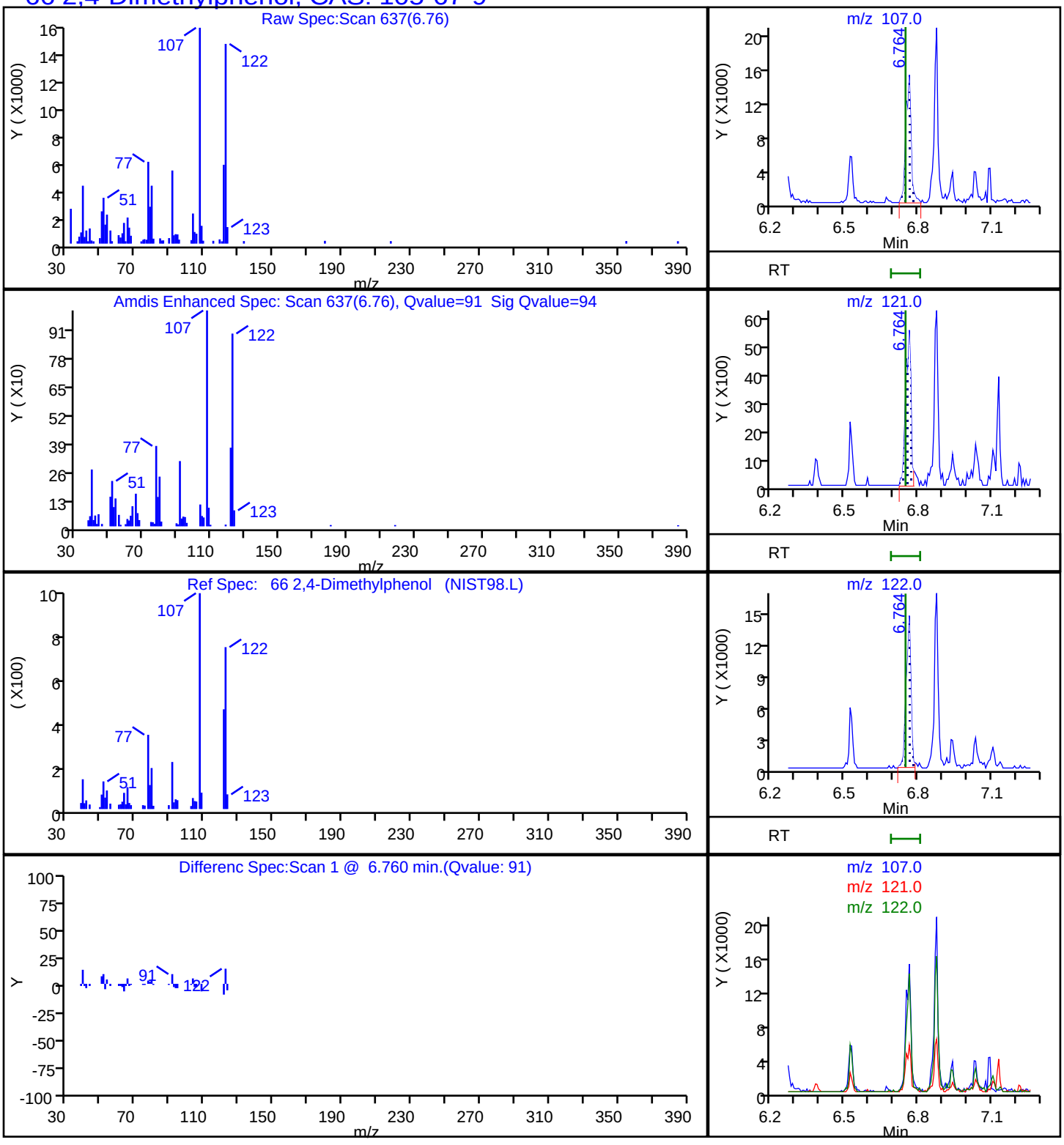
Report Date: 30-Oct-2024 16:06:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D

Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dimethylphenol, CAS: 105-67-9



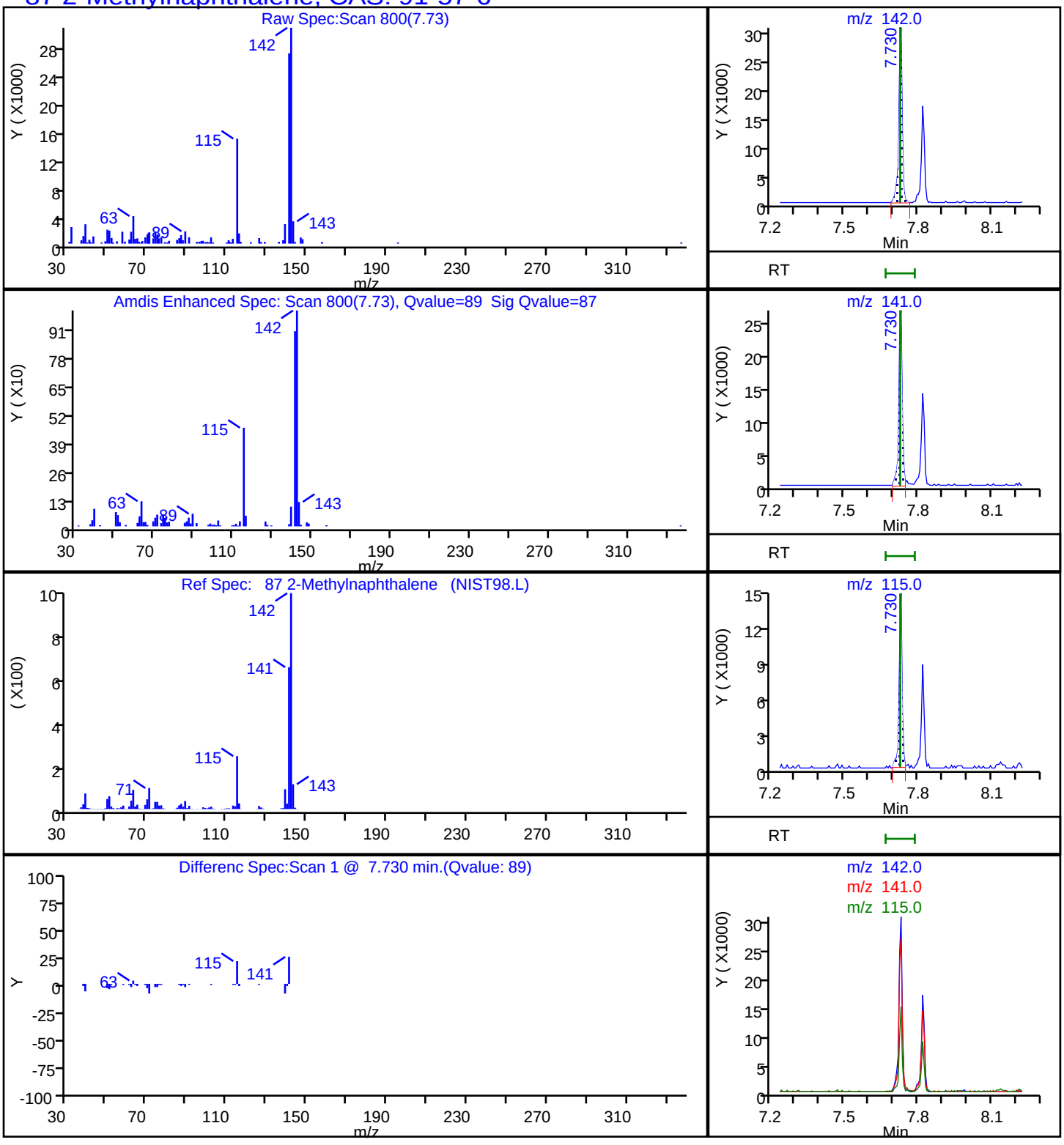
Report Date: 30-Oct-2024 16:06:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D

Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

87 2-Methylnaphthalene, CAS: 91-57-6



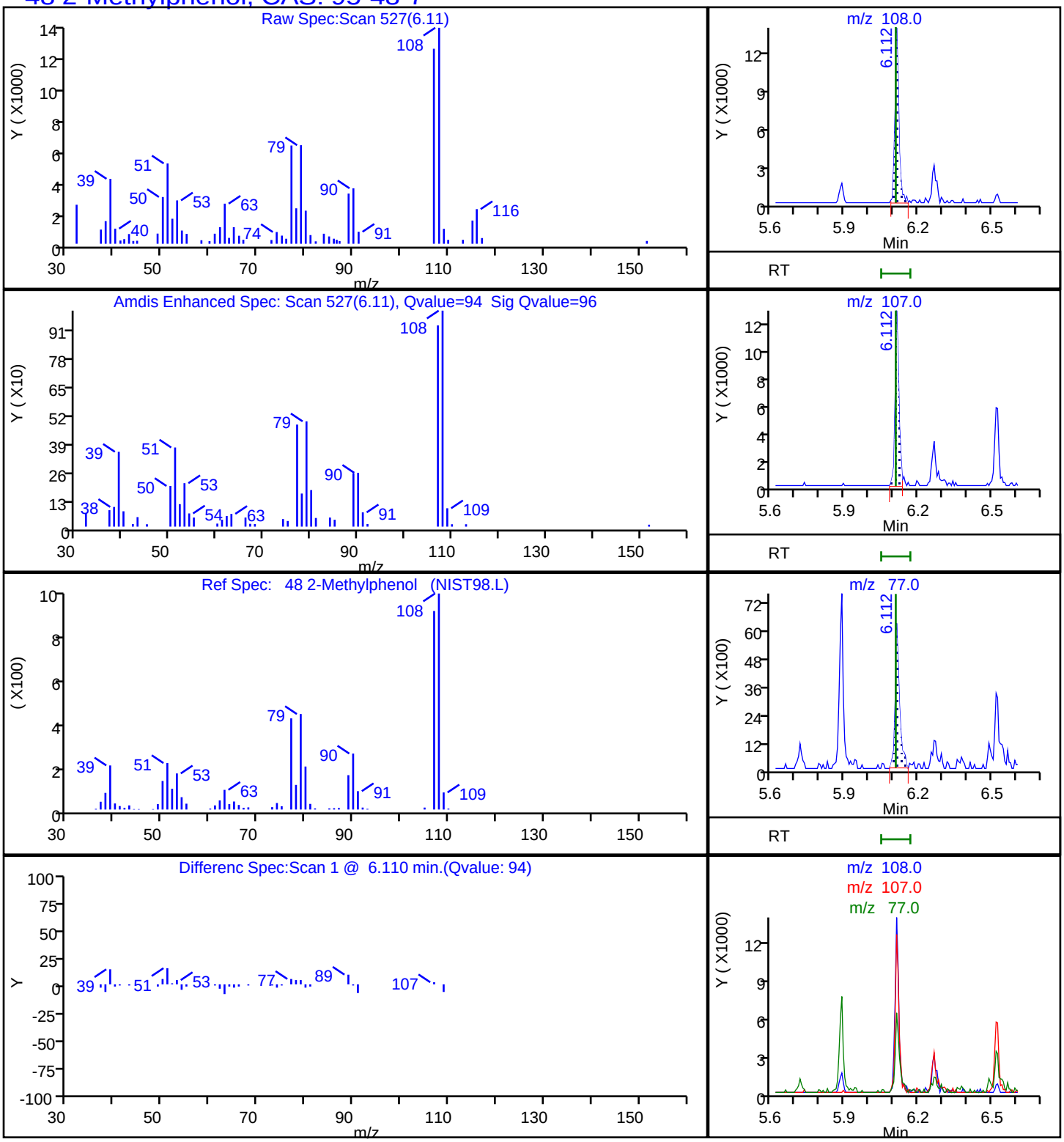
Report Date: 30-Oct-2024 16:06:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D

Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

48 2-Methylphenol, CAS: 95-48-7



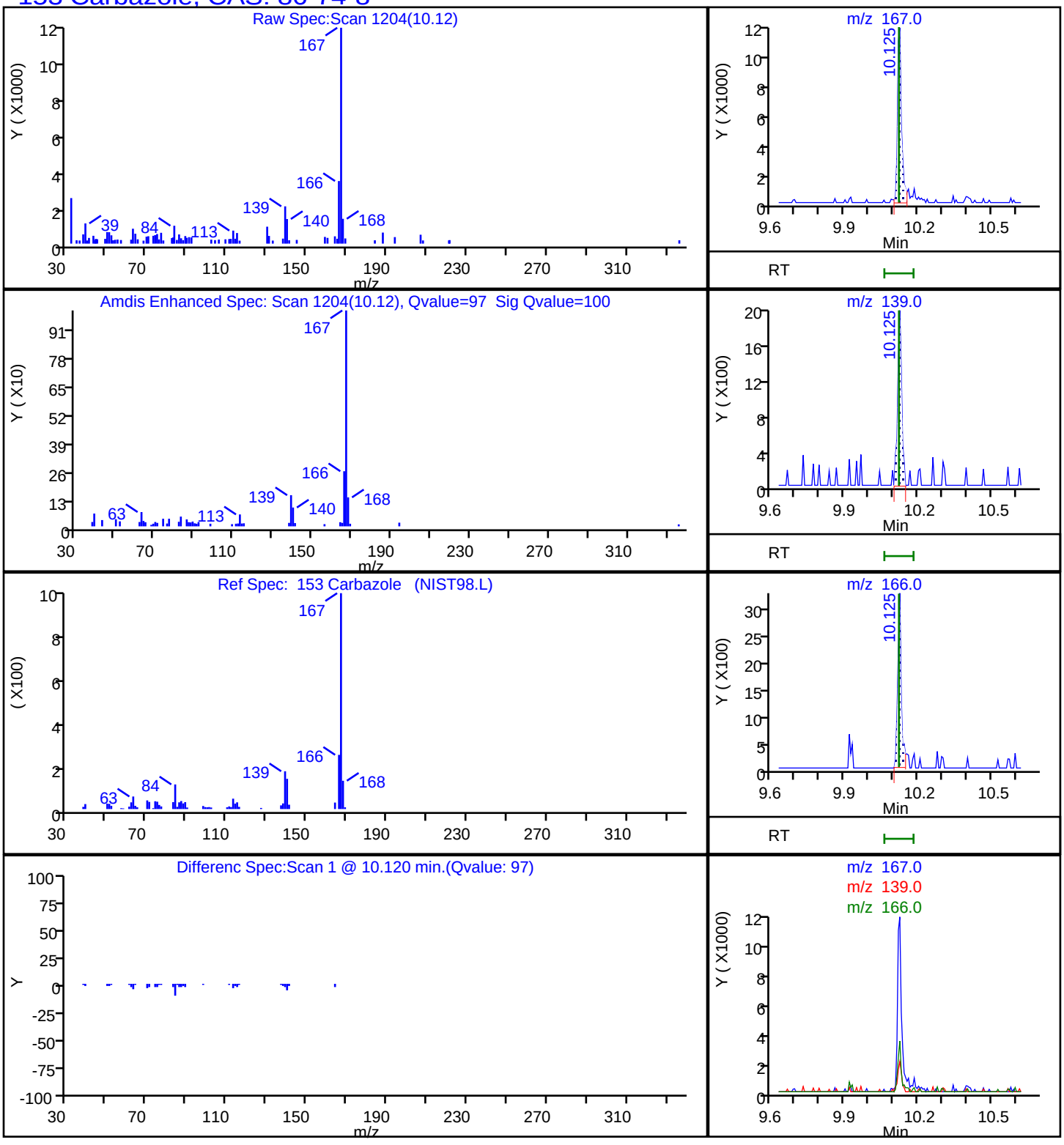
Report Date: 30-Oct-2024 16:06:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D

Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

153 Carbazole, CAS: 86-74-8



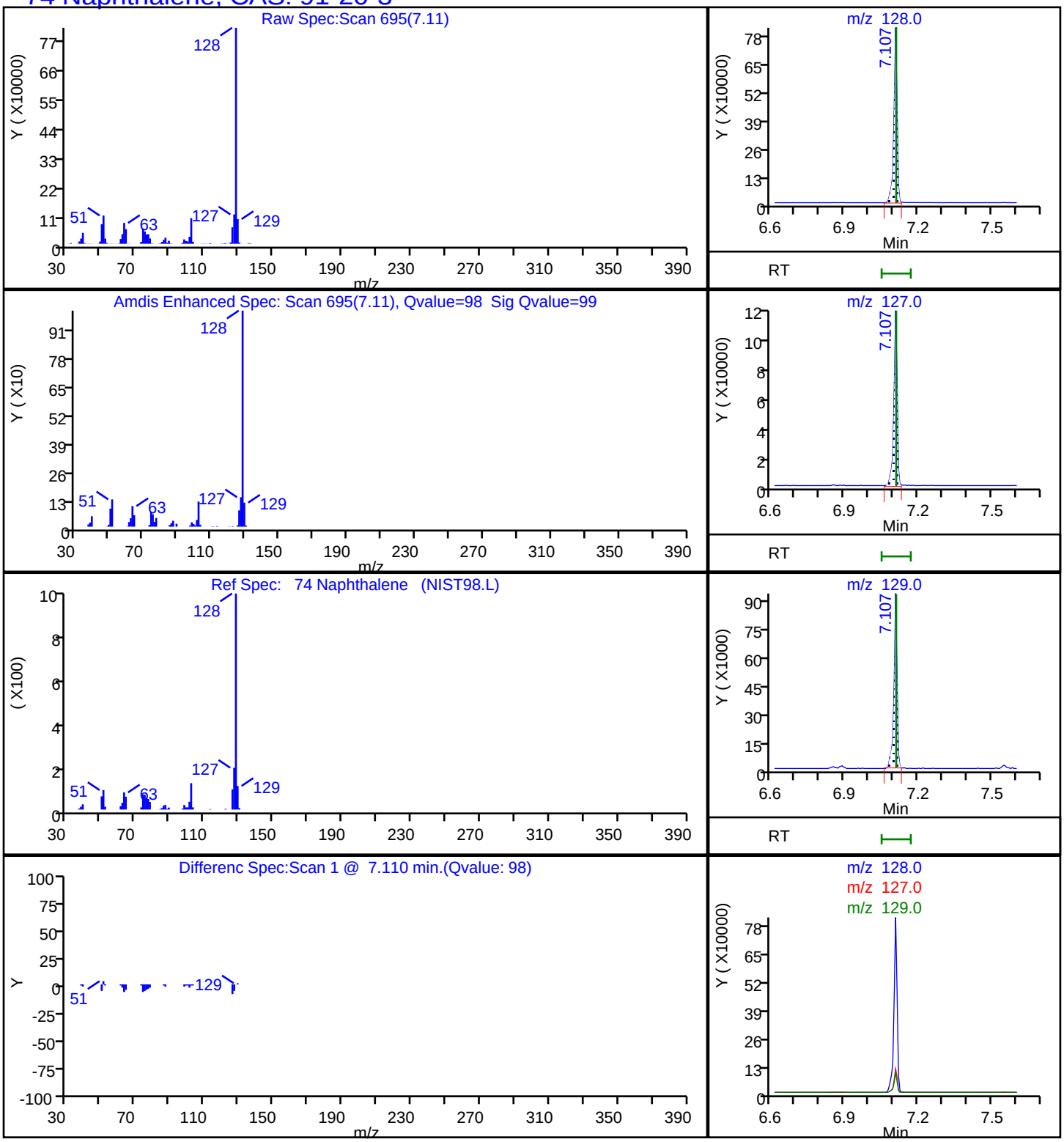
Report Date: 30-Oct-2024 16:06:49 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D

Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

Eurofins Buffalo

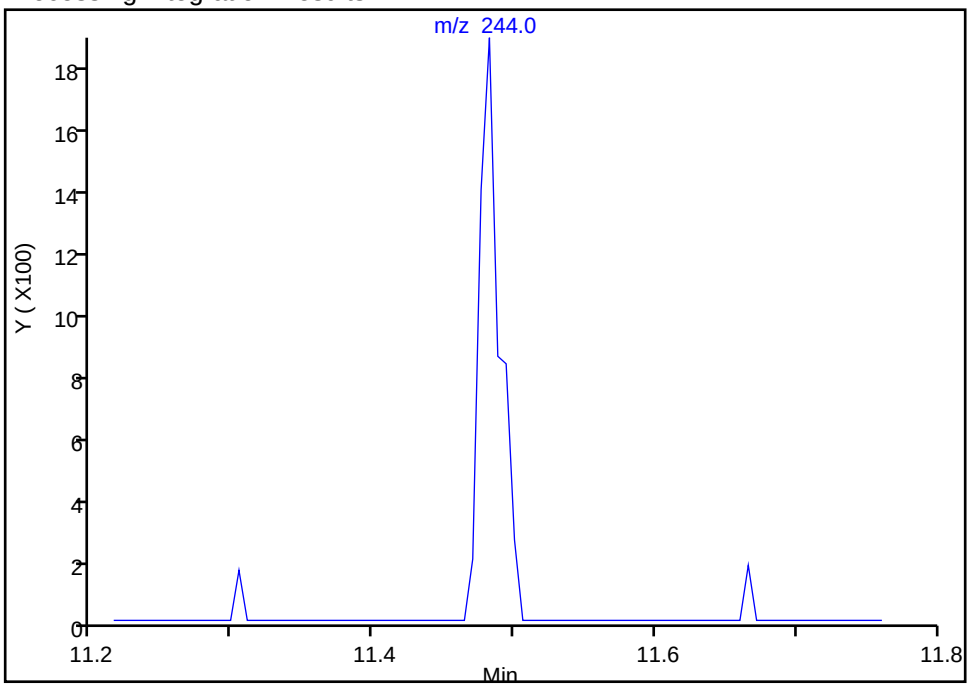
Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04607.D				
Injection Date:	30-Oct-2024 12:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-224869-B-19-A	Lab Sample ID:	480-224869-19		
Client ID:	MW-BCP-19A-10252024				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	300.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

$ 12 p-Terphenyl-d14, CAS: 1718-51-0

Signal: 1

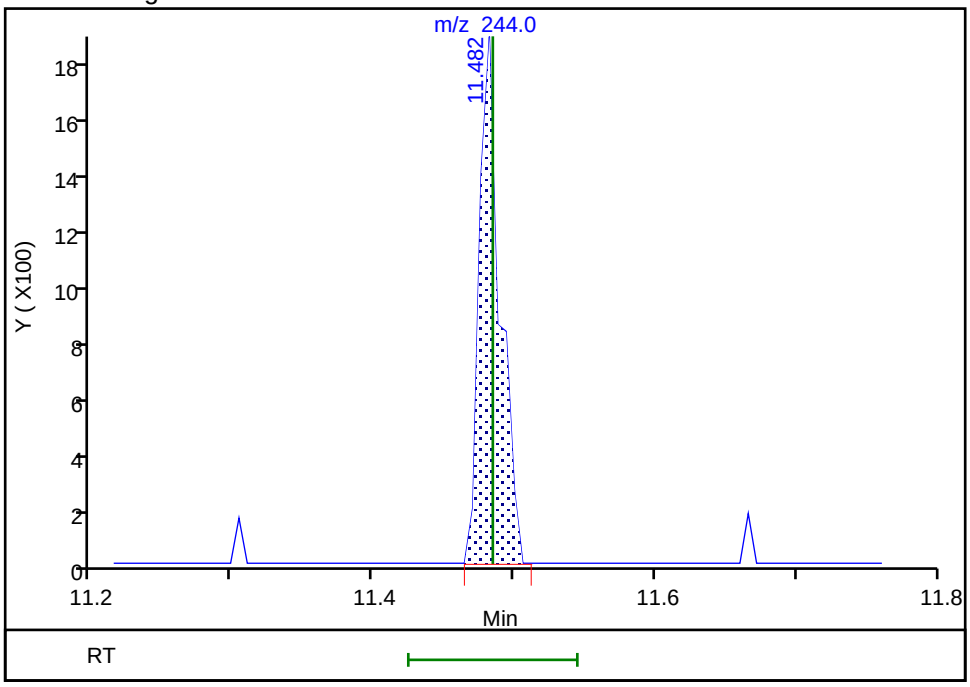
Not Detected
Expected RT: 11.48

Processing Integration Results



Manual Integration Results

RT: 11.48
Area: 1894
Amount: 0.015570
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 16:01:36 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-727763/3	Y04075.D
Level 2	IC 480-727763/4	Y04076.D
Level 3	IC 480-727763/5	Y04077.D
Level 4	IC 480-727763/6	Y04078.D
Level 5	ICIS 480-727763/7	Y04079.D
Level 6	IC 480-727763/8	Y04080.D
Level 7	IC 480-727763/9	Y04081.D
Level 8	IC 480-727763/10	Y04082.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.5130	0.5207 0.4805	0.4978 0.4743	0.4929	0.4830	Ave		0.4946			0.0100	3.5		20.0			
N-Nitrosodimethylamine	0.6419	0.6684 0.6227	0.6243 0.5962	0.6368	0.6134	Ave		0.6291			0.0100	3.6		20.0			
Pyridine	0.7535	0.6144 0.7336	0.6071 0.7365	0.6296	0.6591	Lin2	-0.134	0.7146			0.0100	6.4		20.0	0.9950		0.9900
Benzaldehyde	1.0057	1.1250 0.8977	1.0795 0.8155	1.0949	0.9939	Lin2	0.1152	0.9356			0.0100	9.0		20.0	0.9900		0.9900
Phenol	1.6183	1.5626 1.5865	1.4826 1.5302	1.5490	1.5061	Ave		1.5479			0.8000	3.0		20.0			
Aniline	2.0524	1.8506 1.9274	1.7843 1.9315	1.8579	1.8159	Ave		1.8886			0.0100	4.8		20.0			
Bis(2-chloroethyl)ether	1.2600	1.4208 1.2514	1.3631 1.1641	1.4204	1.2910	Lin2	0.1005	1.2524			0.7000	5.6		20.0	0.9960		0.9900
n-Decane	1.5307	1.5983 1.4225	1.5145 1.3789	1.5099	1.4665	Ave		1.4887			0.0100	4.9		20.0			
2-Chlorophenol	1.3568	1.3028 1.2779	1.2326 1.2811	1.3009	1.2628	Ave		1.2879			0.8000	3.0		20.0			
1,3-Dichlorobenzene	1.5799	1.5975 1.4897	1.5280 1.4669	1.5599	1.4728	Ave		1.5278			0.0100	3.5		20.0			
1,4-Dichlorobenzene	1.6198	1.6272 1.5534	1.5362 1.5215	1.5752	1.5214	Ave		1.5650			0.0100	2.8		20.0			
Benzyl alcohol	0.8713	0.7684 0.8565	0.7544 0.8365	0.8178	0.7968	Lin2	-0.047	0.8417			0.0100	3.7		20.0	0.9980		0.9900
1,2-Dichlorobenzene	1.5162	1.4789 1.4725	1.4560 1.4346	1.4794	1.4384	Ave		1.4680			0.0100	1.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Methylphenol	1.2315	1.1960 1.1806	1.1416 1.1480	1.1883	1.1345	Ave		1.1744			0.7000	3.0		20.0			
bis (2-chloroisopropyl) ether	2.0216	2.1749 1.9088	2.0828 1.8474	2.1058	1.9681	Lin2	0.1321	1.9397			0.0100	3.8		20.0	0.9980		0.9900
Indene	2.3506	2.5901 2.1305	2.4626 1.9362	2.5177	2.3976	Lin2	1.3499	2.2115			0.0100	8.2		20.0	0.9920		0.9900
4-Methylphenol	1.2621	1.1765 1.2637	1.2146 1.2035	1.2170	1.2063	Ave		1.2205			0.6000	2.6		20.0			
N-Nitrosodi-n-propylamine	0.9111	0.8847 0.8838	0.8697 0.8612	0.8959	0.8694	Ave		0.8823			0.5000	2.0		20.0			
Acetophenone	1.7130	1.7556 1.6732	1.6684 1.6896	1.7347	1.6747	Ave		1.7013			0.0100	2.0		20.0			
Hexachloroethane	0.6217	0.6200 0.6036	0.5653 0.5811	0.6019	0.5737	Ave		0.5953			0.3000	3.8		20.0			
Nitrobenzene	0.4013	0.3724 0.3747	0.3485 0.3718	0.3659	0.3698	Ave		0.3721			0.2000	4.2		20.0			
Isophorone	0.7145	0.6423 0.6492	0.6447 0.6554	0.6624	0.6496	Ave		0.6597			0.4000	3.8		20.0			
2-Nitrophenol	0.2060	0.1589 0.1892	0.1574 0.1919	0.1743	0.1798	Lin2	-0.020	0.1913			0.1000	5.9		20.0	0.9960		0.9900
2,4-Dimethylphenol	0.3800	0.3333 0.3485	0.3308 0.3510	0.3489	0.3459	Ave		0.3484			0.2000	4.6		20.0			
Bis(2-chloroethoxy)methane	0.4324	0.4146 0.3939	0.3788 0.3968	0.3960	0.4083	Ave		0.4030			0.3000	4.3		20.0			
Benzoic acid	0.1642	+++++ 0.1720	0.0306 0.1933	0.0710	0.1139	Lin1	-1.245	0.1941			0.0100	14.8		20.0	0.9910		0.9900
2,4-Dichlorophenol	0.3273	0.2673 0.2997	0.2669 0.3045	0.2897	0.2929	Lin2	-0.024	0.3062			0.2000	4.6		20.0	0.9970		0.9900
1,2,4-Trichlorobenzene	0.3631	0.3345 0.3377	0.3204 0.3396	0.3306	0.3472	Ave		0.3390			0.0100	4.0		20.0			
Naphthalene	1.0554 1.1204	1.1020 1.0368	1.0270 1.0265	1.0637	1.0224	Ave		1.0568			0.7000	3.5		20.0			
4-Chloroaniline	0.4438	0.3934 0.3954	0.3865 0.4061	0.4008	0.4015	Ave		0.4039			0.0100	4.6		20.0			
2,6-Dichlorophenol	0.3195	0.2862 0.2985	0.2821 0.3029	0.2926	0.2936	Ave		0.2965			0.0100	4.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.2118	0.1995 0.1935	0.1877 0.1994	0.1955	0.1893	Ave		0.1967			0.0100	4.1		20.0			
Caprolactam	0.1147	0.0958 0.1053	0.0958 0.1128	0.1074	0.1041	Lin2	-0.008	0.1099			0.0100	4.4		20.0	0.9980		0.9900
4-Chloro-3-methylphenol	0.3106	0.2523 0.2797	0.2527 0.2862	0.2835	0.2798	Lin2	-0.022	0.2907			0.2000	4.7		20.0	0.9970		0.9900
2-Methylnaphthalene	0.6317 0.6968	0.6611 0.6399	0.6377 0.6353	0.6650	0.6467	Ave		0.6518			0.4000	3.3		20.0			
1-Methylnaphthalene	0.6180 0.7198	0.6762 0.6538	0.6429 0.6580	0.6694	0.6628	Ave		0.6626			0.0100	4.4		20.0			
Hexachlorocyclopentadiene	0.2638	0.0981 0.2677	0.1395 0.2707	0.1946	0.2234	Lin2	-0.091	0.2606			0.0500	8.7		20.0	0.9900		0.9900
1,2,4,5-Tetrachlorobenzene	0.6246	0.5877 0.5934	0.5902 0.5850	0.5887	0.5748	Ave		0.5921			0.0100	2.6		20.0			
2,4,6-Trichlorophenol	0.3864	0.2974 0.3750	0.3106 0.3745	0.3352	0.3503	Lin2	-0.044	0.3721			0.2000	4.3		20.0	0.9980		0.9900
2,4,5-Trichlorophenol	0.4093	0.3001 0.3908	0.3099 0.4105	0.3490	0.3676	Lin2	-0.057	0.3950			0.2000	5.6		20.0	0.9960		0.9900
Biphenyl	1.5299	1.4665 1.4475	1.4837 1.4166	1.4764	1.4514	Ave		1.4674			0.0100	2.4		20.0			
2-Chloronaphthalene	1.2275	1.2181 1.1617	1.1190 1.1381	1.1899	1.1550	Ave		1.1727			0.8000	3.5		20.0			
2-Nitroaniline	0.3499	0.2607 0.3265	0.2873 0.3320	0.3074	0.3177	Lin2	-0.039	0.3343			0.0100	3.3		20.0	0.9990		0.9900
Dimethyl phthalate	1.3423	1.2523 1.2713	1.2823 1.2586	1.2629	1.2196	Ave		1.2699			0.0100	2.9		20.0			
1,3-Dinitrobenzene	0.1226	0.0769 0.1192	0.0822 0.1235	0.0960	0.1076	Lin2	-0.025	0.1181			0.0100	7.8		20.0	0.9920		0.9900
2,6-Dinitrotoluene	0.3175	0.2393 0.2891	0.2813 0.2868	0.2748	0.2935	Lin2	-0.028	0.2996			0.2000	4.4		20.0	0.9980		0.9900
Acenaphthylene	1.6013 1.8862	1.8092 1.7506	1.7783 1.7333	1.8108	1.8036	Ave		1.7717			0.9000	4.7		20.0			
3-Nitroaniline	0.3220	0.2249 0.3094	0.2425 0.3067	0.2787	0.2937	Lin2	-0.048	0.3102			0.0100	4.3		20.0	0.9980		0.9900
Acenaphthene	1.1529 1.2306	1.2051 1.1672	1.1784 1.1819	1.2064	1.1673	Ave		1.1862			0.9000	2.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2,4-Dinitrophenol	0.1220	+++++ 0.1319	0.0386 0.1413	0.0647	0.0855	Lin1	-0.270	0.1428			0.0100	14.3		20.0	0.9920		0.9900
4-Nitrophenol	0.1373	0.0707 0.1325	0.0864 0.1360	0.1041	0.1179	Lin2	-0.069	0.1320			0.0100	7.3		20.0	0.9930		0.9900
2,4-Dinitrotoluene	0.4067	0.3033 0.3859	0.3300 0.3892	0.3467	0.3606	Lin2	-0.047	0.3872			0.2000	4.3		20.0	0.9980		0.9900
Dibenzofuran	1.5670 1.6835	1.6454 1.5484	1.5971 1.5623	1.6320	1.5990	Ave		1.6043			0.8000	2.9		20.0			
2,3,4,6-Tetrachlorophenol	0.2961	0.1824 0.2910	0.1975 0.2859	0.2292	0.2507	Lin2	-0.058	0.2810			0.0100	8.0		20.0	0.9920		0.9900
Hexadecane	0.8548	0.8248 0.7771	0.7851 0.7273	0.8201	0.7899	Ave		0.7970			0.0100	5.1		20.0			
Diethyl phthalate	1.3357	1.2309 1.2226	1.2347 1.2274	1.2742	1.2600	Ave		1.2550			0.0100	3.2		20.0			
4-Chlorophenyl phenyl ether	0.6760	0.6613 0.6102	0.6230 0.6095	0.6357	0.6215	Ave		0.6339			0.4000	4.1		20.0			
Fluorene	1.1877 1.4297	1.4059 1.2491	1.3576 1.3167	1.3614	1.3196	Lin2	-0.018	1.3555			0.9000	5.0		20.0	0.9970		0.9900
4-Nitroaniline	0.3424	0.2734 0.3187	0.2756 0.3226	0.3106	0.3138	Lin2	-0.031	0.3259			0.0100	4.2		20.0	0.9980		0.9900
4,6-Dinitro-2-methylphenol	0.1175	0.0481 0.1160	0.0640 0.1264	0.0883	0.0970	Lin1	-0.103	0.1234			0.0100	12.2		20.0	0.9960		0.9900
Diphenylamine	0.6855	0.6257 0.6555	0.6309 0.6529	0.6553	0.6245	Ave		0.6472			0.0100	3.4		20.0			
N-Nitrosodiphenylamine	0.5861	0.5350 0.5605	0.5394 0.5582	0.5603	0.5340	Ave		0.5533			0.0100	3.4		20.0			
1,2-Diphenylhydrazine	0.7622	0.7397 0.7169	0.7123 0.6988	0.7788	0.7481	Ave		0.7367			0.0100	3.9		20.0			
trans-Azobenzene	0.7622	0.7397 0.7169	0.7123 0.6988	0.7788	0.7481	Ave		0.7367			0.0100	3.9		20.0			
4-Bromophenyl phenyl ether	0.2428	0.2171 0.2275	0.2186 0.2263	0.2255	0.2228	Ave		0.2258			0.1000	3.8		20.0			
Hexachlorobenzene	0.2553	0.2448 0.2496	0.2244 0.2379	0.2504	0.2397	Ave		0.2431			0.1000	4.2		20.0			
Atrazine	0.3463	0.3507 0.3307	0.3338 0.2917	0.3478	0.3314	Lin2	0.0136	0.3254			0.0100	5.9		20.0	0.9960		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octadecane	0.5061	0.4724 0.4721	0.4838 0.4618	0.5188	0.5033	Ave		0.4883			0.0100	4.4		20.0			
Pentachlorophenol	0.1136	0.0290 0.1194	0.0414 0.1195	0.0630	0.0842	Lin1	-0.137	0.1207			0.0500	20.7	*	20.0	0.9910		0.9900
Phenanthrene	1.1079 1.1245	1.1425 1.0733	1.0794 1.0802	1.1280	1.1104	Ave		1.1058			0.7000	2.3		20.0			
Anthracene	1.0100 1.1640	1.1017 1.0958	1.0976 1.1031	1.1717	1.1073	Ave		1.1064			0.7000	4.5		20.0			
Carbazole	1.0198	0.9607 0.9741	0.9613 0.9625	1.0153	0.9878	Ave		0.9831			0.0100	2.6		20.0			
Di-n-butyl phthalate	1.3401	1.2259 1.2602	1.2347 1.2239	1.2884	1.2794	Ave		1.2647			0.0100	3.3		20.0			
Fluoranthene	1.1480 1.2450	1.1257 1.1923	1.1381 1.1437	1.2223	1.1765	Ave		1.1740			0.6000	3.7		20.0			
Benzidine	0.9092	0.6844 0.8802	0.7918 0.7978	0.7445	0.7749	Lin2	-0.161	0.8437			0.0100	6.7		20.0	0.9940		0.9900
Pyrene	1.2469 1.4414	1.3480 1.3443	1.3448 1.2800	1.3927	1.3187	Ave		1.3396			0.6000	4.5		20.0			
Butyl benzyl phthalate	0.6766	0.5334 0.6583	0.5785 0.6133	0.6115	0.5969	Lin2	-0.057	0.6427			0.0100	4.3		20.0	0.9980		0.9900
Bis(2-ethylhexyl) phthalate	0.9697	0.7612 0.9196	0.8121 0.8513	0.8962	0.8871	Lin2	-0.081	0.9178			0.0100	4.6		20.0	0.9970		0.9900
3,3'-Dichlorobenzidine	0.6993	0.6153 0.6620	0.6062 0.6210	0.5973	0.6307	Lin2	-0.047	0.6466			0.0100	5.4		20.0	0.9960		0.9900
Benzo(a)anthracene	1.3814 1.4379	1.3782 1.3760	1.3477 1.3087	1.3932	1.3338	Ave		1.3696			0.8000	2.9		20.0			
Chrysene	1.2455 1.2995	1.2671 1.2668	1.2332 1.1868	1.2917	1.2207	Ave		1.2514			0.7000	3.0		20.0			
Di-n-octyl phthalate	1.6104	1.3055 1.5489	1.3993 1.4642	1.5090	1.5011	Lin2	-0.124	1.5483			0.0100	3.3		20.0	0.9990		0.9900
Benzo(b)fluoranthene	1.1028 1.3951	1.2035 1.2554	1.1342 1.2763	1.3187	1.2682	Lin2	-0.025	1.2812			0.7000	5.8		20.0	0.9970		0.9900
Benzo(k)fluoranthene	1.2077 1.2933	1.3562 1.2980	1.2668 1.1984	1.4090	1.2309	Ave		1.2825			0.7000	5.7		20.0			
Benzo(a)pyrene	0.9422 1.2171	1.0964 1.1564	1.0658 1.1055	1.1392	1.1181	Lin2	-0.026	1.1438			0.7000	3.7		20.0	0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224869-1 Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 Calibration End Date: 10/10/2024 18:00 Calibration ID: 47387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibenz(a,h)anthracene	0.9314 1.2053	1.1038 1.1419	1.0595 1.0922	1.1070	1.1226	Lin2	-0.025	1.1336			0.4000	3.7		20.0	0.9990		0.9900
Indeno(1,2,3-cd)pyrene	1.1904 1.5095	1.3328 1.4192	1.3057 1.3314	1.4091	1.3937	Lin2	-0.028	1.4033			0.5000	4.4		20.0	0.9980		0.9900
Benzo(g,h,i)perylene	0.9518 1.1747	1.0935 1.0839	1.0503 1.0366	1.0982	1.0997	Lin2	-0.018	1.1008			0.5000	4.1		20.0	0.9980		0.9900
2-Fluorophenol	1.3078	1.2140 1.2417	1.1704 1.2544	1.2561	1.1829	Ave		1.2325			0.0100	3.8		20.0			
Phenol-d5	1.5795	1.5086 1.5368	1.4629 1.5178	1.5456	1.5075	Ave		1.5227			0.0100	2.4		20.0			
Nitrobenzene-d5	0.4093	0.3608 0.3729	0.3468 0.3768	0.3668	0.4035	Lin2	-0.019	0.3874			0.0100	5.2		20.0	0.9970		0.9900
2-Fluorobiphenyl	1.4187	1.4170 1.3701	1.3558 1.3290	1.3873	1.3459	Ave		1.3748			0.0100	2.5		20.0			
2,4,6-Tribromophenol	0.0970	0.0689 0.1070	0.0811 0.1041	0.0901	0.0941	Lin2	-0.018	0.1020			0.0100	4.3		20.0	0.9980		0.9900
p-Terphenyl-d14	1.1603	1.0637 1.1099	1.0500 1.0535	1.1198	1.0330	Ave		1.0843			0.0100	4.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil M ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-727763/3	Y04075.D
Level 2	IC 480-727763/4	Y04076.D
Level 3	IC 480-727763/5	Y04077.D
Level 4	IC 480-727763/6	Y04078.D
Level 5	ICIS 480-727763/7	Y04079.D
Level 6	IC 480-727763/8	Y04080.D
Level 7	IC 480-727763/9	Y04081.D
Level 8	IC 480-727763/10	Y04082.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd4	Ave	201388	12893 288589	25620 388563	50362	103302	8.00	0.500 12.0	1.00 16.0	2.00	4.00
N-Nitrosodimethylamine	DCBd4	Ave	252000	16549 374033	32131 488368	65056	131212	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Pyridine	DCBd4	Lin2	591576	30426 881201	62500 1206662	128655	281968	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Benzaldehyde	DCBd4	Lin2	394805	27856 539180	55562 668047	111862	212593	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Phenol	DCBd4	Ave	635286	38689 952917	76310 1253502	158259	322154	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Aniline	DCBd4	Ave	805708	45821 1157628	91840 1582175	189816	388415	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Bis(2-chloroethyl)ether	DCBd4	Lin2	494654	35178 751606	70159 953587	145111	276130	8.00	0.500 12.0	1.00 16.0	2.00	4.00
n-Decane	DCBd4	Ave	600915	39573 854400	77950 1129545	154256	313672	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Chlorophenol	DCBd4	Ave	532626	32258 767543	63442 1049409	132912	270114	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,3-Dichlorobenzene	DCBd4	Ave	620226	39554 894753	78644 1201589	159373	315016	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,4-Dichlorobenzene	DCBd4	Ave	635898	40290 933023	79069 1246313	160927	325428	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzyl alcohol	DCBd4	Lin2	342028	19026 514426	38828 685189	83551	170430	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,2-Dichlorobenzene	DCBd4	Ave	595203	36618 884432	74941 1175134	151147	307674	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Methylphenol	DCBd4	Ave	483464	29614 709102	58756 940390	121402	242675	8.00	0.500 12.0	1.00 16.0	2.00	4.00
bis (2-chloroisopropyl) ether	DCBd4	Lin2	793612	53851 1146472	107201 1513324	215142	420966	8.00	0.500 12.0	1.00 16.0	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil M ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Indene	DCBd4	Lin2	5536590	384781 7677773	760498 9516331	1543302	3077049	48.0	3.00 72.0	6.00 96.0	12.0	24.0
4-Methylphenol	DCBd4	Ave	495459	29131 759028	62517 985877	124337	258015	8.00	0.500 12.0	1.00 16.0	2.00	4.00
N-Nitrosodi-n-propylamine	DCBd4	Ave	357657	21906 530861	44766 705482	91529	185957	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Acetophenone	DCBd4	Ave	672484	43469 1004965	85873 1384078	177222	358207	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Hexachloroethane	DCBd4	Ave	244076	15352 362568	29094 476051	61496	122711	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Nitrobenzene	NPT	Ave	552766	34315 830391	67406 1093846	139031	286118	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Isophorone	NPT	Ave	984281	59179 1438481	124676 1928267	251667	502690	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Nitrophenol	NPT	Lin2	283844	14641 419172	30445 564513	66228	139128	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4-Dimethylphenol	NPT	Ave	523454	30712 772241	63972 1032776	132567	267653	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Bis(2-chloroethoxy)methane	NPT	Ave	595617	38197 872899	73252 1167515	150446	315943	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzoic acid	NPT	Lin1	1357379	+++++ 2286859	35478 3413031	161927	528596	48.0	+++++ 72.0	6.00 96.0	12.0	24.0
2,4-Dichlorophenol	NPT	Lin2	450841	24629 664033	51608 895773	110071	226619	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,2,4-Trichlorobenzene	NPT	Ave	500259	30818 748247	61955 999125	125604	268660	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Naphthalene	NPT	Ave	24071 1543465	101531 2297512	198619 3020076	404137	791133	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Chloroaniline	NPT	Ave	611393	36243 876079	74750 1194831	152287	310670	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,6-Dichlorophenol	NPT	Ave	440175	26371 661450	54561 891154	111168	227171	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Hexachlorobutadiene	NPT	Ave	291805	18378 428760	36304 586725	74282	146471	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Caprolactam	NPT	Lin2	158008	8828 233241	18523 331924	40787	80525	8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Chloro-3-methylphenol	NPT	Lin2	427827	23244 619791	48868 842075	107700	216526	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Methylnaphthalene	NPT	Ave	14407 959857	60907 1418012	123332 1868985	252648	500396	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
1-Methylnaphthalene	NPT	Ave	14096	62302	124338	254308	512870	0.125	0.500	1.00	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil M ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			991555	1448641	1935880			8.00	12.0	16.0		
Hexachlorocyclopentadiene	ANT	Lin2	219143	5221 347952	15226 474237	42836	101650	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	518910	31273 771203	64406 1024995	129575	261601	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4,6-Trichlorophenol	ANT	Lin2	321015	15827 487345	33894 656205	73777	159433	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4,5-Trichlorophenol	ANT	Lin2	340046	15969 507905	33819 719151	76811	167313	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Biphenyl	ANT	Ave	1271064	78035 1881341	161912 2481826	324951	660505	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Chloronaphthalene	ANT	Ave	1019822	64817 1509925	122108 1993918	261881	525631	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Nitroaniline	ANT	Lin2	290671	13872 424380	31352 581740	67657	144596	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Dimethyl phthalate	ANT	Ave	1115216	66641 1652345	139938 2205033	277953	555042	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,3-Dinitrobenzene	NPT	Lin2	168925	7085 264071	15905 363298	36464	83286	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,6-Dinitrotoluene	ANT	Lin2	263755	12732 375772	30701 502500	60492	133588	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Acenaphthylene	ANT	Ave	21302 1567151	96273 2275315	194062 3036756	398540	820797	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
3-Nitroaniline	ANT	Lin2	267530	11968 402145	26459 537274	61330	133682	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Acenaphthene	ANT	Ave	15337 1022418	64126 1517015	128599 2070750	265517	531244	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4-Dinitrophenol	ANT	Lin1	202787	+++++ 342942	8429 494994	28464	77786	16.0	+++++ 24.0	2.00 32.0	4.00	8.00
4-Nitrophenol	ANT	Lin2	228151	7519 344509	18865 476464	45823	107299	16.0	1.00 24.0	2.00 32.0	4.00	8.00
2,4-Dinitrotoluene	ANT	Lin2	337929	16138 501498	36017 681937	76310	164115	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Dibenzofuran	ANT	Ave	20845 1398713	87555 2012503	174288 2737154	359184	727701	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,3,4,6-Tetrachlorophenol	ANT	Lin2	246030	9708 378188	21552 500871	50444	114108	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Hexadecane	ANT	Ave	710170	43889 1009942	85679 1274228	180493	359465	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Diethyl phthalate	ANT	Ave	1109709	65498 1589042	134735 2150344	280443	573400	8.00	0.500 12.0	1.00 16.0	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil M ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Chlorophenyl phenyl ether	ANT	Ave	561637	35191 793024	67991 1067901	139909	282839	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Fluorene	ANT	Lin2	15799 1187855	74813 1623432	148146 2306864	299635	600540	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Nitroaniline	ANT	Lin2	284479	14546 414193	30077 565231	68356	142820	8.00	0.500 12.0	1.00 16.0	2.00	4.00
4,6-Dinitro-2-methylphenol	PHN	Lin1	332968	8814 508159	23677 747273	63585	146586	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Diphenylamine	PHN	Ave	830154	48983 1227935	99771 1649635	201662	403564	6.84	0.428 10.3	0.855 13.7	1.71	3.42
N-Nitrosodiphenylamine	PHN	Ave	830154	48983 1227935	99771 1649635	201662	403564	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,2-Diphenylhydrazine	PHN	Ave	1079590	67731 1570713	131738 2065244	280298	565352	8.00	0.500 12.0	1.00 16.0	2.00	4.00
trans-Azobenzene	PHN	Ave	1079590	67731 1570713	131738 2065244	280298	565352	8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Bromophenyl phenyl ether	PHN	Ave	343965	19876 498403	40431 668810	81167	168378	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Hexachlorobenzene	PHN	Ave	361589	22415 546809	41505 702964	90116	181121	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Atrazine	ANT	Lin2	287727	18661 429829	36423 511017	76542	150801	8.00	0.500 12.0	1.00 16.0	2.00	4.00
n-Octadecane	PHN	Ave	716892	43257 1034353	89489 1364719	186712	380381	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Pentachlorophenol	PHN	Lin1	321748	5308 523056	15301 706536	45351	127197	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Phenanthrene	PHN	Ave	24706 1592887	104609 2351609	199642 3192350	405994	839173	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Anthracene	PHN	Ave	22524 1648721	100873 2400927	203009 3260039	421687	836882	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Carbazole	PHN	Ave	1444483	87962 2134181	177791 2844523	365408	746568	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Di-n-butyl phthalate	PHN	Ave	1898271	112246 2761074	228357 3616808	463712	966919	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Fluoranthene	PHN	Ave	25601 1763574	103070 2612265	210496 3379959	439926	889154	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzidine	CRY	Lin2	2275679	109030 3412982	259080 4372822	486997	1077602	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Pyrene	CRY	Ave	24539 1803963	107370 2606366	220026 3507640	455511	916947	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Butyl benzyl phthalate	CRY	Lin2		42491	94654	200010	415066		0.500	1.00	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil M ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			846735	1276414	1680744			8.00	12.0	16.0		
Bis(2-ethylhexyl) phthalate	CRY	Lin2	1213598	60634 1782979	132866 2333006	293127	616846	8.00	0.500 12.0	1.00 16.0	2.00	4.00
3,3'-Dichlorobenzidine	CRY	Lin2	1750306	98027 2567015	198370 3403584	390748	877136	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Benzo(a)anthracene	CRY	Ave	27186 1799591	109780 2667730	220504 3586318	455684	927418	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Chrysene	CRY	Ave	24512 1626396	100926 2456054	201770 3252458	422497	848822	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Di-n-octyl phthalate	CRY	Lin2	2015497	103991 3003021	228942 4012444	493562	1043796	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzo(b)fluoranthene	PRY	Lin2	24628 1953855	102415 2717115	209670 3860199	478423	962391	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzo(k)fluoranthene	PRY	Ave	26970 1811402	115402 2809276	234177 3624460	511188	934084	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzo(a)pyrene	PRY	Lin2	21040 1704643	93299 2502727	197031 3343506	413291	848526	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Dibenz(a,h)anthracene	PRY	Lin2	20800 1688159	93927 2471417	195851 3303319	401632	851909	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Indeno(1,2,3-cd)pyrene	PRY	Lin2	26583 2114181	113413 3071505	241367 4026912	511230	1057684	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzo(g,h,i)perylene	PRY	Lin2	21256 1645181	93047 2345761	194159 3135261	398412	834543	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Fluorophenol	DCBd4	Ave	513399	30058 745825	60238 1027546	128328	253018	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Phenol-d5	DCBd4	Ave	620078	37352 923025	75294 1243307	157909	322443	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Nitrobenzene-d5	NPT	Lin2	563810	33238 826407	67075 1108589	139372	312189	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Fluorobiphenyl	ANT	Ave	1178690	75403 1780666	147957 2328409	305334	612523	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4,6-Tribromophenol	PHN	Lin2	137370	6313 234535	15004 307553	32424	71123	8.00	0.500 12.0	1.00 16.0	2.00	4.00
p-Terphenyl-d14	CRY	Ave	1452130	84729 2151959	171799 2886973	366271	718271	8.00	0.500 12.0	1.00 16.0	2.00	4.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil MS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-727763/3	Y04075.D
Level 2	IC 480-727763/4	Y04076.D
Level 3	IC 480-727763/5	Y04077.D
Level 4	IC 480-727763/6	Y04078.D
Level 5	ICIS 480-727763/7	Y04079.D
Level 6	IC 480-727763/8	Y04080.D
Level 7	IC 480-727763/9	Y04081.D
Level 8	IC 480-727763/10	Y04082.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dioxane	-2.9	5.3 -4.1	0.6	-0.3	-2.4	3.7	30	30 30	30	30	30	30
N-Nitrosodimethylamine	-1.0	6.2 -5.2	-0.8	1.2	-2.5	2.0	30	30 30	30	30	30	30
Pyridine	3.4	4.7 3.6	-5.7	-7.2	-5.4	6.6	30	30 30	30	30	30	30
Benzaldehyde	-5.1	-4.4 -13.6	3.1	10.9	3.2	6.0	30	30 30	30	30	30	30
Phenol	2.5	0.9 -1.1	-4.2	0.1	-2.7	4.5	30	30 30	30	30	30	30
Aniline	2.1	-2.0 2.3	-5.5	-1.6	-3.8	8.7	30	30 30	30	30	30	30
Bis(2-chloroethyl)ether	-0.7	-2.6 -7.5	0.8	9.4	1.1	-0.4	30	30 30	30	30	30	30
n-Decane	-4.4	7.4 -7.4	1.7	1.4	-1.5	2.8	30	30 30	30	30	30	30
2-Chlorophenol	-0.8	1.2 -0.5	-4.3	1.0	-1.9	5.4	30	30 30	30	30	30	30
1,3-Dichlorobenzene	-2.5	4.6 -4.0	0.0	2.1	-3.6	3.4	30	30 30	30	30	30	30
1,4-Dichlorobenzene	-0.7	4.0 -2.8	-1.8	0.7	-2.8	3.5	30	30 30	30	30	30	30
Benzyl alcohol	2.2	2.5 -0.3	-4.8	0.0	-3.9	4.2	30	30 30	30	30	30	30
1,2-Dichlorobenzene	0.3	0.7 -2.3	-0.8	0.8	-2.0	3.3	30	30 30	30	30	30	30
2-Methylphenol	0.5	1.8 -2.2	-2.8	1.2	-3.4	4.9	30	30 30	30	30	30	30
bis (2-chloroisopropyl) ether	-2.2	-1.5 -5.2	0.6	5.2	-0.2	3.4	30	30 30	30	30	30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil MS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Indene	-4.5	-3.2 -13.1	1.2	8.8	5.9	5.0	30	30 30	30	30	30	30
4-Methylphenol	3.5	-3.6 -1.4	-0.5	-0.3	-1.2	3.4	30	30 30	30	30	30	30
N-Nitrosodi-n-propylamine	0.2	0.3 -2.4	-1.4	1.5	-1.5	3.3	30	30 30	30	30	30	30
Acetophenone	-1.7	3.2 -0.7	-1.9	2.0	-1.6	0.7	30	30 30	30	30	30	30
Hexachloroethane	1.4	4.1 -2.4	-5.1	1.1	-3.6	4.4	30	30 30	30	30	30	30
Nitrobenzene	0.7	0.1 -0.1	-6.3	-1.6	-0.6	7.8	30	30 30	30	30	30	30
Isophorone	-1.6	-2.6 -0.7	-2.3	0.4	-1.5	8.3	30	30 30	30	30	30	30
2-Nitrophenol	-0.2	4.3 1.0	-7.1	-3.6	-3.4	9.0	30	30 30	30	30	30	30
2,4-Dimethylphenol	0.0	-4.3 0.8	-5.0	0.2	-0.7	9.1	30	30 30	30	30	30	30
Bis(2-chloroethoxy)methane	-2.2	2.9 -1.5	-6.0	-1.7	1.3	7.3	30	30 30	30	30	30	30
Benzoic acid	-2.5	+++++ 6.3	22.7	-9.9	-14.6	-2.0	30	30	30	30	30	30
2,4-Dichlorophenol	-1.5	2.8 -0.1	-5.1	-1.5	-2.4	7.8	30	30 30	30	30	30	30
1,2,4-Trichlorobenzene	-0.4	-1.3 0.2	-5.5	-2.5	2.4	7.1	30	30 30	30	30	30	30
Naphthalene	-0.1 -1.9	4.3 -2.9	-2.8	0.7	-3.3	6.0	30 30	30 30	30	30	30	30
4-Chloroaniline	-2.1	-2.6 0.5	-4.3	-0.8	-0.6	9.9	30	30 30	30	30	30	30
2,6-Dichlorophenol	0.7	-3.5 2.2	-4.8	-1.3	-1.0	7.8	30	30 30	30	30	30	30
Hexachlorobutadiene	-1.6	1.4 1.4	-4.6	-0.6	-3.8	7.7	30	30 30	30	30	30	30
Caprolactam	-3.6	2.4 3.1	-5.2	1.5	-3.4	5.3	30	30 30	30	30	30	30
4-Chloro-3-methylphenol	-3.2	2.2 -1.1	-5.4	1.4	-1.8	7.8	30	30 30	30	30	30	30
2-Methylnaphthalene	-3.1 -1.8	1.4 -2.5	-2.2	2.0	-0.8	6.9	30 30	30 30	30	30	30	30
1-Methylnaphthalene	-6.7 -1.3	2.1 -0.7	-3.0	1.0	0.0	8.6	30 30	30 30	30	30	30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil MS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Hexachlorocyclopentadiene	5.6	7.6 6.0	-11.5	-7.8	-5.6	5.6	30	30 30	30	30	30	30
1,2,4,5-Tetrachlorobenzene	0.2	-0.7 -1.2	-0.3	-0.6	-2.9	5.5	30	30 30	30	30	30	30
2,4,6-Trichlorophenol	1.8	3.3 1.4	-4.8	-4.1	-2.9	5.3	30	30 30	30	30	30	30
2,4,5-Trichlorophenol	0.1	4.6 4.8	-7.2	-4.5	-3.3	5.4	30	30 30	30	30	30	30
Biphenyl	-1.4	-0.1 -3.5	1.1	0.6	-1.1	4.3	30	30 30	30	30	30	30
2-Chloronaphthalene	-0.9	3.9 -3.0	-4.6	1.5	-1.5	4.7	30	30 30	30	30	30	30
2-Nitroaniline	-1.3	1.6 0.1	-2.3	-2.1	-2.0	6.1	30	30 30	30	30	30	30
Dimethyl phthalate	0.1	-1.4 -0.9	1.0	-0.6	-4.0	5.7	30	30 30	30	30	30	30
1,3-Dinitrobenzene	2.6	6.6 5.9	-9.6	-8.3	-3.7	6.4	30	30 30	30	30	30	30
2,6-Dinitrotoluene	-2.7	-1.1 -3.7	3.4	-3.5	0.4	7.2	30	30 30	30	30	30	30
Acenaphthylene	-9.6 -1.2	2.1 -2.2	0.4	2.2	1.8	6.5	30 30	30 30	30	30	30	30
3-Nitroaniline	1.0	3.5 -0.2	-6.3	-2.4	-1.4	5.7	30	30 30	30	30	30	30
Acenaphthene	-2.8 -1.6	1.6 -0.4	-0.7	1.7	-1.6	3.7	30 30	30 30	30	30	30	30
2,4-Dinitrophenol	0.3	+++++ 4.9	21.5	-7.5	-16.5	-2.7	30	30	30	30	30	30
4-Nitrophenol	2.6	6.0 4.6	-8.3	-8.0	-4.1	7.3	30	30 30	30	30	30	30
2,4-Dinitrotoluene	0.7	2.5 1.3	-2.7	-4.4	-3.8	6.6	30	30 30	30	30	30	30
Dibenzofuran	-2.3 -3.5	2.6 -2.6	-0.5	1.7	-0.3	4.9	30 30	30 30	30	30	30	30
2,3,4,6-Tetrachlorophenol	5.3	6.4 3.0	-9.0	-8.1	-5.6	8.0	30	30 30	30	30	30	30
Hexadecane	-2.5	3.5 -8.7	-1.5	2.9	-0.9	7.2	30	30 30	30	30	30	30
Diethyl phthalate	-2.6	-1.9 -2.2	-1.6	1.5	0.4	6.4	30	30 30	30	30	30	30
4-Chlorophenyl phenyl ether	-3.7	4.3 -3.8	-1.7	0.3	-2.0	6.6	30	30 30	30	30	30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil MS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Fluorene	-1.8 -7.7	6.4 -2.8	1.5	1.1	-2.3	5.6	30 30	30 30	30	30	30	30
4-Nitroaniline	 -1.4	2.8 -0.4	-6.0	0.0	-1.3	6.3	 30	30 30	30	30	30	30
4,6-Dinitro-2-methylphenol	 -2.5	22.1 5.1	-6.6	-7.6	-11.0	0.5	 30	30 30	30	30	30	30
Diphenylamine	 1.3	-3.3 0.9	-2.5	1.3	-3.5	5.9	 30	30 30	30	30	30	30
N-Nitrosodiphenylamine	 1.3	-3.3 0.9	-2.5	1.3	-3.5	5.9	 30	30 30	30	30	30	30
1,2-Diphenylhydrazine	 -2.7	0.4 -5.1	-3.3	5.7	1.5	3.5	 30	30 30	30	30	30	30
trans-Azobenzene	 -2.7	0.4 -5.1	-3.3	5.7	1.5	3.5	 30	30 30	30	30	30	30
4-Bromophenyl phenyl ether	 0.7	-3.9 0.2	-3.2	-0.1	-1.3	7.5	 30	30 30	30	30	30	30
Hexachlorobenzene	 2.6	0.7 -2.2	-7.7	3.0	-1.4	5.0	 30	30 30	30	30	30	30
Atrazine	 1.3	-0.6 -10.6	-1.6	4.8	0.8	5.9	 30	30 30	30	30	30	30
n-Octadecane	 -3.3	-3.3 -5.4	-0.9	6.2	3.1	3.6	 30	30 30	30	30	30	30
Pentachlorophenol	 3.6	37.3 * 2.6	-9.1	-19.5	-16.1	1.2	 30	30 30	30	30	30	30
Phenanthrene	0.2 -2.9	3.3 -2.3	-2.4	2.0	0.4	1.7	30 30	30 30	30	30	30	30
Anthracene	-8.7 -1.0	-0.4 -0.3	-0.8	5.9	0.1	5.2	30 30	30 30	30	30	30	30
Carbazole	 -0.9	-2.3 -2.1	-2.2	3.3	0.5	3.7	 30	30 30	30	30	30	30
Di-n-butyl phthalate	 -0.4	-3.1 -3.2	-2.4	1.9	1.2	6.0	 30	30 30	30	30	30	30
Fluoranthene	-2.2 1.6	-4.1 -2.6	-3.1	4.1	0.2	6.1	30 30	30 30	30	30	30	30
Benzidine	 5.1	0.2 -4.8	3.4	-7.0	-5.8	9.0	 30	30 30	30	30	30	30
Pyrene	-6.9 0.4	0.6 -4.5	0.4	4.0	-1.6	7.6	30 30	30 30	30	30	30	30
Butyl benzyl phthalate	 3.2	0.8 -4.0	-1.1	-0.4	-4.9	6.4	 30	30 30	30	30	30	30
Bis(2-ethylhexyl) phthalate	 0.9	0.7 -6.7	-2.6	2.1	-1.1	6.8	 30	30 30	30	30	30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1 | Analy Batch No.: 727763

SDG No.:

Instrument ID: HP5973Y | GC Column: RXI-5Sil MS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2024 14:47 | Calibration End Date: 10/10/2024 18:00 | Calibration ID: 47387

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
3,3'-Dichlorobenzidine	2.7	2.4 -3.7	-2.6	-5.8	-1.5	8.6	30	30 30	30	30	30	30
Benzo(a)anthracene	0.9 0.5	0.6 -4.4	-1.6	1.7	-2.6	5.0	30 30	30 30	30	30	30	30
Chrysene	-0.5 1.2	1.2 -5.2	-1.5	3.2	-2.5	3.8	30 30	30 30	30	30	30	30
Di-n-octyl phthalate	0.7	0.4 -4.9	-1.6	1.5	-1.0	5.0	30	30 30	30	30	30	30
Benzo(b)fluoranthene	1.4 -1.8	-2.2 -0.3	-9.6	3.9	-0.5	9.1	30 30	30 30	30	30	30	30
Benzo(k)fluoranthene	-5.8 1.2	5.7 -6.6	-1.2	9.9	-4.0	0.8	30 30	30 30	30	30	30	30
Benzo(a)pyrene	0.4 1.3	0.4 -3.2	-4.6	0.7	-1.7	6.7	30 30	30 30	30	30	30	30
Dibenz(a,h)anthracene	0.1 0.9	1.8 -3.5	-4.3	-1.2	-0.4	6.6	30 30	30 30	30	30	30	30
Indeno(1,2,3-cd)pyrene	0.7 1.3	-1.1 -5.0	-5.0	1.4	-0.2	7.8	30 30	30 30	30	30	30	30
Benzo(g,h,i)perylene	-0.4 -1.4	2.6 -5.7	-2.9	0.6	0.3	6.9	30 30	30 30	30	30	30	30
2-Fluorophenol	0.8	-1.5 1.8	-5.0	1.9	-4.0	6.1	30	30 30	30	30	30	30
Phenol-d5	0.9	-0.9 -0.3	-3.9	1.5	-1.0	3.7	30	30 30	30	30	30	30
Nitrobenzene-d5	-3.3	2.7 -2.4	-5.7	-2.9	5.4	6.3	30	30 30	30	30	30	30
2-Fluorobiphenyl	-0.3	3.1 -3.3	-1.4	0.9	-2.1	3.2	30	30 30	30	30	30	30
2,4,6-Tribromophenol	6.4	2.5 3.1	-3.0	-2.9	-3.4	-2.7	30	30 30	30	30	30	30
p-Terphenyl-d14	2.4	-1.9 -2.8	-3.2	3.3	-4.7	7.0	30	30 30	30	30	30	30

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04075.D
Lims ID: IC - List 1 - 0.125
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 10-Oct-2024 14:47:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-003
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:30:29 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:53:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.019	6.021	-0.002	95	202558	4.00	4.00	
* 2 Naphthalene-d8	136	7.216	7.213	0.003	99	729844	4.00	4.00	
* 3 Acenaphthene-d10	164	8.775	8.777	-0.002	94	425685	4.00	4.00	
* 4 Phenanthrene-d10	188	10.056	10.058	-0.002	97	713621	4.00	4.00	
* 5 Chrysene-d12	240	12.937	12.939	-0.002	98	629775	4.00	4.00	
* 6 Perylene-d12	264	14.662	14.658	0.004	97	714615	4.00	4.00	
74 Naphthalene	128	7.234	7.237	-0.003	96	24071	0.1250	0.1248	
87 2-Methylnaphthalene	142	7.857	7.853	0.004	92	14407	0.1250	0.1211	
89 1-Methylnaphthalene	142	7.945	7.948	-0.003	92	14096	0.1250	0.1166	
108 Acenaphthylene	152	8.657	8.660	-0.003	98	21302	0.1250	0.1130	
110 Acenaphthene	153	8.805	8.808	-0.003	93	15337	0.1250	0.1215	
115 Dibenzofuran	168	8.953	8.950	0.003	97	20845	0.1250	0.1221	
124 Fluorene	166	9.250	9.246	0.004	93	15799	0.1250	0.1228	
151 Phenanthrene	178	10.079	10.076	0.003	95	24706	0.1250	0.1252	
152 Anthracene	178	10.121	10.124	-0.003	98	22524	0.1250	0.1141	
164 Fluoranthene	202	11.271	11.268	0.003	97	25601	0.1250	0.1222	
167 Pyrene	202	11.532	11.535	-0.002	96	24539	0.1250	0.1163	
180 Benzo[a]anthracene	228	12.925	12.928	-0.003	99	27186	0.1250	0.1261	
182 Chrysene	228	12.972	12.975	-0.003	97	24512	0.1250	0.1244	
186 Benzo[b]fluoranthene	252	14.181	14.184	-0.003	97	24628	0.1250	0.1268	
187 Benzo[k]fluoranthene	252	14.211	14.214	-0.003	99	26970	0.1250	0.1177	
189 Benzo[a]pyrene	252	14.590	14.593	-0.003	77	21040	0.1250	0.1255	
194 Dibenz(a,h)anthracene	278	16.209	16.217	-0.008	89	20800	0.1250	0.1251	
193 Indeno[1,2,3-cd]pyrene	276	16.221	16.223	-0.002	97	26583	0.1250	0.1259	
195 Benzo[g,h,i]perylene	276	16.689	16.698	-0.009	94	21256	0.1250	0.1245	

QC Flag Legend
Processing Flags

Reagents:

MB_L1LVI_WRK_00642 Amount Added: 1.00 Units: mL

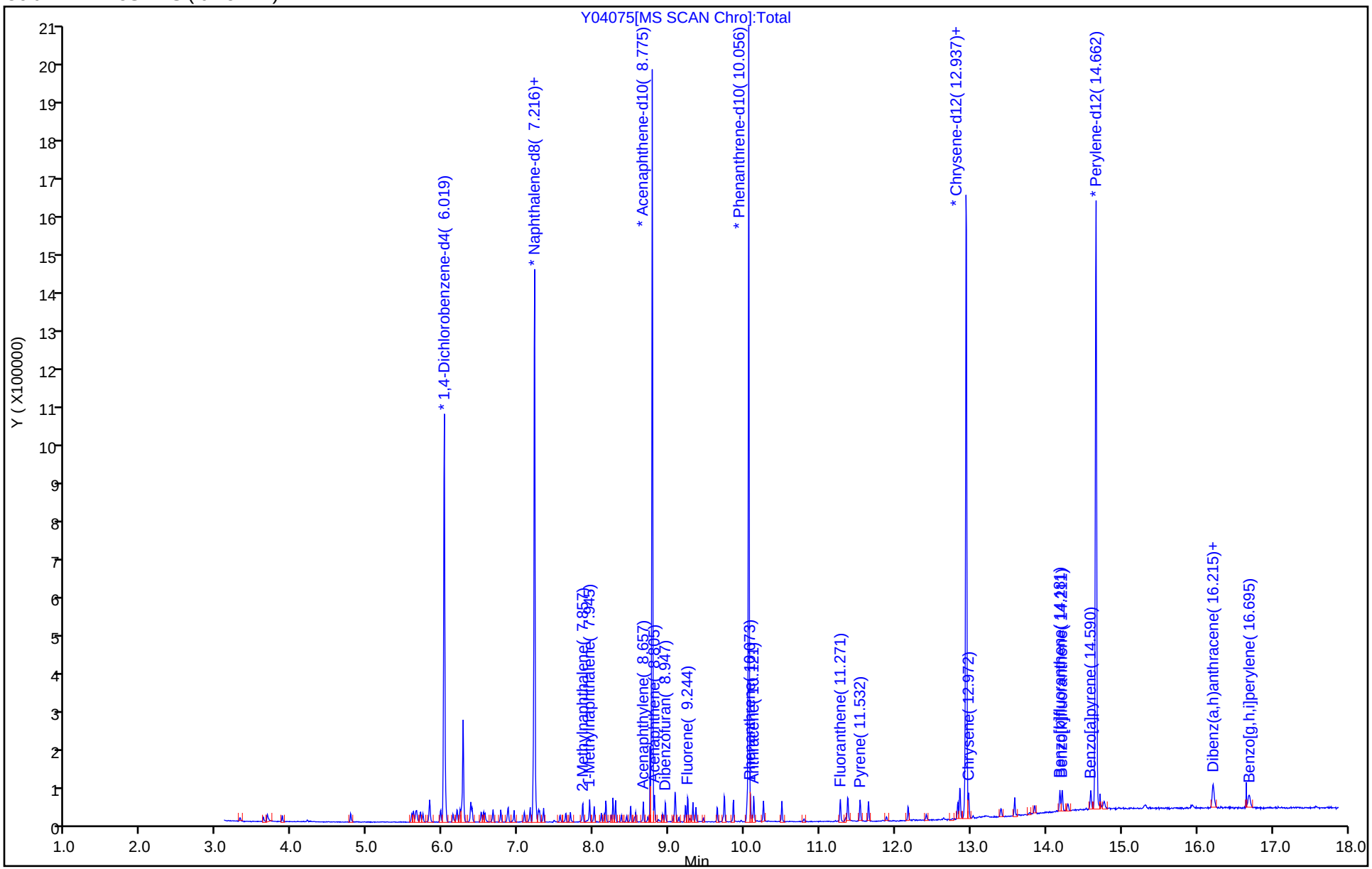
Report Date: 11-Oct-2024 11:30:30 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04075.D

Injection Date:	10-Oct-2024 14:47:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 0.125			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04076.D
Lims ID: IC - List 1 - 0.50
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 10-Oct-2024 15:14:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-004
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:30:36 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:53:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.019	6.021	-0.002	95	198081	4.00	4.00	
* 2 Naphthalene-d8	136	7.217	7.213	0.004	99	737081	4.00	4.00	
* 3 Acenaphthene-d10	164	8.776	8.777	-0.001	93	425703	4.00	4.00	
* 4 Phenanthrene-d10	188	10.056	10.058	-0.002	97	732507	4.00	4.00	
* 5 Chrysene-d12	240	12.937	12.939	-0.002	99	637234	4.00	4.00	
* 6 Perylene-d12	264	14.662	14.658	0.004	97	680758	4.00	4.00	
$ 7 2-Fluorophenol	112	4.774	4.771	0.003	92	30058	0.5000	0.4925	
$ 8 Phenol-d5	99	5.640	5.636	0.004	93	37352	0.5000	0.4954	
$ 9 Nitrobenzene-d5	82	6.541	6.537	0.004	89	33238	0.5000	0.5136	
$ 10 2-Fluorobiphenyl	172	8.159	8.162	-0.003	100	75403	0.5000	0.5153	
$ 11 2,4,6-Tribromophenol	330	9.451	9.454	-0.003	93	6313	0.5000	0.5123	
$ 12 p-Terphenyl-d14	244	11.645	11.647	-0.002	98	84729	0.5000	0.4905	
13 1,4-Dioxane	88	3.304	3.307	-0.003	98	12893	0.5000	0.5264	
14 N-Nitrosodimethylamine	42	3.613	3.609	0.003	91	16549	0.5000	0.5312	
15 Pyridine	52	3.654	3.639	0.015	91	30426	1.00	1.05	
35 Benzaldehyde	77	5.610	5.607	0.003	96	27856	0.5000	0.4781	
37 Phenol	94	5.652	5.654	-0.002	99	38689	0.5000	0.5047	
36 Aniline	93	5.705	5.702	0.003	97	45821	0.5000	0.4899	
39 Bis(2-chloroethyl)ether	93	5.735	5.737	-0.002	92	35178	0.5000	0.4870	
41 n-Decane	57	5.824	5.820	0.004	92	39573	0.5000	0.5368	
40 2-Chlorophenol	128	5.829	5.826	0.003	98	32258	0.5000	0.5058	
43 1,3-Dichlorobenzene	146	5.972	5.968	0.004	99	39554	0.5000	0.5228	
44 1,4-Dichlorobenzene	146	6.037	6.034	0.003	95	40290	0.5000	0.5199	
45 Benzyl alcohol	108	6.132	6.134	-0.002	94	19026	0.5000	0.5126	
46 1,2-Dichlorobenzene	146	6.185	6.188	-0.003	96	36618	0.5000	0.5037	
48 2-Methylphenol	108	6.227	6.229	-0.002	93	29614	0.5000	0.5092	
49 2,2'-oxybis[1-chloropropane]	45	6.244	6.247	-0.003	93	53851	0.5000	0.4925	
47 Indene	115	6.268	6.271	-0.003	88	384781	3.00	2.90	
57 4-Methylphenol	108	6.369	6.366	0.003	96	29131	0.5000	0.4820	
53 N-Nitrosodi-n-propylamine	70	6.369	6.371	-0.002	89	21906	0.5000	0.5014	
52 Acetophenone	105	6.387	6.389	-0.002	97	43469	0.5000	0.5160	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.511	6.508	0.003	95	15352	0.5000	0.5207	
59 Nitrobenzene	77	6.559	6.555	0.004	88	34315	0.5000	0.5005	
62 Isophorone	82	6.766	6.769	-0.003	99	59179	0.5000	0.4868	
64 2-Nitrophenol	139	6.855	6.858	-0.003	92	14641	0.5000	0.5214	
66 2,4-Dimethylphenol	107	6.867	6.869	-0.002	94	30712	0.5000	0.4784	
69 Bis(2-chloroethoxy)methane	93	6.944	6.946	-0.002	97	38197	0.5000	0.5144	
70 Benzoic acid	105	6.926	6.994	-0.068	90	8087	3.00	6.64	
72 2,4-Dichlorophenol	162	7.080	7.077	0.003	93	24629	0.5000	0.5140	
73 1,2,4-Trichlorobenzene	180	7.157	7.160	-0.003	93	30818	0.5000	0.4933	
74 Naphthalene	128	7.234	7.237	-0.003	97	101531	0.5000	0.5214	
76 4-Chloroaniline	127	7.264	7.267	-0.003	96	36243	0.5000	0.4869	
77 2,6-Dichlorophenol	162	7.282	7.284	-0.002	97	26371	0.5000	0.4827	
79 Hexachlorobutadiene	225	7.335	7.338	-0.003	94	18378	0.5000	0.5071	
84 Caprolactam	113	7.554	7.581	-0.027	78	8828	0.5000	0.5120	a
85 4-Chloro-3-methylphenol	107	7.691	7.693	-0.002	95	23244	0.5000	0.5112	
87 2-Methylnaphthalene	142	7.857	7.853	0.004	92	60907	0.5000	0.5071	
89 1-Methylnaphthalene	142	7.946	7.948	-0.002	93	62302	0.5000	0.5103	
90 Hexachlorocyclopentadiene	237	7.993	7.996	-0.003	94	5221	0.5000	0.5381	
91 1,2,4,5-Tetrachlorobenzene	216	8.005	8.008	-0.003	96	31273	0.5000	0.4963	
93 2,4,6-Trichlorophenol	196	8.100	8.102	-0.002	92	15827	0.5000	0.5167	
94 2,4,5-Trichlorophenol	196	8.141	8.138	0.003	92	15969	0.5000	0.5232	M
96 1,1'-Biphenyl	154	8.254	8.256	-0.002	96	78035	0.5000	0.4997	
97 2-Chloronaphthalene	162	8.289	8.292	-0.003	94	64817	0.5000	0.5193	
100 2-Nitroaniline	65	8.367	8.363	0.004	83	13872	0.5000	0.5079	
105 Dimethyl phthalate	163	8.491	8.494	-0.003	99	66641	0.5000	0.4931	
106 1,3-Dinitrobenzene	168	8.538	8.541	-0.003	83	7085	0.5000	0.5332	
107 2,6-Dinitrotoluene	165	8.556	8.559	-0.003	94	12732	0.5000	0.4945	
108 Acenaphthylene	152	8.657	8.660	-0.003	98	96273	0.5000	0.5106	
109 3-Nitroaniline	138	8.716	8.719	-0.003	97	11968	0.5000	0.5177	
110 Acenaphthene	153	8.805	8.808	-0.003	95	64126	0.5000	0.5079	
111 2,4-Dinitrophenol	184	8.811	8.814	-0.003	85	2348	1.00	2.04	
112 4-Nitrophenol	109	8.853	8.855	-0.002	89	7519	1.00	1.06	
114 2,4-Dinitrotoluene	165	8.912	8.914	-0.002	95	16138	0.5000	0.5123	
115 Dibenzofuran	168	8.947	8.950	-0.003	97	87555	0.5000	0.5128	
118 2,3,4,6-Tetrachlorophenol	232	9.054	9.057	-0.003	72	9708	0.5000	0.5320	
121 Hexadecane	57	9.078	9.080	-0.002	94	43889	0.5000	0.5174	
120 Diethyl phthalate	149	9.084	9.092	-0.008	98	65498	0.5000	0.4904	
123 4-Chlorophenyl phenyl ether	204	9.214	9.217	-0.003	92	35191	0.5000	0.5216	
124 Fluorene	166	9.244	9.246	-0.002	96	74813	0.5000	0.5319	
126 4-Nitroaniline	138	9.244	9.246	-0.002	62	14546	0.5000	0.5141	
127 4,6-Dinitro-2-methylphenol	198	9.273	9.276	-0.003	88	8814	1.00	1.22	
129 Diphenylamine	169	9.315	9.318	-0.003	94	48983	0.4275	0.4133	
130 N-Nitrosodiphenylamine	169	9.315	9.318	-0.003	63	48983	0.5000	0.4834	
131 1,2-Diphenylhydrazine	77	9.356	9.359	-0.003	41	67731	0.5000	0.5021	
132 Azobenzene	77	9.356	9.359	-0.003	99	67731	0.5000	0.5021	
139 4-Bromophenyl phenyl ether	248	9.641	9.638	0.003	66	19876	0.5000	0.4807	
140 Hexachlorobenzene	284	9.730	9.732	-0.002	96	22415	0.5000	0.5034	
143 Atrazine	200	9.736	9.738	-0.002	93	18661	0.5000	0.4971	
148 n-Octadecane	57	9.848	9.851	-0.003	93	43257	0.5000	0.4837	
145 Pentachlorophenol	266	9.890	9.893	-0.003	93	5308	1.00	1.37	
151 Phenanthrene	178	10.074	10.076	-0.002	96	104609	0.5000	0.5166	M
152 Anthracene	178	10.121	10.124	-0.003	97	100873	0.5000	0.4979	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.252	10.254	-0.002	96	87962	0.5000	0.4886	
157 Di-n-butyl phthalate	149	10.495	10.497	-0.002	100	112246	0.5000	0.4847	
164 Fluoranthene	202	11.271	11.268	0.003	98	103070	0.5000	0.4794	
166 Benzidine	184	11.366	11.374	-0.008	100	109030	1.00	1.00	
167 Pyrene	202	11.532	11.535	-0.002	97	107370	0.5000	0.5031	
174 Butyl benzyl phthalate	149	12.166	12.169	-0.003	98	42491	0.5000	0.5042	
181 Bis(2-ethylhexyl) phthalate	149	12.824	12.833	-0.009	98	60634	0.5000	0.5035	
179 3,3'-Dichlorobenzidine	252	12.854	12.862	-0.008	73	98027	1.00	1.02	
180 Benzo[a]anthracene	228	12.925	12.928	-0.003	99	109780	0.5000	0.5031	
182 Chrysene	228	12.972	12.975	-0.003	97	100926	0.5000	0.5062	
184 Di-n-octyl phthalate	149	13.583	13.586	-0.003	99	103991	0.5000	0.5019	
186 Benzo[b]fluoranthene	252	14.182	14.184	-0.002	98	102415	0.5000	0.4889	
187 Benzo[k]fluoranthene	252	14.211	14.214	-0.003	99	115402	0.5000	0.5287	
189 Benzo[a]pyrene	252	14.591	14.593	-0.002	79	93299	0.5000	0.5018	
194 Dibenz(a,h)anthracene	278	16.209	16.217	-0.008	94	93927	0.5000	0.5092	
193 Indeno[1,2,3-cd]pyrene	276	16.215	16.223	-0.008	98	113413	0.5000	0.4947	
195 Benzo[g,h,i]perylene	276	16.689	16.698	-0.009	96	93047	0.5000	0.5131	
S 261 Total Cresols	1				0			0.99	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00643 Amount Added: 1.00 Units: mL

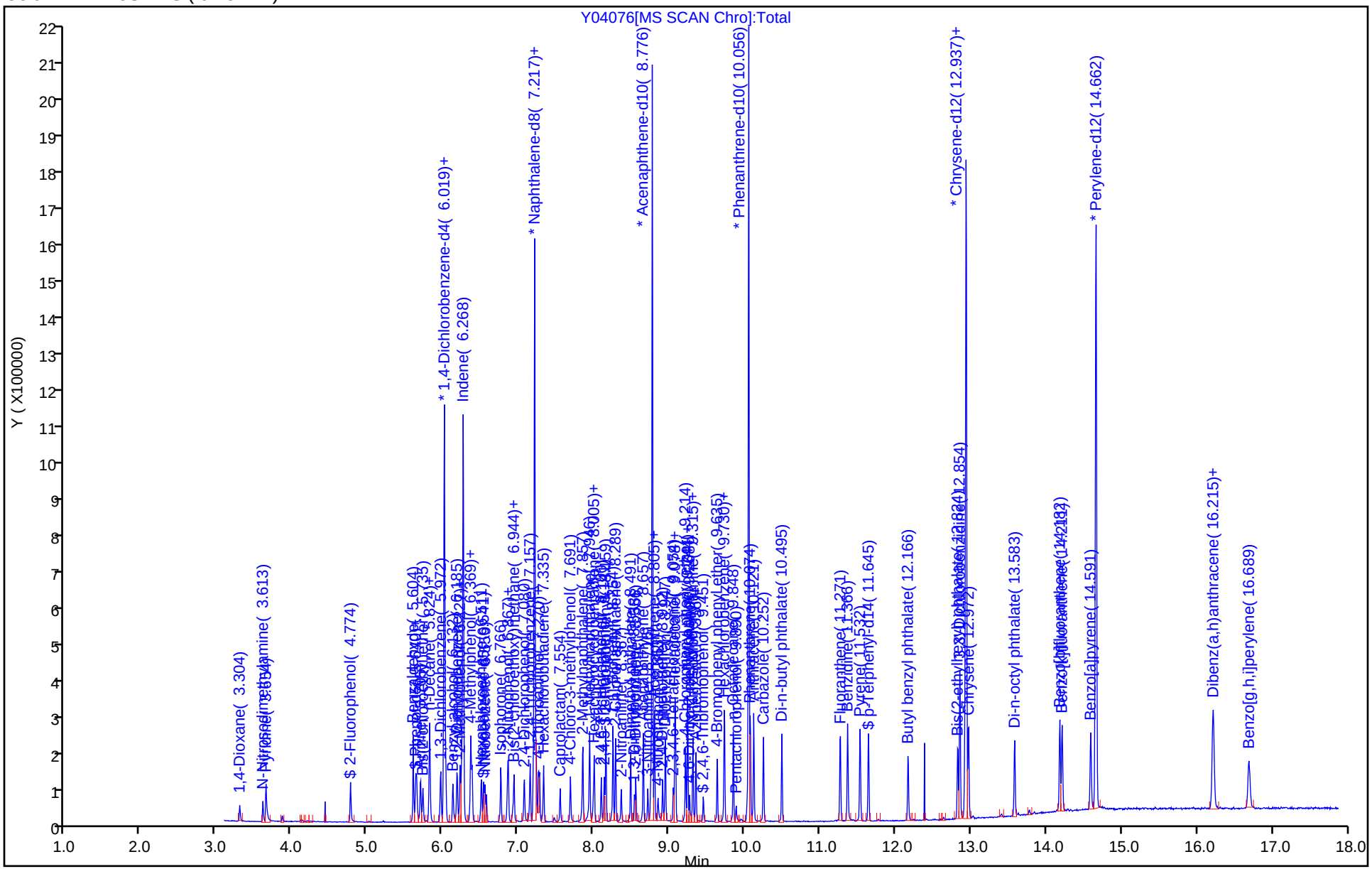
Report Date: 11-Oct-2024 11:30:38 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04076.D

Injection Date:	10-Oct-2024 15:14:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 0.50			Worklist Smp#:	4
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

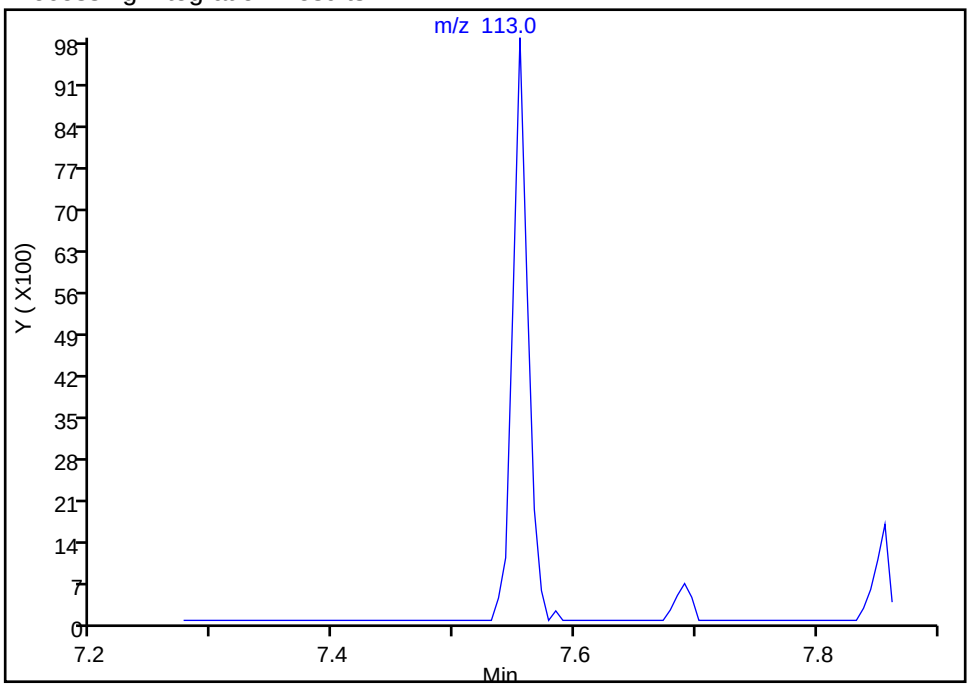
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04076.D
Injection Date: 10-Oct-2024 15:14:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.50
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

84 Caprolactam, CAS: 105-60-2

Signal: 1

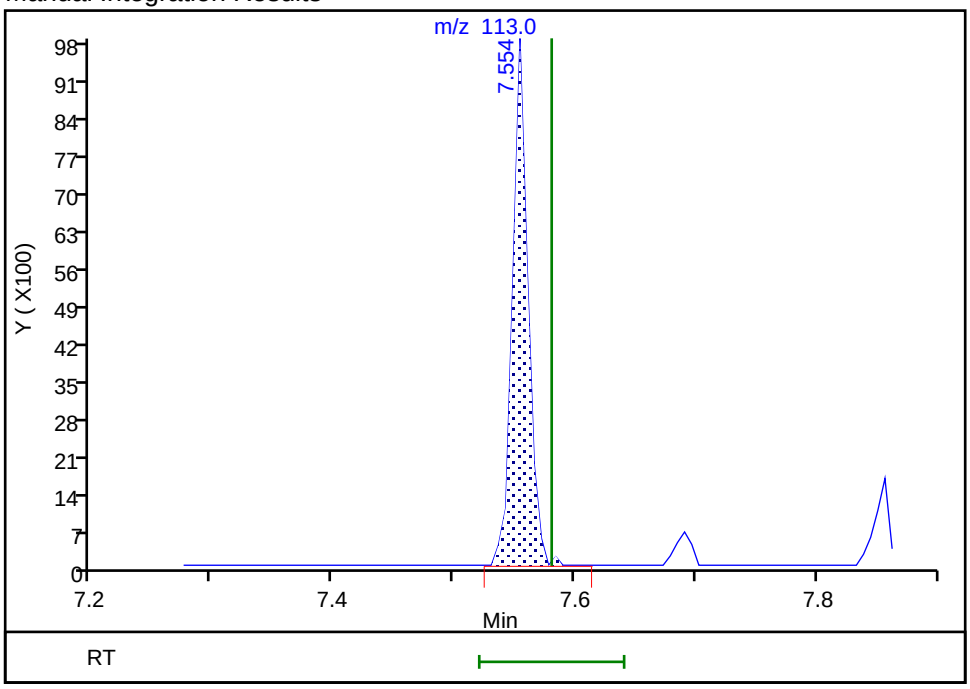
Not Detected
Expected RT: 7.58

Processing Integration Results



Manual Integration Results

RT: 7.55
Area: 8828
Amount: 0.512031
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 08:53:30 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Buffalo

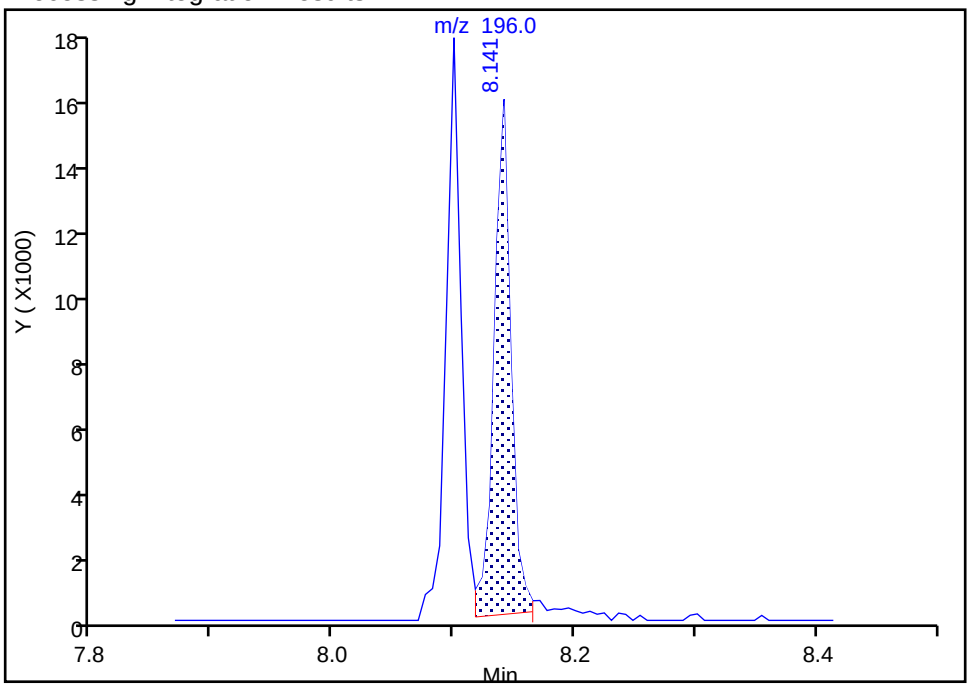
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04076.D
Injection Date: 10-Oct-2024 15:14:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.50
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

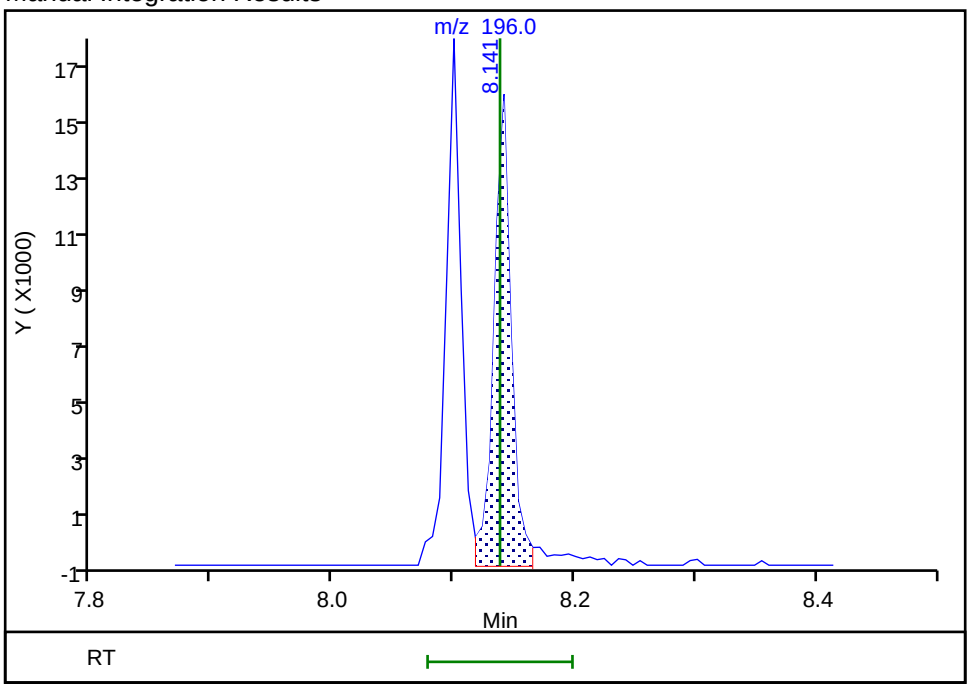
Processing Integration Results

RT: 8.14
Area: 15322
Amount: 0.513372
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 15969
Amount: 0.523216
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:20:08 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Buffalo

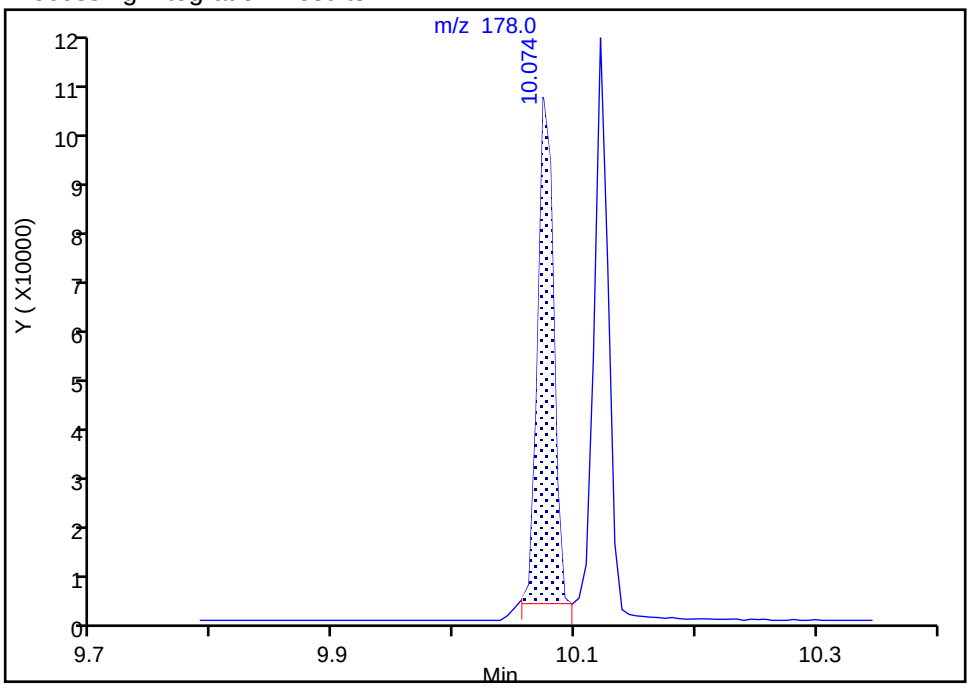
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04076.D
Injection Date: 10-Oct-2024 15:14:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.50
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

151 Phenanthrene, CAS: 85-01-8

Signal: 1

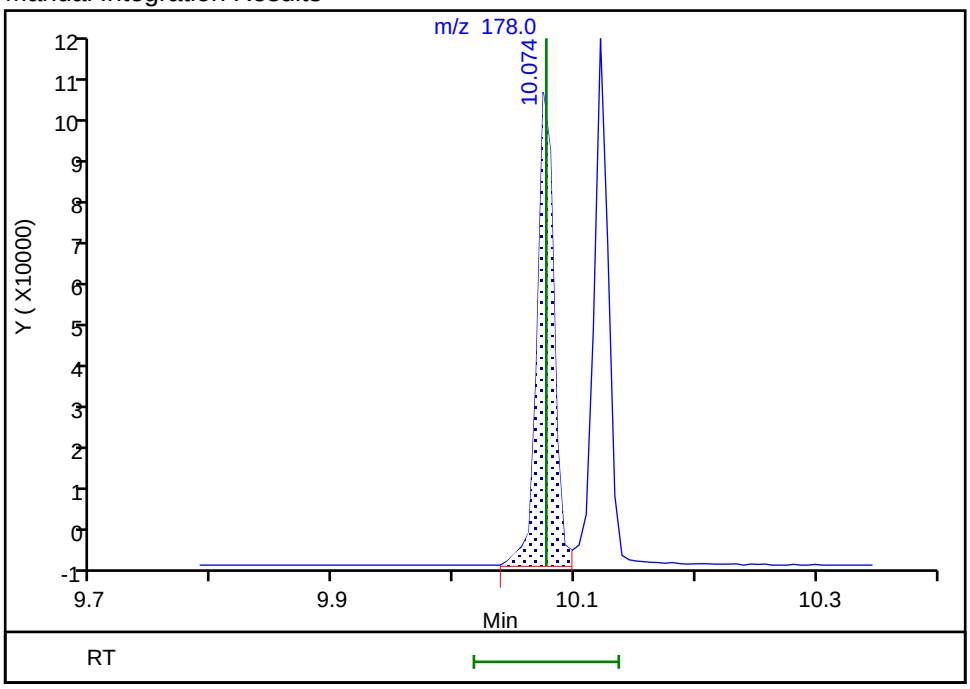
Processing Integration Results

RT: 10.07
Area: 93926
Amount: 0.470034
Amount Units: ng/uL



Manual Integration Results

RT: 10.07
Area: 104609
Amount: 0.516591
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:20:26 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Buffalo

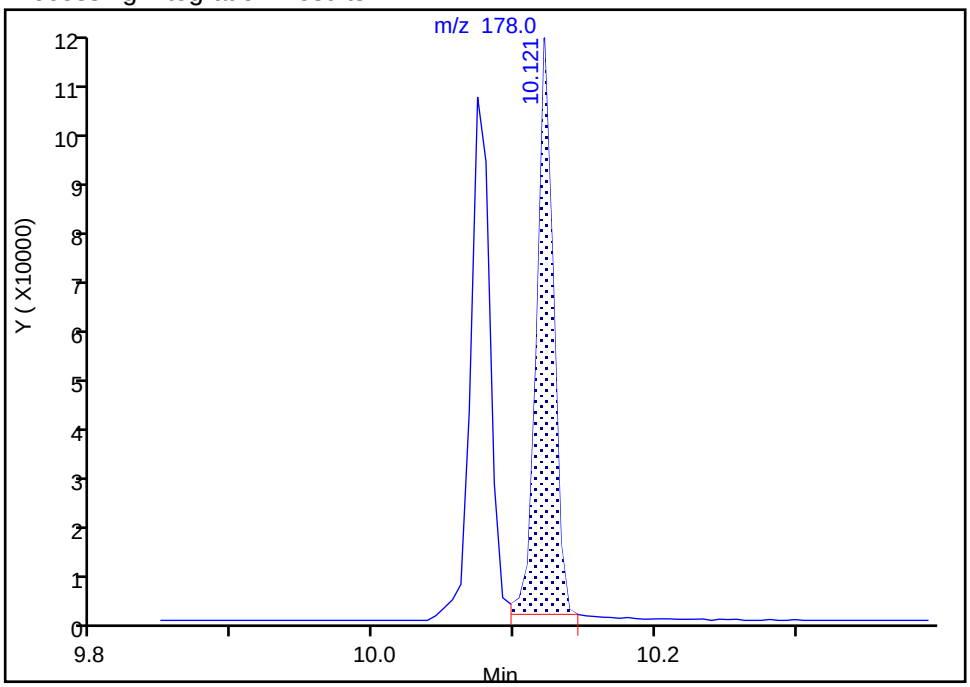
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04076.D
Injection Date: 10-Oct-2024 15:14:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.50
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

152 Anthracene, CAS: 120-12-7

Signal: 1

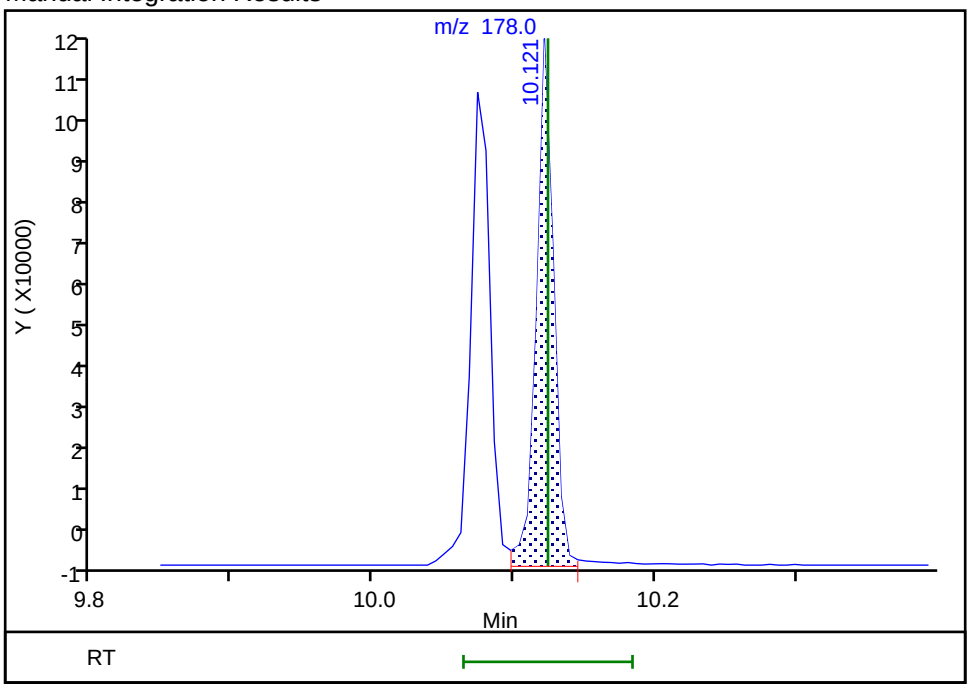
Processing Integration Results

RT: 10.12
Area: 96936
Amount: 0.480766
Amount Units: ng/uL



Manual Integration Results

RT: 10.12
Area: 100873
Amount: 0.497862
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:20:37 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04077.D
Lims ID: IC - List 1 - 1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 10-Oct-2024 15:42:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-005
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:30:55 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:53:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.019	6.021	-0.002	95	205880	4.00	4.00	
* 2 Naphthalene-d8	136	7.217	7.213	0.004	99	773570	4.00	4.00	
* 3 Acenaphthene-d10	164	8.776	8.777	-0.001	93	436509	4.00	4.00	
* 4 Phenanthrene-d10	188	10.056	10.058	-0.002	96	739822	4.00	4.00	
* 5 Chrysene-d12	240	12.943	12.939	0.004	99	654448	4.00	4.00	
* 6 Perylene-d12	264	14.662	14.658	0.004	97	739443	4.00	4.00	
$ 7 2-Fluorophenol	112	4.774	4.771	0.003	93	60238	1.00	0.9496	
$ 8 Phenol-d5	99	5.640	5.636	0.004	97	75294	1.00	0.9607	
$ 9 Nitrobenzene-d5	82	6.541	6.537	0.004	90	67075	1.00	0.9433	
$ 10 2-Fluorobiphenyl	172	8.159	8.162	-0.003	100	147957	1.00	0.9862	
$ 11 2,4,6-Tribromophenol	330	9.457	9.454	0.003	95	15004	1.00	0.9698	
$ 12 p-Terphenyl-d14	244	11.645	11.647	-0.002	97	171799	1.00	0.9684	
13 1,4-Dioxane	88	3.304	3.307	-0.003	97	25620	1.00	1.01	
14 N-Nitrosodimethylamine	42	3.607	3.609	-0.002	93	32131	1.00	0.99	
15 Pyridine	52	3.648	3.639	0.009	92	62500	2.00	1.89	
35 Benzaldehyde	77	5.604	5.607	-0.003	95	55562	1.00	1.03	
37 Phenol	94	5.652	5.654	-0.002	99	76310	1.00	0.9578	
36 Aniline	93	5.705	5.702	0.003	97	91840	1.00	0.9448	
39 Bis(2-chloroethyl)ether	93	5.735	5.737	-0.002	92	70159	1.00	1.01	
41 n-Decane	57	5.824	5.820	0.004	91	77950	1.00	1.02	
40 2-Chlorophenol	128	5.830	5.826	0.004	97	63442	1.00	0.9571	
43 1,3-Dichlorobenzene	146	5.972	5.968	0.004	99	78644	1.00	1.00	
44 1,4-Dichlorobenzene	146	6.037	6.034	0.003	96	79069	1.00	0.9816	
45 Benzyl alcohol	108	6.132	6.134	-0.002	93	38828	1.00	0.9525	
46 1,2-Dichlorobenzene	146	6.185	6.188	-0.003	98	74941	1.00	0.99	
48 2-Methylphenol	108	6.227	6.229	-0.002	92	58756	1.00	0.9721	
49 2,2'-oxybis[1-chloropropane]	45	6.245	6.247	-0.002	94	107201	1.00	1.01	
47 Indene	115	6.268	6.271	-0.003	89	760498	6.00	6.07	
57 4-Methylphenol	108	6.369	6.366	0.003	95	62517	1.00	1.00	
53 N-Nitrosodi-n-propylamine	70	6.369	6.371	-0.002	89	44766	1.00	0.9858	
52 Acetophenone	105	6.387	6.389	-0.002	96	85873	1.00	0.9807	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.511	6.508	0.003	95	29094	1.00	0.9495	
59 Nitrobenzene	77	6.559	6.555	0.004	88	67406	1.00	0.9368	
62 Isophorone	82	6.766	6.769	-0.003	99	124676	1.00	0.9772	
64 2-Nitrophenol	139	6.855	6.858	-0.003	93	30445	1.00	0.9290	
66 2,4-Dimethylphenol	107	6.867	6.869	-0.002	94	63972	1.00	0.9496	
69 Bis(2-chloroethoxy)methane	93	6.944	6.946	-0.002	98	73252	1.00	0.9400	
70 Benzoic acid	105	6.938	6.994	-0.056	91	35478	6.00	7.36	
72 2,4-Dichlorophenol	162	7.080	7.077	0.003	93	51608	1.00	0.9490	
73 1,2,4-Trichlorobenzene	180	7.157	7.160	-0.003	94	61955	1.00	0.9450	
74 Naphthalene	128	7.234	7.237	-0.003	97	198619	1.00	0.9718	
76 4-Chloroaniline	127	7.264	7.267	-0.003	97	74750	1.00	0.9569	
77 2,6-Dichlorophenol	162	7.282	7.284	-0.002	97	54561	1.00	0.9515	
79 Hexachlorobutadiene	225	7.335	7.338	-0.003	95	36304	1.00	0.9545	
84 Caprolactam	113	7.561	7.581	-0.021	79	18523	1.00	0.9475	
85 4-Chloro-3-methylphenol	107	7.691	7.693	-0.002	96	48868	1.00	0.9465	
87 2-Methylnaphthalene	142	7.857	7.853	0.004	96	123332	1.00	0.9785	
89 1-Methylnaphthalene	142	7.946	7.948	-0.002	92	124338	1.00	0.9703	
90 Hexachlorocyclopentadiene	237	7.993	7.996	-0.003	92	15226	1.00	0.8852	
91 1,2,4,5-Tetrachlorobenzene	216	8.005	8.008	-0.003	97	64406	1.00	1.00	
93 2,4,6-Trichlorophenol	196	8.100	8.102	-0.002	92	33894	1.00	0.9518	
94 2,4,5-Trichlorophenol	196	8.141	8.138	0.003	94	33819	1.00	0.9279	
96 1,1'-Biphenyl	154	8.254	8.256	-0.002	95	161912	1.00	1.01	
97 2-Chloronaphthalene	162	8.290	8.292	-0.002	96	122108	1.00	0.9541	
100 2-Nitroaniline	65	8.367	8.363	0.004	84	31352	1.00	0.9774	
105 Dimethyl phthalate	163	8.491	8.494	-0.003	99	139938	1.00	1.01	
106 1,3-Dinitrobenzene	168	8.545	8.541	0.004	85	15905	1.00	0.9041	
107 2,6-Dinitrotoluene	165	8.556	8.559	-0.003	94	30701	1.00	1.03	
108 Acenaphthylene	152	8.657	8.660	-0.003	98	194062	1.00	1.00	
109 3-Nitroaniline	138	8.716	8.719	-0.003	93	26459	1.00	0.9368	
110 Acenaphthene	153	8.805	8.808	-0.003	94	128599	1.00	0.99	
111 2,4-Dinitrophenol	184	8.811	8.814	-0.003	79	8429	2.00	2.43	
112 4-Nitrophenol	109	8.853	8.855	-0.002	90	18865	2.00	1.83	
114 2,4-Dinitrotoluene	165	8.912	8.914	-0.002	95	36017	1.00	0.9731	
115 Dibenzofuran	168	8.954	8.950	0.004	97	174288	1.00	1.00	
118 2,3,4,6-Tetrachlorophenol	232	9.054	9.057	-0.003	74	21552	1.00	0.9102	
121 Hexadecane	57	9.078	9.080	-0.002	93	85679	1.00	0.9851	
120 Diethyl phthalate	149	9.090	9.092	-0.002	98	134735	1.00	0.9838	
123 4-Chlorophenyl phenyl ether	204	9.220	9.217	0.003	91	67991	1.00	0.9829	
124 Fluorene	166	9.244	9.246	-0.002	94	148146	1.00	1.01	
126 4-Nitroaniline	138	9.244	9.246	-0.002	84	30077	1.00	0.9404	
127 4,6-Dinitro-2-methylphenol	198	9.274	9.276	-0.002	87	23677	2.00	1.87	
129 Diphenylamine	169	9.315	9.318	-0.003	94	99771	0.8550	0.8335	
130 N-Nitrosodiphenylamine	169	9.315	9.318	-0.003	63	99771	1.00	0.9749	
131 1,2-Diphenylhydrazine	77	9.357	9.359	-0.002	41	131738	1.00	0.9669	
132 Azobenzene	77	9.357	9.359	-0.002	99	131738	1.00	0.9669	
139 4-Bromophenyl phenyl ether	248	9.641	9.638	0.003	65	40431	1.00	0.9681	
140 Hexachlorobenzene	284	9.730	9.732	-0.002	96	41505	1.00	0.9230	
143 Atrazine	200	9.736	9.738	-0.002	92	36423	1.00	0.9840	
148 n-Octadecane	57	9.855	9.851	0.004	93	89489	1.00	0.99	
145 Pentachlorophenol	266	9.890	9.893	-0.003	93	15301	2.00	1.82	
151 Phenanthrene	178	10.080	10.076	0.004	98	199642	1.00	0.9761	
152 Anthracene	178	10.121	10.124	-0.003	98	203009	1.00	0.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.252	10.254	-0.002	96	177791	1.00	0.9778	
157 Di-n-butyl phthalate	149	10.495	10.497	-0.002	100	228357	1.00	0.9763	
164 Fluoranthene	202	11.271	11.268	0.003	98	210496	1.00	0.9694	
166 Benzidine	184	11.366	11.374	-0.008	99	259080	2.00	2.07	
167 Pyrene	202	11.532	11.535	-0.002	97	220026	1.00	1.00	
174 Butyl benzyl phthalate	149	12.166	12.169	-0.003	97	94654	1.00	0.9893	
181 Bis(2-ethylhexyl) phthalate	149	12.830	12.833	-0.003	97	132866	1.00	0.9736	
179 3,3'-Dichlorobenzidine	252	12.860	12.862	-0.002	73	198370	2.00	1.95	
180 Benzo[a]anthracene	228	12.925	12.928	-0.003	99	220504	1.00	0.9840	
182 Chrysene	228	12.973	12.975	-0.002	97	201770	1.00	0.9855	
184 Di-n-octyl phthalate	149	13.583	13.586	-0.003	99	228942	1.00	0.9840	
186 Benzo[b]fluoranthene	252	14.182	14.184	-0.002	98	209670	1.00	0.9045	
187 Benzo[k]fluoranthene	252	14.211	14.214	-0.003	99	234177	1.00	0.9877	
189 Benzo[a]pyrene	252	14.591	14.593	-0.002	80	197031	1.00	0.9544	
194 Dibenz(a,h)anthracene	278	16.209	16.217	-0.008	90	195851	1.00	0.9570	
193 Indeno[1,2,3-cd]pyrene	276	16.215	16.223	-0.008	96	241367	1.00	0.9503	
195 Benzo[g,h,i]perylene	276	16.689	16.698	-0.009	96	194159	1.00	0.9706	
S 261 Total Cresols	1				0			1.97	

QC Flag Legend

Processing Flags

Reagents:

MB_L1LVI_WRK_00644 Amount Added: 1.00 Units: mL

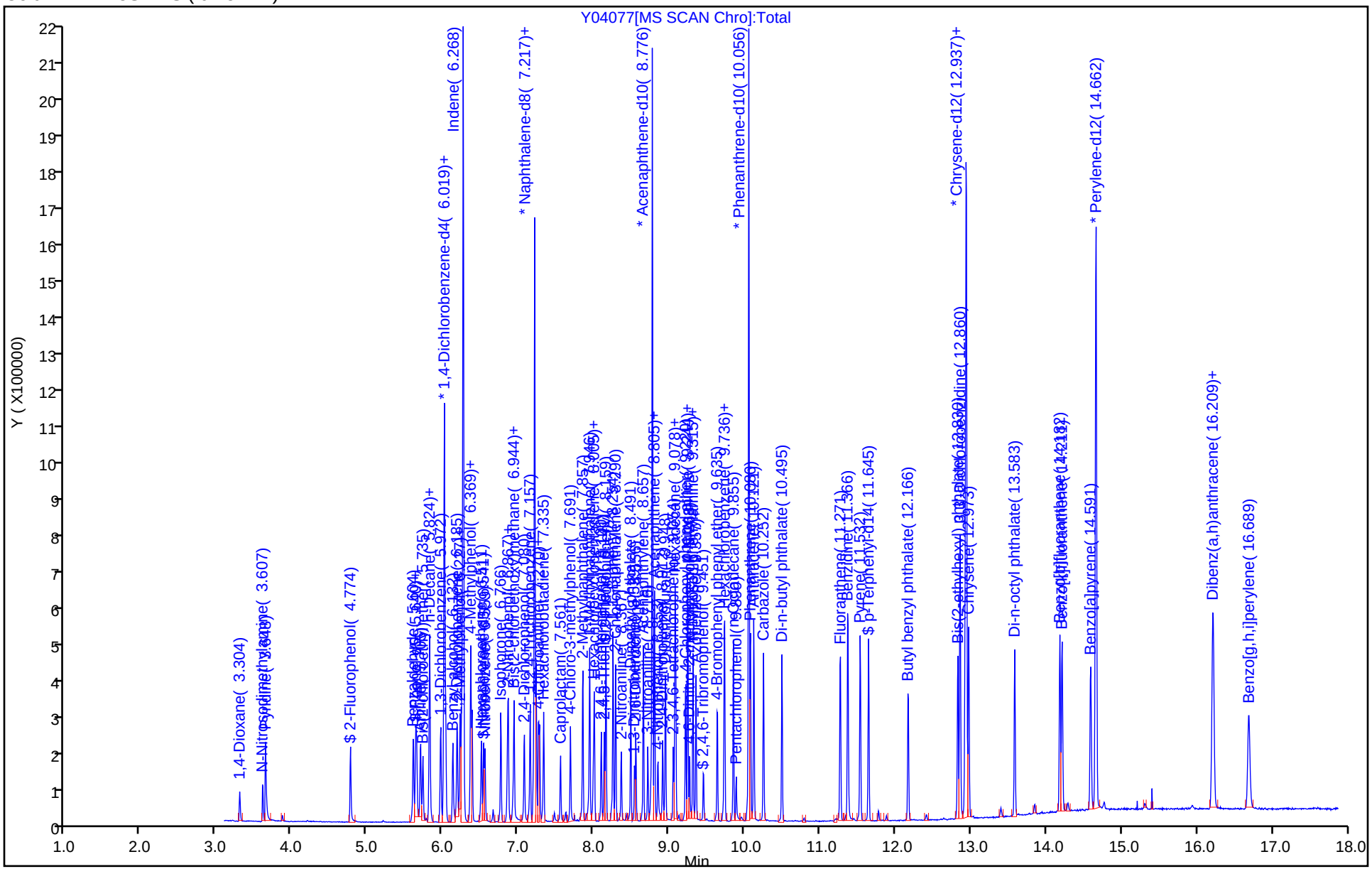
Report Date: 11-Oct-2024 11:30:57 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04077.D

Injection Date:	10-Oct-2024 15:42:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 1			Worklist Smp#:	5
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04078.D
Lims ID: IC - List 1 - 2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 10-Oct-2024 16:10:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-006
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:31:18 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:53:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.018	6.021	-0.003	95	204331	4.00	4.00	
* 2 Naphthalene-d8	136	7.216	7.213	0.003	99	759842	4.00	4.00	
* 3 Acenaphthene-d10	164	8.775	8.777	-0.002	93	440182	4.00	4.00	
* 4 Phenanthrene-d10	188	10.055	10.058	-0.003	97	719816	4.00	4.00	
* 5 Chrysene-d12	240	12.942	12.939	0.003	99	654159	4.00	4.00	
* 6 Perylene-d12	264	14.661	14.658	0.003	97	725592	4.00	4.00	
$ 7 2-Fluorophenol	112	4.773	4.771	0.002	92	128328	2.00	2.04	
$ 8 Phenol-d5	99	5.639	5.636	0.003	98	157909	2.00	2.03	
$ 9 Nitrobenzene-d5	82	6.540	6.537	0.003	89	139372	2.00	1.94	
$ 10 2-Fluorobiphenyl	172	8.164	8.162	0.002	100	305334	2.00	2.02	
$ 11 2,4,6-Tribromophenol	330	9.456	9.454	0.002	95	32424	2.00	1.94	
$ 12 p-Terphenyl-d14	244	11.644	11.647	-0.003	96	366271	2.00	2.07	
13 1,4-Dioxane	88	3.303	3.307	-0.004	99	50362	2.00	1.99	
14 N-Nitrosodimethylamine	42	3.606	3.609	-0.003	94	65056	2.00	2.02	
15 Pyridine	52	3.641	3.639	0.002	93	128655	4.00	3.71	
35 Benzaldehyde	77	5.609	5.607	0.002	95	111862	2.00	2.22	
37 Phenol	94	5.651	5.654	-0.003	99	158259	2.00	2.00	
36 Aniline	93	5.704	5.702	0.002	97	189816	2.00	1.97	
39 Bis(2-chloroethyl)ether	93	5.734	5.737	-0.003	94	145111	2.00	2.19	
41 n-Decane	57	5.823	5.820	0.003	92	154256	2.00	2.03	
40 2-Chlorophenol	128	5.829	5.826	0.003	97	132912	2.00	2.02	
43 1,3-Dichlorobenzene	146	5.971	5.968	0.003	99	159373	2.00	2.04	
44 1,4-Dichlorobenzene	146	6.036	6.034	0.002	96	160927	2.00	2.01	
45 Benzyl alcohol	108	6.131	6.134	-0.003	94	83551	2.00	2.00	
46 1,2-Dichlorobenzene	146	6.190	6.188	0.002	98	151147	2.00	2.02	
48 2-Methylphenol	108	6.226	6.229	-0.003	93	121402	2.00	2.02	
49 2,2'-oxybis[1-chloropropane]	45	6.243	6.247	-0.004	94	215142	2.00	2.10	
47 Indene	115	6.267	6.271	-0.004	89	1543302	12.0	13.1	
57 4-Methylphenol	108	6.368	6.366	0.002	96	124337	2.00	1.99	
53 N-Nitrosodi-n-propylamine	70	6.368	6.371	-0.003	90	91529	2.00	2.03	
52 Acetophenone	105	6.386	6.389	-0.003	96	177222	2.00	2.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.510	6.508	0.002	96	61496	2.00	2.02	
59 Nitrobenzene	77	6.558	6.555	0.003	88	139031	2.00	1.97	
62 Isophorone	82	6.765	6.769	-0.004	99	251667	2.00	2.01	
64 2-Nitrophenol	139	6.854	6.858	-0.004	94	66228	2.00	1.93	
66 2,4-Dimethylphenol	107	6.866	6.869	-0.003	95	132567	2.00	2.00	
69 Bis(2-chloroethoxy)methane	93	6.943	6.946	-0.003	97	150446	2.00	1.97	
70 Benzoic acid	105	6.967	6.994	-0.027	89	161927	12.0	10.8	
72 2,4-Dichlorophenol	162	7.079	7.077	0.002	92	110071	2.00	1.97	
73 1,2,4-Trichlorobenzene	180	7.156	7.160	-0.004	94	125604	2.00	1.95	
74 Naphthalene	128	7.233	7.237	-0.004	98	404137	2.00	2.01	
76 4-Chloroaniline	127	7.269	7.267	0.002	96	152287	2.00	1.98	
77 2,6-Dichlorophenol	162	7.281	7.284	-0.003	97	111168	2.00	1.97	
79 Hexachlorobutadiene	225	7.334	7.338	-0.004	95	74282	2.00	1.99	
84 Caprolactam	113	7.565	7.581	-0.016	79	40787	2.00	2.03	
85 4-Chloro-3-methylphenol	107	7.690	7.693	-0.003	96	107700	2.00	2.03	
87 2-Methylnaphthalene	142	7.856	7.853	0.003	93	252648	2.00	2.04	
89 1-Methylnaphthalene	142	7.945	7.948	-0.003	93	254308	2.00	2.02	
90 Hexachlorocyclopentadiene	237	7.992	7.996	-0.004	92	42836	2.00	1.84	
91 1,2,4,5-Tetrachlorobenzene	216	8.004	8.008	-0.004	96	129575	2.00	1.99	
93 2,4,6-Trichlorophenol	196	8.099	8.102	-0.003	93	73777	2.00	1.92	
94 2,4,5-Trichlorophenol	196	8.140	8.138	0.002	95	76811	2.00	1.91	
96 1,1'-Biphenyl	154	8.253	8.256	-0.003	96	324951	2.00	2.01	
97 2-Chloronaphthalene	162	8.289	8.292	-0.003	95	261881	2.00	2.03	
100 2-Nitroaniline	65	8.366	8.363	0.003	87	67657	2.00	1.96	
105 Dimethyl phthalate	163	8.490	8.494	-0.004	99	277953	2.00	1.99	
106 1,3-Dinitrobenzene	168	8.543	8.541	0.002	84	36464	2.00	1.83	
107 2,6-Dinitrotoluene	165	8.561	8.559	0.002	94	60492	2.00	1.93	
108 Acenaphthylene	152	8.656	8.660	-0.004	98	398540	2.00	2.04	
109 3-Nitroaniline	138	8.715	8.719	-0.004	96	61330	2.00	1.95	
110 Acenaphthene	153	8.804	8.808	-0.004	95	265517	2.00	2.03	
111 2,4-Dinitrophenol	184	8.810	8.814	-0.004	81	28464	4.00	3.70	
112 4-Nitrophenol	109	8.852	8.855	-0.003	90	45823	4.00	3.68	
114 2,4-Dinitrotoluene	165	8.917	8.914	0.003	95	76310	2.00	1.91	
115 Dibenzofuran	168	8.952	8.950	0.002	97	359184	2.00	2.03	
118 2,3,4,6-Tetrachlorophenol	232	9.053	9.057	-0.004	72	50444	2.00	1.84	
121 Hexadecane	57	9.077	9.080	-0.003	93	180493	2.00	2.06	
120 Diethyl phthalate	149	9.089	9.092	-0.003	98	280443	2.00	2.03	
123 4-Chlorophenyl phenyl ether	204	9.219	9.217	0.002	90	139909	2.00	2.01	
124 Fluorene	166	9.249	9.246	0.003	94	299635	2.00	2.02	
126 4-Nitroaniline	138	9.249	9.246	0.003	54	68356	2.00	2.00	
127 4,6-Dinitro-2-methylphenol	198	9.273	9.276	-0.003	90	63585	4.00	3.70	
129 Diphenylamine	169	9.314	9.318	-0.004	95	201662	1.71	1.73	
130 N-Nitrosodiphenylamine	169	9.314	9.318	-0.004	62	201662	2.00	2.03	
131 1,2-Diphenylhydrazine	77	9.356	9.359	-0.003	44	280298	2.00	2.11	
132 Azobenzene	77	9.356	9.359	-0.003	99	280298	2.00	2.11	
139 4-Bromophenyl phenyl ether	248	9.640	9.638	0.002	65	81167	2.00	2.00	
140 Hexachlorobenzene	284	9.729	9.732	-0.003	94	90116	2.00	2.06	
143 Atrazine	200	9.735	9.738	-0.003	92	76542	2.00	2.10	
148 n-Octadecane	57	9.853	9.851	0.002	93	186712	2.00	2.12	
145 Pentachlorophenol	266	9.889	9.893	-0.004	94	45351	4.00	3.22	
151 Phenanthrene	178	10.079	10.076	0.003	97	405994	2.00	2.04	
152 Anthracene	178	10.120	10.124	-0.004	98	421687	2.00	2.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.251	10.254	-0.003	95	365408	2.00	2.07	
157 Di-n-butyl phthalate	149	10.494	10.497	-0.003	100	463712	2.00	2.04	
164 Fluoranthene	202	11.270	11.268	0.002	98	439926	2.00	2.08	
166 Benzidine	184	11.371	11.374	-0.003	99	486997	4.00	3.72	
167 Pyrene	202	11.531	11.535	-0.003	97	455511	2.00	2.08	
174 Butyl benzyl phthalate	149	12.171	12.169	0.002	97	200010	2.00	1.99	
181 Bis(2-ethylhexyl) phthalate	149	12.829	12.833	-0.004	96	293127	2.00	2.04	
179 3,3'-Dichlorobenzidine	252	12.859	12.862	-0.003	73	390748	4.00	3.77	
180 Benzo[a]anthracene	228	12.924	12.928	-0.004	99	455684	2.00	2.03	
182 Chrysene	228	12.971	12.975	-0.004	97	422497	2.00	2.06	
184 Di-n-octyl phthalate	149	13.582	13.586	-0.004	99	493562	2.00	2.03	
186 Benzo[b]fluoranthene	252	14.181	14.184	-0.003	98	478423	2.00	2.08	
187 Benzo[k]fluoranthene	252	14.210	14.214	-0.004	99	511188	2.00	2.20	
189 Benzo[a]pyrene	252	14.590	14.593	-0.003	78	413291	2.00	2.01	
194 Dibenz(a,h)anthracene	278	16.208	16.217	-0.009	88	401632	2.00	1.98	
193 Indeno[1,2,3-cd]pyrene	276	16.214	16.223	-0.009	97	511230	2.00	2.03	
195 Benzo[g,h,i]perylene	276	16.688	16.698	-0.010	97	398412	2.00	2.01	
S 261 Total Cresols	1				0			4.02	

QC Flag Legend

Processing Flags

Reagents:

MB_L1LVI_WRK_00645 Amount Added: 1.00 Units: mL

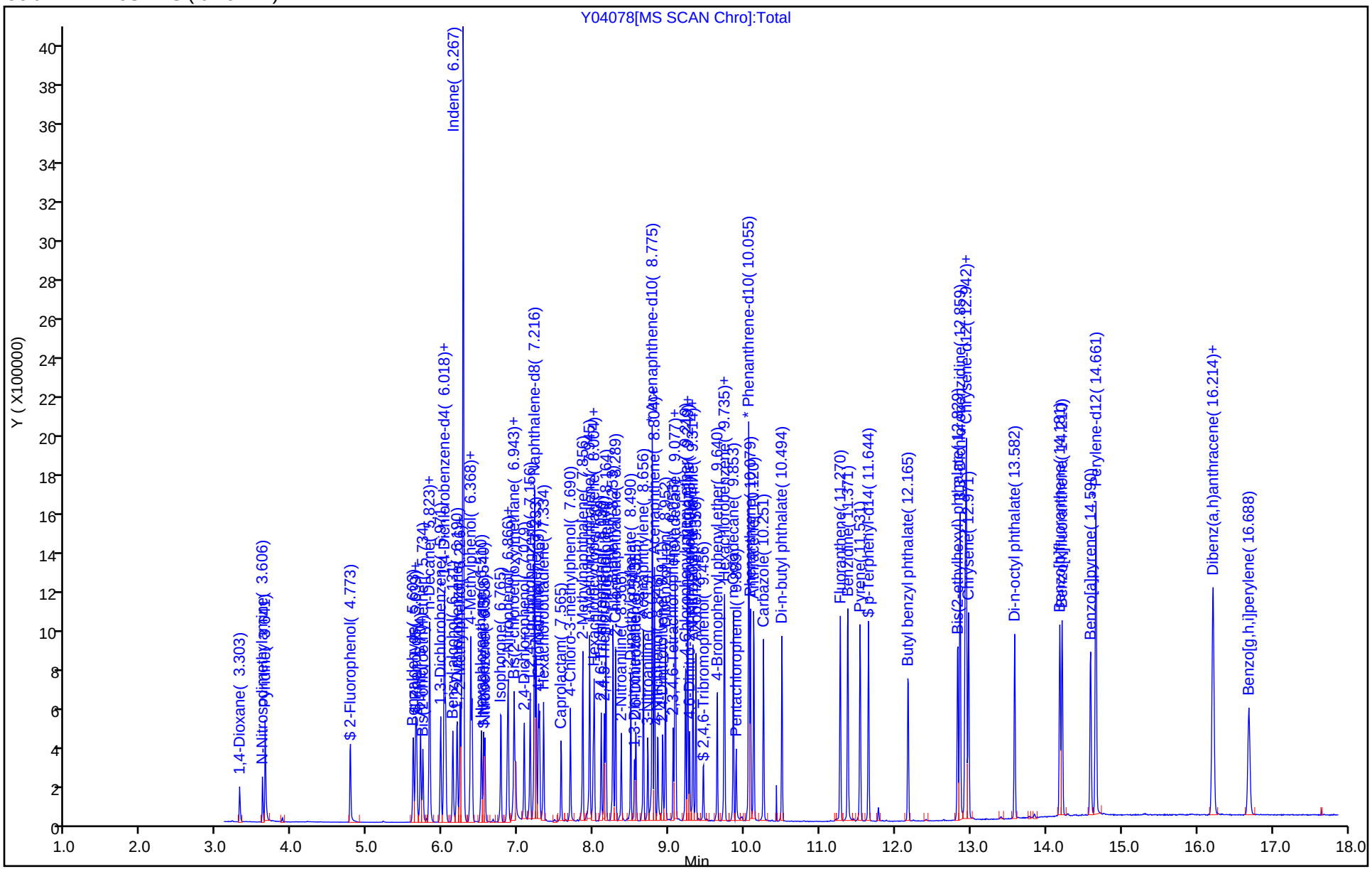
Report Date: 11-Oct-2024 11:31:20 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04078.D

Injection Date:	10-Oct-2024 16:10:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 2			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04079.D
Lims ID: ICIS - List 1 - 4
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 10-Oct-2024 16:37:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-007
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:31:46 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:42:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.022	6.022	0.000	94	213896	4.00	4.00	
* 2 Naphthalene-d8	136	7.219	7.219	0.000	99	773798	4.00	4.00	
* 3 Acenaphthene-d10	164	8.778	8.778	0.000	93	455089	4.00	4.00	
* 4 Phenanthrene-d10	188	10.058	10.058	0.000	97	755758	4.00	4.00	
* 5 Chrysene-d12	240	12.945	12.945	0.000	99	695335	4.00	4.00	
* 6 Perylene-d12	264	14.664	14.664	0.000	97	758890	4.00	4.00	
$ 7 2-Fluorophenol	112	4.771	4.771	0.000	93	253018	4.00	3.84	
$ 8 Phenol-d5	99	5.636	5.636	0.000	96	322443	4.00	3.96	
$ 9 Nitrobenzene-d5	82	6.537	6.537	0.000	90	312189	4.00	4.21	
$ 10 2-Fluorobiphenyl	172	8.162	8.162	0.000	100	612523	4.00	3.92	
$ 11 2,4,6-Tribromophenol	330	9.454	9.454	0.000	95	71123	4.00	3.87	
$ 12 p-Terphenyl-d14	244	11.647	11.647	0.000	97	718271	4.00	3.81	
13 1,4-Dioxane	88	3.307	3.307	0.000	97	103302	4.00	3.91	
14 N-Nitrosodimethylamine	42	3.609	3.609	0.000	93	131212	4.00	3.90	
15 Pyridine	52	3.639	3.639	0.000	92	281968	8.00	7.57	
35 Benzaldehyde	77	5.607	5.607	0.000	94	212593	4.00	4.13	
37 Phenol	94	5.654	5.654	0.000	99	322154	4.00	3.89	
36 Aniline	93	5.702	5.702	0.000	95	388415	4.00	3.85	
39 Bis(2-chloroethyl)ether	93	5.737	5.737	0.000	94	276130	4.00	4.04	
41 n-Decane	57	5.820	5.820	0.000	92	313672	4.00	3.94	
40 2-Chlorophenol	128	5.826	5.826	0.000	98	270114	4.00	3.92	
43 1,3-Dichlorobenzene	146	5.968	5.968	0.000	99	315016	4.00	3.86	
44 1,4-Dichlorobenzene	146	6.034	6.034	0.000	95	325428	4.00	3.89	
45 Benzyl alcohol	108	6.134	6.134	0.000	93	170430	4.00	3.84	
46 1,2-Dichlorobenzene	146	6.188	6.188	0.000	98	307674	4.00	3.92	
48 2-Methylphenol	108	6.229	6.229	0.000	92	242675	4.00	3.86	
49 2,2'-oxybis[1-chloropropane]	45	6.247	6.247	0.000	93	420966	4.00	3.99	
47 Indene	115	6.271	6.271	0.000	88	3077049	24.0	25.4	
57 4-Methylphenol	108	6.366	6.366	0.000	96	258015	4.00	3.95	
53 N-Nitrosodi-n-propylamine	70	6.371	6.371	0.000	91	185957	4.00	3.94	
52 Acetophenone	105	6.389	6.389	0.000	98	358207	4.00	3.94	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.508	6.508	0.000	98	122711	4.00	3.85	
59 Nitrobenzene	77	6.555	6.555	0.000	88	286118	4.00	3.98	
62 Isophorone	82	6.769	6.769	0.000	99	502690	4.00	3.94	
64 2-Nitrophenol	139	6.858	6.858	0.000	94	139128	4.00	3.87	
66 2,4-Dimethylphenol	107	6.869	6.869	0.000	94	267653	4.00	3.97	
69 Bis(2-chloroethoxy)methane	93	6.946	6.946	0.000	98	315943	4.00	4.05	
70 Benzoic acid	105	6.994	6.994	0.000	88	528596	24.0	20.5	
72 2,4-Dichlorophenol	162	7.077	7.077	0.000	94	226619	4.00	3.90	
73 1,2,4-Trichlorobenzene	180	7.160	7.160	0.000	94	268660	4.00	4.10	
74 Naphthalene	128	7.237	7.237	0.000	98	791133	4.00	3.87	
76 4-Chloroaniline	127	7.267	7.267	0.000	97	310670	4.00	3.98	
77 2,6-Dichlorophenol	162	7.284	7.284	0.000	98	227171	4.00	3.96	
79 Hexachlorobutadiene	225	7.338	7.338	0.000	96	146471	4.00	3.85	
84 Caprolactam	113	7.581	7.581	0.000	78	80525	4.00	3.86	
85 4-Chloro-3-methylphenol	107	7.693	7.693	0.000	96	216526	4.00	3.93	
87 2-Methylnaphthalene	142	7.853	7.853	0.000	93	500396	4.00	3.97	
89 1-Methylnaphthalene	142	7.948	7.948	0.000	94	512870	4.00	4.00	
90 Hexachlorocyclopentadiene	237	7.996	7.996	0.000	94	101650	4.00	3.78	
91 1,2,4,5-Tetrachlorobenzene	216	8.008	8.008	0.000	97	261601	4.00	3.88	
93 2,4,6-Trichlorophenol	196	8.102	8.102	0.000	92	159433	4.00	3.88	
94 2,4,5-Trichlorophenol	196	8.138	8.138	0.000	95	167313	4.00	3.87	M
96 1,1'-Biphenyl	154	8.256	8.256	0.000	96	660505	4.00	3.96	
97 2-Chloronaphthalene	162	8.292	8.292	0.000	95	525631	4.00	3.94	
100 2-Nitroaniline	65	8.363	8.363	0.000	87	144596	4.00	3.92	
105 Dimethyl phthalate	163	8.494	8.494	0.000	99	555042	4.00	3.84	
106 1,3-Dinitrobenzene	168	8.541	8.541	0.000	85	83286	4.00	3.85	
107 2,6-Dinitrotoluene	165	8.559	8.559	0.000	94	133588	4.00	4.01	
108 Acenaphthylene	152	8.660	8.660	0.000	98	820797	4.00	4.07	
109 3-Nitroaniline	138	8.719	8.719	0.000	95	133682	4.00	3.94	
110 Acenaphthene	153	8.808	8.808	0.000	95	531244	4.00	3.94	
111 2,4-Dinitrophenol	184	8.814	8.814	0.000	80	77786	8.00	6.68	
112 4-Nitrophenol	109	8.855	8.855	0.000	89	107299	8.00	7.67	
114 2,4-Dinitrotoluene	165	8.914	8.914	0.000	95	164115	4.00	3.85	
115 Dibenzofuran	168	8.950	8.950	0.000	97	727701	4.00	3.99	
118 2,3,4,6-Tetrachlorophenol	232	9.057	9.057	0.000	71	114108	4.00	3.78	
121 Hexadecane	57	9.080	9.080	0.000	94	359465	4.00	3.96	
120 Diethyl phthalate	149	9.092	9.092	0.000	98	573400	4.00	4.02	
123 4-Chlorophenyl phenyl ether	204	9.217	9.217	0.000	92	282839	4.00	3.92	
124 Fluorene	166	9.246	9.246	0.000	93	600540	4.00	3.91	
126 4-Nitroaniline	138	9.246	9.246	0.000	57	142820	4.00	3.95	
127 4,6-Dinitro-2-methylphenol	198	9.276	9.276	0.000	88	146586	8.00	7.12	
129 Diphenylamine	169	9.318	9.318	0.000	95	403564	3.42	3.30	
130 N-Nitrosodiphenylamine	169	9.318	9.318	0.000	62	403564	4.00	3.86	
131 1,2-Diphenylhydrazine	77	9.359	9.359	0.000	41	565352	4.00	4.06	
132 Azobenzene	77	9.359	9.359	0.000	99	565352	4.00	4.06	
139 4-Bromophenyl phenyl ether	248	9.638	9.638	0.000	65	168378	4.00	3.95	
140 Hexachlorobenzene	284	9.732	9.732	0.000	95	181121	4.00	3.94	
143 Atrazine	200	9.738	9.738	0.000	93	150801	4.00	4.03	
148 n-Octadecane	57	9.851	9.851	0.000	93	380381	4.00	4.12	
145 Pentachlorophenol	266	9.893	9.893	0.000	94	127197	8.00	6.71	
151 Phenanthrene	178	10.076	10.076	0.000	98	839173	4.00	4.02	
152 Anthracene	178	10.124	10.124	0.000	98	836882	4.00	4.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.254	10.254	0.000	96	746568	4.00	4.02	
157 Di-n-butyl phthalate	149	10.497	10.497	0.000	100	966919	4.00	4.05	
164 Fluoranthene	202	11.268	11.268	0.000	98	889154	4.00	4.01	
166 Benzidine	184	11.374	11.374	0.000	100	1077602	8.00	7.54	
167 Pyrene	202	11.535	11.535	0.000	96	916947	4.00	3.94	
174 Butyl benzyl phthalate	149	12.169	12.169	0.000	98	415066	4.00	3.80	
181 Bis(2-ethylhexyl) phthalate	149	12.833	12.833	0.000	96	616846	4.00	3.95	
179 3,3'-Dichlorobenzidine	252	12.862	12.862	0.000	73	877136	8.00	7.88	
180 Benzo[a]anthracene	228	12.928	12.928	0.000	99	927418	4.00	3.90	
182 Chrysene	228	12.975	12.975	0.000	97	848822	4.00	3.90	
184 Di-n-octyl phthalate	149	13.586	13.586	0.000	99	1043796	4.00	3.96	
186 Benzo[b]fluoranthene	252	14.184	14.184	0.000	98	962391	4.00	3.98	
187 Benzo[k]fluoranthene	252	14.214	14.214	0.000	99	934084	4.00	3.84	M
189 Benzo[a]pyrene	252	14.593	14.593	0.000	78	848526	4.00	3.93	
194 Dibenz(a,h)anthracene	278	16.217	16.217	0.000	88	851909	4.00	3.98	
193 Indeno[1,2,3-cd]pyrene	276	16.223	16.223	0.000	97	1057684	4.00	3.99	
195 Benzo[g,h,i]perylene	276	16.698	16.698	0.000	96	834543	4.00	4.01	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00646 Amount Added: 1.00 Units: mL

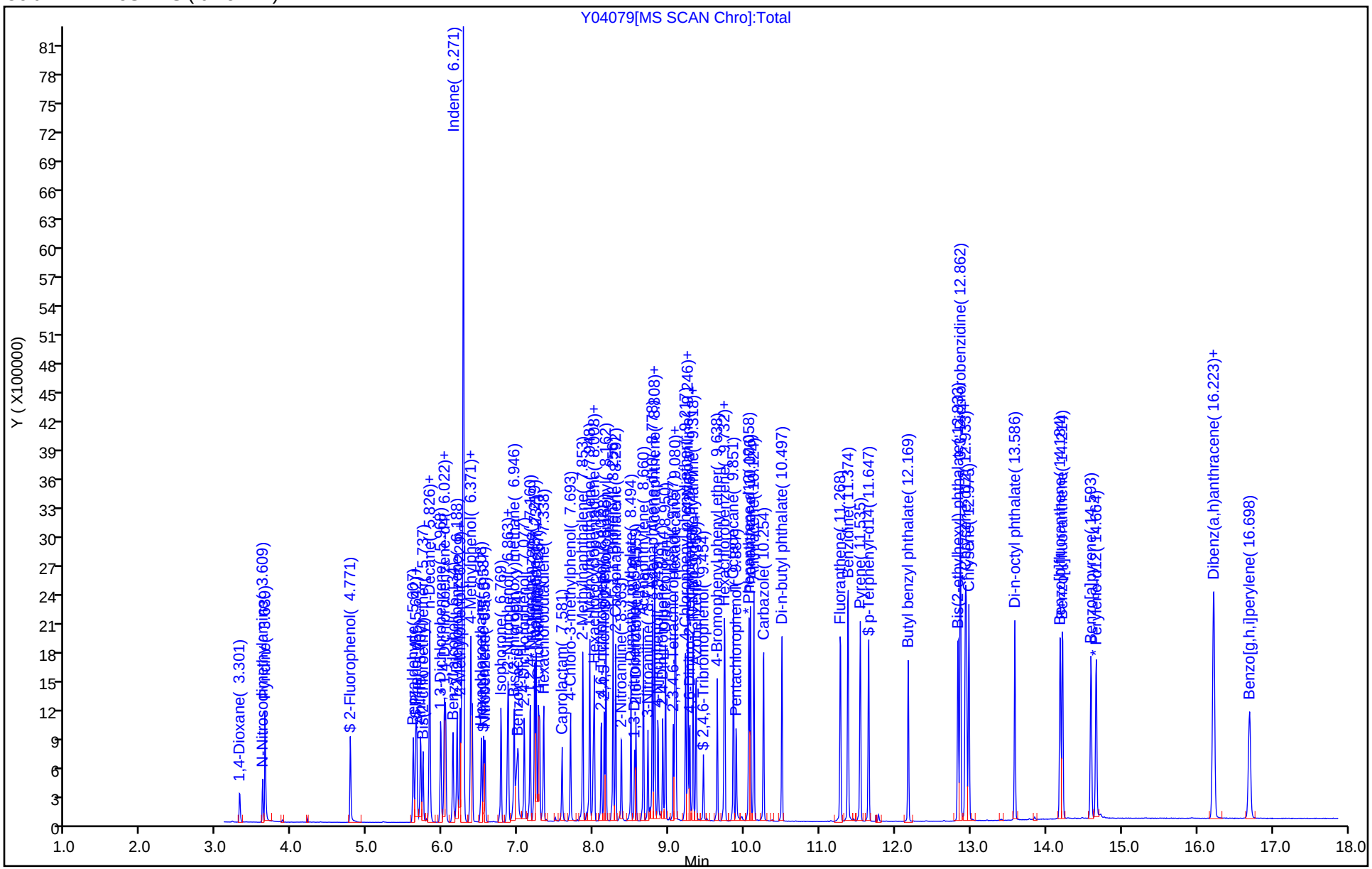
Report Date: 11-Oct-2024 11:31:54 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04079.D

Injection Date:	10-Oct-2024 16:37:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	ICIS - List 1 - 4			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Resolution Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04079.D
Injection Date: 10-Oct-2024 16:37:30 Instrument ID: HP5973Y
Lims ID: ICIS - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

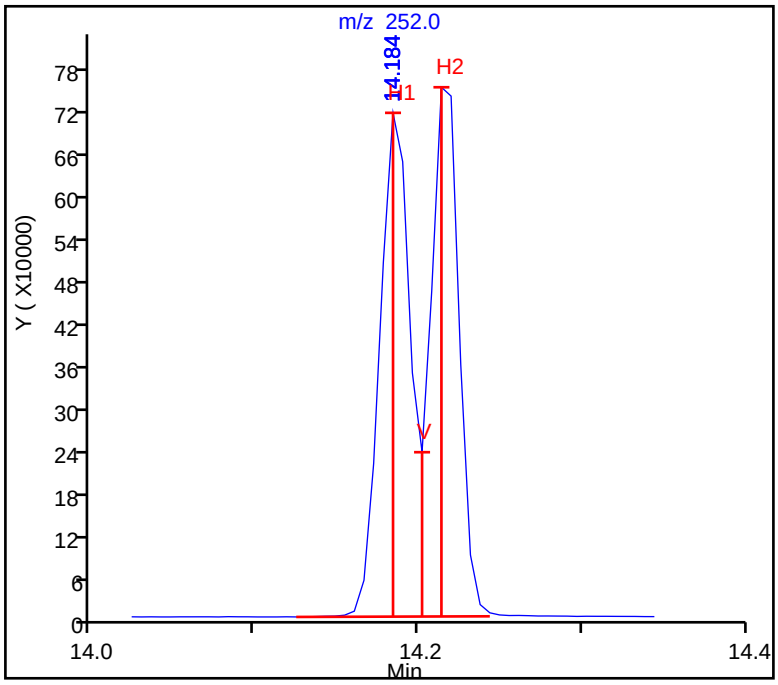
186 Benzo[b]fluoranthene - 187 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 231286
H1(186 Benzo[b]fluoranthen) = 709053
H2(187 Benzo[k]fluoranthen) = 744860

Version D: %R = 31.8 <= 50.0
Passed



Manual Integration/User Assign Peak Report

Eurofins Buffalo

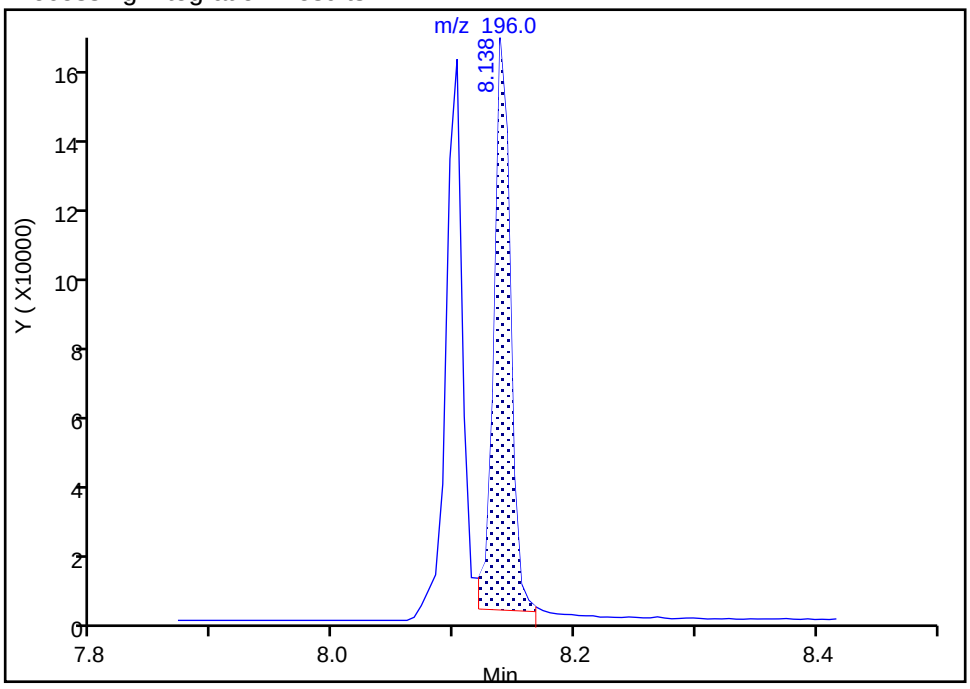
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04079.D
Injection Date: 10-Oct-2024 16:37:30 Instrument ID: HP5973Y
Lims ID: ICIS - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

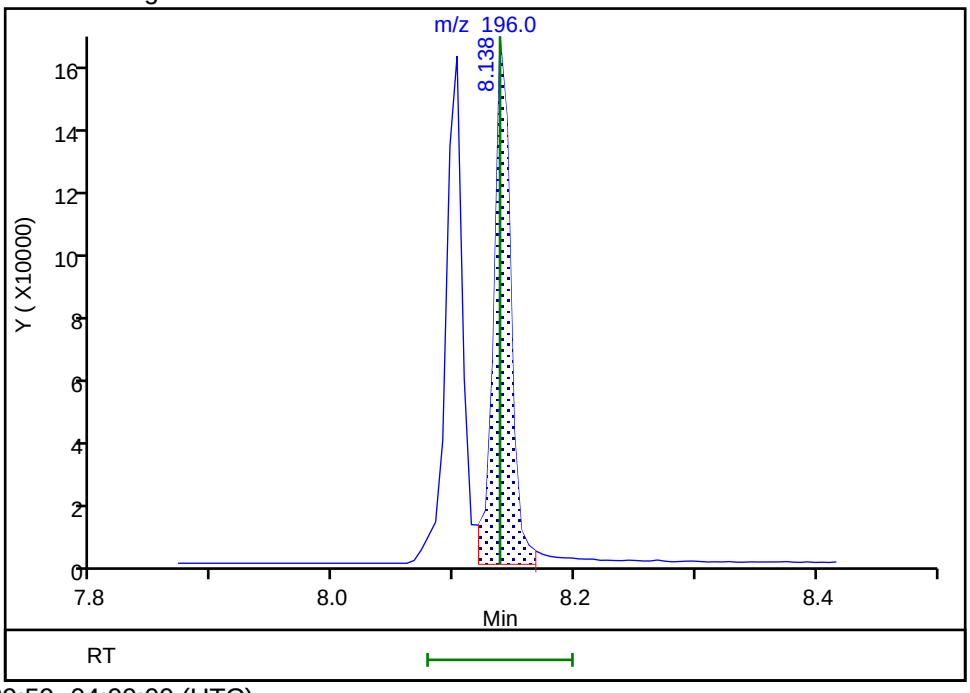
Processing Integration Results

RT: 8.14
Area: 157547
Amount: 3.809318
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 167313
Amount: 3.866626
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:29:59 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Buffalo

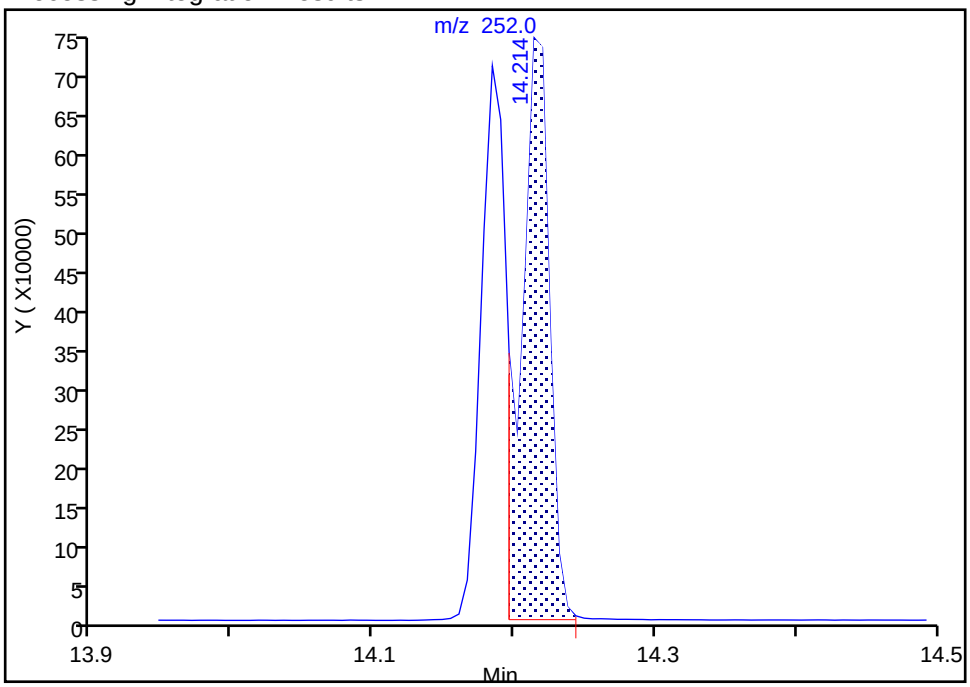
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04079.D
Injection Date: 10-Oct-2024 16:37:30 Instrument ID: HP5973Y
Lims ID: ICIS - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

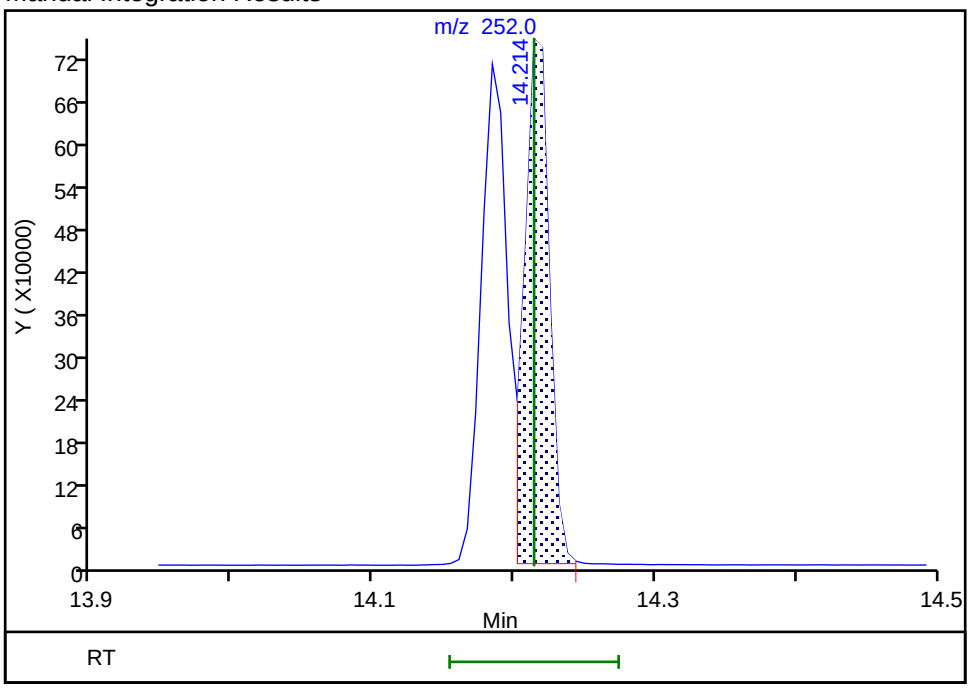
Processing Integration Results

RT: 14.21
Area: 1056032
Amount: 4.223397
Amount Units: ng/uL



Manual Integration Results

RT: 14.21
Area: 934084
Amount: 3.838831
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:30:25 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04080.D
Lims ID: IC - List 1 - 8
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 10-Oct-2024 17:05:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-008
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:32:10 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:54:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.022	6.022	0.000	94	196285	4.00	4.00	
* 2 Naphthalene-d8	136	7.219	7.219	0.000	99	688788	4.00	4.00	
* 3 Acenaphthene-d10	164	8.778	8.778	0.000	93	415416	4.00	4.00	
* 4 Phenanthrene-d10	188	10.058	10.058	0.000	97	708238	4.00	4.00	
* 5 Chrysene-d12	240	12.951	12.945	0.006	99	625760	4.00	4.00	
* 6 Perylene-d12	264	14.664	14.664	0.000	97	700280	4.00	4.00	
$ 7 2-Fluorophenol	112	4.771	4.771	0.000	93	513399	8.00	8.49	
$ 8 Phenol-d5	99	5.642	5.636	0.006	97	620078	8.00	8.30	
$ 9 Nitrobenzene-d5	82	6.543	6.537	0.006	88	563810	8.00	8.50	
$ 10 2-Fluorobiphenyl	172	8.167	8.162	0.005	99	1178690	8.00	8.26	
$ 11 2,4,6-Tribromophenol	330	9.460	9.454	0.006	94	137370	8.00	7.78	
$ 12 p-Terphenyl-d14	244	11.647	11.647	0.000	97	1452130	8.00	8.56	
13 1,4-Dioxane	88	3.301	3.307	-0.006	97	201388	8.00	8.30	
14 N-Nitrosodimethylamine	42	3.609	3.609	0.000	93	252000	8.00	8.16	
15 Pyridine	52	3.639	3.639	0.000	92	591576	16.0	17.1	
35 Benzaldehyde	77	5.607	5.607	0.000	96	394805	8.00	8.48	
37 Phenol	94	5.654	5.654	0.000	99	635286	8.00	8.36	
36 Aniline	93	5.707	5.702	0.005	97	805708	8.00	8.69	
39 Bis(2-chloroethyl)ether	93	5.737	5.737	0.000	93	494654	8.00	7.97	
41 n-Decane	57	5.826	5.820	0.006	92	600915	8.00	8.23	
40 2-Chlorophenol	128	5.832	5.826	0.006	98	532626	8.00	8.43	
43 1,3-Dichlorobenzene	146	5.974	5.968	0.006	99	620226	8.00	8.27	
44 1,4-Dichlorobenzene	146	6.039	6.034	0.005	95	635898	8.00	8.28	
45 Benzyl alcohol	108	6.134	6.134	0.000	93	342028	8.00	8.34	
46 1,2-Dichlorobenzene	146	6.187	6.188	-0.001	98	595203	8.00	8.26	
48 2-Methylphenol	108	6.229	6.229	0.000	97	483464	8.00	8.39	
49 2,2'-oxybis[1-chloropropane]	45	6.247	6.247	0.000	92	793612	8.00	8.27	
47 Indene	115	6.276	6.271	0.005	90	5536590	48.0	50.4	
57 4-Methylphenol	108	6.371	6.366	0.005	97	495459	8.00	8.27	
53 N-Nitrosodi-n-propylamine	70	6.377	6.371	0.006	88	357657	8.00	8.26	
52 Acetophenone	105	6.389	6.389	0.000	96	672484	8.00	8.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.508	6.508	0.000	99	244076	8.00	8.35	
59 Nitrobenzene	77	6.561	6.555	0.006	88	552766	8.00	8.63	
62 Isophorone	82	6.774	6.769	0.005	99	984281	8.00	8.66	
64 2-Nitrophenol	139	6.857	6.858	-0.001	93	283844	8.00	8.72	
66 2,4-Dimethylphenol	107	6.869	6.869	0.000	95	523454	8.00	8.73	
69 Bis(2-chloroethoxy)methane	93	6.946	6.946	0.000	98	595617	8.00	8.58	
70 Benzoic acid	105	7.041	6.994	0.047	89	1357379	48.0	47.0	
72 2,4-Dichlorophenol	162	7.083	7.077	0.006	93	450841	8.00	8.63	
73 1,2,4-Trichlorobenzene	180	7.160	7.160	0.000	94	500259	8.00	8.57	
74 Naphthalene	128	7.237	7.237	0.000	98	1543465	8.00	8.48	
76 4-Chloroaniline	127	7.272	7.267	0.005	96	611393	8.00	8.79	
77 2,6-Dichlorophenol	162	7.284	7.284	0.000	97	440175	8.00	8.62	
79 Hexachlorobutadiene	225	7.337	7.338	-0.001	96	291805	8.00	8.62	
84 Caprolactam	113	7.598	7.581	0.017	77	158008	8.00	8.42	
85 4-Chloro-3-methylphenol	107	7.699	7.693	0.006	97	427827	8.00	8.62	
87 2-Methylnaphthalene	142	7.859	7.853	0.006	92	959857	8.00	8.55	
89 1-Methylnaphthalene	142	7.948	7.948	0.000	94	991555	8.00	8.69	
90 Hexachlorocyclopentadiene	237	7.995	7.996	-0.001	95	219143	8.00	8.45	
91 1,2,4,5-Tetrachlorobenzene	216	8.007	8.008	-0.001	97	518910	8.00	8.44	
93 2,4,6-Trichlorophenol	196	8.102	8.102	0.000	92	321015	8.00	8.42	
94 2,4,5-Trichlorophenol	196	8.144	8.138	0.006	96	340046	8.00	8.43	M
96 1,1'-Biphenyl	154	8.256	8.256	0.000	96	1271064	8.00	8.34	
97 2-Chloronaphthalene	162	8.292	8.292	0.000	96	1019822	8.00	8.37	
100 2-Nitroaniline	65	8.369	8.363	0.006	86	290671	8.00	8.49	
105 Dimethyl phthalate	163	8.499	8.494	0.005	99	1115216	8.00	8.46	
106 1,3-Dinitrobenzene	168	8.547	8.541	0.006	85	168925	8.00	8.52	
107 2,6-Dinitrotoluene	165	8.564	8.559	0.005	94	263755	8.00	8.57	
108 Acenaphthylene	152	8.659	8.660	-0.001	98	1567151	8.00	8.52	
109 3-Nitroaniline	138	8.725	8.719	0.006	96	267530	8.00	8.46	
110 Acenaphthene	153	8.808	8.808	0.000	94	1022418	8.00	8.30	
111 2,4-Dinitrophenol	184	8.813	8.814	-0.001	83	202787	16.0	15.6	
112 4-Nitrophenol	109	8.855	8.855	0.000	91	228151	16.0	17.2	
114 2,4-Dinitrotoluene	165	8.920	8.914	0.006	95	337929	8.00	8.52	
115 Dibenzofuran	168	8.956	8.950	0.006	97	1398713	8.00	8.39	
118 2,3,4,6-Tetrachlorophenol	232	9.057	9.057	-0.001	72	246030	8.00	8.64	
121 Hexadecane	57	9.080	9.080	0.000	94	710170	8.00	8.58	
120 Diethyl phthalate	149	9.092	9.092	0.000	98	1109709	8.00	8.51	
123 4-Chlorophenyl phenyl ether	204	9.222	9.217	0.005	89	561637	8.00	8.53	
124 Fluorene	166	9.252	9.246	0.006	96	1187855	8.00	8.45	
126 4-Nitroaniline	138	9.258	9.246	0.012	89	284479	8.00	8.50	
127 4,6-Dinitro-2-methylphenol	198	9.282	9.276	0.006	90	332968	16.0	16.1	
129 Diphenylamine	169	9.323	9.318	0.005	94	830154	6.84	7.24	
130 N-Nitrosodiphenylamine	169	9.323	9.318	0.005	63	830154	8.00	8.47	
131 1,2-Diphenylhydrazine	77	9.359	9.359	0.000	41	1079590	8.00	8.28	
132 Azobenzene	77	9.359	9.359	0.000	99	1079590	8.00	8.28	
139 4-Bromophenyl phenyl ether	248	9.643	9.638	0.005	64	343965	8.00	8.60	
140 Hexachlorobenzene	284	9.732	9.732	0.000	95	361589	8.00	8.40	
143 Atrazine	200	9.744	9.738	0.006	93	287727	8.00	8.47	
148 n-Octadecane	57	9.857	9.851	0.006	94	716892	8.00	8.29	
145 Pentachlorophenol	266	9.892	9.893	-0.001	94	321748	16.0	16.2	
151 Phenanthrene	178	10.082	10.076	0.006	98	1592887	8.00	8.14	
152 Anthracene	178	10.129	10.124	0.005	98	1648721	8.00	8.42	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.254	10.254	0.000	96	1444483	8.00	8.30	
157 Di-n-butyl phthalate	149	10.497	10.497	0.000	100	1898271	8.00	8.48	
164 Fluoranthene	202	11.273	11.268	0.005	98	1763574	8.00	8.48	
166 Benzidine	184	11.380	11.374	0.006	99	2275679	16.0	17.4	
167 Pyrene	202	11.540	11.535	0.006	96	1803963	8.00	8.61	
174 Butyl benzyl phthalate	149	12.174	12.169	0.005	97	846735	8.00	8.51	
181 Bis(2-ethylhexyl) phthalate	149	12.832	12.833	-0.001	96	1213598	8.00	8.54	
179 3,3'-Dichlorobenzidine	252	12.874	12.862	0.012	73	1750306	16.0	17.4	
180 Benzo[a]anthracene	228	12.933	12.928	0.005	99	1799591	8.00	8.40	
182 Chrysene	228	12.981	12.975	0.006	97	1626396	8.00	8.31	
184 Di-n-octyl phthalate	149	13.585	13.586	-0.001	99	2015497	8.00	8.40	
186 Benzo[b]fluoranthene	252	14.190	14.184	0.006	98	1953855	8.00	8.73	
187 Benzo[k]fluoranthene	252	14.220	14.214	0.006	99	1811402	8.00	8.07	
189 Benzo[a]pyrene	252	14.599	14.593	0.006	78	1704643	8.00	8.54	
194 Dibenz(a,h)anthracene	278	16.229	16.217	0.012	90	1688159	8.00	8.53	
193 Indeno[1,2,3-cd]pyrene	276	16.235	16.223	0.012	98	2114181	8.00	8.63	
195 Benzo[g,h,i]perylene	276	16.709	16.698	0.011	98	1645181	8.00	8.55	
S 261 Total Cresols	1				0			16.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00647 Amount Added: 1.00 Units: mL

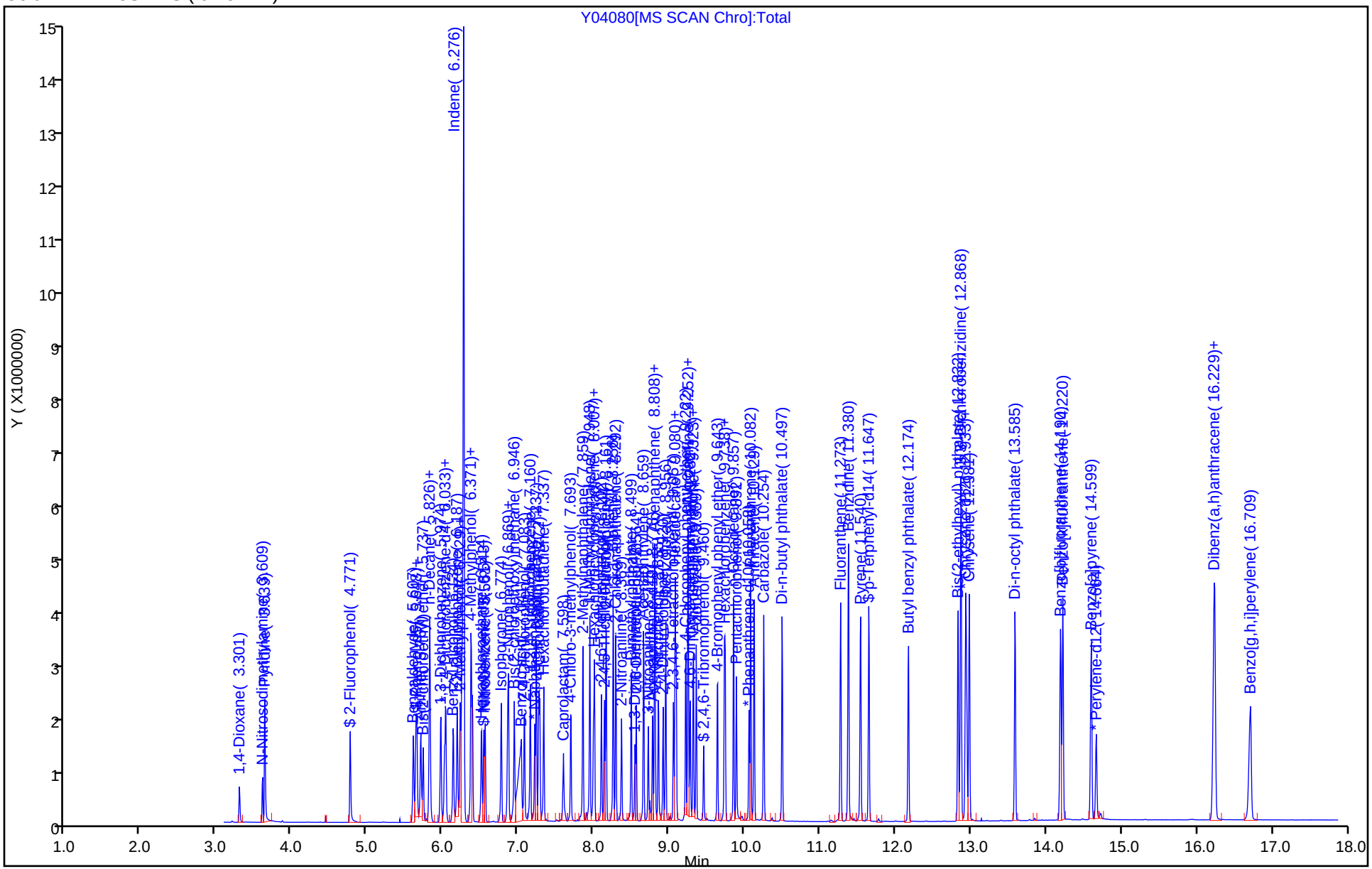
Report Date: 11-Oct-2024 11:32:12 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04080.D

Injection Date:	10-Oct-2024 17:05:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 8			Worklist Smp#:	8
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

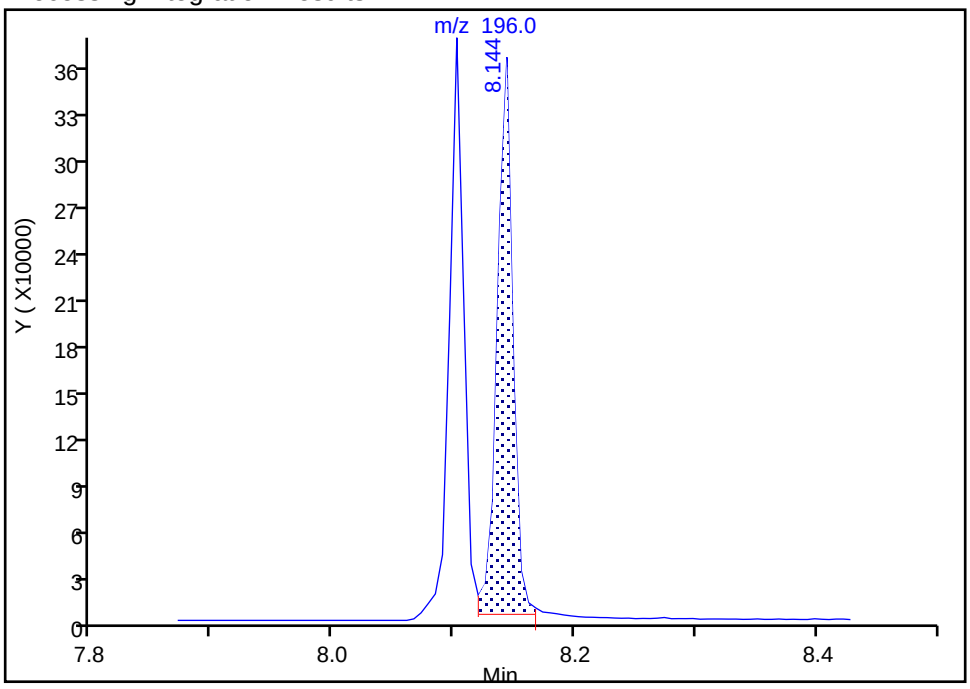
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04080.D
Injection Date: 10-Oct-2024 17:05:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 8
Client ID:
Operator ID: JM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

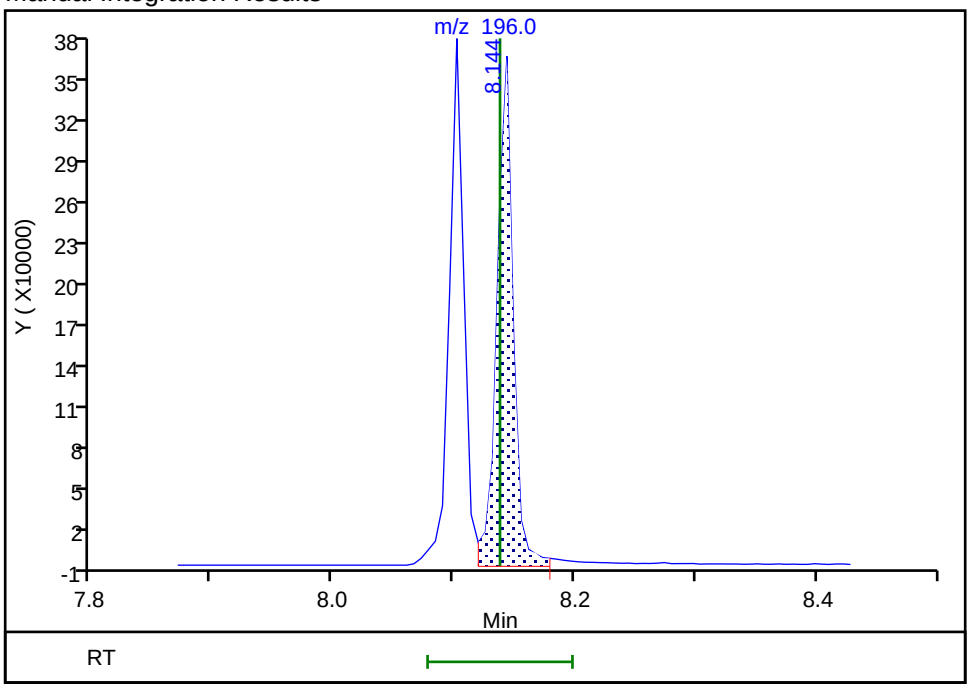
Processing Integration Results

RT: 8.14
Area: 324423
Amount: 8.355701
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 340046
Amount: 8.433232
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:31:37 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04081.D
Lims ID: IC - List 1 - 12
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 10-Oct-2024 17:32:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-009
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:32:28 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:54:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.023	6.022	0.001	94	200209	4.00	4.00	
* 2 Naphthalene-d8	136	7.220	7.219	0.001	99	738627	4.00	4.00	
* 3 Acenaphthene-d10	164	8.779	8.778	0.001	93	433234	4.00	4.00	
* 4 Phenanthrene-d10	188	10.059	10.058	0.001	97	730313	4.00	4.00	
* 5 Chrysene-d12	240	12.952	12.945	0.007	99	646275	4.00	4.00	
* 6 Perylene-d12	264	14.665	14.664	0.001	97	721419	4.00	4.00	
$ 7 2-Fluorophenol	112	4.772	4.771	0.001	93	745825	12.0	12.1	
$ 8 Phenol-d5	99	5.643	5.636	0.007	98	923025	12.0	12.1	
$ 9 Nitrobenzene-d5	82	6.544	6.537	0.007	89	826407	12.0	11.6	
$ 10 2-Fluorobiphenyl	172	8.168	8.162	0.006	99	1780666	12.0	12.0	
$ 11 2,4,6-Tribromophenol	330	9.461	9.454	0.007	94	234535	12.0	12.8	
$ 12 p-Terphenyl-d14	244	11.648	11.647	0.001	97	2151959	12.0	12.3	
13 1,4-Dioxane	88	3.302	3.307	-0.005	98	288589	12.0	11.7	
14 N-Nitrosodimethylamine	42	3.610	3.609	0.001	93	374033	12.0	11.9	
15 Pyridine	52	3.640	3.639	0.001	92	881201	24.0	24.8	
35 Benzaldehyde	77	5.608	5.607	0.001	96	539180	12.0	11.4	
37 Phenol	94	5.655	5.654	0.001	99	952917	12.0	12.3	
36 Aniline	93	5.708	5.702	0.006	95	1157628	12.0	12.2	
39 Bis(2-chloroethyl)ether	93	5.738	5.737	0.001	93	751606	12.0	11.9	
41 n-Decane	57	5.827	5.820	0.007	91	854400	12.0	11.5	
40 2-Chlorophenol	128	5.827	5.826	0.001	97	767543	12.0	11.9	
43 1,3-Dichlorobenzene	146	5.975	5.968	0.007	98	894753	12.0	11.7	
44 1,4-Dichlorobenzene	146	6.040	6.034	0.006	94	933023	12.0	11.9	
45 Benzyl alcohol	108	6.141	6.134	0.007	93	514426	12.0	12.3	
46 1,2-Dichlorobenzene	146	6.189	6.188	0.001	98	884432	12.0	12.0	
48 2-Methylphenol	108	6.230	6.229	0.001	92	709102	12.0	12.1	
49 2,2'-oxybis[1-chloropropane]	45	6.248	6.247	0.001	94	1146472	12.0	11.7	
47 Indene	115	6.278	6.271	0.007	89	7677773	72.0	68.8	
57 4-Methylphenol	108	6.372	6.366	0.006	95	759028	12.0	12.4	
53 N-Nitrosodi-n-propylamine	70	6.378	6.371	0.007	91	530861	12.0	12.0	
52 Acetophenone	105	6.396	6.389	0.007	96	1004965	12.0	11.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.509	6.508	0.001	98	362568	12.0	12.2	
59 Nitrobenzene	77	6.562	6.555	0.007	87	830391	12.0	12.1	
62 Isophorone	82	6.775	6.769	0.006	99	1438481	12.0	11.8	
64 2-Nitrophenol	139	6.858	6.858	0.000	95	419172	12.0	12.0	
66 2,4-Dimethylphenol	107	6.870	6.869	0.001	94	772241	12.0	12.0	
69 Bis(2-chloroethoxy)methane	93	6.947	6.946	0.001	98	872899	12.0	11.7	
70 Benzoic acid	105	7.072	6.994	0.078	94	2286859	72.0	70.2	
72 2,4-Dichlorophenol	162	7.084	7.077	0.007	93	664033	12.0	11.8	
73 1,2,4-Trichlorobenzene	180	7.161	7.160	0.001	93	748247	12.0	12.0	
74 Naphthalene	128	7.238	7.237	0.001	98	2297512	12.0	11.8	
76 4-Chloroaniline	127	7.273	7.267	0.006	96	876079	12.0	11.7	
77 2,6-Dichlorophenol	162	7.285	7.284	0.001	98	661450	12.0	12.1	
79 Hexachlorobutadiene	225	7.339	7.338	0.001	96	428760	12.0	11.8	
84 Caprolactam	113	7.611	7.581	0.030	78	233241	12.0	11.6	
85 4-Chloro-3-methylphenol	107	7.700	7.693	0.007	94	619791	12.0	11.6	
87 2-Methylnaphthalene	142	7.860	7.853	0.007	92	1418012	12.0	11.8	
89 1-Methylnaphthalene	142	7.949	7.948	0.001	93	1448641	12.0	11.8	
90 Hexachlorocyclopentadiene	237	7.997	7.996	0.001	95	347952	12.0	12.7	
91 1,2,4,5-Tetrachlorobenzene	216	8.008	8.008	0.000	97	771203	12.0	12.0	
93 2,4,6-Trichlorophenol	196	8.103	8.102	0.001	92	487345	12.0	12.2	
94 2,4,5-Trichlorophenol	196	8.145	8.138	0.007	96	507905	12.0	12.0	M
96 1,1'-Biphenyl	154	8.257	8.256	0.001	96	1881341	12.0	11.8	
97 2-Chloronaphthalene	162	8.293	8.292	0.001	96	1509925	12.0	11.9	
100 2-Nitroaniline	65	8.370	8.363	0.007	88	424380	12.0	11.8	
105 Dimethyl phthalate	163	8.500	8.494	0.006	99	1652345	12.0	12.0	
106 1,3-Dinitrobenzene	168	8.554	8.541	0.013	89	264071	12.0	12.3	
107 2,6-Dinitrotoluene	165	8.566	8.559	0.007	95	375772	12.0	11.7	
108 Acenaphthylene	152	8.660	8.660	0.000	98	2275315	12.0	11.9	
109 3-Nitroaniline	138	8.726	8.719	0.007	96	402145	12.0	12.1	
110 Acenaphthene	153	8.809	8.808	0.001	95	1517015	12.0	11.8	
111 2,4-Dinitrophenol	184	8.821	8.814	0.006	89	342942	24.0	24.1	
112 4-Nitrophenol	109	8.862	8.855	0.007	91	344509	24.0	24.6	
114 2,4-Dinitrotoluene	165	8.921	8.914	0.007	96	501498	12.0	12.1	
115 Dibenzofuran	168	8.957	8.950	0.007	97	2012503	12.0	11.6	
118 2,3,4,6-Tetrachlorophenol	232	9.058	9.057	0.001	72	378188	12.0	12.6	
121 Hexadecane	57	9.081	9.080	0.001	95	1009942	12.0	11.7	
120 Diethyl phthalate	149	9.099	9.092	0.007	99	1589042	12.0	11.7	
123 4-Chlorophenyl phenyl ether	204	9.224	9.217	0.007	90	793024	12.0	11.6	
124 Fluorene	166	9.253	9.246	0.007	93	1623432	12.0	11.1	
126 4-Nitroaniline	138	9.259	9.246	0.013	88	414193	12.0	11.8	
127 4,6-Dinitro-2-methylphenol	198	9.283	9.276	0.007	87	508159	24.0	23.4	
129 Diphenylamine	169	9.324	9.318	0.006	94	1227935	10.3	10.4	
130 N-Nitrosodiphenylamine	169	9.324	9.318	0.006	63	1227935	12.0	12.2	
131 1,2-Diphenylhydrazine	77	9.360	9.359	0.001	41	1570713	12.0	11.7	
132 Azobenzene	77	9.360	9.359	0.001	99	1570713	12.0	11.7	
139 4-Bromophenyl phenyl ether	248	9.644	9.638	0.006	64	498403	12.0	12.1	
140 Hexachlorobenzene	284	9.733	9.732	0.001	95	546809	12.0	12.3	
143 Atrazine	200	9.745	9.738	0.007	94	429829	12.0	12.2	
148 n-Octadecane	57	9.852	9.851	0.001	94	1034353	12.0	11.6	
145 Pentachlorophenol	266	9.893	9.893	0.000	94	523056	24.0	24.9	
151 Phenanthrene	178	10.083	10.076	0.007	98	2351609	12.0	11.6	
152 Anthracene	178	10.131	10.124	0.007	98	2400927	12.0	11.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.255	10.254	0.001	96	2134181	12.0	11.9	
157 Di-n-butyl phthalate	149	10.498	10.497	0.001	100	2761074	12.0	12.0	
164 Fluoranthene	202	11.275	11.268	0.007	98	2612265	12.0	12.2	
166 Benzidine	184	11.381	11.374	0.007	99	3412982	24.0	25.2	
167 Pyrene	202	11.541	11.535	0.007	96	2606366	12.0	12.0	
174 Butyl benzyl phthalate	149	12.176	12.169	0.007	96	1276414	12.0	12.4	
181 Bis(2-ethylhexyl) phthalate	149	12.834	12.833	0.001	96	1782979	12.0	12.1	
179 3,3'-Dichlorobenzidine	252	12.875	12.862	0.013	73	2567015	24.0	24.6	
180 Benzo[a]anthracene	228	12.940	12.928	0.012	99	2667730	12.0	12.1	
182 Chrysene	228	12.982	12.975	0.007	97	2456054	12.0	12.1	
184 Di-n-octyl phthalate	149	13.586	13.586	0.000	99	3003021	12.0	12.1	
186 Benzo[b]fluoranthene	252	14.197	14.184	0.013	98	2717115	12.0	11.8	
187 Benzo[k]fluoranthene	252	14.227	14.214	0.013	99	2809276	12.0	12.1	
189 Benzo[a]pyrene	252	14.600	14.593	0.007	78	2502727	12.0	12.2	
194 Dibenz(a,h)anthracene	278	16.242	16.217	0.025	91	2471417	12.0	12.1	
193 Indeno[1,2,3-cd]pyrene	276	16.248	16.223	0.025	97	3071505	12.0	12.2	
195 Benzo[g,h,i]perylene	276	16.716	16.698	0.018	97	2345761	12.0	11.8	
S 261 Total Cresols	1				0			24.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00648 Amount Added: 1.00 Units: mL

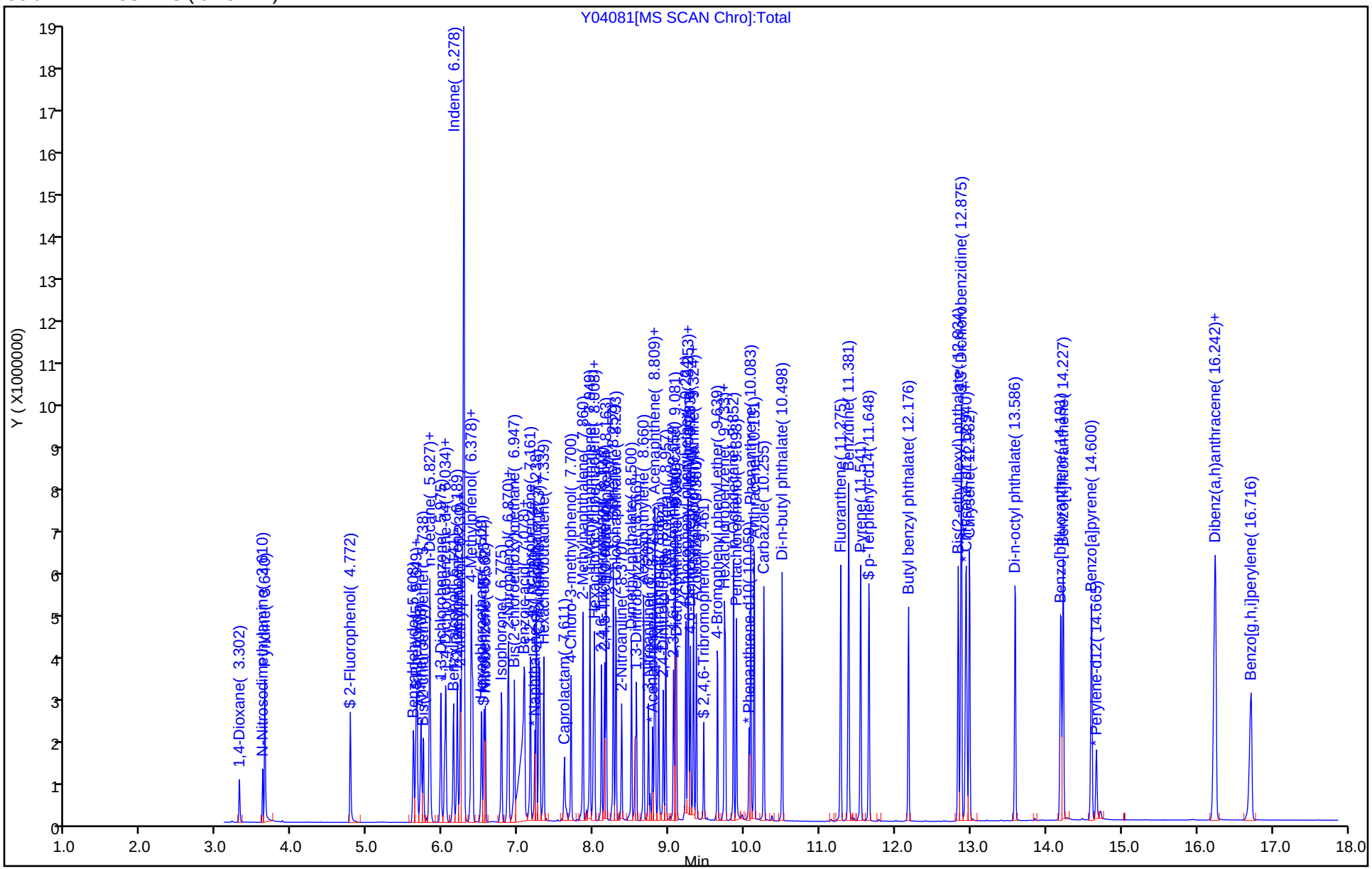
Report Date: 11-Oct-2024 11:32:30 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04081.D

Injection Date:	10-Oct-2024 17:32:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 12			Worklist Smp#:	9
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo

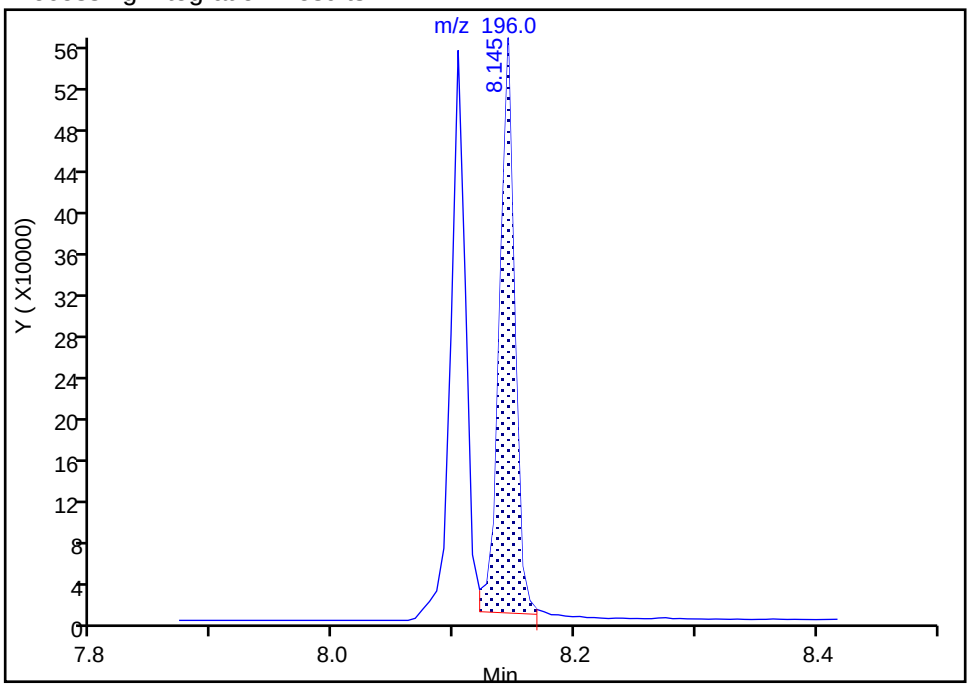
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04081.D
Injection Date: 10-Oct-2024 17:32:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 12
Client ID:
Operator ID: JM ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

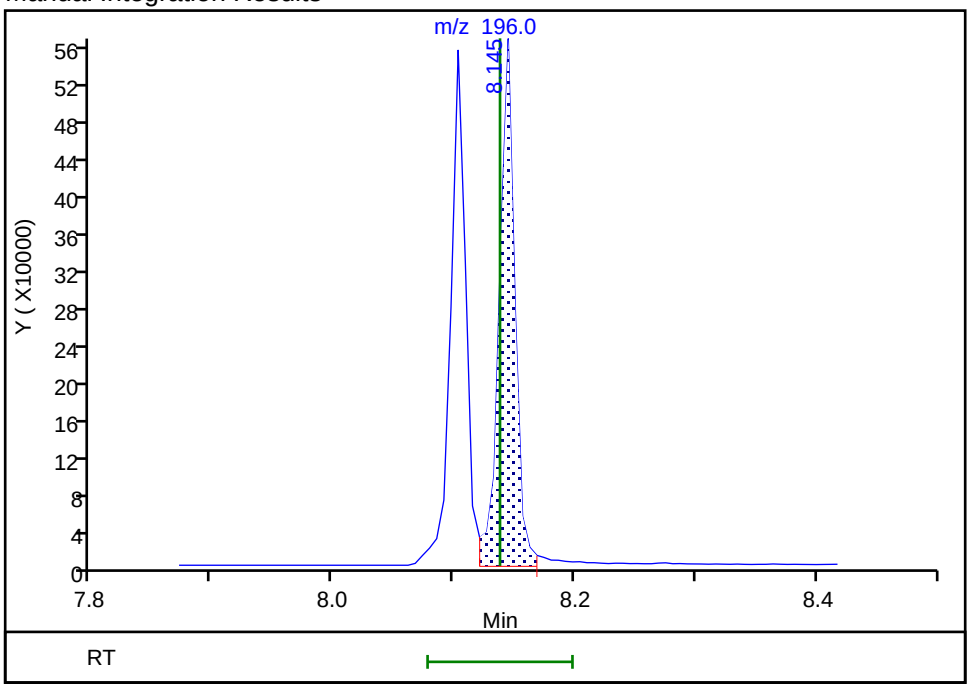
Processing Integration Results

RT: 8.14
Area: 487864
Amount: 11.868147
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 507905
Amount: 12.016182
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:32:44 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04082.D
Lims ID: IC - List 1 - 16
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 10-Oct-2024 18:00:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-010
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:32:46 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:54:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.021	6.022	-0.001	94	204789	4.00	4.00	
* 2 Naphthalene-d8	136	7.219	7.219	0.000	99	735514	4.00	4.00	
* 3 Acenaphthene-d10	164	8.784	8.778	0.006	93	438004	4.00	4.00	
* 4 Phenanthrene-d10	188	10.064	10.058	0.006	97	738805	4.00	4.00	
* 5 Chrysene-d12	240	12.951	12.945	0.006	99	685110	4.00	4.00	
* 6 Perylene-d12	264	14.670	14.664	0.006	97	756124	4.00	4.00	
$ 7 2-Fluorophenol	112	4.771	4.771	0.000	92	1027546	16.0	16.3	
$ 8 Phenol-d5	99	5.648	5.636	0.012	96	1243307	16.0	15.9	
$ 9 Nitrobenzene-d5	82	6.549	6.537	0.012	89	1108589	16.0	15.6	
$ 10 2-Fluorobiphenyl	172	8.167	8.162	0.005	99	2328409	16.0	15.5	
$ 11 2,4,6-Tribromophenol	330	9.465	9.454	0.011	94	307553	16.0	16.5	
$ 12 p-Terphenyl-d14	244	11.653	11.647	0.006	97	2886973	16.0	15.5	
13 1,4-Dioxane	88	3.301	3.307	-0.006	98	388563	16.0	15.3	
14 N-Nitrosodimethylamine	42	3.615	3.609	0.006	93	488368	16.0	15.2	
15 Pyridine	52	3.638	3.639	-0.001	92	1206662	32.0	33.2	
35 Benzaldehyde	77	5.612	5.607	0.005	96	668047	16.0	13.8	
37 Phenol	94	5.660	5.654	0.006	99	1253502	16.0	15.8	
36 Aniline	93	5.713	5.702	0.011	96	1582175	16.0	16.4	
39 Bis(2-chloroethyl)ether	93	5.743	5.737	0.006	95	953587	16.0	14.8	
41 n-Decane	57	5.826	5.820	0.006	92	1129545	16.0	14.8	
40 2-Chlorophenol	128	5.832	5.826	0.006	97	1049409	16.0	15.9	
43 1,3-Dichlorobenzene	146	5.974	5.968	0.006	99	1201589	16.0	15.4	
44 1,4-Dichlorobenzene	146	6.039	6.034	0.005	95	1246313	16.0	15.6	
45 Benzyl alcohol	108	6.146	6.134	0.012	93	685189	16.0	16.0	
46 1,2-Dichlorobenzene	146	6.193	6.188	0.005	98	1175134	16.0	15.6	
48 2-Methylphenol	108	6.235	6.229	0.006	92	940390	16.0	15.6	
49 2,2'-oxybis[1-chloropropane]	45	6.253	6.247	0.006	94	1513324	16.0	15.2	
47 Indene	115	6.282	6.271	0.011	89	9516331	96.0	83.4	
57 4-Methylphenol	108	6.377	6.366	0.011	96	985877	16.0	15.8	
53 N-Nitrosodi-n-propylamine	70	6.383	6.371	0.012	92	705482	16.0	15.6	
52 Acetophenone	105	6.395	6.389	0.006	96	1384078	16.0	15.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.513	6.508	0.005	94	476051	16.0	15.6	
59 Nitrobenzene	77	6.567	6.555	0.012	87	1093846	16.0	16.0	
62 Isophorone	82	6.780	6.769	0.011	99	1928267	16.0	15.9	
64 2-Nitrophenol	139	6.863	6.858	0.005	93	564513	16.0	16.2	
66 2,4-Dimethylphenol	107	6.875	6.869	0.006	95	1032776	16.0	16.1	
69 Bis(2-chloroethoxy)methane	93	6.952	6.946	0.006	99	1167515	16.0	15.8	
70 Benzoic acid	105	7.094	6.994	0.100	89	3413031	96.0	102.1	M
72 2,4-Dichlorophenol	162	7.082	7.077	0.005	93	895773	16.0	16.0	
73 1,2,4-Trichlorobenzene	180	7.160	7.160	0.000	94	999125	16.0	16.0	
74 Naphthalene	128	7.242	7.237	0.005	98	3020076	16.0	15.5	
76 4-Chloroaniline	127	7.272	7.267	0.005	97	1194831	16.0	16.1	
77 2,6-Dichlorophenol	162	7.290	7.284	0.006	98	891154	16.0	16.3	
79 Hexachlorobutadiene	225	7.337	7.338	-0.001	96	586725	16.0	16.2	
84 Caprolactam	113	7.622	7.581	0.041	79	331924	16.0	16.5	
85 4-Chloro-3-methylphenol	107	7.705	7.693	0.012	95	842075	16.0	15.8	
87 2-Methylnaphthalene	142	7.859	7.853	0.006	93	1868985	16.0	15.6	
89 1-Methylnaphthalene	142	7.948	7.948	0.000	93	1935880	16.0	15.9	
90 Hexachlorocyclopentadiene	237	8.001	7.996	0.005	95	474237	16.0	17.0	
91 1,2,4,5-Tetrachlorobenzene	216	8.013	8.008	0.005	97	1024995	16.0	15.8	
93 2,4,6-Trichlorophenol	196	8.108	8.102	0.006	92	656205	16.0	16.2	
94 2,4,5-Trichlorophenol	196	8.144	8.138	0.005	96	719151	16.0	16.8	M
96 1,1'-Biphenyl	154	8.262	8.256	0.006	96	2481826	16.0	15.4	
97 2-Chloronaphthalene	162	8.298	8.292	0.006	96	1993918	16.0	15.5	
100 2-Nitroaniline	65	8.375	8.363	0.012	86	581740	16.0	16.0	
105 Dimethyl phthalate	163	8.505	8.494	0.011	99	2205033	16.0	15.9	
106 1,3-Dinitrobenzene	168	8.553	8.541	0.012	87	363298	16.0	16.9	
107 2,6-Dinitrotoluene	165	8.570	8.559	0.011	95	502500	16.0	15.4	
108 Acenaphthylene	152	8.665	8.660	0.005	98	3036756	16.0	15.7	
109 3-Nitroaniline	138	8.730	8.719	0.011	96	537274	16.0	16.0	
110 Acenaphthene	153	8.813	8.808	0.005	94	2070750	16.0	15.9	
111 2,4-Dinitrophenol	184	8.819	8.814	0.005	84	494994	32.0	33.6	
112 4-Nitrophenol	109	8.867	8.855	0.012	89	476464	32.0	33.5	
114 2,4-Dinitrotoluene	165	8.926	8.914	0.012	96	681937	16.0	16.2	
115 Dibenzofuran	168	8.962	8.950	0.012	97	2737154	16.0	15.6	
118 2,3,4,6-Tetrachlorophenol	232	9.062	9.057	0.005	75	500871	16.0	16.5	
121 Hexadecane	57	9.080	9.080	0.000	94	1274228	16.0	14.6	
120 Diethyl phthalate	149	9.098	9.092	0.006	98	2150344	16.0	15.6	
123 4-Chlorophenyl phenyl ether	204	9.222	9.217	0.005	92	1067901	16.0	15.4	
124 Fluorene	166	9.252	9.246	0.006	94	2306864	16.0	15.6	
126 4-Nitroaniline	138	9.270	9.246	0.024	87	565231	16.0	15.9	
127 4,6-Dinitro-2-methylphenol	198	9.288	9.276	0.012	88	747273	32.0	33.6	
129 Diphenylamine	169	9.323	9.318	0.005	94	1649635	13.7	13.8	
130 N-Nitrosodiphenylamine	169	9.323	9.318	0.005	62	1649635	16.0	16.1	
131 1,2-Diphenylhydrazine	77	9.365	9.359	0.006	44	2065244	16.0	15.2	
132 Azobenzene	77	9.365	9.359	0.006	98	2065244	16.0	15.2	
139 4-Bromophenyl phenyl ether	248	9.643	9.638	0.005	65	668810	16.0	16.0	
140 Hexachlorobenzene	284	9.738	9.732	0.006	95	702964	16.0	15.7	
143 Atrazine	200	9.750	9.738	0.012	94	511017	16.0	14.3	
148 n-Octadecane	57	9.857	9.851	0.006	94	1364719	16.0	15.1	
145 Pentachlorophenol	266	9.898	9.893	0.005	94	706536	32.0	32.8	
151 Phenanthrene	178	10.082	10.076	0.006	98	3192350	16.0	15.6	
152 Anthracene	178	10.129	10.124	0.005	98	3260039	16.0	16.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.260	10.254	0.006	96	2844523	16.0	15.7	
157 Di-n-butyl phthalate	149	10.503	10.497	0.006	100	3616808	16.0	15.5	
164 Fluoranthene	202	11.279	11.268	0.011	99	3379959	16.0	15.6	
166 Benzidine	184	11.386	11.374	0.012	99	4372822	32.0	30.5	
167 Pyrene	202	11.540	11.535	0.006	96	3507640	16.0	15.3	
174 Butyl benzyl phthalate	149	12.174	12.169	0.005	97	1680744	16.0	15.4	
181 Bis(2-ethylhexyl) phthalate	149	12.838	12.833	0.005	97	2333006	16.0	14.9	
179 3,3'-Dichlorobenzidine	252	12.880	12.862	0.018	73	3403584	32.0	30.8	
180 Benzo[a]anthracene	228	12.939	12.928	0.011	99	3586318	16.0	15.3	
182 Chrysene	228	12.986	12.975	0.011	97	3252458	16.0	15.2	
184 Di-n-octyl phthalate	149	13.591	13.586	0.005	99	4012444	16.0	15.2	
186 Benzo[b]fluoranthene	252	14.196	14.184	0.012	98	3860199	16.0	16.0	
187 Benzo[k]fluoranthene	252	14.231	14.214	0.017	98	3624460	16.0	15.0	
189 Benzo[a]pyrene	252	14.605	14.593	0.012	79	3343506	16.0	15.5	
194 Dibenz(a,h)anthracene	278	16.247	16.217	0.030	91	3303319	16.0	15.4	
193 Indeno[1,2,3-cd]pyrene	276	16.259	16.223	0.036	98	4026912	16.0	15.2	
195 Benzo[g,h,i]perylene	276	16.727	16.698	0.029	96	3135261	16.0	15.1	
S 261 Total Cresols	1				0			31.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00649 Amount Added: 1.00 Units: mL

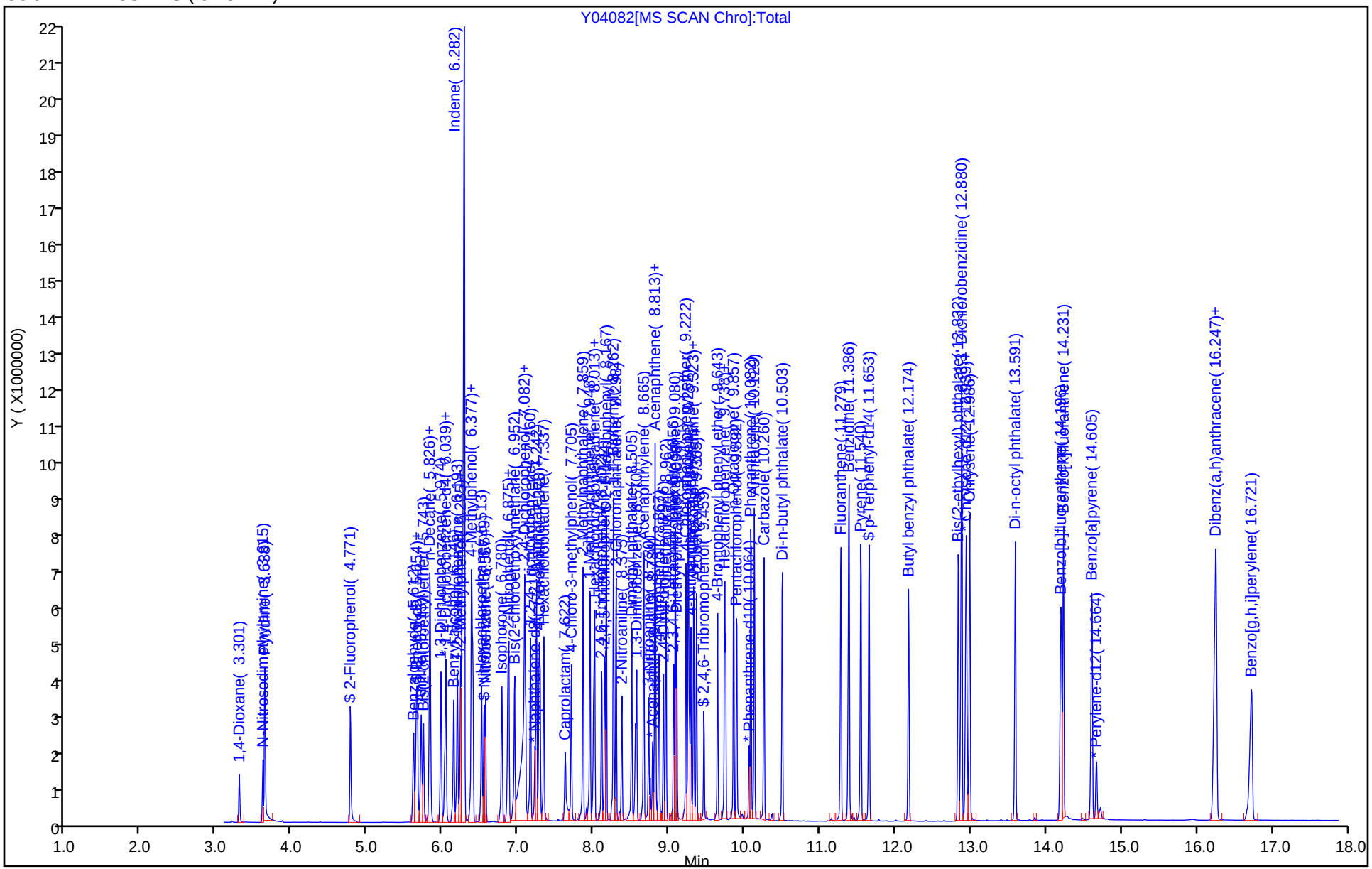
Report Date: 11-Oct-2024 11:32:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04082.D

Injection Date:	10-Oct-2024 18:00:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	IC - List 1 - 16			Worklist Smp#:	10
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

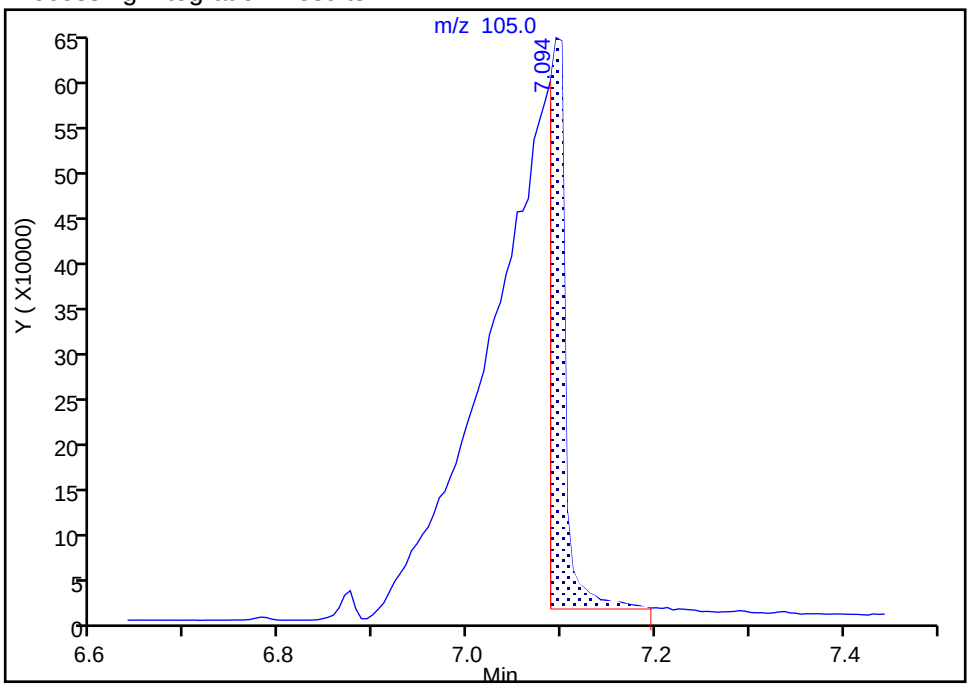
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04082.D
Injection Date: 10-Oct-2024 18:00:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16
Client ID:
Operator ID: JM ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

70 Benzoic acid, CAS: 65-85-0

Signal: 1

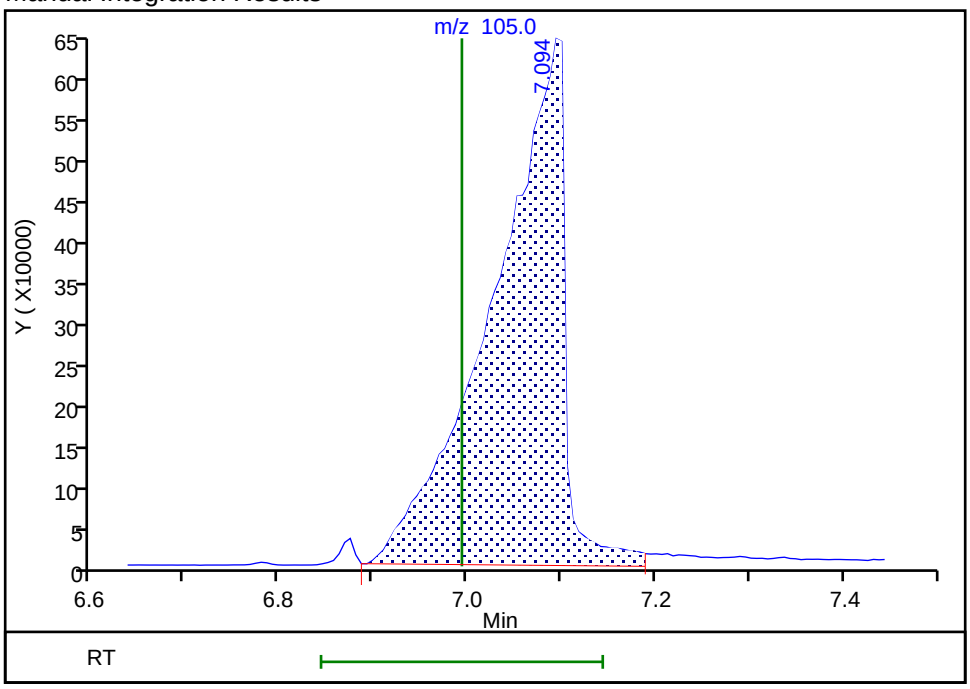
Processing Integration Results

RT: 7.09
Area: 749262
Amount: 37.740466
Amount Units: ng/uL



Manual Integration Results

RT: 7.09
Area: 3413031
Amount: 102.0651
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:33:36 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Buffalo

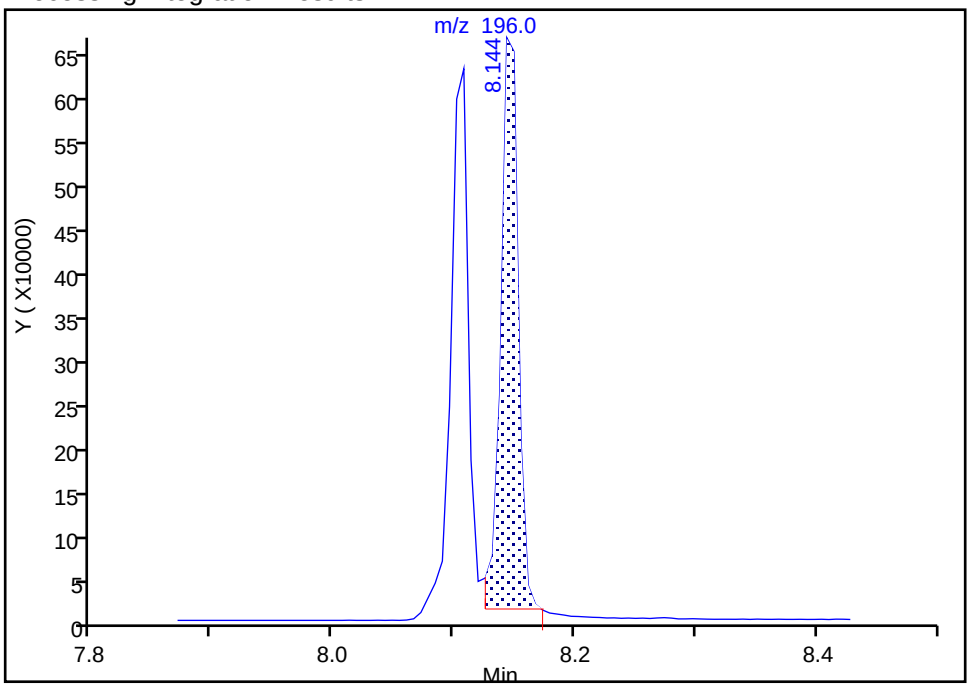
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04082.D
Injection Date: 10-Oct-2024 18:00:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16
Client ID:
Operator ID: JM ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

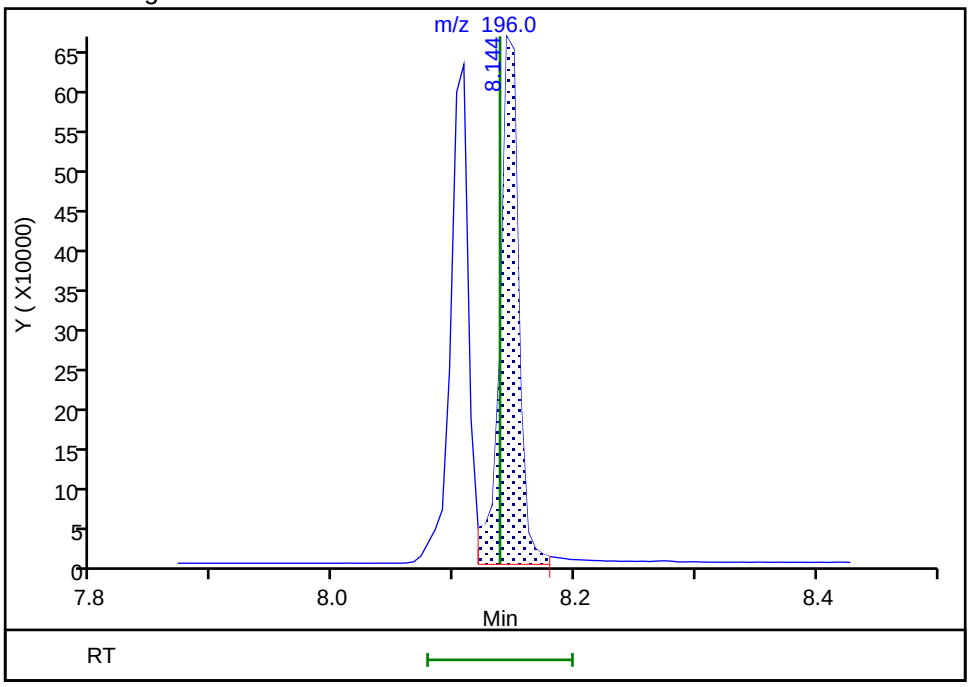
Processing Integration Results

RT: 8.14
Area: 662973
Amount: 15.765654
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 719151
Amount: 16.771223
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:33:52 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

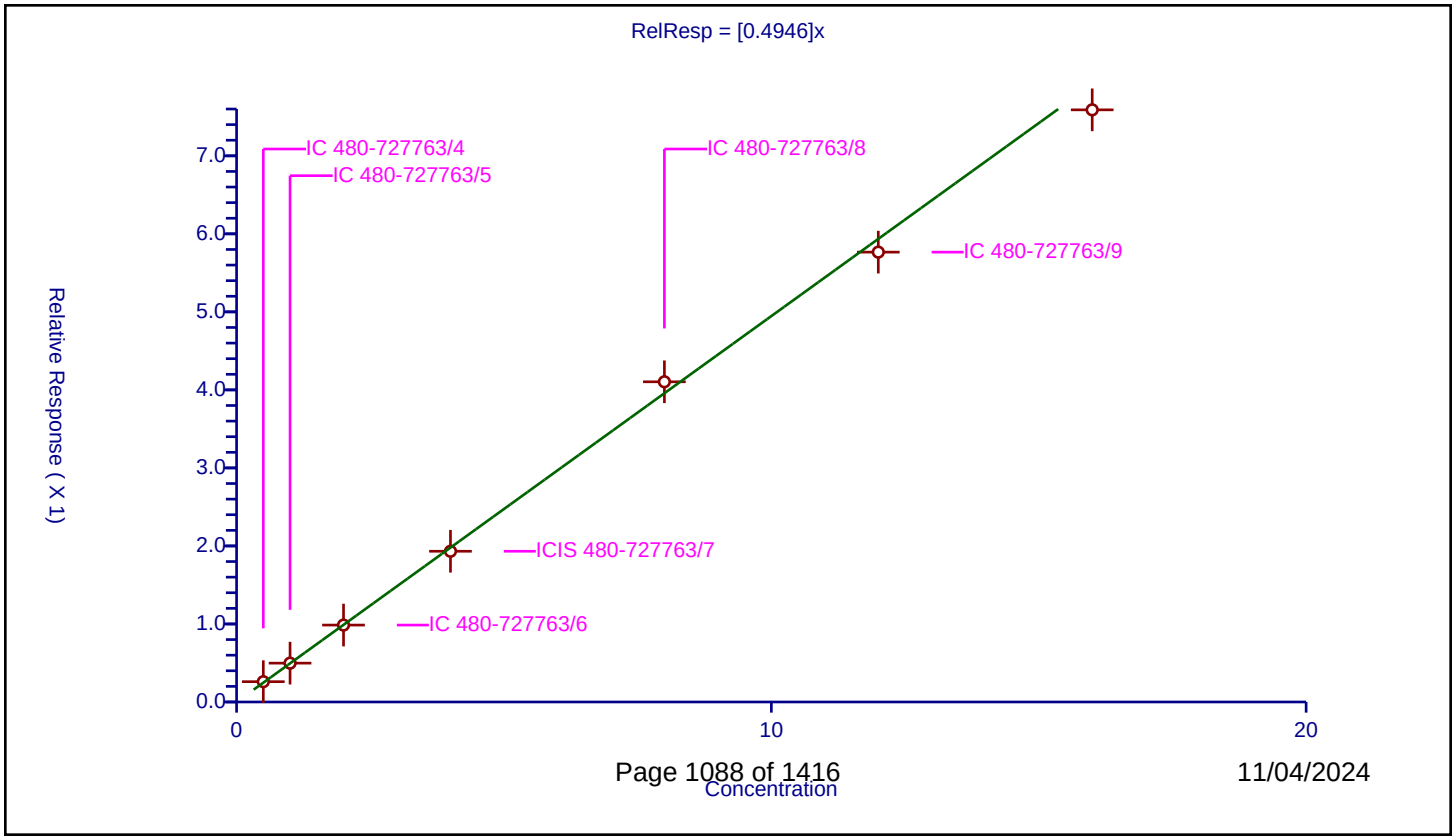
Curve Coefficients

Intercept:	0
Slope:	0.4946

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.260358	4.0	198081.0	0.520716	Y
2	IC 480-727763/5	1.0	0.497766	4.0	205880.0	0.497766	Y
3	IC 480-727763/6	2.0	0.985891	4.0	204331.0	0.492945	Y
4	ICIS 480-727763/7	4.0	1.931817	4.0	213896.0	0.482954	Y
5	IC 480-727763/8	8.0	4.103992	4.0	196285.0	0.512999	Y
6	IC 480-727763/9	12.0	5.765755	4.0	200209.0	0.48048	Y
7	IC 480-727763/10	16.0	7.589529	4.0	204789.0	0.474346	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

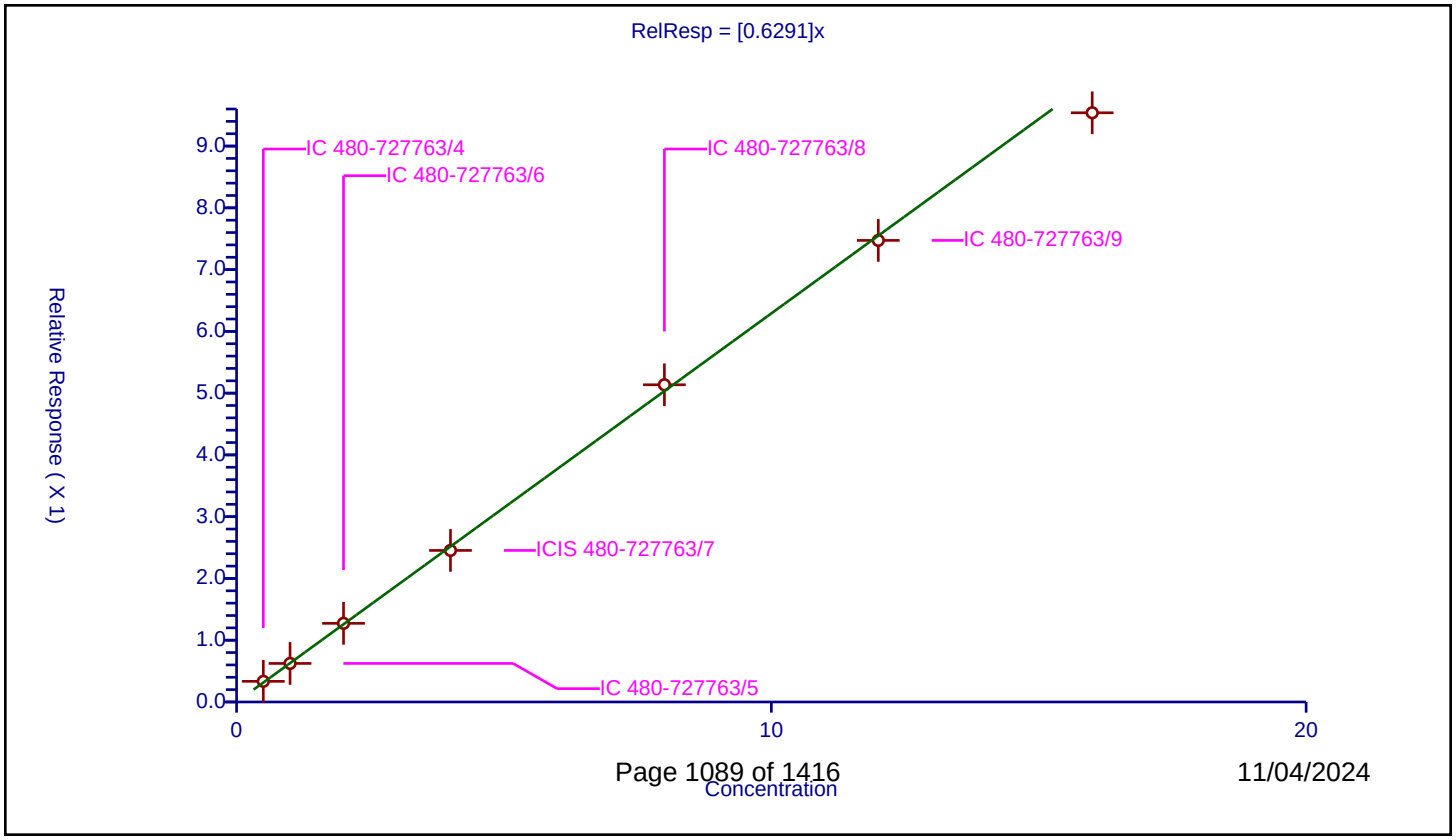
Curve Coefficients

Intercept:	0
Slope:	0.6291

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.334187	4.0	198081.0	0.668373	Y
2	IC 480-727763/5	1.0	0.624267	4.0	205880.0	0.624267	Y
3	IC 480-727763/6	2.0	1.273541	4.0	204331.0	0.636771	Y
4	ICIS 480-727763/7	4.0	2.453753	4.0	213896.0	0.613438	Y
5	IC 480-727763/8	8.0	5.13539	4.0	196285.0	0.641924	Y
6	IC 480-727763/9	12.0	7.472851	4.0	200209.0	0.622738	Y
7	IC 480-727763/10	16.0	9.53895	4.0	204789.0	0.596184	Y



Calibration / Pyridine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

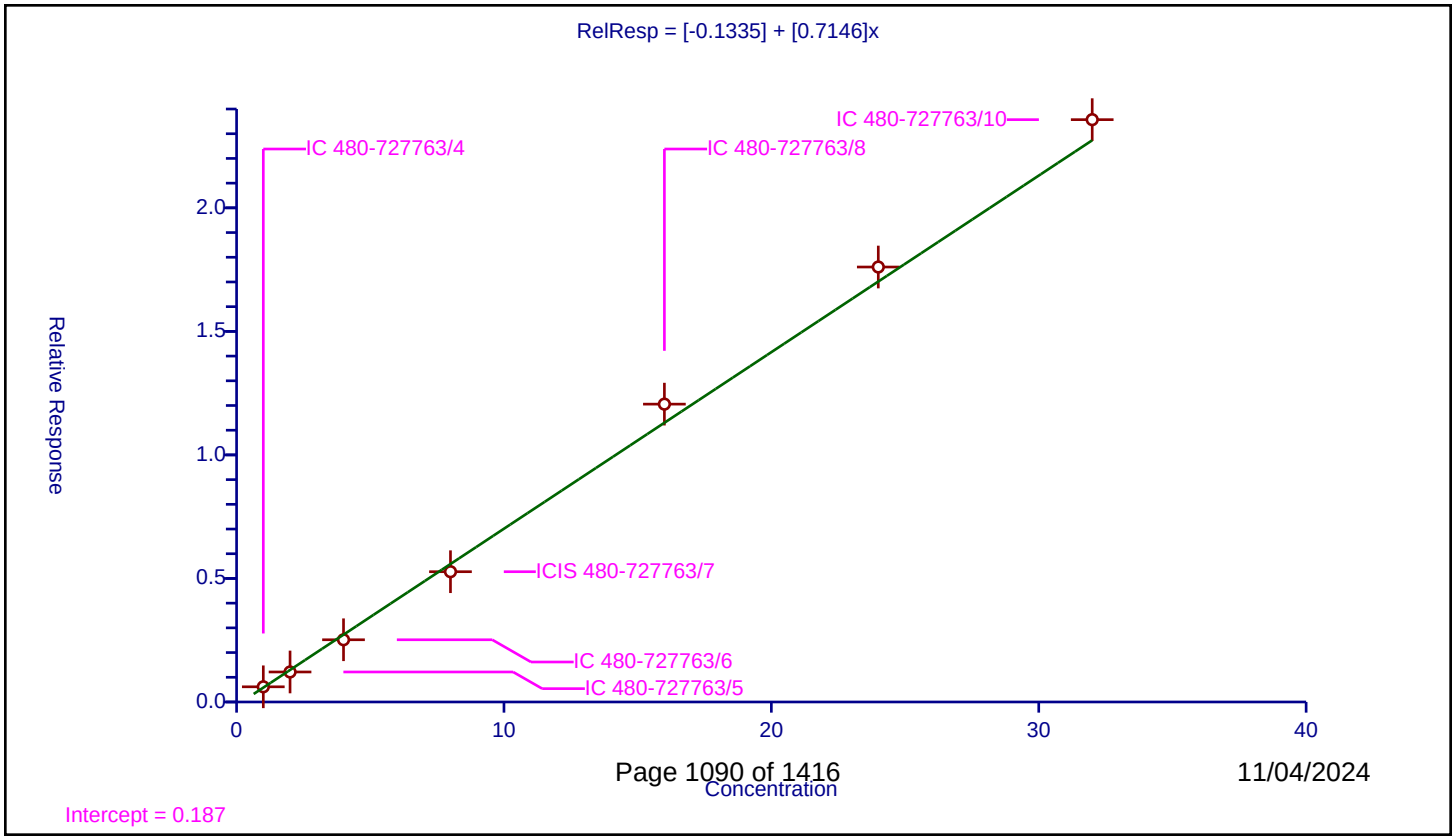
Curve Coefficients

Intercept:	-0.1335
Slope:	0.7146

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.614415	4.0	198081.0	0.614415	Y
2	IC 480-727763/5	2.0	1.2143	4.0	205880.0	0.60715	Y
3	IC 480-727763/6	4.0	2.518561	4.0	204331.0	0.62964	Y
4	ICIS 480-727763/7	8.0	5.272992	4.0	213896.0	0.659124	Y
5	IC 480-727763/8	16.0	12.05545	4.0	196285.0	0.753466	Y
6	IC 480-727763/9	24.0	17.605622	4.0	200209.0	0.733568	Y
7	IC 480-727763/10	32.0	23.568883	4.0	204789.0	0.736528	Y



11/04/2024

Calibration / 2-Fluorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

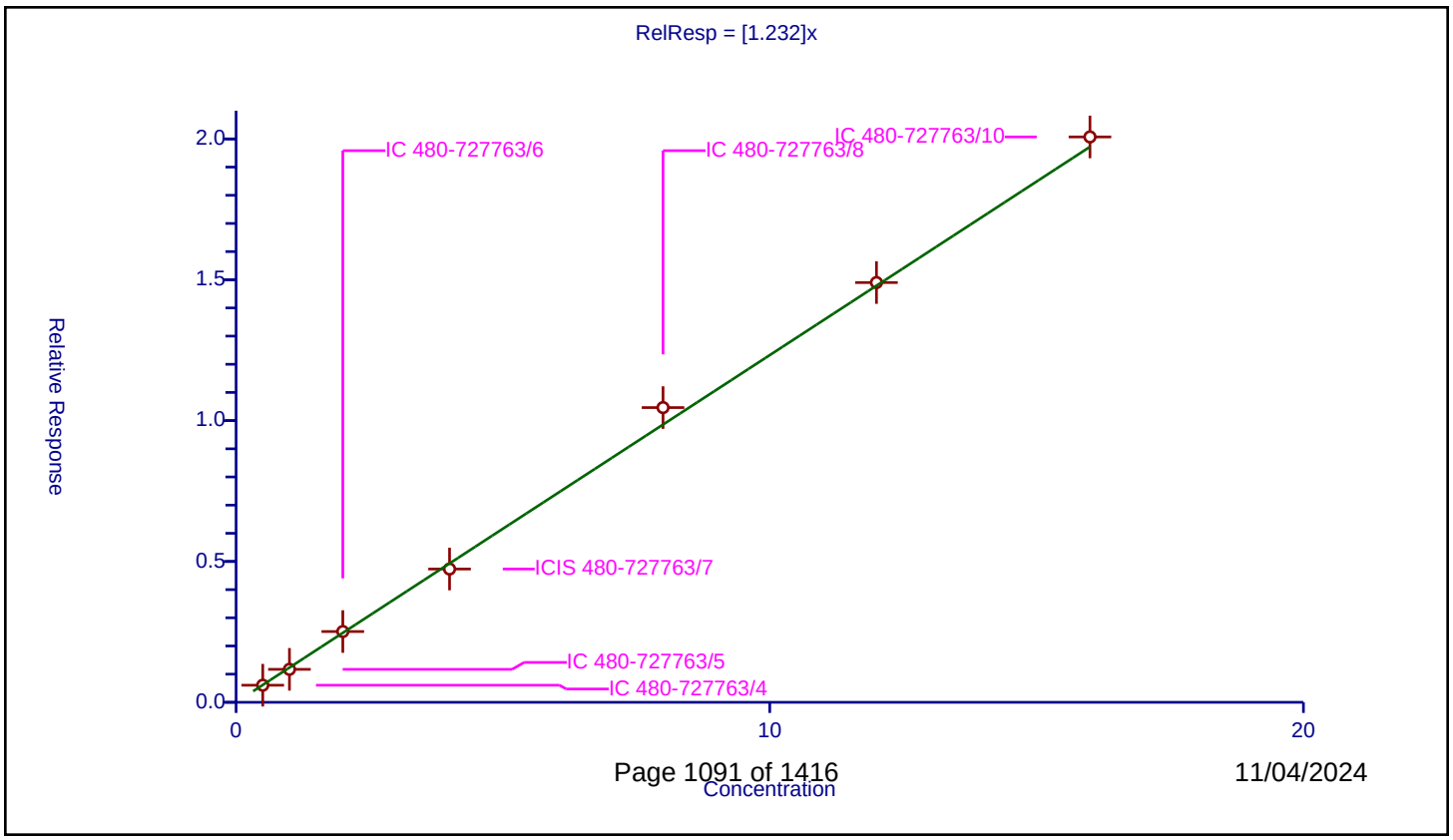
Curve Coefficients

Intercept:	0
Slope:	1.232

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.606984	4.0	198081.0	1.213968	Y
2	IC 480-727763/5	1.0	1.170352	4.0	205880.0	1.170352	Y
3	IC 480-727763/6	2.0	2.512159	4.0	204331.0	1.25608	Y
4	ICIS 480-727763/7	4.0	4.731608	4.0	213896.0	1.182902	Y
5	IC 480-727763/8	8.0	10.462318	4.0	196285.0	1.30779	Y
6	IC 480-727763/9	12.0	14.900929	4.0	200209.0	1.241744	Y
7	IC 480-727763/10	16.0	20.070336	4.0	204789.0	1.254396	Y



Calibration / Benzaldehyde

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

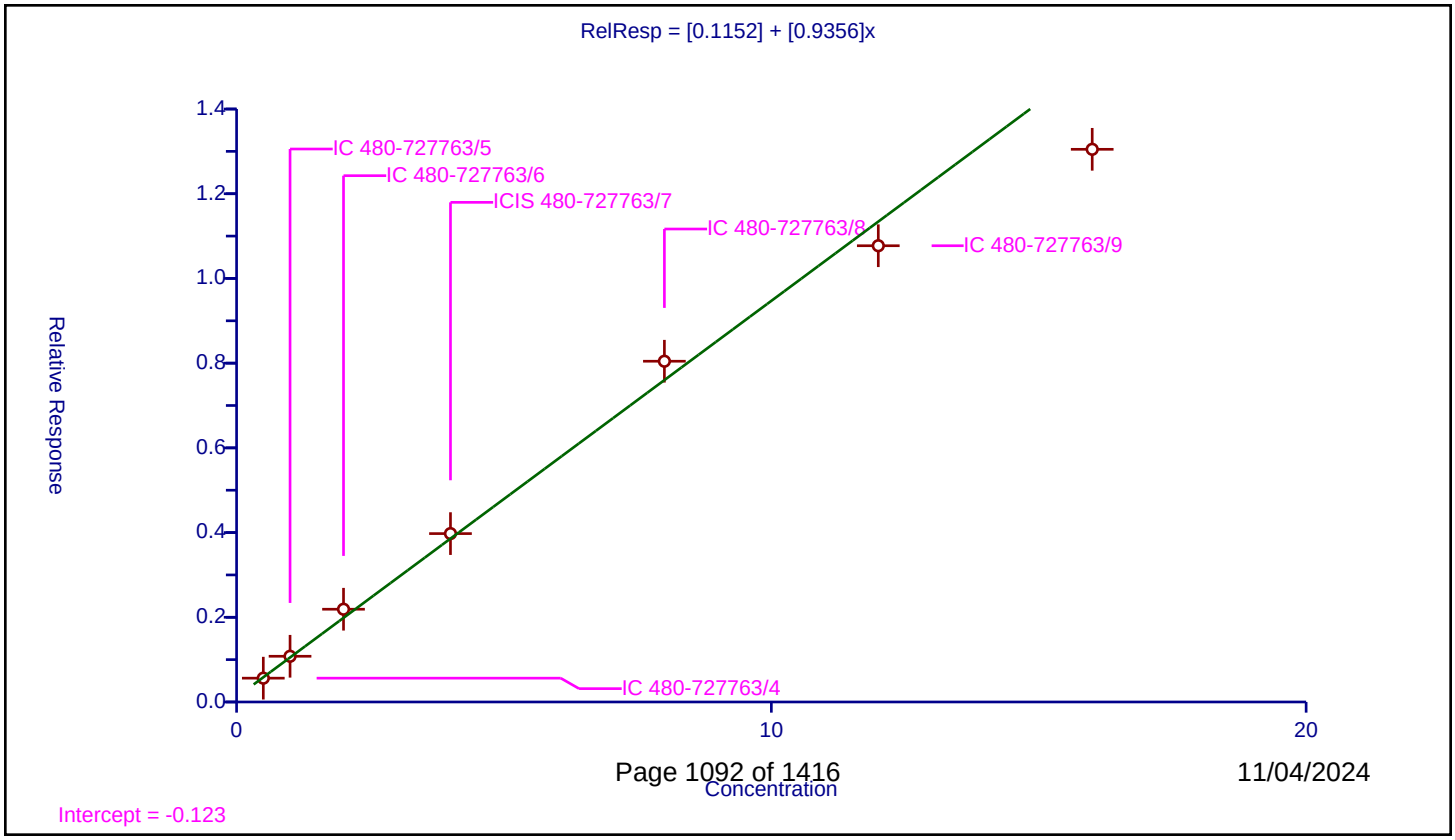
Curve Coefficients

Intercept:	0.1152
Slope:	0.9356

Error Coefficients

Relative Standard Deviation:	9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.562517	4.0	198081.0	1.125035	Y
2	IC 480-727763/5	1.0	1.079503	4.0	205880.0	1.079503	Y
3	IC 480-727763/6	2.0	2.189819	4.0	204331.0	1.09491	Y
4	ICIS 480-727763/7	4.0	3.975633	4.0	213896.0	0.993908	Y
5	IC 480-727763/8	8.0	8.045546	4.0	196285.0	1.005693	Y
6	IC 480-727763/9	12.0	10.772343	4.0	200209.0	0.897695	Y
7	IC 480-727763/10	16.0	13.048494	4.0	204789.0	0.815531	Y



Calibration / Phenol-d5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

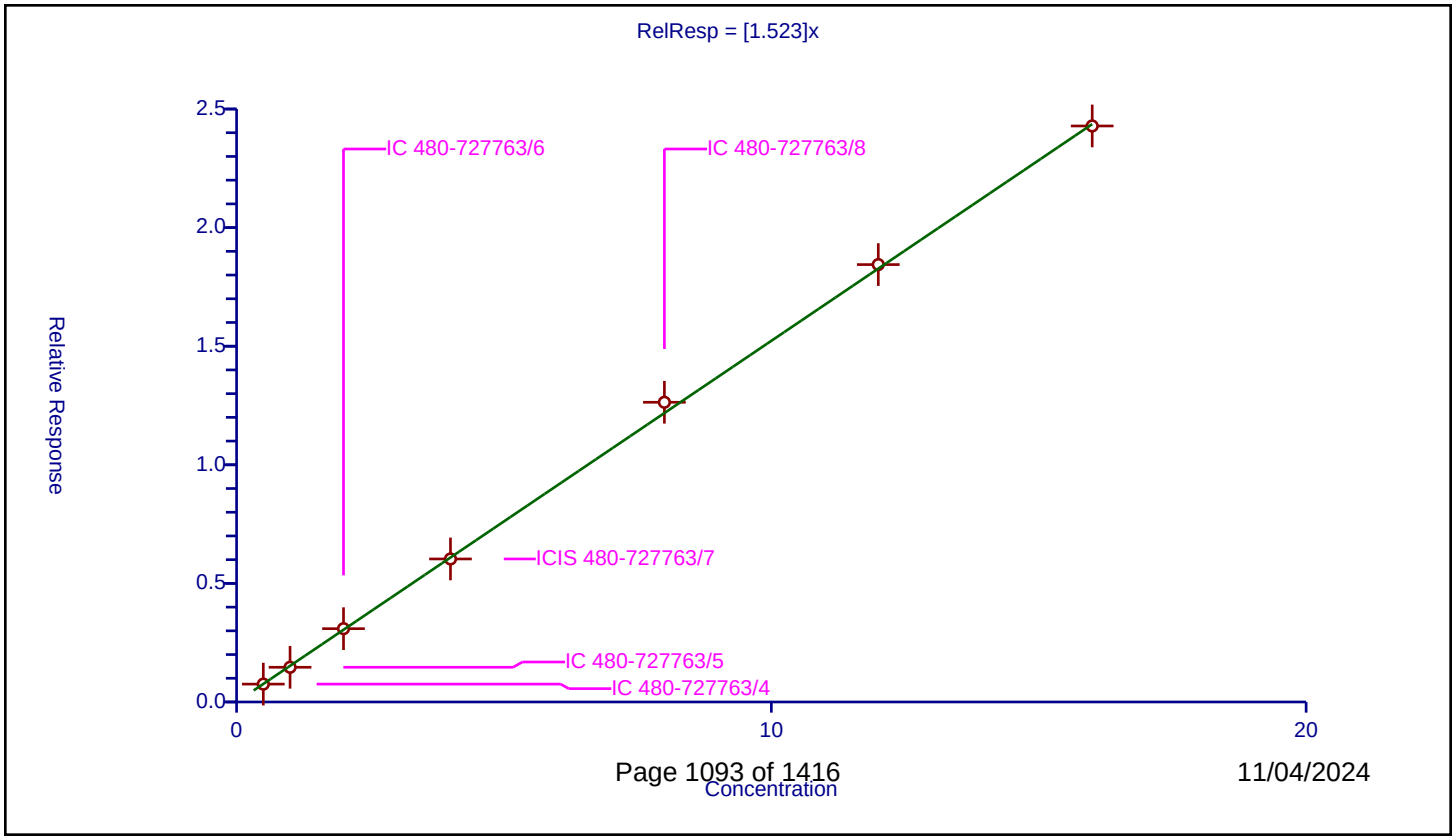
Curve Coefficients

Intercept:	0
Slope:	1.523

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.754277	4.0	198081.0	1.508555	Y
2	IC 480-727763/5	1.0	1.462872	4.0	205880.0	1.462872	Y
3	IC 480-727763/6	2.0	3.091239	4.0	204331.0	1.54562	Y
4	ICIS 480-727763/7	4.0	6.029902	4.0	213896.0	1.507476	Y
5	IC 480-727763/8	8.0	12.636279	4.0	196285.0	1.579535	Y
6	IC 480-727763/9	12.0	18.441229	4.0	200209.0	1.536769	Y
7	IC 480-727763/10	16.0	24.284644	4.0	204789.0	1.51779	Y



Calibration / Phenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

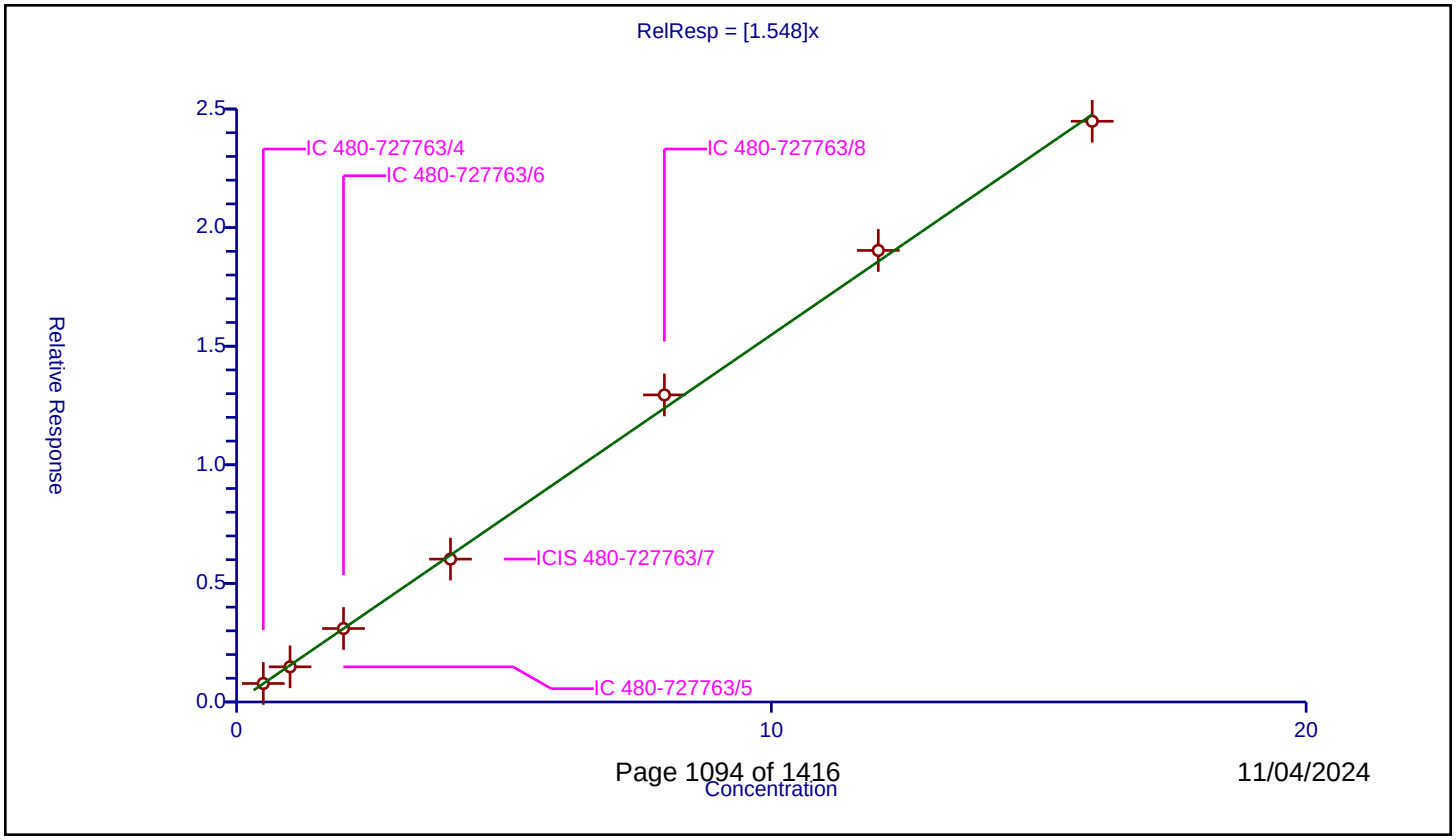
Curve Coefficients

Intercept:	0
Slope:	1.548

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.781276	4.0	198081.0	1.562553	Y
2	IC 480-727763/5	1.0	1.482611	4.0	205880.0	1.482611	Y
3	IC 480-727763/6	2.0	3.098091	4.0	204331.0	1.549045	Y
4	ICIS 480-727763/7	4.0	6.024498	4.0	213896.0	1.506124	Y
5	IC 480-727763/8	8.0	12.946196	4.0	196285.0	1.618274	Y
6	IC 480-727763/9	12.0	19.038445	4.0	200209.0	1.586537	Y
7	IC 480-727763/10	16.0	24.483776	4.0	204789.0	1.530236	Y



11/04/2024

Calibration / Aniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

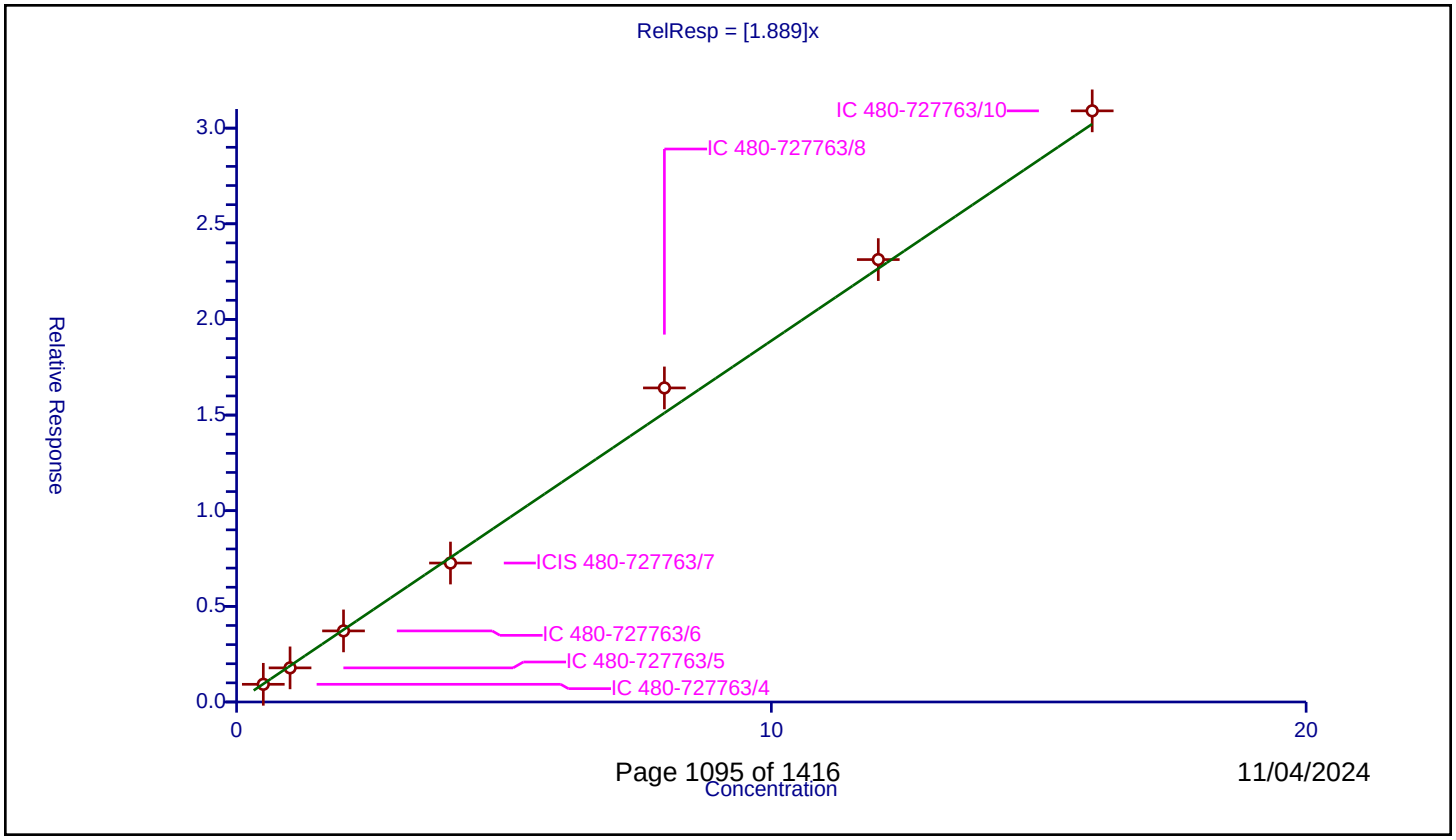
Curve Coefficients

Intercept:	0
Slope:	1.889

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.925298	4.0	198081.0	1.850596	Y
2	IC 480-727763/5	1.0	1.78434	4.0	205880.0	1.78434	Y
3	IC 480-727763/6	2.0	3.715853	4.0	204331.0	1.857927	Y
4	ICIS 480-727763/7	4.0	7.263623	4.0	213896.0	1.815906	Y
5	IC 480-727763/8	8.0	16.419146	4.0	196285.0	2.052393	Y
6	IC 480-727763/9	12.0	23.128391	4.0	200209.0	1.927366	Y
7	IC 480-727763/10	16.0	30.903515	4.0	204789.0	1.93147	Y



11/04/2024

Calibration / Bis(2-chloroethyl)ether

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

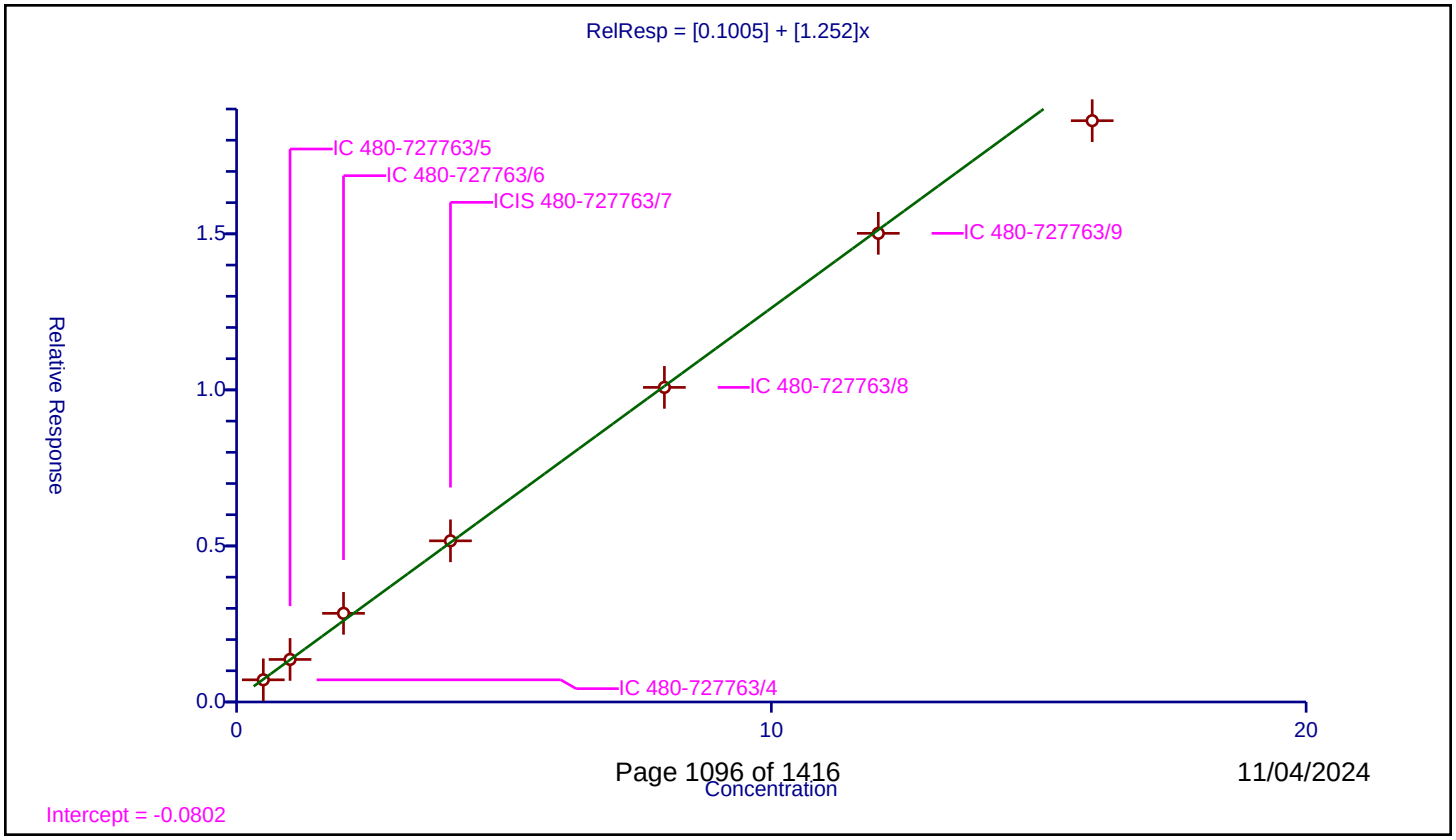
Curve Coefficients

Intercept:	0.1005
Slope:	1.252

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.710376	4.0	198081.0	1.420752	Y
2	IC 480-727763/5	1.0	1.363105	4.0	205880.0	1.363105	Y
3	IC 480-727763/6	2.0	2.840705	4.0	204331.0	1.420352	Y
4	ICIS 480-727763/7	4.0	5.163818	4.0	213896.0	1.290954	Y
5	IC 480-727763/8	8.0	10.080322	4.0	196285.0	1.26004	Y
6	IC 480-727763/9	12.0	15.016428	4.0	200209.0	1.251369	Y
7	IC 480-727763/10	16.0	18.625747	4.0	204789.0	1.164109	Y



Calibration / n-Decane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

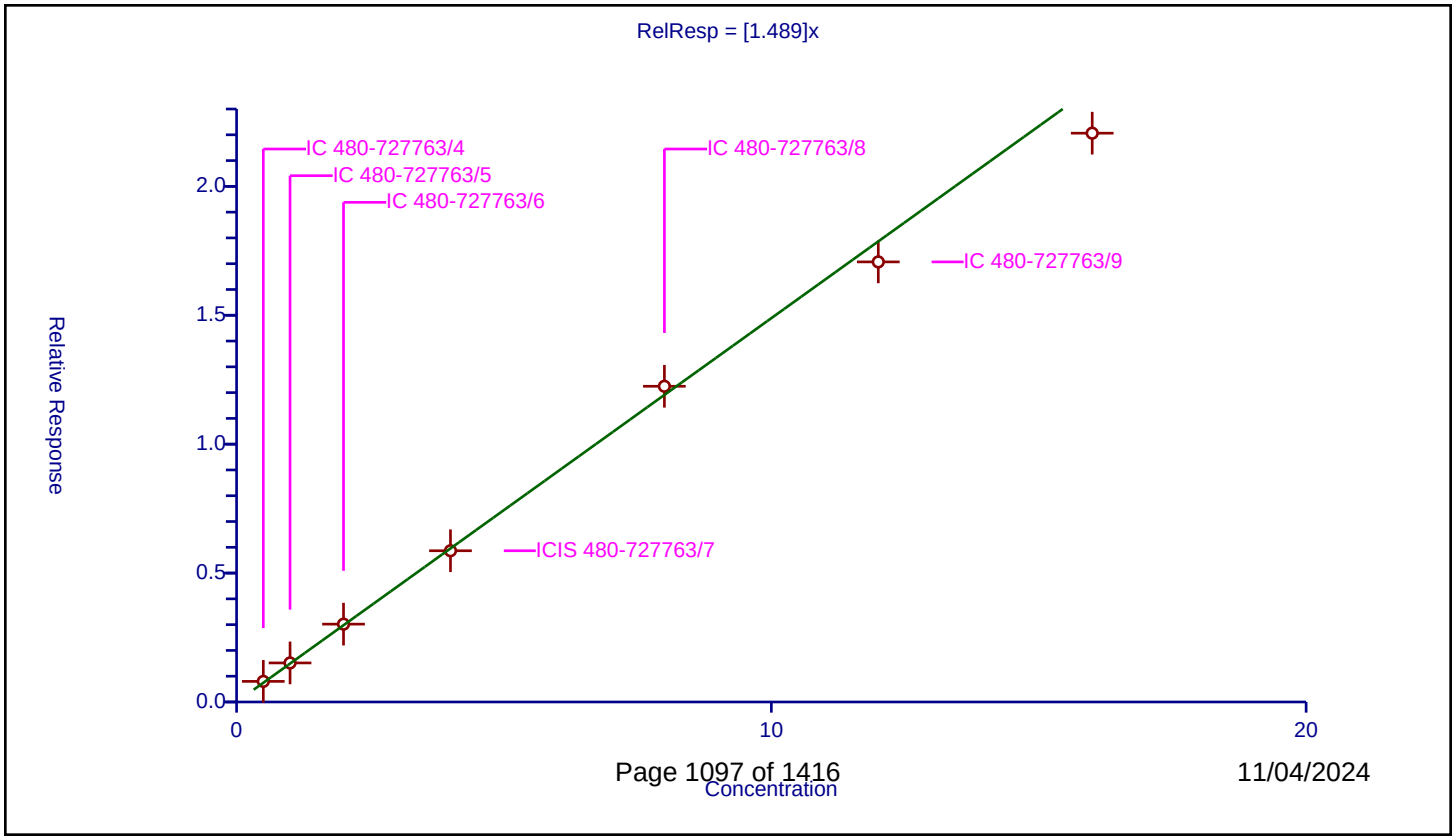
Curve Coefficients

Intercept:	0
Slope:	1.489

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.799128	4.0	198081.0	1.598255	Y
2	IC 480-727763/5	1.0	1.514474	4.0	205880.0	1.514474	Y
3	IC 480-727763/6	2.0	3.019728	4.0	204331.0	1.509864	Y
4	ICIS 480-727763/7	4.0	5.865879	4.0	213896.0	1.46647	Y
5	IC 480-727763/8	8.0	12.245765	4.0	196285.0	1.530721	Y
6	IC 480-727763/9	12.0	17.070162	4.0	200209.0	1.422513	Y
7	IC 480-727763/10	16.0	22.062611	4.0	204789.0	1.378913	Y



11/04/2024

Calibration / 2-Chlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

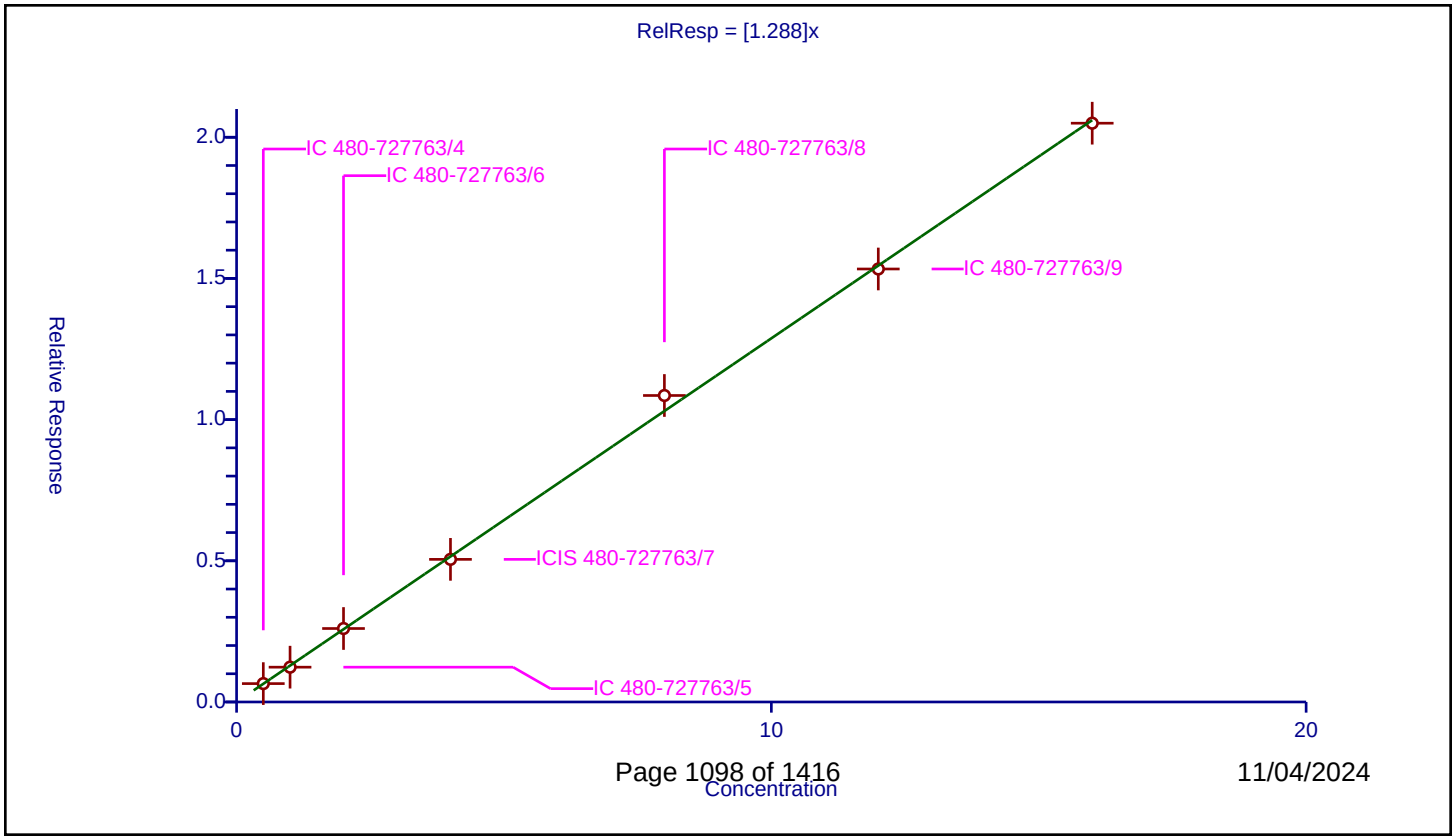
Curve Coefficients

Intercept:	0
Slope:	1.288

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.65141	4.0	198081.0	1.302821	Y
2	IC 480-727763/5	1.0	1.232602	4.0	205880.0	1.232602	Y
3	IC 480-727763/6	2.0	2.601896	4.0	204331.0	1.300948	Y
4	ICIS 480-727763/7	4.0	5.051315	4.0	213896.0	1.262829	Y
5	IC 480-727763/8	8.0	10.854136	4.0	196285.0	1.356767	Y
6	IC 480-727763/9	12.0	15.334835	4.0	200209.0	1.277903	Y
7	IC 480-727763/10	16.0	20.49737	4.0	204789.0	1.281086	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

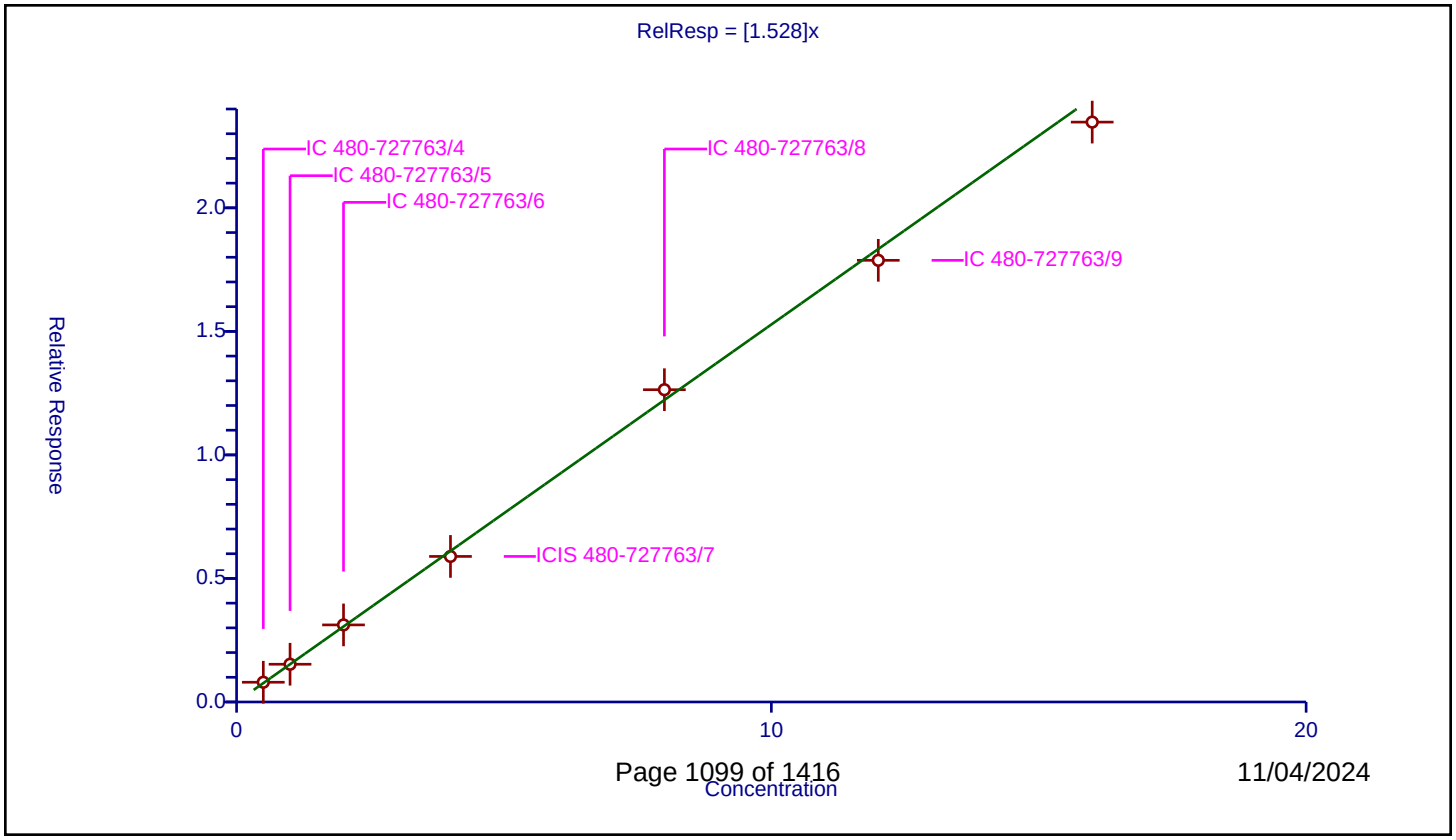
Curve Coefficients

Intercept:	0
Slope:	1.528

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.798744	4.0	198081.0	1.597488	Y
2	IC 480-727763/5	1.0	1.527958	4.0	205880.0	1.527958	Y
3	IC 480-727763/6	2.0	3.119899	4.0	204331.0	1.559949	Y
4	ICIS 480-727763/7	4.0	5.891012	4.0	213896.0	1.472753	Y
5	IC 480-727763/8	8.0	12.639295	4.0	196285.0	1.579912	Y
6	IC 480-727763/9	12.0	17.876379	4.0	200209.0	1.489698	Y
7	IC 480-727763/10	16.0	23.469796	4.0	204789.0	1.466862	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

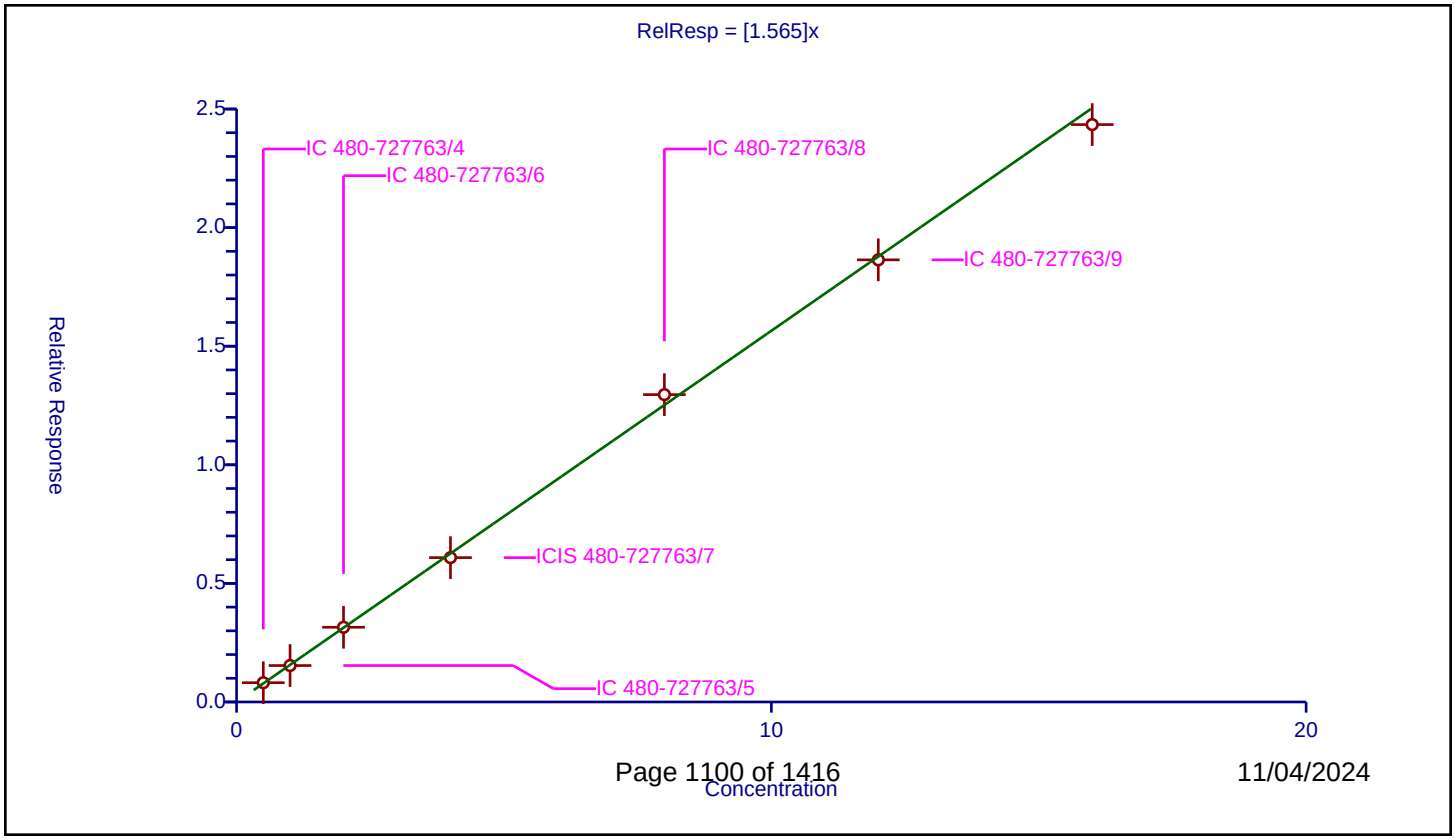
Curve Coefficients

Intercept:	0
Slope:	1.565

Error Coefficients

Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.813607	4.0	198081.0	1.627213	Y
2	IC 480-727763/5	1.0	1.536215	4.0	205880.0	1.536215	Y
3	IC 480-727763/6	2.0	3.15032	4.0	204331.0	1.57516	Y
4	ICIS 480-727763/7	4.0	6.085724	4.0	213896.0	1.521431	Y
5	IC 480-727763/8	8.0	12.958667	4.0	196285.0	1.619833	Y
6	IC 480-727763/9	12.0	18.64098	4.0	200209.0	1.553415	Y
7	IC 480-727763/10	16.0	24.343358	4.0	204789.0	1.52146	Y



Calibration / Benzyl alcohol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

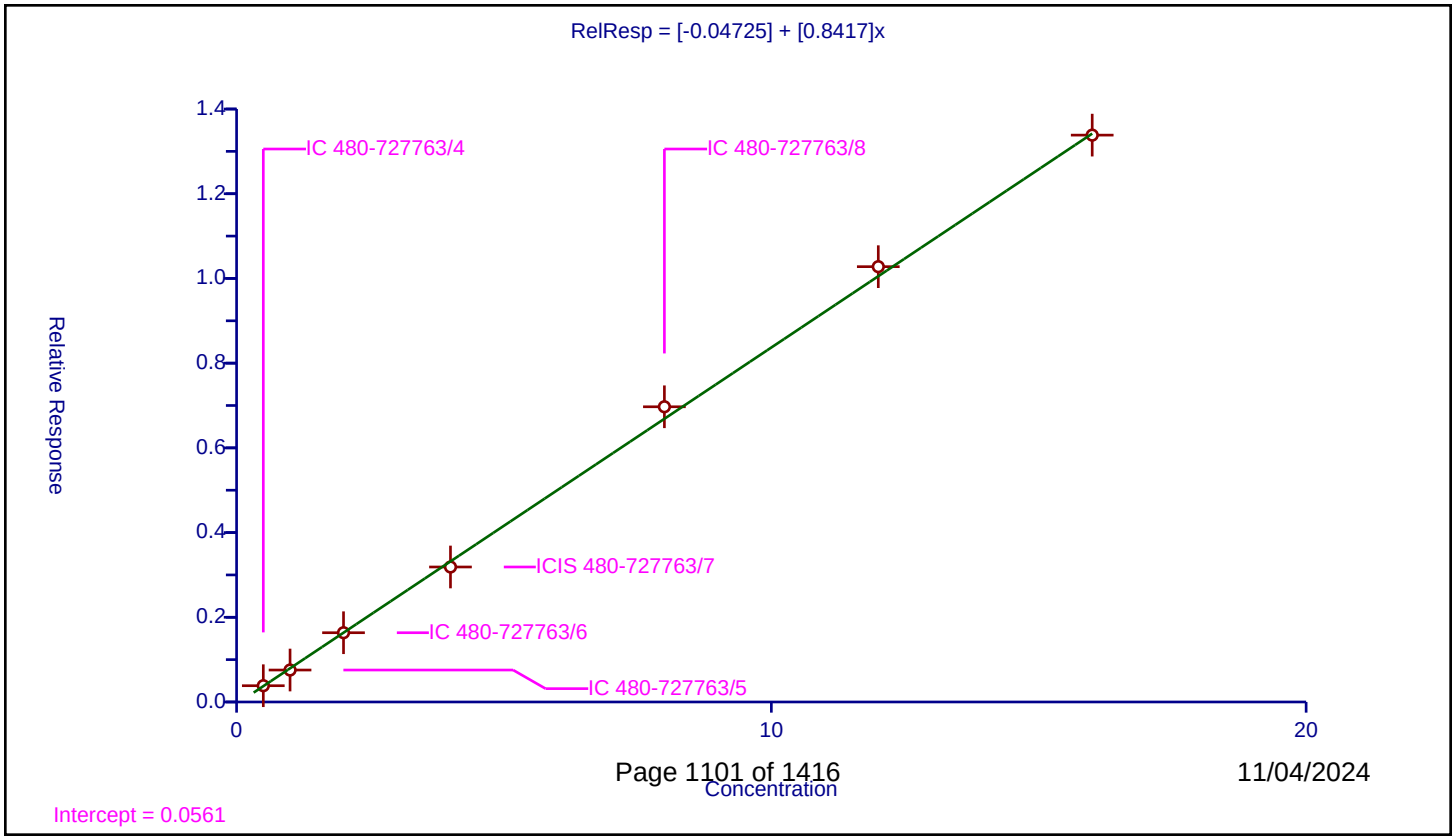
Curve Coefficients

Intercept:	-0.04725
Slope:	0.8417

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.384206	4.0	198081.0	0.768413	Y
2	IC 480-727763/5	1.0	0.754381	4.0	205880.0	0.754381	Y
3	IC 480-727763/6	2.0	1.635601	4.0	204331.0	0.817801	Y
4	ICIS 480-727763/7	4.0	3.187156	4.0	213896.0	0.796789	Y
5	IC 480-727763/8	8.0	6.970028	4.0	196285.0	0.871254	Y
6	IC 480-727763/9	12.0	10.27778	4.0	200209.0	0.856482	Y
7	IC 480-727763/10	16.0	13.383316	4.0	204789.0	0.836457	Y



11/04/2024

Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

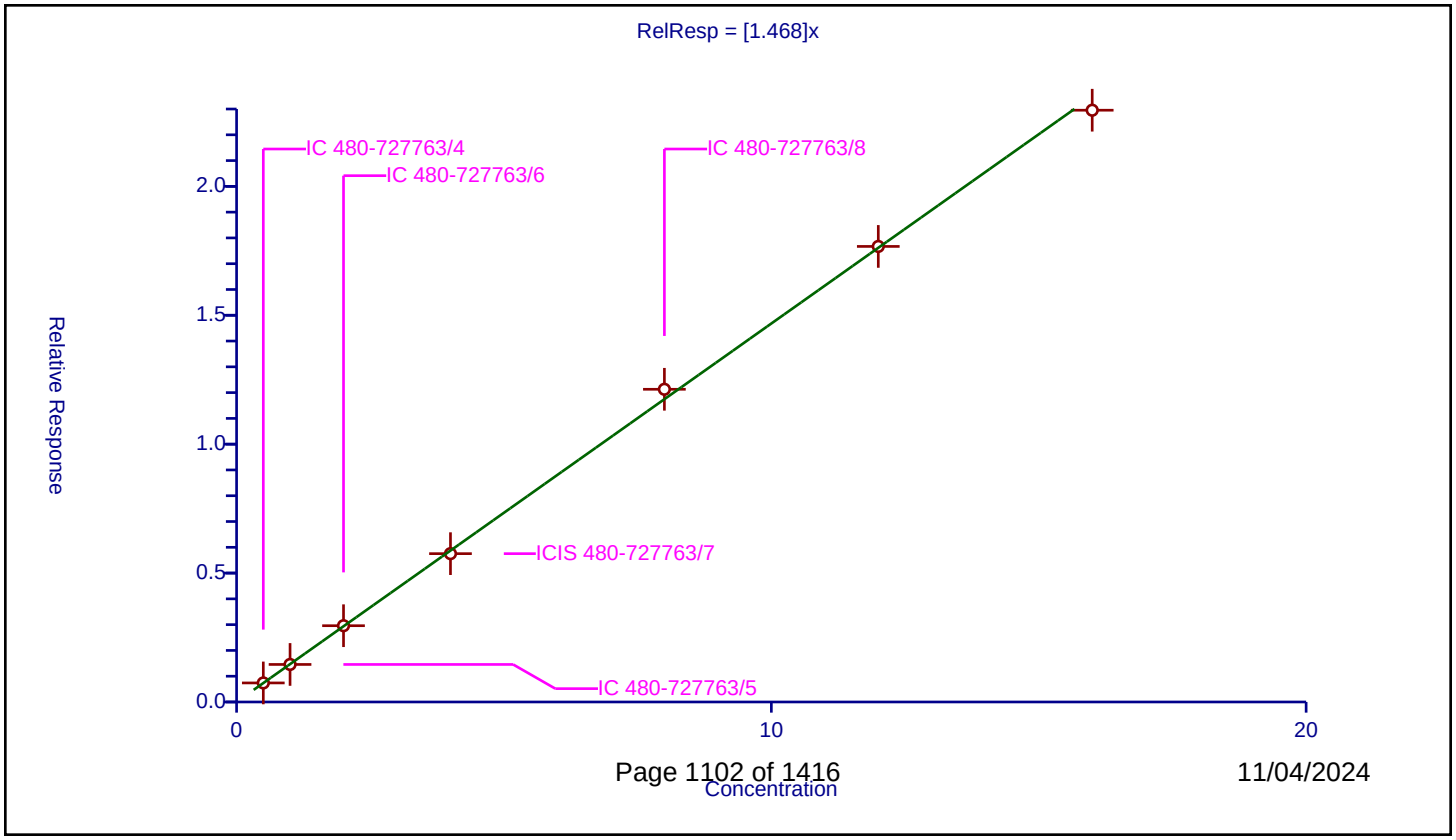
Curve Coefficients

Intercept:	0
Slope:	1.468

Error Coefficients

Relative Standard Deviation:	1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.739455	4.0	198081.0	1.47891	Y
2	IC 480-727763/5	1.0	1.456013	4.0	205880.0	1.456013	Y
3	IC 480-727763/6	2.0	2.958866	4.0	204331.0	1.479433	Y
4	ICIS 480-727763/7	4.0	5.753712	4.0	213896.0	1.438428	Y
5	IC 480-727763/8	8.0	12.129363	4.0	196285.0	1.51617	Y
6	IC 480-727763/9	12.0	17.670175	4.0	200209.0	1.472515	Y
7	IC 480-727763/10	16.0	22.953069	4.0	204789.0	1.434567	Y



Calibration / 2-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

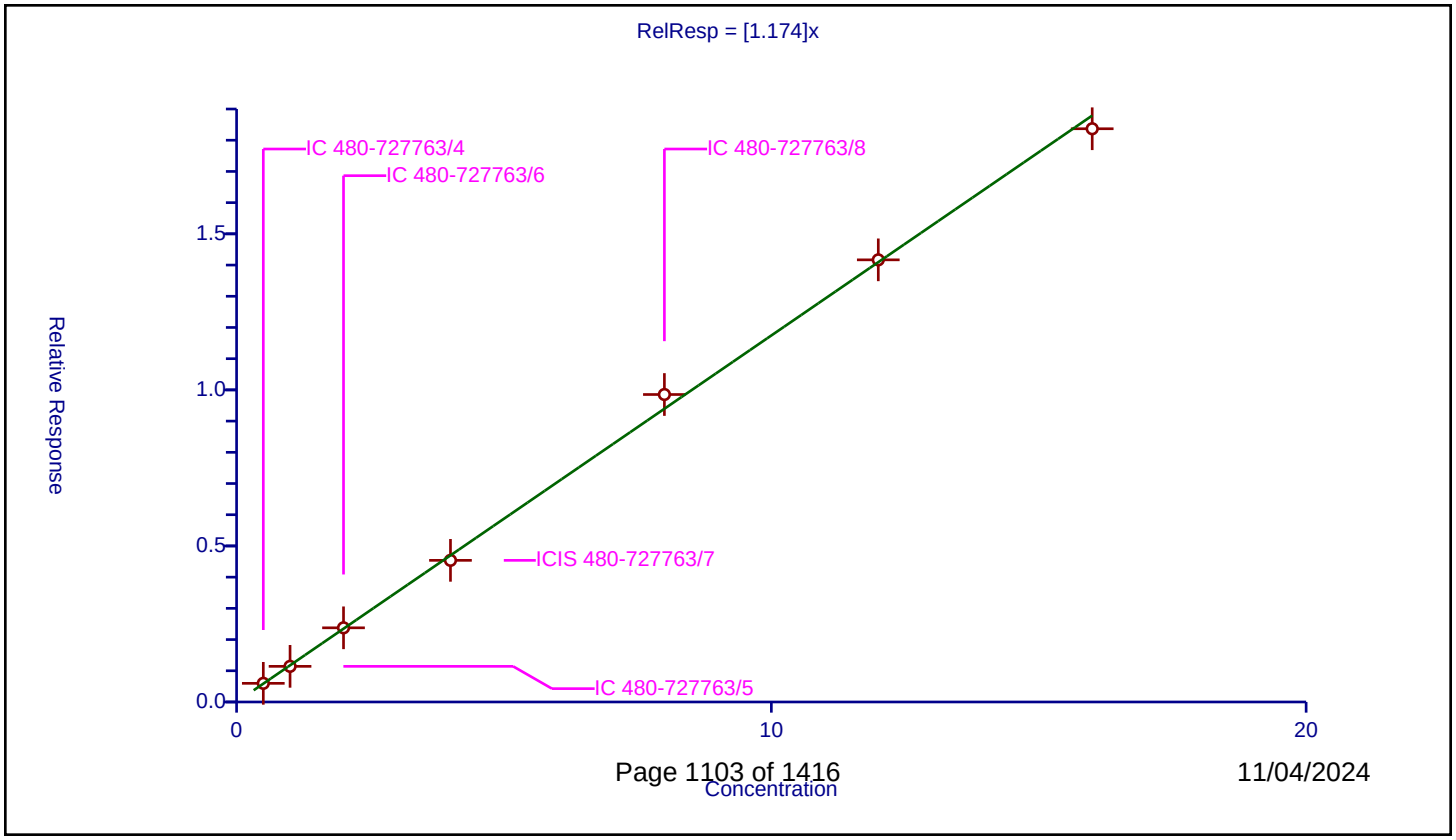
Curve Coefficients

Intercept:	0
Slope:	1.174

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.598018	4.0	198081.0	1.196036	Y
2	IC 480-727763/5	1.0	1.141558	4.0	205880.0	1.141558	Y
3	IC 480-727763/6	2.0	2.376575	4.0	204331.0	1.188288	Y
4	ICIS 480-727763/7	4.0	4.538187	4.0	213896.0	1.134547	Y
5	IC 480-727763/8	8.0	9.852286	4.0	196285.0	1.231536	Y
6	IC 480-727763/9	12.0	14.167235	4.0	200209.0	1.180603	Y
7	IC 480-727763/10	16.0	18.367979	4.0	204789.0	1.147999	Y



Calibration / 2,2'-oxybis[1-chloropropane]

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

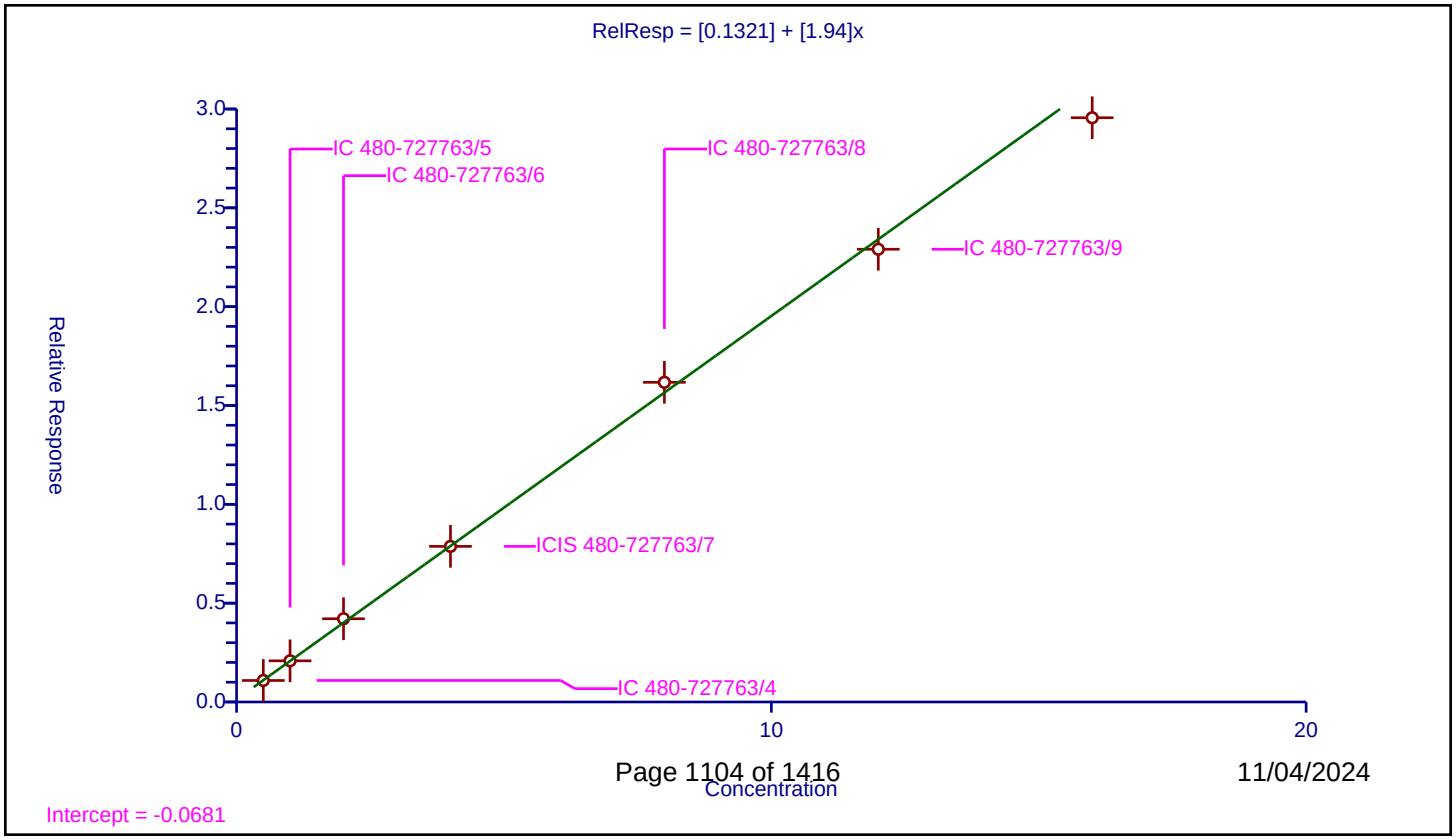
Curve Coefficients

Intercept:	0.1321
Slope:	1.94

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	1.087454	4.0	198081.0	2.174908	Y
2	IC 480-727763/5	1.0	2.082786	4.0	205880.0	2.082786	Y
3	IC 480-727763/6	2.0	4.211637	4.0	204331.0	2.105819	Y
4	ICIS 480-727763/7	4.0	7.872349	4.0	213896.0	1.968087	Y
5	IC 480-727763/8	8.0	16.172647	4.0	196285.0	2.021581	Y
6	IC 480-727763/9	12.0	22.905504	4.0	200209.0	1.908792	Y
7	IC 480-727763/10	16.0	29.558697	4.0	204789.0	1.847419	Y



Calibration / Indene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

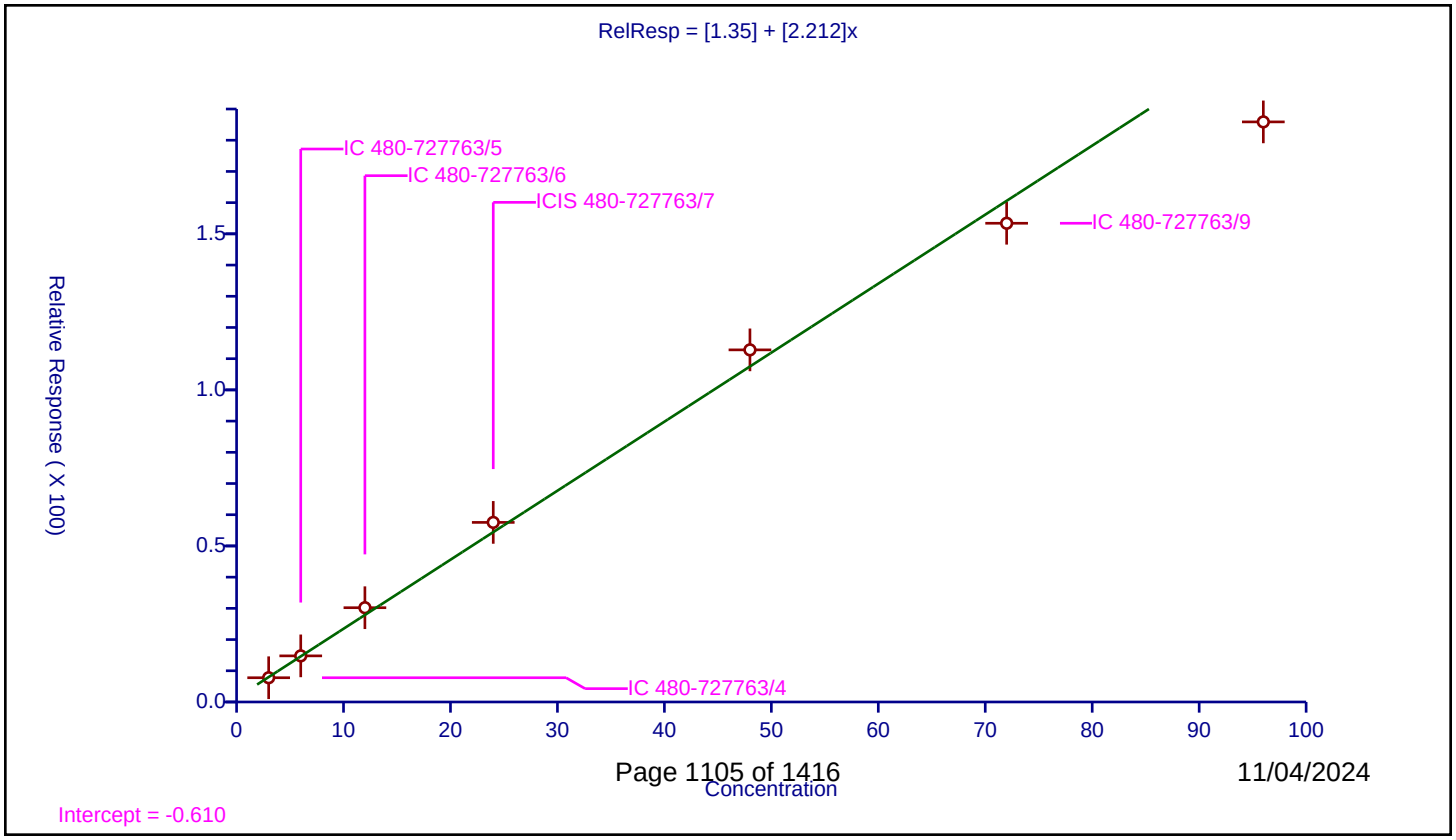
Curve Coefficients

Intercept:	1.35
Slope:	2.212

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	3.0	7.770175	4.0	198081.0	2.590058	Y
2	IC 480-727763/5	6.0	14.775559	4.0	205880.0	2.462593	Y
3	IC 480-727763/6	12.0	30.211803	4.0	204331.0	2.51765	Y
4	ICIS 480-727763/7	24.0	57.542899	4.0	213896.0	2.397621	Y
5	IC 480-727763/8	48.0	112.827572	4.0	196285.0	2.350574	Y
6	IC 480-727763/9	72.0	153.395162	4.0	200209.0	2.130488	Y
7	IC 480-727763/10	96.0	185.875823	4.0	204789.0	1.936206	Y



11/04/2024

Calibration / 4-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

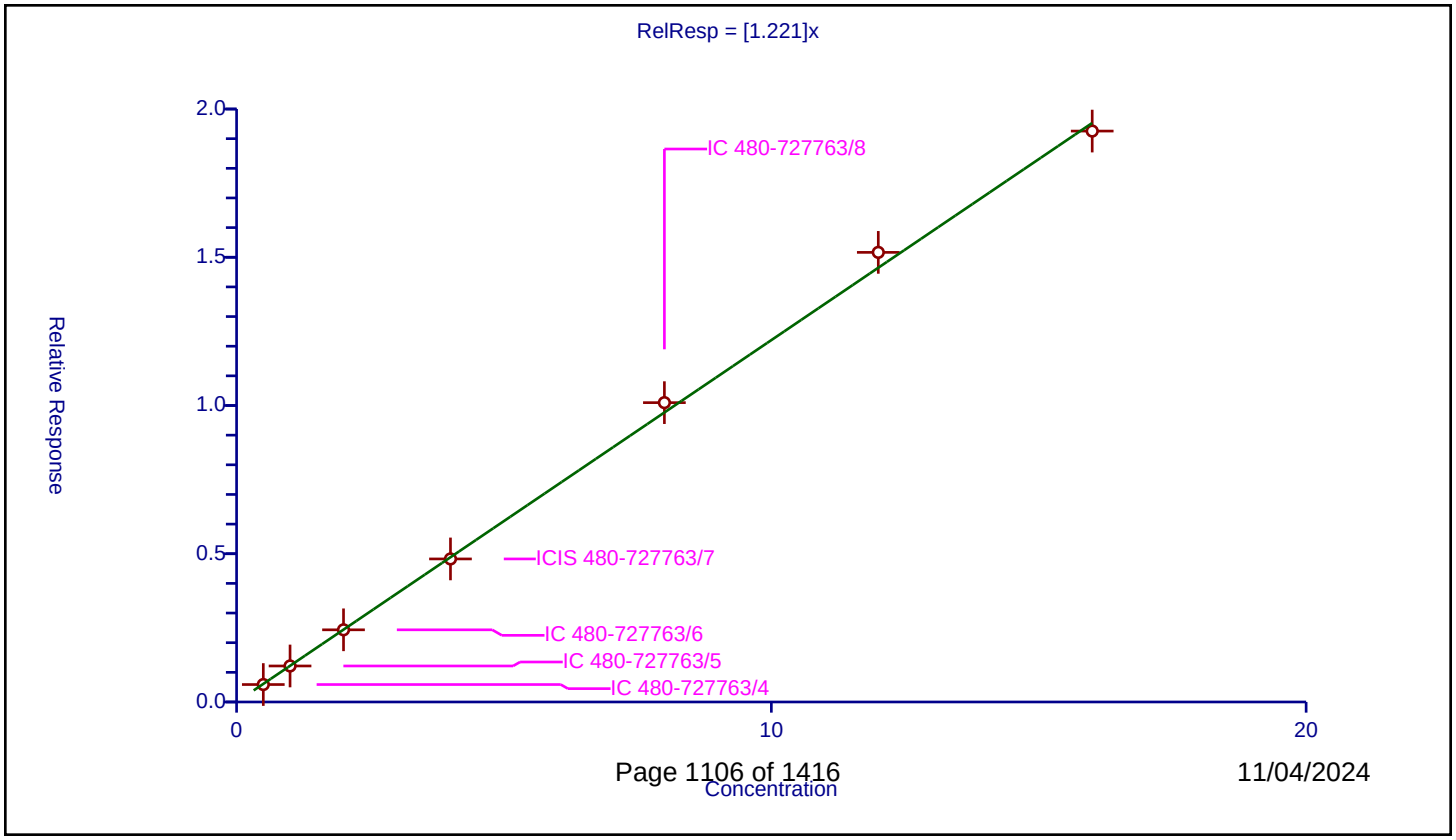
Curve Coefficients

Intercept:	0
Slope:	1.221

Error Coefficients

Relative Standard Deviation:	2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.588264	4.0	198081.0	1.176529	Y
2	IC 480-727763/5	1.0	1.21463	4.0	205880.0	1.21463	Y
3	IC 480-727763/6	2.0	2.434031	4.0	204331.0	1.217016	Y
4	ICIS 480-727763/7	4.0	4.825055	4.0	213896.0	1.206264	Y
5	IC 480-727763/8	8.0	10.096727	4.0	196285.0	1.262091	Y
6	IC 480-727763/9	12.0	15.164713	4.0	200209.0	1.263726	Y
7	IC 480-727763/10	16.0	19.256444	4.0	204789.0	1.203528	Y



Calibration / N-Nitrosodi-n-propylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

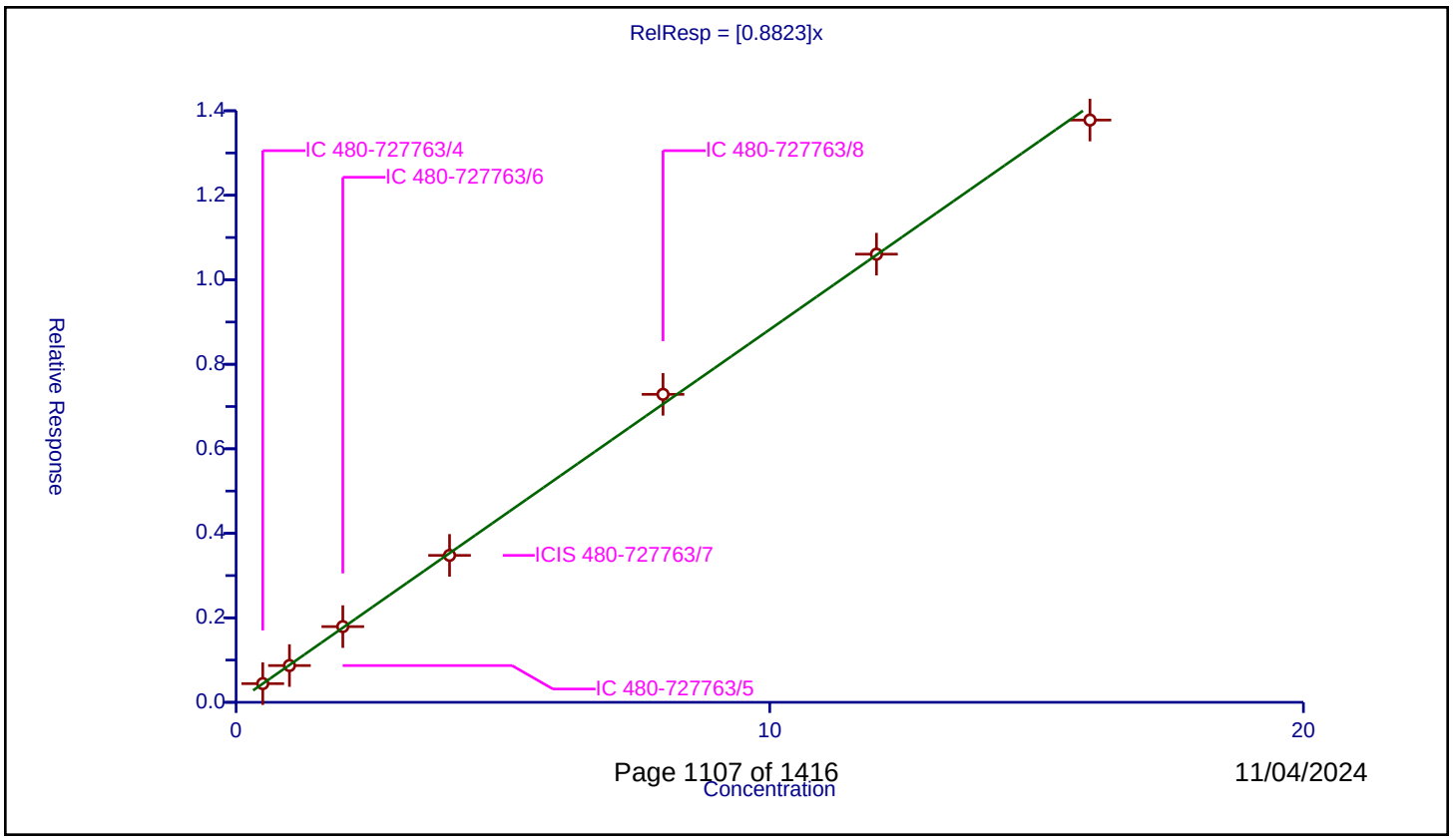
Curve Coefficients

Intercept:	0
Slope:	0.8823

Error Coefficients

Relative Standard Deviation:	2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.442364	4.0	198081.0	0.884729	Y
2	IC 480-727763/5	1.0	0.869749	4.0	205880.0	0.869749	Y
3	IC 480-727763/6	2.0	1.791779	4.0	204331.0	0.89589	Y
4	ICIS 480-727763/7	4.0	3.477522	4.0	213896.0	0.86938	Y
5	IC 480-727763/8	8.0	7.288524	4.0	196285.0	0.911066	Y
6	IC 480-727763/9	12.0	10.606137	4.0	200209.0	0.883845	Y
7	IC 480-727763/10	16.0	13.779685	4.0	204789.0	0.86123	Y



Calibration / Acetophenone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

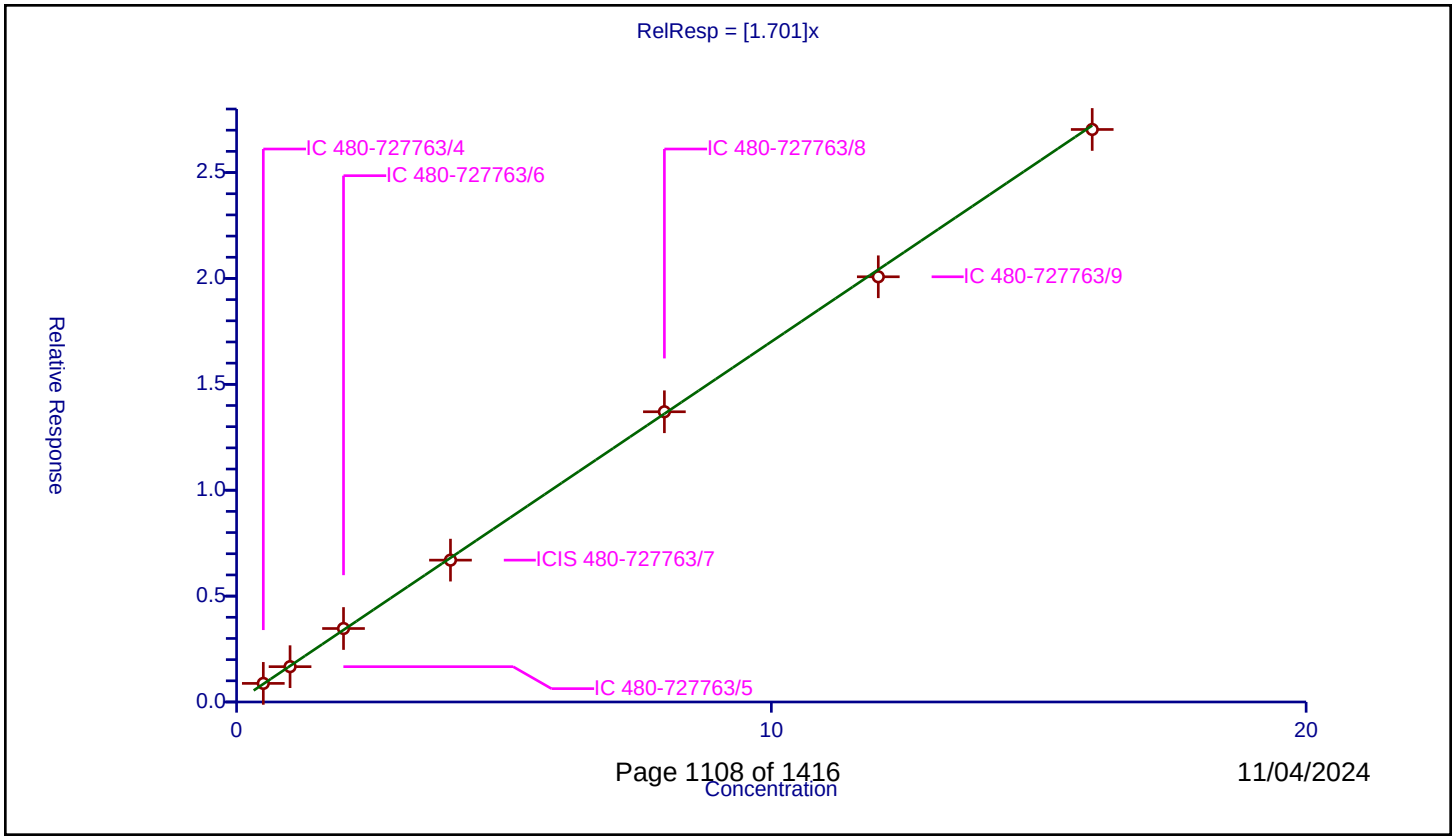
Curve Coefficients

Intercept:	0
Slope:	1.701

Error Coefficients

Relative Standard Deviation:	2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.877803	4.0	198081.0	1.755605	Y
2	IC 480-727763/5	1.0	1.668409	4.0	205880.0	1.668409	Y
3	IC 480-727763/6	2.0	3.469312	4.0	204331.0	1.734656	Y
4	ICIS 480-727763/7	4.0	6.698713	4.0	213896.0	1.674678	Y
5	IC 480-727763/8	8.0	13.704236	4.0	196285.0	1.71303	Y
6	IC 480-727763/9	12.0	20.078318	4.0	200209.0	1.673193	Y
7	IC 480-727763/10	16.0	27.034225	4.0	204789.0	1.689639	Y



Calibration / Hexachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

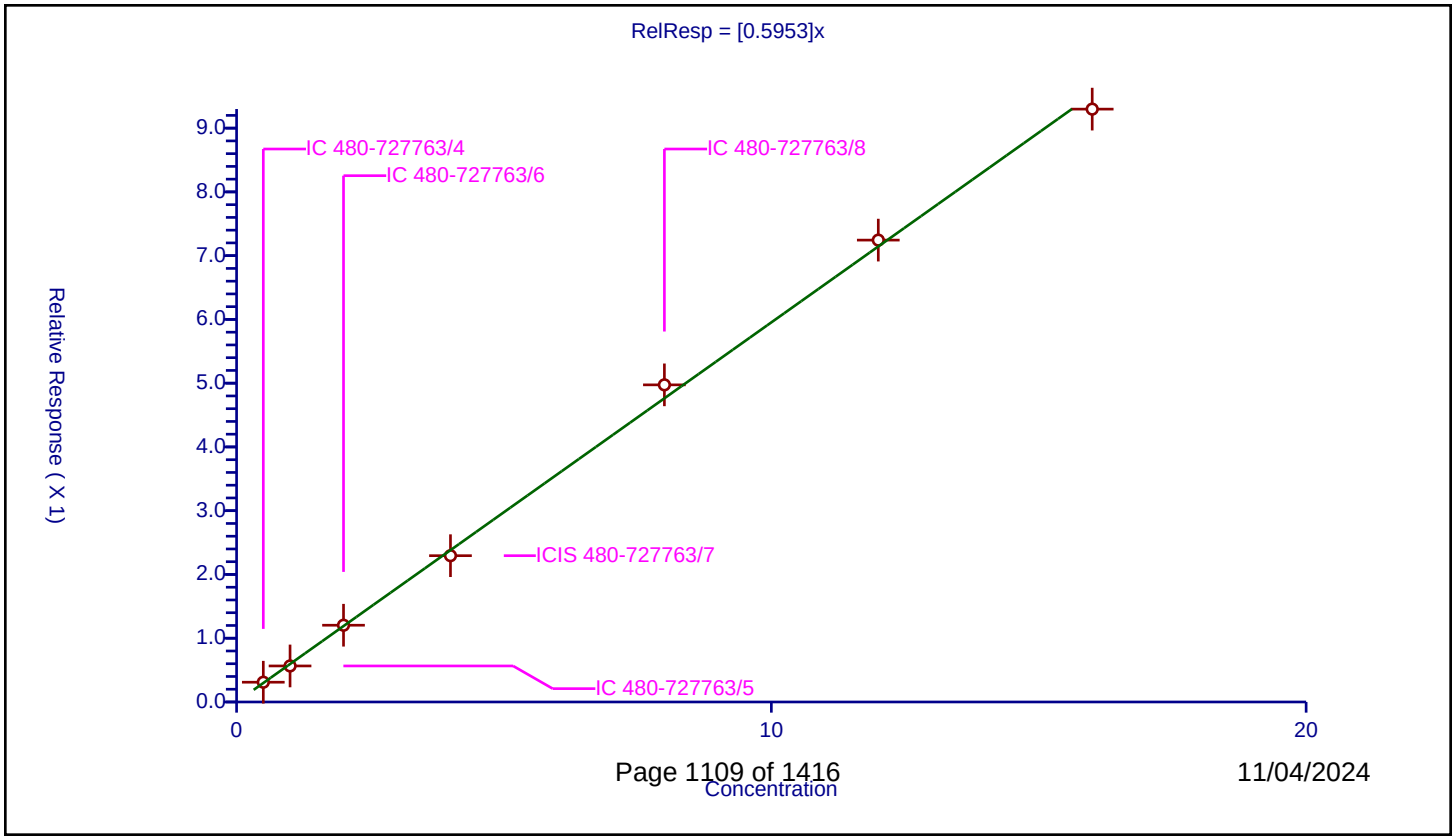
Curve Coefficients

Intercept:	0
Slope:	0.5953

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.310015	4.0	198081.0	0.620029	Y
2	IC 480-727763/5	1.0	0.565261	4.0	205880.0	0.565261	Y
3	IC 480-727763/6	2.0	1.203851	4.0	204331.0	0.601925	Y
4	ICIS 480-727763/7	4.0	2.294779	4.0	213896.0	0.573695	Y
5	IC 480-727763/8	8.0	4.97391	4.0	196285.0	0.621739	Y
6	IC 480-727763/9	12.0	7.24379	4.0	200209.0	0.603649	Y
7	IC 480-727763/10	16.0	9.298371	4.0	204789.0	0.581148	Y



Calibration / Nitrobenzene-d5

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

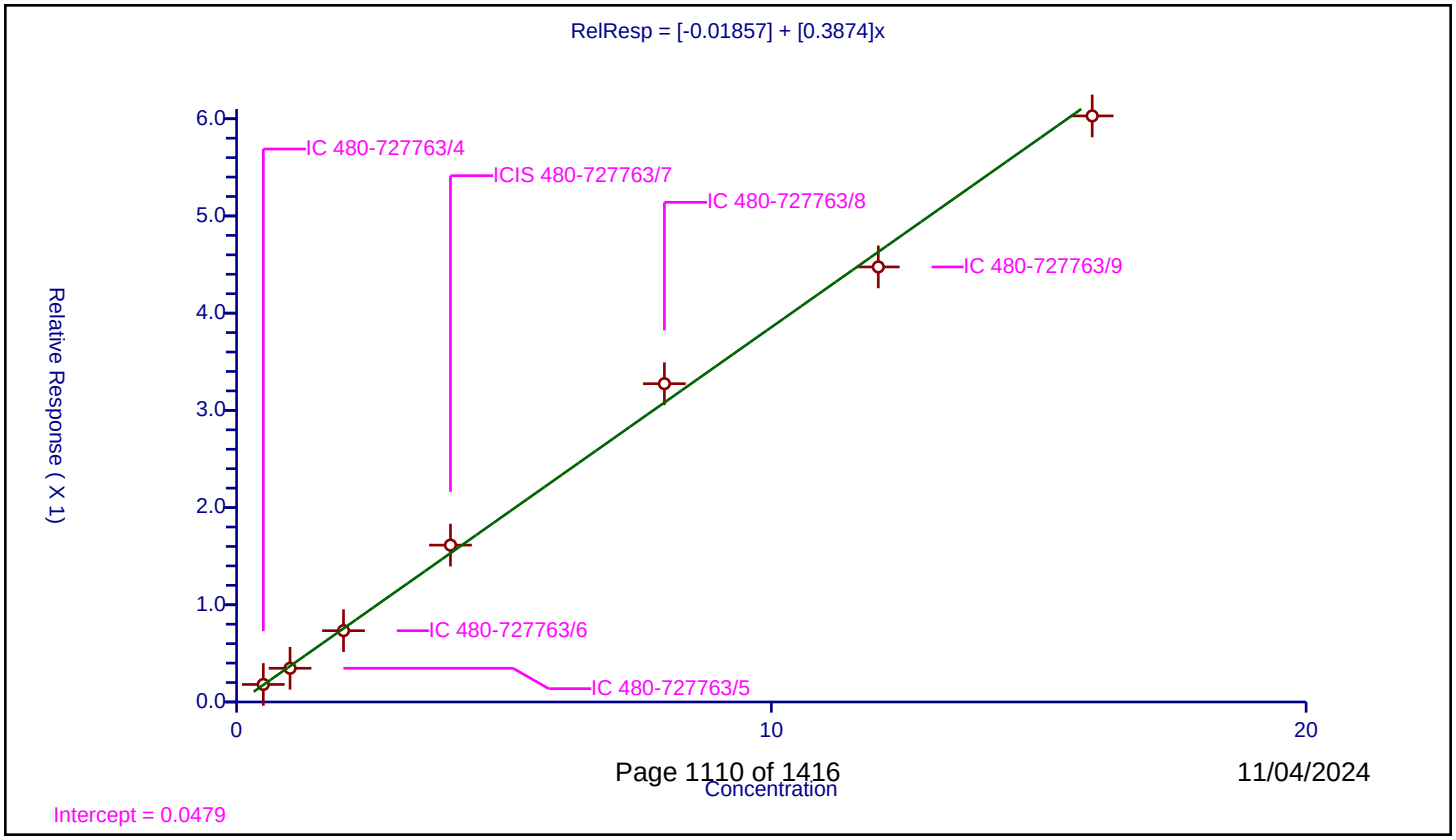
Curve Coefficients

Intercept:	-0.01857
Slope:	0.3874

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.180376	4.0	737081.0	0.360753	Y
2	IC 480-727763/5	1.0	0.346834	4.0	773570.0	0.346834	Y
3	IC 480-727763/6	2.0	0.733689	4.0	759842.0	0.366845	Y
4	ICIS 480-727763/7	4.0	1.613801	4.0	773798.0	0.40345	Y
5	IC 480-727763/8	8.0	3.274215	4.0	688788.0	0.409277	Y
6	IC 480-727763/9	12.0	4.475368	4.0	738627.0	0.372947	Y
7	IC 480-727763/10	16.0	6.028921	4.0	735514.0	0.376808	Y



Calibration / Nitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

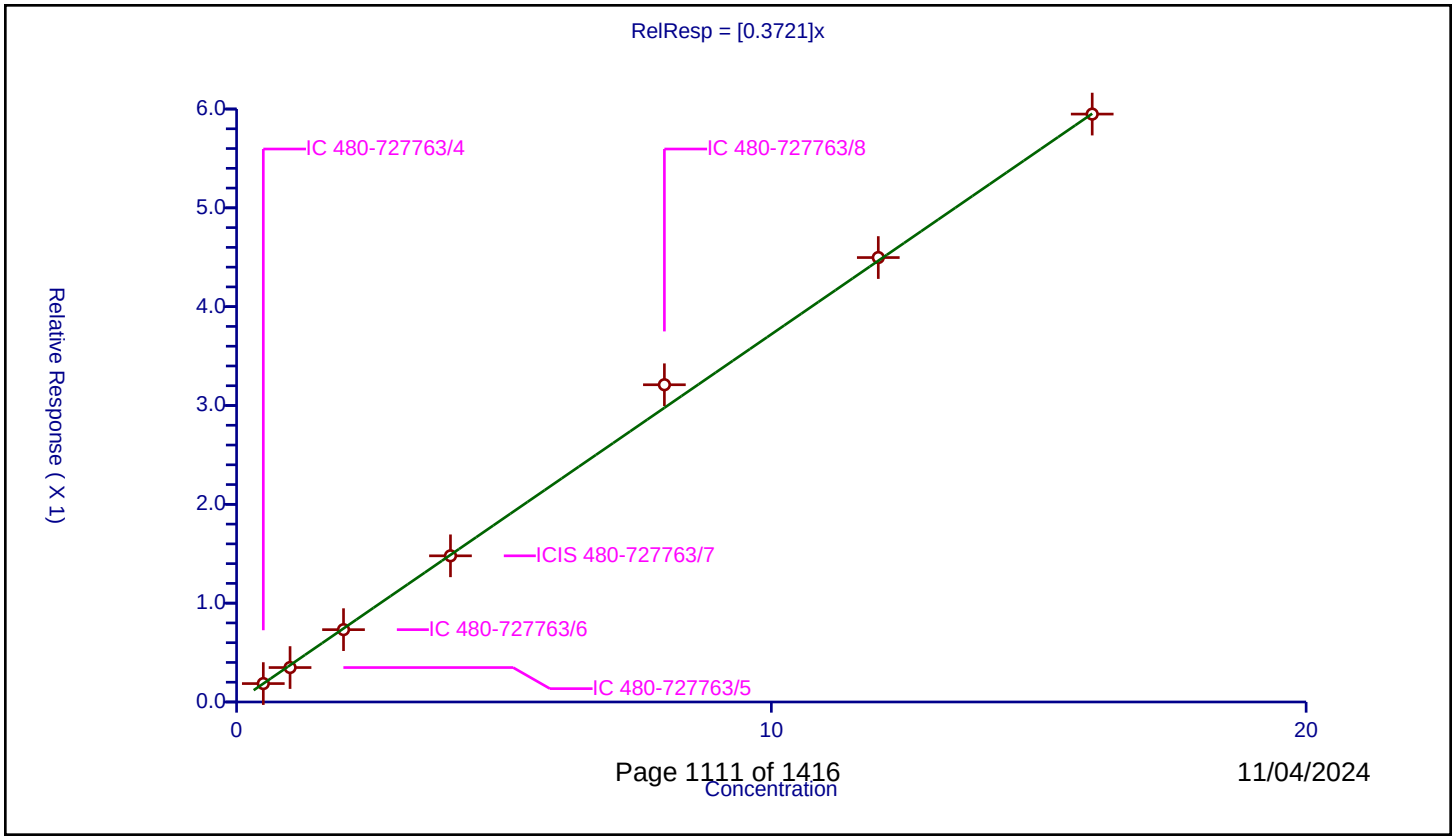
Curve Coefficients

Intercept:	0
Slope:	0.3721

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.186221	4.0	737081.0	0.372442	Y
2	IC 480-727763/5	1.0	0.348545	4.0	773570.0	0.348545	Y
3	IC 480-727763/6	2.0	0.731894	4.0	759842.0	0.365947	Y
4	ICIS 480-727763/7	4.0	1.479032	4.0	773798.0	0.369758	Y
5	IC 480-727763/8	8.0	3.210079	4.0	688788.0	0.40126	Y
6	IC 480-727763/9	12.0	4.496944	4.0	738627.0	0.374745	Y
7	IC 480-727763/10	16.0	5.948743	4.0	735514.0	0.371796	Y



Calibration / Isophorone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

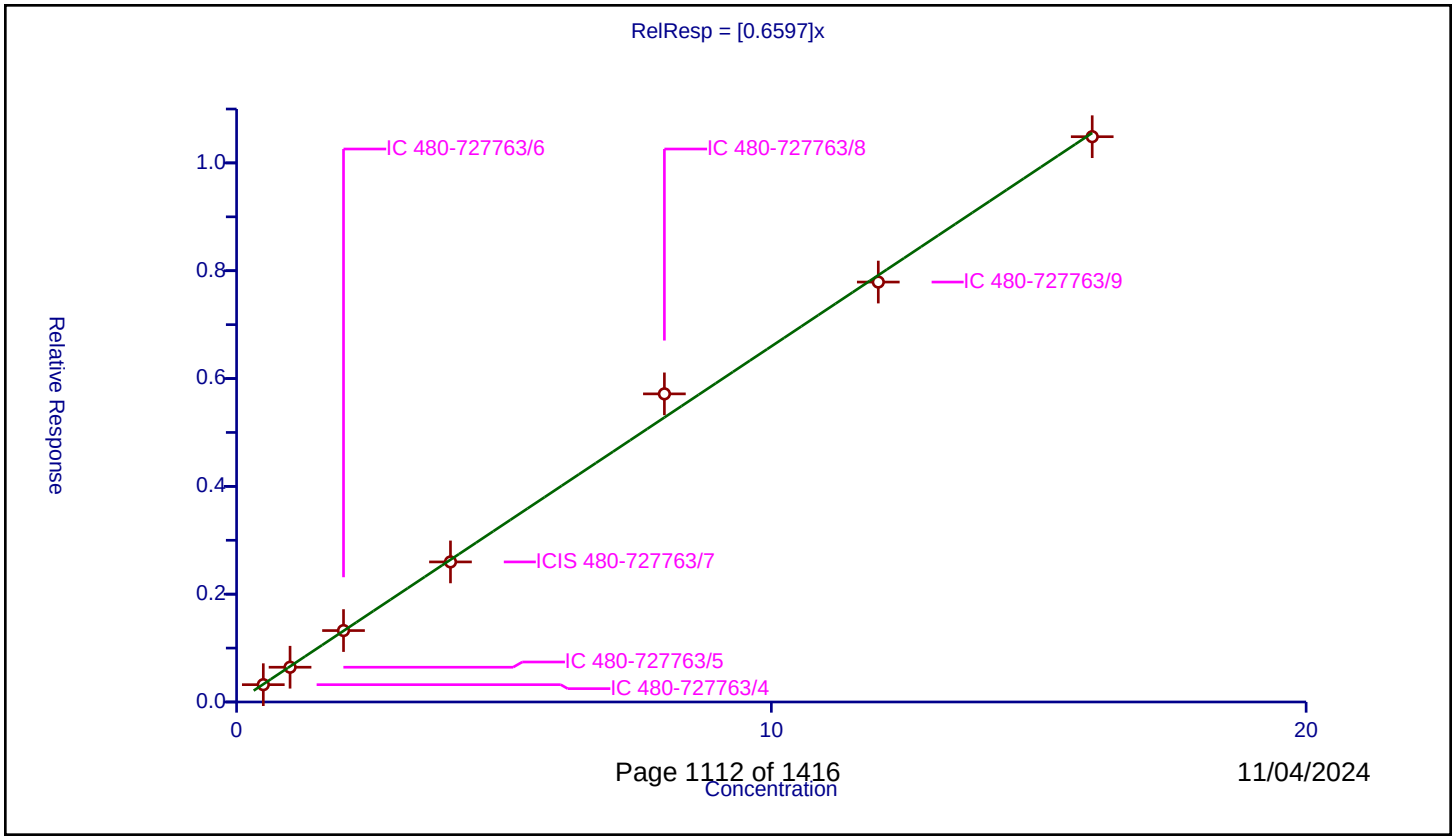
Curve Coefficients

Intercept:	0
Slope:	0.6597

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.321153	4.0	737081.0	0.642307	Y
2	IC 480-727763/5	1.0	0.644679	4.0	773570.0	0.644679	Y
3	IC 480-727763/6	2.0	1.324839	4.0	759842.0	0.662419	Y
4	ICIS 480-727763/7	4.0	2.598559	4.0	773798.0	0.64964	Y
5	IC 480-727763/8	8.0	5.716017	4.0	688788.0	0.714502	Y
6	IC 480-727763/9	12.0	7.790027	4.0	738627.0	0.649169	Y
7	IC 480-727763/10	16.0	10.486637	4.0	735514.0	0.655415	Y



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Calibration / 2-Nitrophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

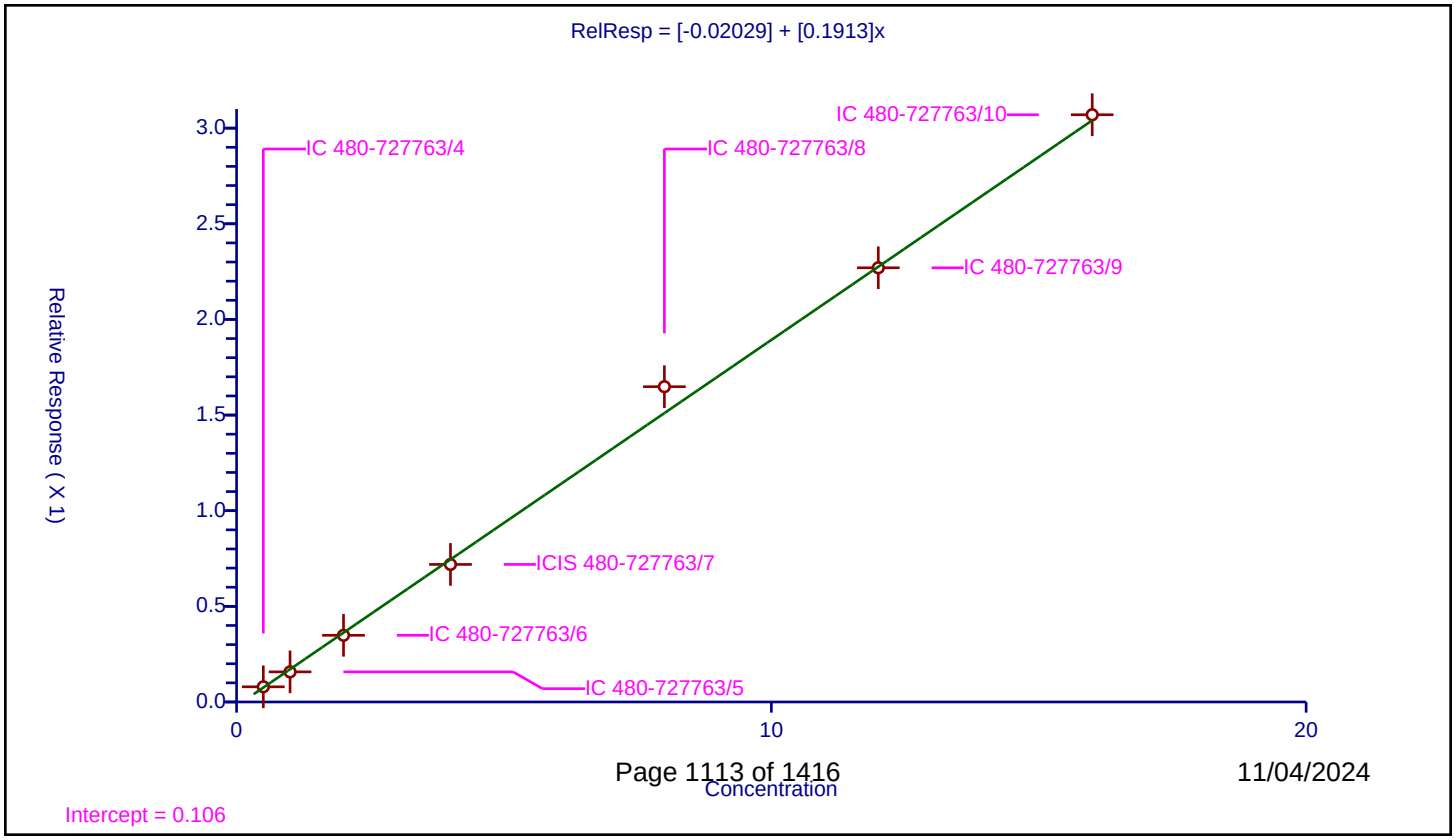
Curve Coefficients

Intercept:	-0.02029
Slope:	0.1913

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.079454	4.0	737081.0	0.158908	Y
2	IC 480-727763/5	1.0	0.157426	4.0	773570.0	0.157426	Y
3	IC 480-727763/6	2.0	0.348641	4.0	759842.0	0.17432	Y
4	ICIS 480-727763/7	4.0	0.719195	4.0	773798.0	0.179799	Y
5	IC 480-727763/8	8.0	1.648368	4.0	688788.0	0.206046	Y
6	IC 480-727763/9	12.0	2.270006	4.0	738627.0	0.189167	Y
7	IC 480-727763/10	16.0	3.070033	4.0	735514.0	0.191877	Y



Calibration / 2,4-Dimethylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

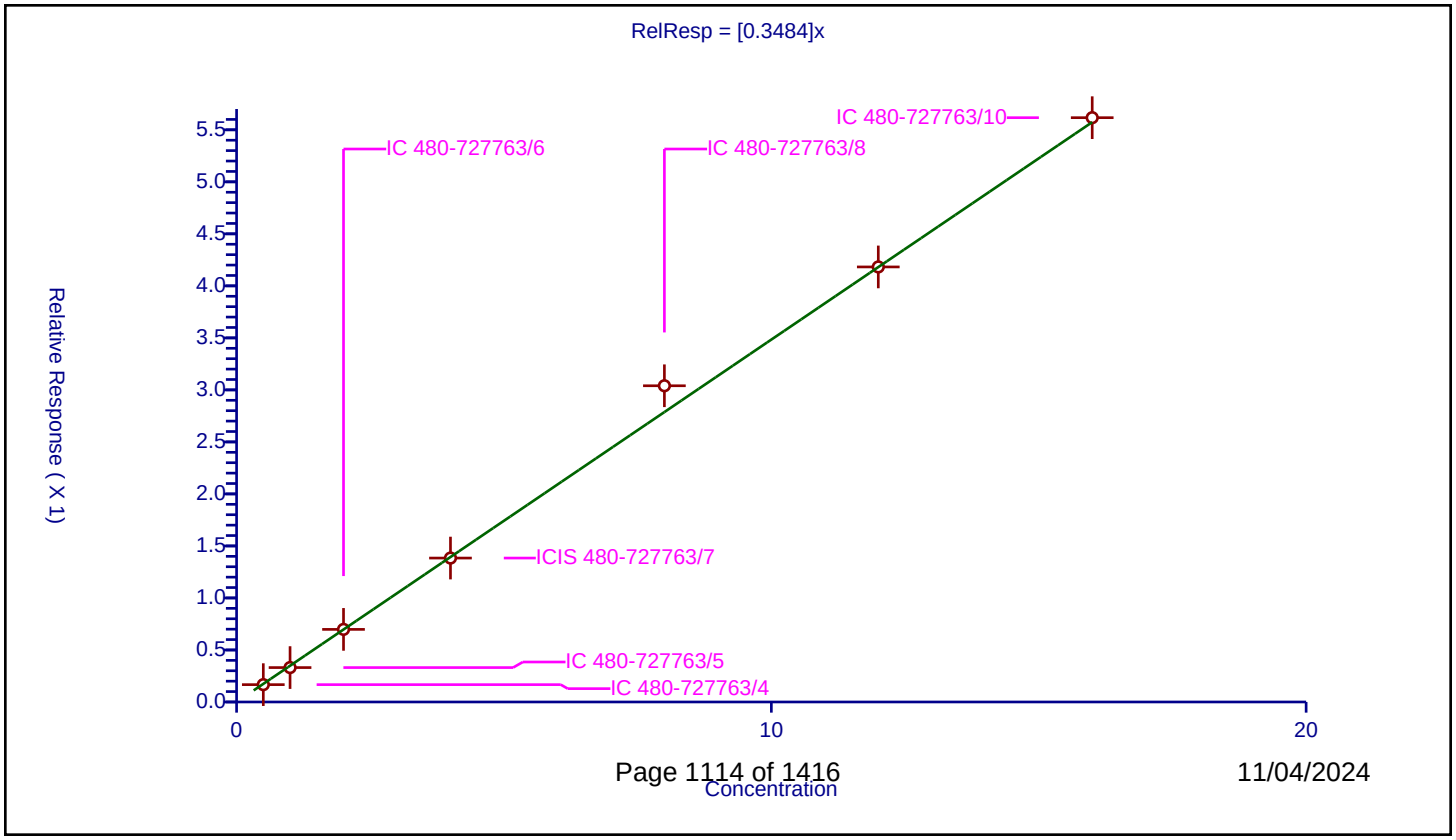
Curve Coefficients

Intercept:	0
Slope:	0.3484

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.166668	4.0	737081.0	0.333336	Y
2	IC 480-727763/5	1.0	0.330788	4.0	773570.0	0.330788	Y
3	IC 480-727763/6	2.0	0.697866	4.0	759842.0	0.348933	Y
4	ICIS 480-727763/7	4.0	1.383581	4.0	773798.0	0.345895	Y
5	IC 480-727763/8	8.0	3.039856	4.0	688788.0	0.379982	Y
6	IC 480-727763/9	12.0	4.182035	4.0	738627.0	0.348503	Y
7	IC 480-727763/10	16.0	5.616622	4.0	735514.0	0.351039	Y



Calibration / Benzoic acid

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

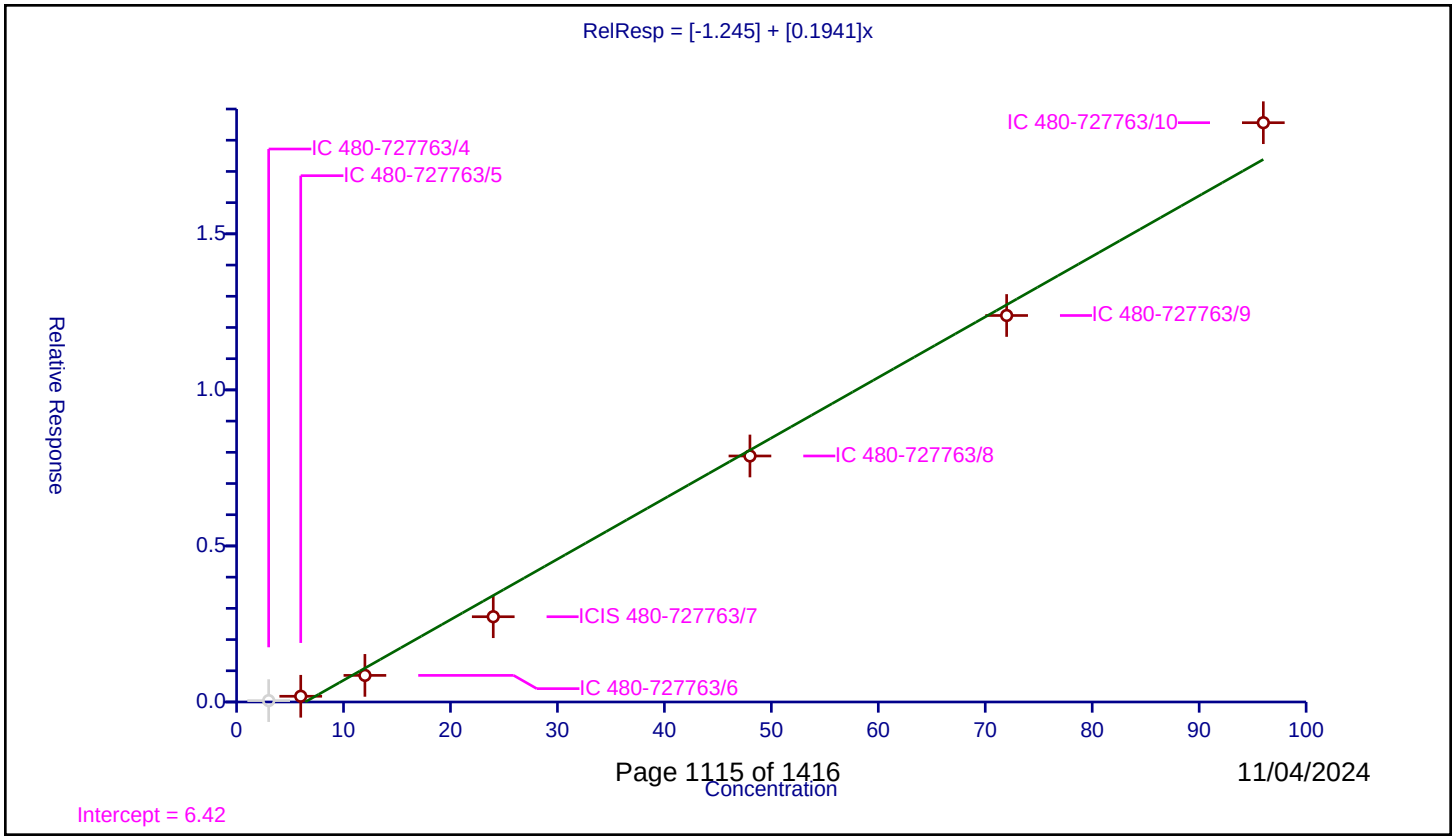
Curve Coefficients

Intercept:	-1.245
Slope:	0.1941

Error Coefficients

Relative Standard Deviation:	14.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	3.0	0.043887	4.0	737081.0	0.014629	N
2	IC 480-727763/5	6.0	0.183451	4.0	773570.0	0.030575	Y
3	IC 480-727763/6	12.0	0.852425	4.0	759842.0	0.071035	Y
4	ICIS 480-727763/7	24.0	2.732475	4.0	773798.0	0.113853	Y
5	IC 480-727763/8	48.0	7.88271	4.0	688788.0	0.164223	Y
6	IC 480-727763/9	72.0	12.384378	4.0	738627.0	0.172005	Y
7	IC 480-727763/10	96.0	18.561338	4.0	735514.0	0.193347	Y



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Calibration / Bis(2-chloroethoxy)methane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

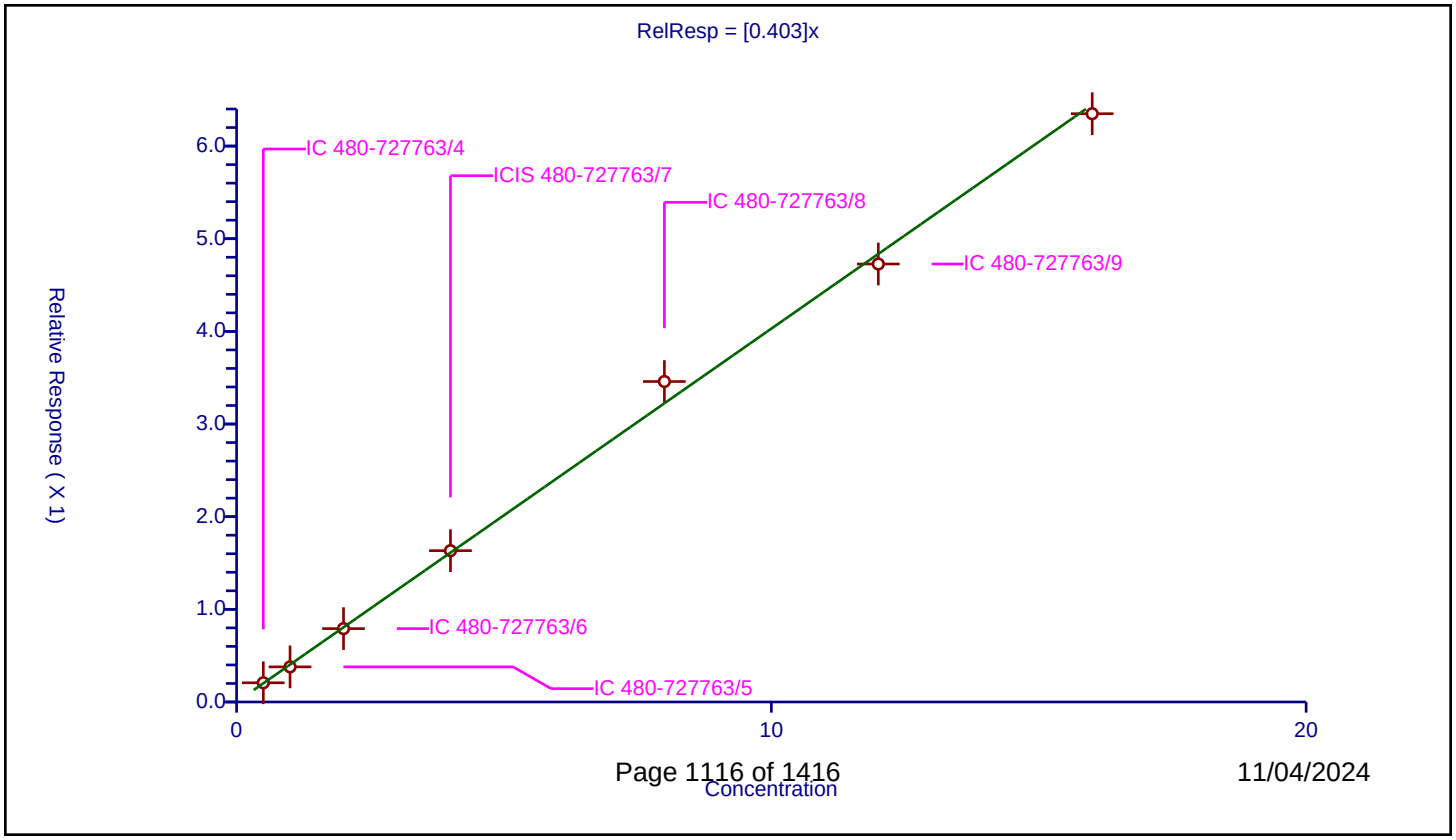
Curve Coefficients

Intercept:	0
Slope:	0.403

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.207288	4.0	737081.0	0.414576	Y
2	IC 480-727763/5	1.0	0.378774	4.0	773570.0	0.378774	Y
3	IC 480-727763/6	2.0	0.791986	4.0	759842.0	0.395993	Y
4	ICIS 480-727763/7	4.0	1.633207	4.0	773798.0	0.408302	Y
5	IC 480-727763/8	8.0	3.458928	4.0	688788.0	0.432366	Y
6	IC 480-727763/9	12.0	4.727144	4.0	738627.0	0.393929	Y
7	IC 480-727763/10	16.0	6.349383	4.0	735514.0	0.396836	Y



Calibration / 2,4-Dichlorophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

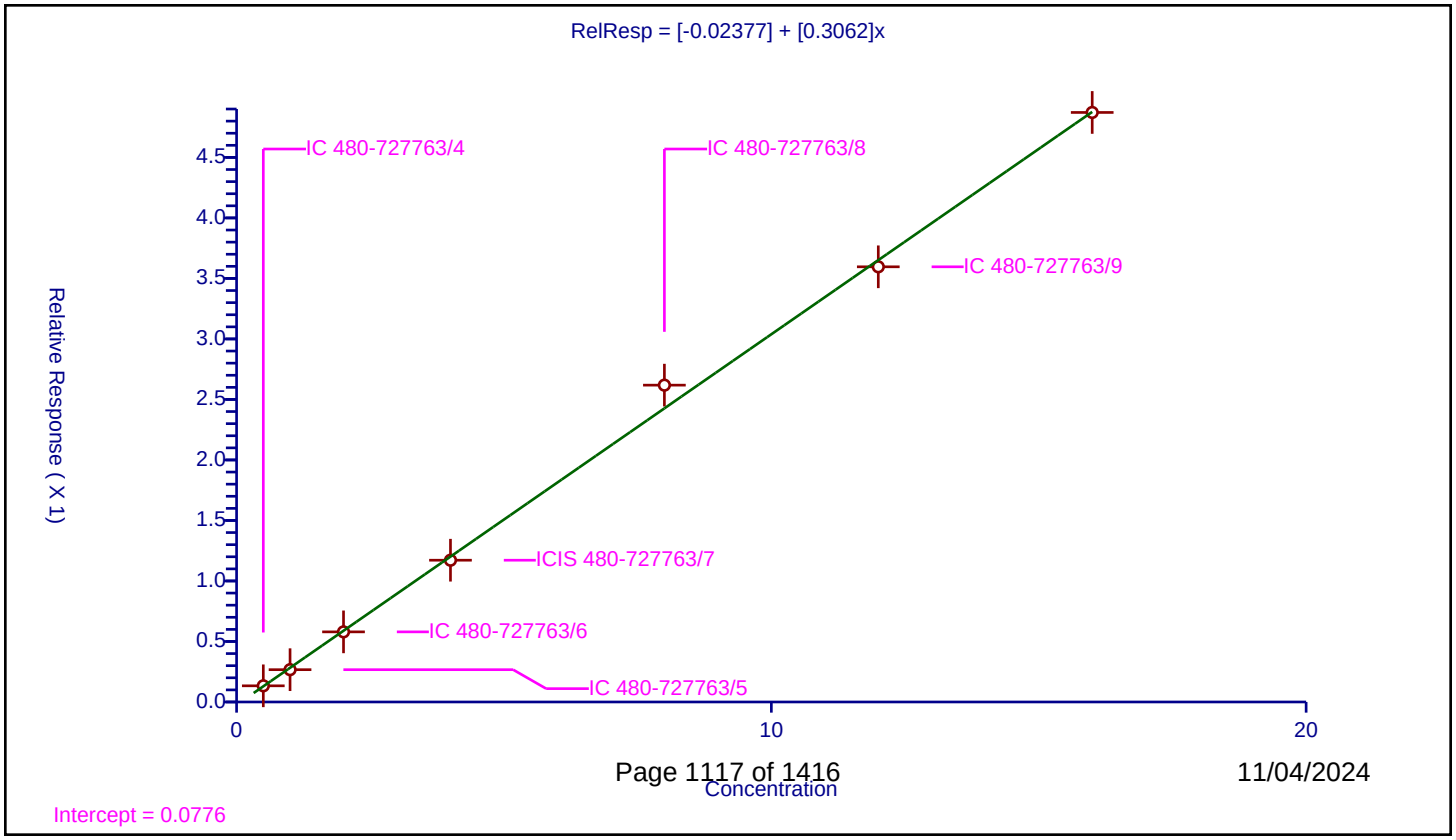
Curve Coefficients

Intercept:	-0.02377
Slope:	0.3062

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.133657	4.0	737081.0	0.267314	Y
2	IC 480-727763/5	1.0	0.266856	4.0	773570.0	0.266856	Y
3	IC 480-727763/6	2.0	0.579442	4.0	759842.0	0.289721	Y
4	ICIS 480-727763/7	4.0	1.171463	4.0	773798.0	0.292866	Y
5	IC 480-727763/8	8.0	2.61817	4.0	688788.0	0.327271	Y
6	IC 480-727763/9	12.0	3.59604	4.0	738627.0	0.29967	Y
7	IC 480-727763/10	16.0	4.871548	4.0	735514.0	0.304472	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

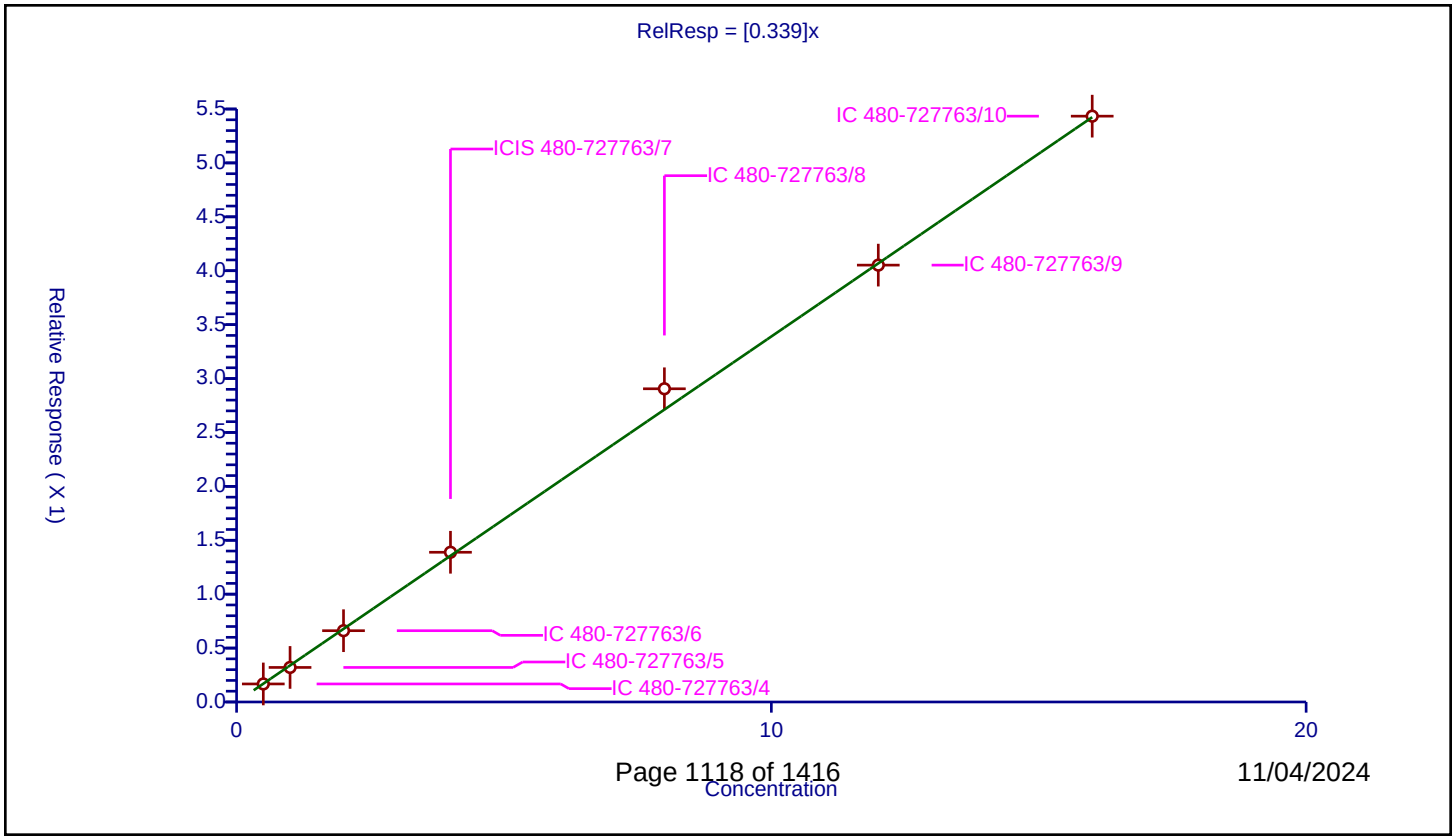
Curve Coefficients

Intercept:	0
Slope:	0.339

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.167243	4.0	737081.0	0.334487	Y
2	IC 480-727763/5	1.0	0.320359	4.0	773570.0	0.320359	Y
3	IC 480-727763/6	2.0	0.661211	4.0	759842.0	0.330606	Y
4	ICIS 480-727763/7	4.0	1.388786	4.0	773798.0	0.347197	Y
5	IC 480-727763/8	8.0	2.905155	4.0	688788.0	0.363144	Y
6	IC 480-727763/9	12.0	4.052097	4.0	738627.0	0.337675	Y
7	IC 480-727763/10	16.0	5.433615	4.0	735514.0	0.339601	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

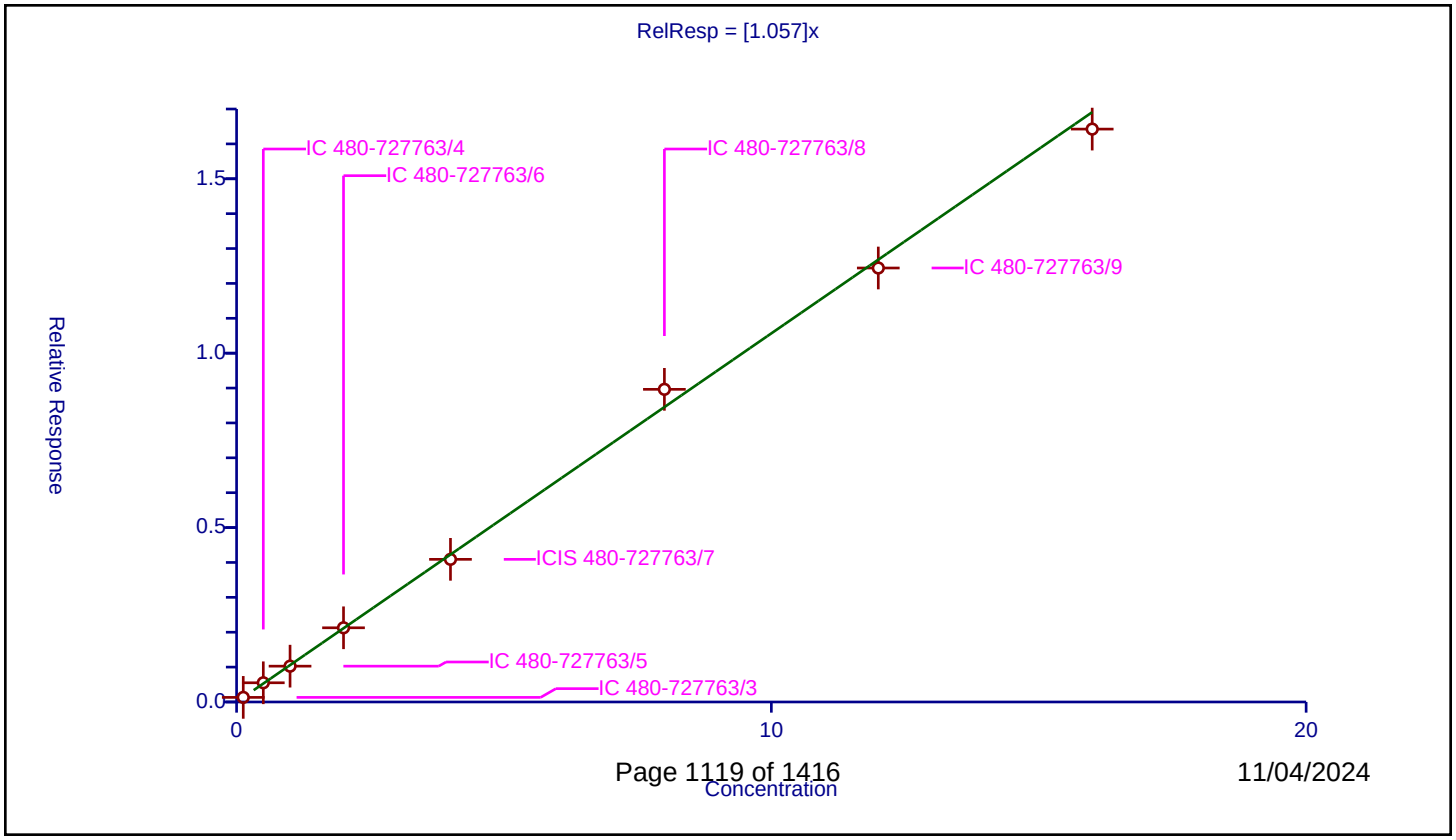
Curve Coefficients

Intercept:	0
Slope:	1.057

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.131924	4.0	729844.0	1.055393	Y
2	IC 480-727763/4	0.5	0.55099	4.0	737081.0	1.101979	Y
3	IC 480-727763/5	1.0	1.027025	4.0	773570.0	1.027025	Y
4	IC 480-727763/6	2.0	2.127479	4.0	759842.0	1.06374	Y
5	ICIS 480-727763/7	4.0	4.08961	4.0	773798.0	1.022402	Y
6	IC 480-727763/8	8.0	8.963368	4.0	688788.0	1.120421	Y
7	IC 480-727763/9	12.0	12.442069	4.0	738627.0	1.036839	Y
8	IC 480-727763/10	16.0	16.424302	4.0	735514.0	1.026519	Y



Calibration / 4-Chloroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

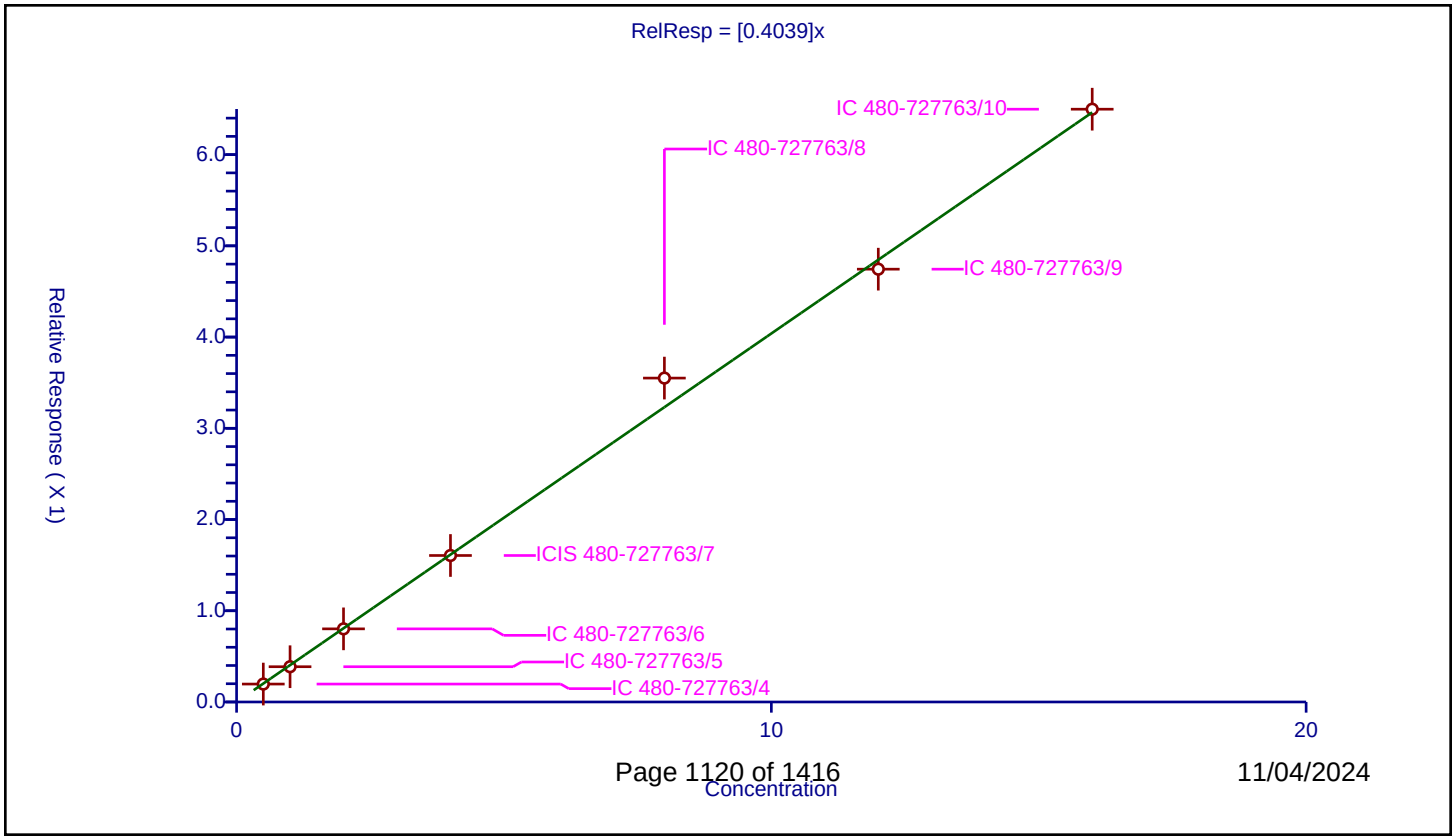
Curve Coefficients

Intercept:	0
Slope:	0.4039

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.196684	4.0	737081.0	0.393368	Y
2	IC 480-727763/5	1.0	0.38652	4.0	773570.0	0.38652	Y
3	IC 480-727763/6	2.0	0.801677	4.0	759842.0	0.400839	Y
4	ICIS 480-727763/7	4.0	1.605949	4.0	773798.0	0.401487	Y
5	IC 480-727763/8	8.0	3.550544	4.0	688788.0	0.443818	Y
6	IC 480-727763/9	12.0	4.744365	4.0	738627.0	0.395364	Y
7	IC 480-727763/10	16.0	6.497937	4.0	735514.0	0.406121	Y



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Calibration / 2,6-Dichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

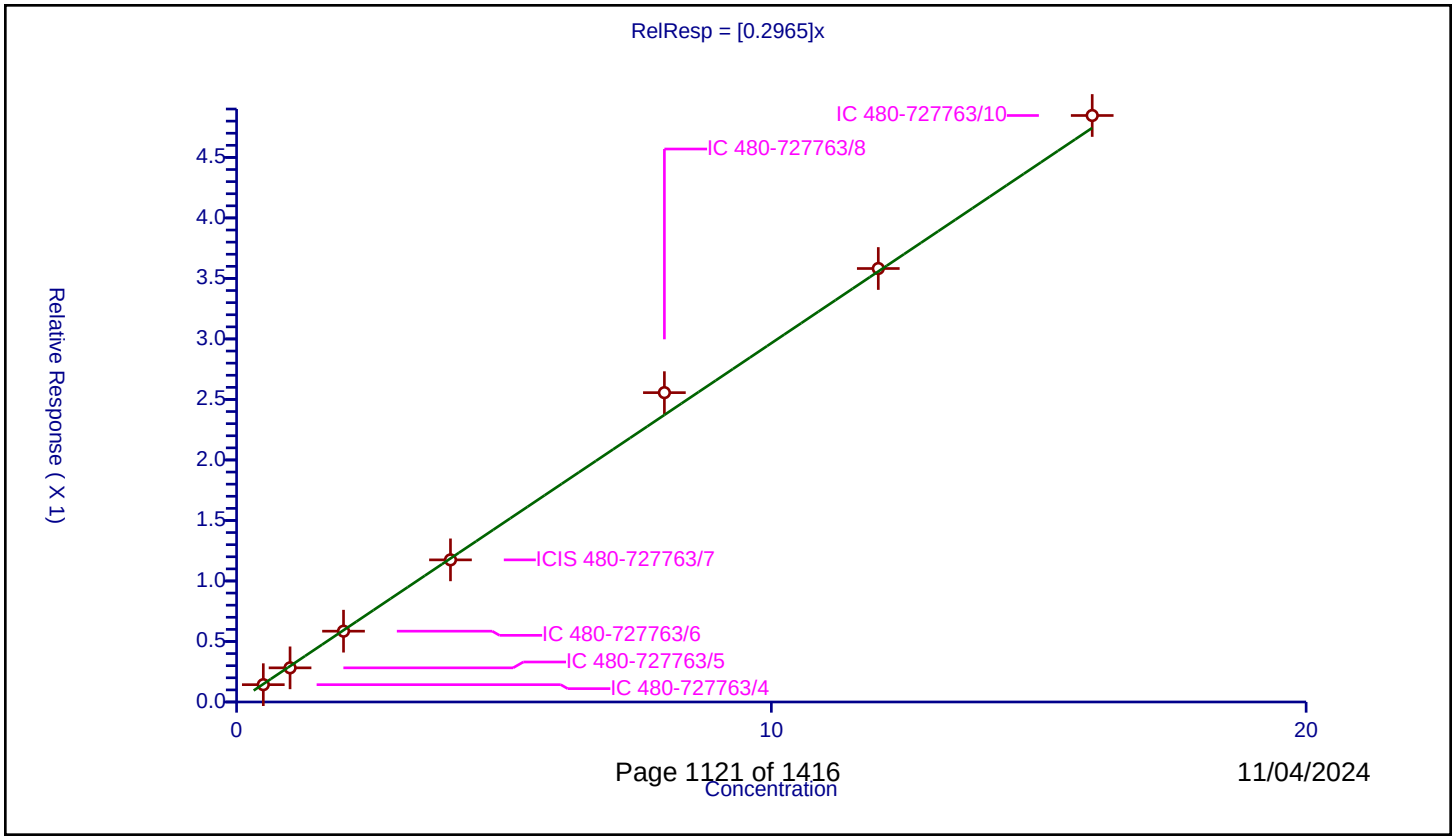
Curve Coefficients

Intercept:	0
Slope:	0.2965

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.14311	4.0	737081.0	0.286221	Y
2	IC 480-727763/5	1.0	0.282126	4.0	773570.0	0.282126	Y
3	IC 480-727763/6	2.0	0.585216	4.0	759842.0	0.292608	Y
4	ICIS 480-727763/7	4.0	1.174317	4.0	773798.0	0.293579	Y
5	IC 480-727763/8	8.0	2.556229	4.0	688788.0	0.319529	Y
6	IC 480-727763/9	12.0	3.582052	4.0	738627.0	0.298504	Y
7	IC 480-727763/10	16.0	4.846428	4.0	735514.0	0.302902	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

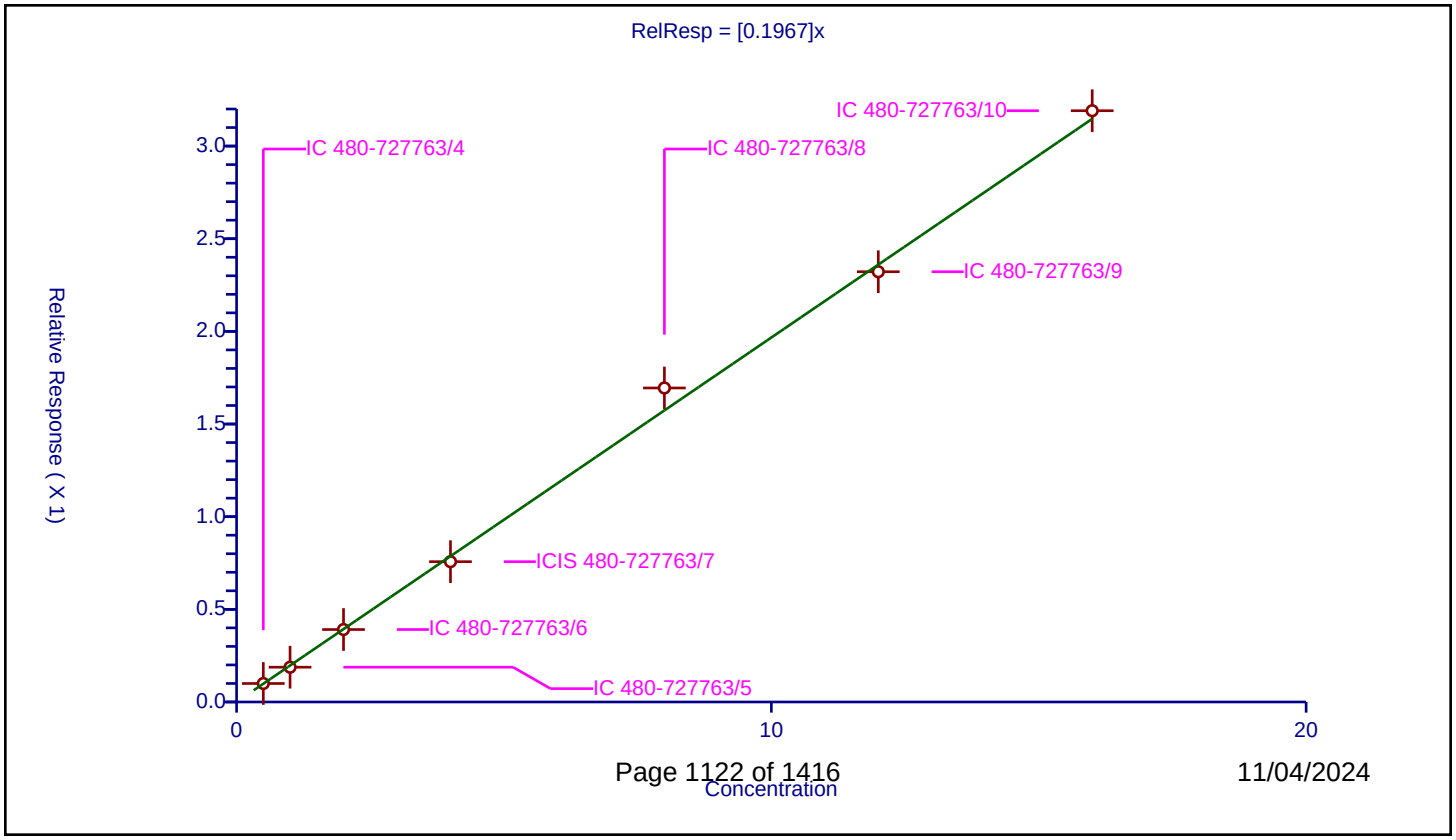
Curve Coefficients

Intercept:	0
Slope:	0.1967

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.099734	4.0	737081.0	0.199468	Y
2	IC 480-727763/5	1.0	0.187722	4.0	773570.0	0.187722	Y
3	IC 480-727763/6	2.0	0.391039	4.0	759842.0	0.19552	Y
4	ICIS 480-727763/7	4.0	0.757154	4.0	773798.0	0.189288	Y
5	IC 480-727763/8	8.0	1.6946	4.0	688788.0	0.211825	Y
6	IC 480-727763/9	12.0	2.32193	4.0	738627.0	0.193494	Y
7	IC 480-727763/10	16.0	3.19083	4.0	735514.0	0.199427	Y



11/04/2024

Calibration / Caprolactam

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

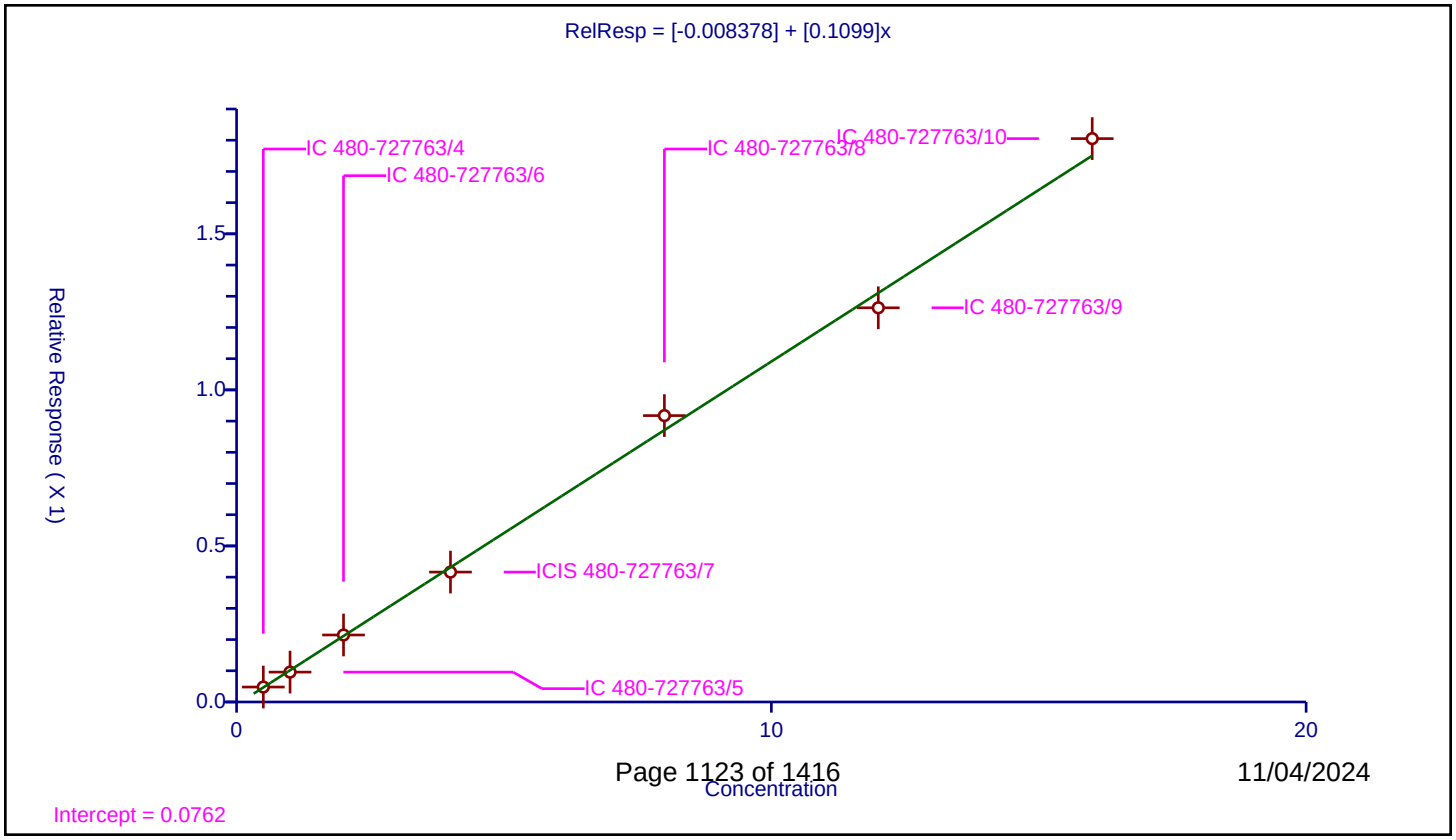
Curve Coefficients

Intercept:	-0.008378
Slope:	0.1099

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.047908	4.0	737081.0	0.095816	Y
2	IC 480-727763/5	1.0	0.095779	4.0	773570.0	0.095779	Y
3	IC 480-727763/6	2.0	0.214713	4.0	759842.0	0.107357	Y
4	ICIS 480-727763/7	4.0	0.416259	4.0	773798.0	0.104065	Y
5	IC 480-727763/8	8.0	0.9176	4.0	688788.0	0.1147	Y
6	IC 480-727763/9	12.0	1.263106	4.0	738627.0	0.105259	Y
7	IC 480-727763/10	16.0	1.805127	4.0	735514.0	0.11282	Y



Calibration / 4-Chloro-3-methylphenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

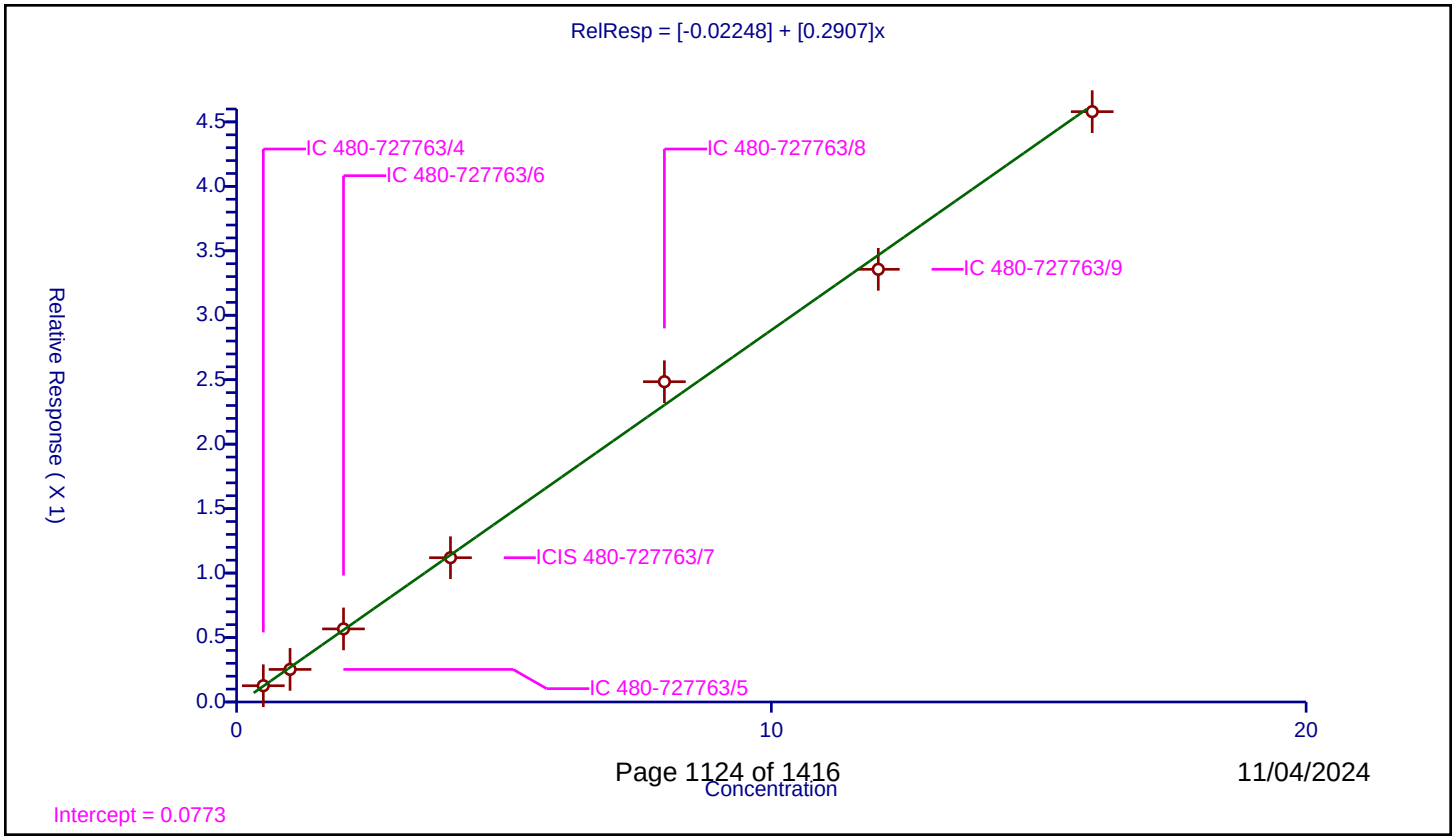
Curve Coefficients

Intercept:	-0.02248
Slope:	0.2907

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.126141	4.0	737081.0	0.252282	Y
2	IC 480-727763/5	1.0	0.252688	4.0	773570.0	0.252688	Y
3	IC 480-727763/6	2.0	0.56696	4.0	759842.0	0.28348	Y
4	ICIS 480-727763/7	4.0	1.11929	4.0	773798.0	0.279822	Y
5	IC 480-727763/8	8.0	2.484521	4.0	688788.0	0.310565	Y
6	IC 480-727763/9	12.0	3.356449	4.0	738627.0	0.279704	Y
7	IC 480-727763/10	16.0	4.579519	4.0	735514.0	0.28622	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

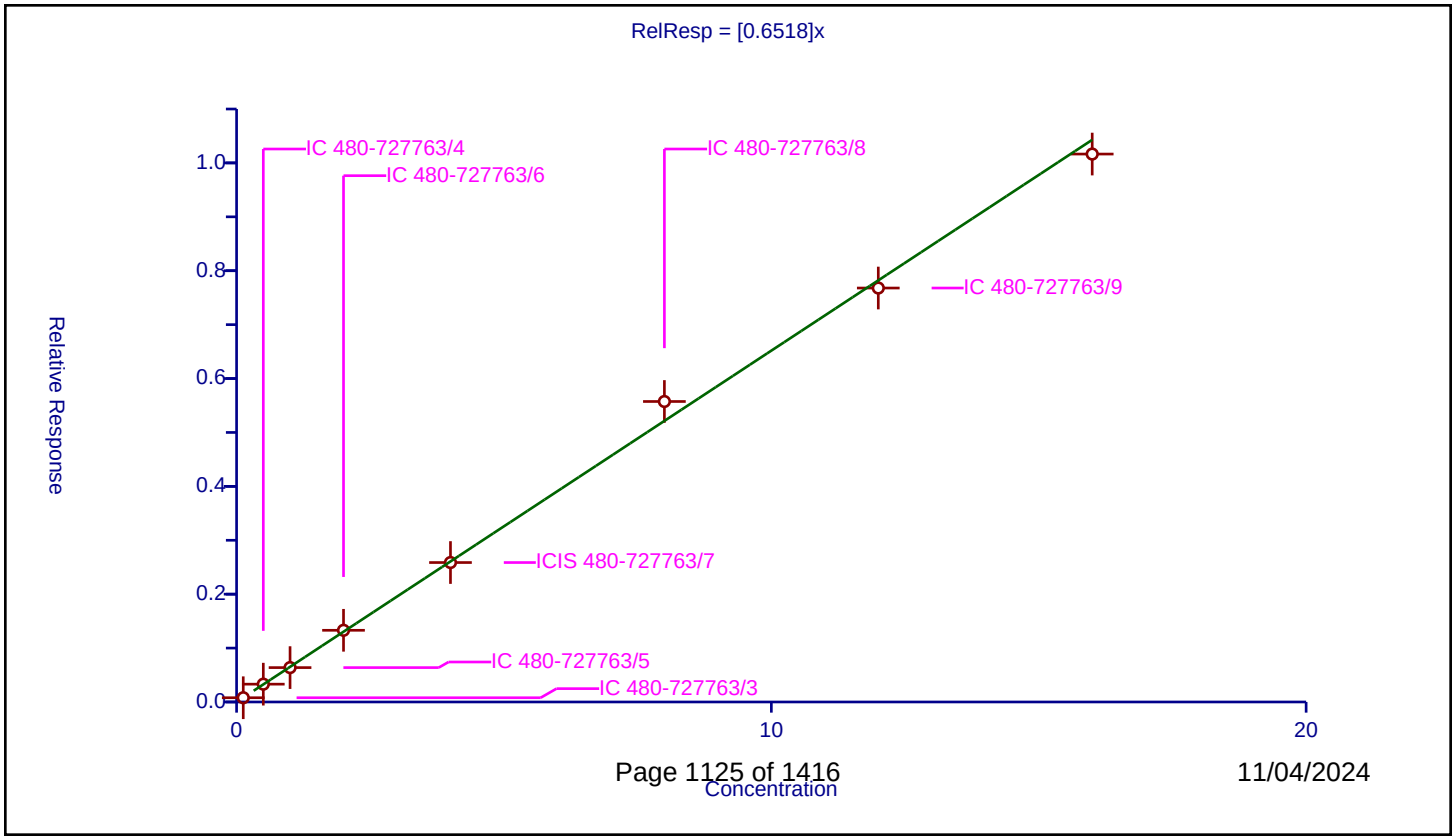
Curve Coefficients

Intercept:	0
Slope:	0.6518

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.078959	4.0	729844.0	0.631675	Y
2	IC 480-727763/4	0.5	0.330531	4.0	737081.0	0.661062	Y
3	IC 480-727763/5	1.0	0.637729	4.0	773570.0	0.637729	Y
4	IC 480-727763/6	2.0	1.330003	4.0	759842.0	0.665001	Y
5	ICIS 480-727763/7	4.0	2.586701	4.0	773798.0	0.646675	Y
6	IC 480-727763/8	8.0	5.57418	4.0	688788.0	0.696772	Y
7	IC 480-727763/9	12.0	7.679178	4.0	738627.0	0.639931	Y
8	IC 480-727763/10	16.0	10.164239	4.0	735514.0	0.635265	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

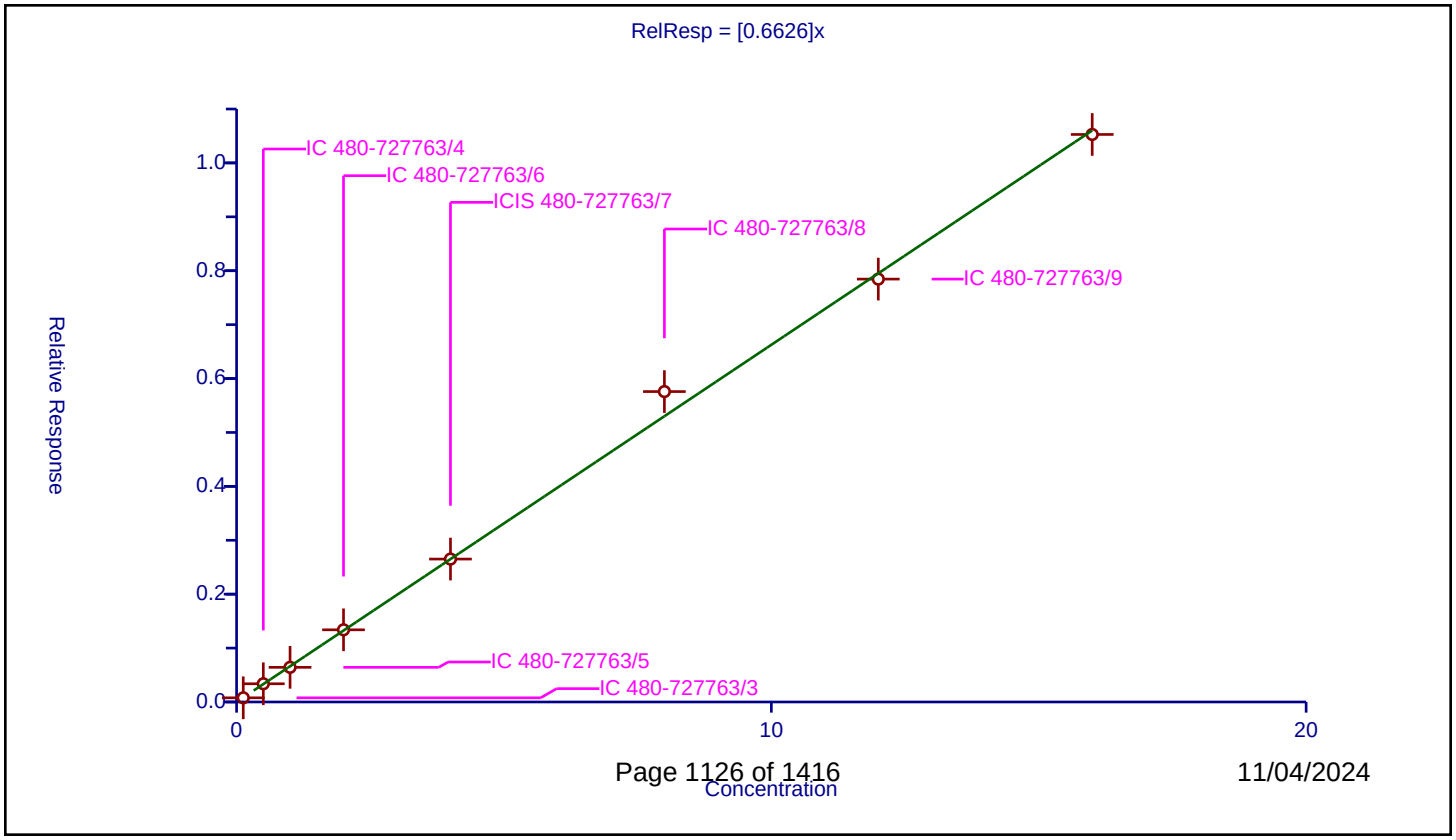
Curve Coefficients

Intercept:	0
Slope:	0.6626

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.077255	4.0	729844.0	0.618039	Y
2	IC 480-727763/4	0.5	0.338101	4.0	737081.0	0.676202	Y
3	IC 480-727763/5	1.0	0.642931	4.0	773570.0	0.642931	Y
4	IC 480-727763/6	2.0	1.338741	4.0	759842.0	0.669371	Y
5	ICIS 480-727763/7	4.0	2.651183	4.0	773798.0	0.662796	Y
6	IC 480-727763/8	8.0	5.758259	4.0	688788.0	0.719782	Y
7	IC 480-727763/9	12.0	7.845048	4.0	738627.0	0.653754	Y
8	IC 480-727763/10	16.0	10.528039	4.0	735514.0	0.658002	Y



Calibration / Hexachlorocyclopentadiene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

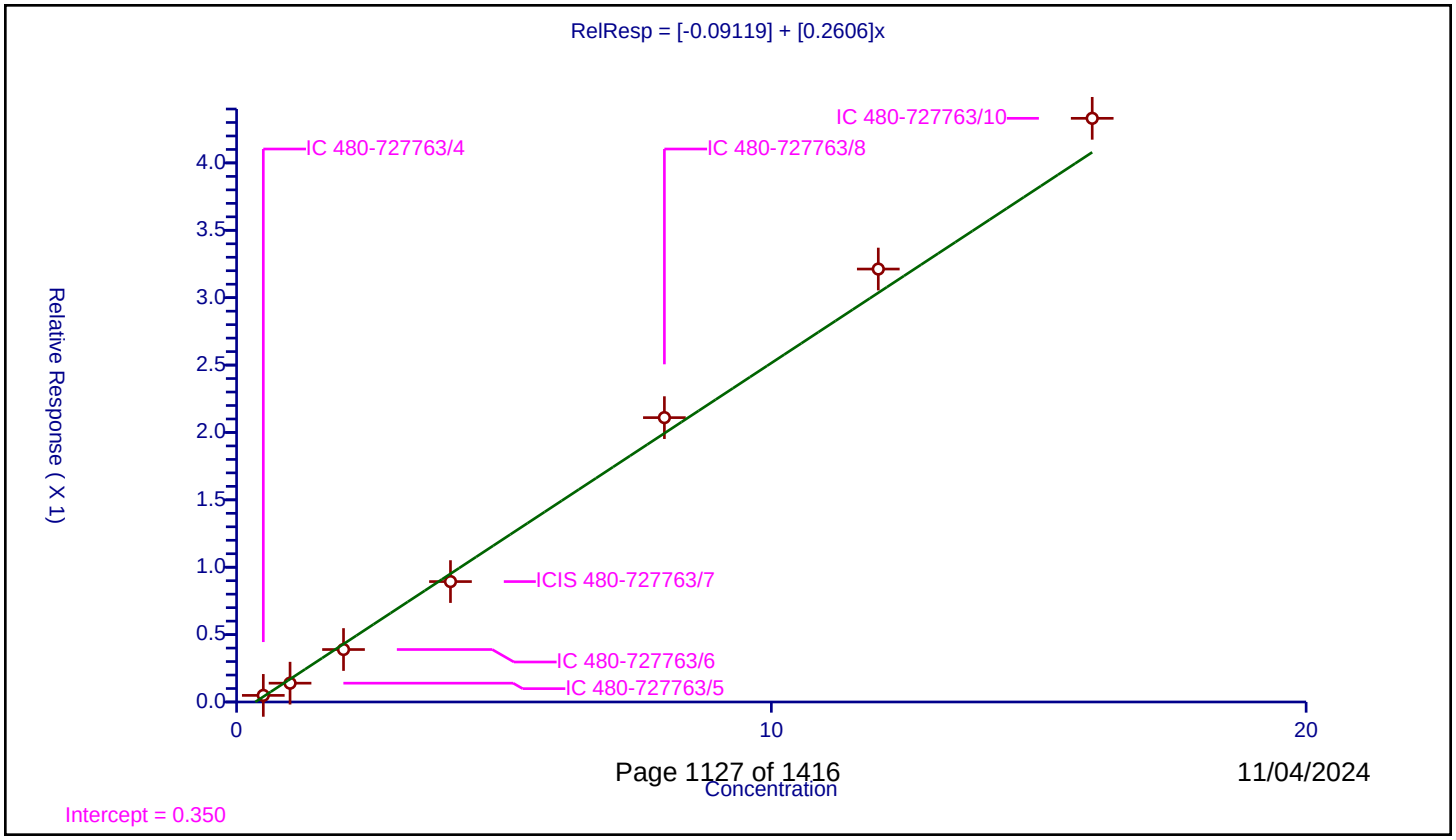
Curve Coefficients

Intercept:	-0.09119
Slope:	0.2606

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.049058	4.0	425703.0	0.098115	Y
2	IC 480-727763/5	1.0	0.139525	4.0	436509.0	0.139525	Y
3	IC 480-727763/6	2.0	0.389257	4.0	440182.0	0.194629	Y
4	ICIS 480-727763/7	4.0	0.893452	4.0	455089.0	0.223363	Y
5	IC 480-727763/8	8.0	2.110106	4.0	415416.0	0.263763	Y
6	IC 480-727763/9	12.0	3.212601	4.0	433234.0	0.267717	Y
7	IC 480-727763/10	16.0	4.330892	4.0	438004.0	0.270681	Y



Calibration / 1,2,4,5-Tetrachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

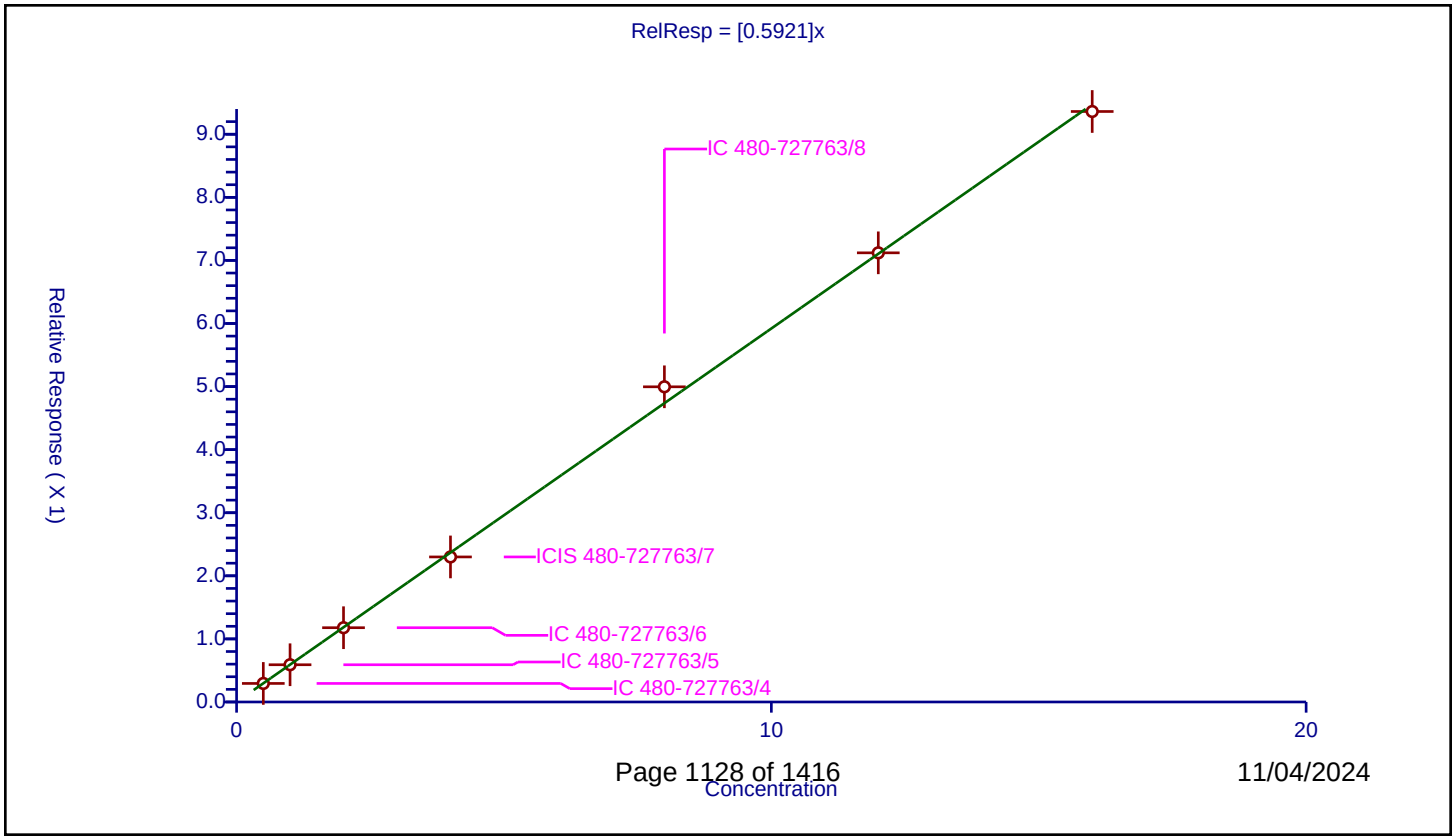
Curve Coefficients

Intercept:	0
Slope:	0.5921

Error Coefficients

Relative Standard Deviation:	2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.293848	4.0	425703.0	0.587696	Y
2	IC 480-727763/5	1.0	0.590192	4.0	436509.0	0.590192	Y
3	IC 480-727763/6	2.0	1.177468	4.0	440182.0	0.588734	Y
4	ICIS 480-727763/7	4.0	2.299339	4.0	455089.0	0.574835	Y
5	IC 480-727763/8	8.0	4.996534	4.0	415416.0	0.624567	Y
6	IC 480-727763/9	12.0	7.120429	4.0	433234.0	0.593369	Y
7	IC 480-727763/10	16.0	9.360599	4.0	438004.0	0.585037	Y



Calibration / 2,4,6-Trichlorophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

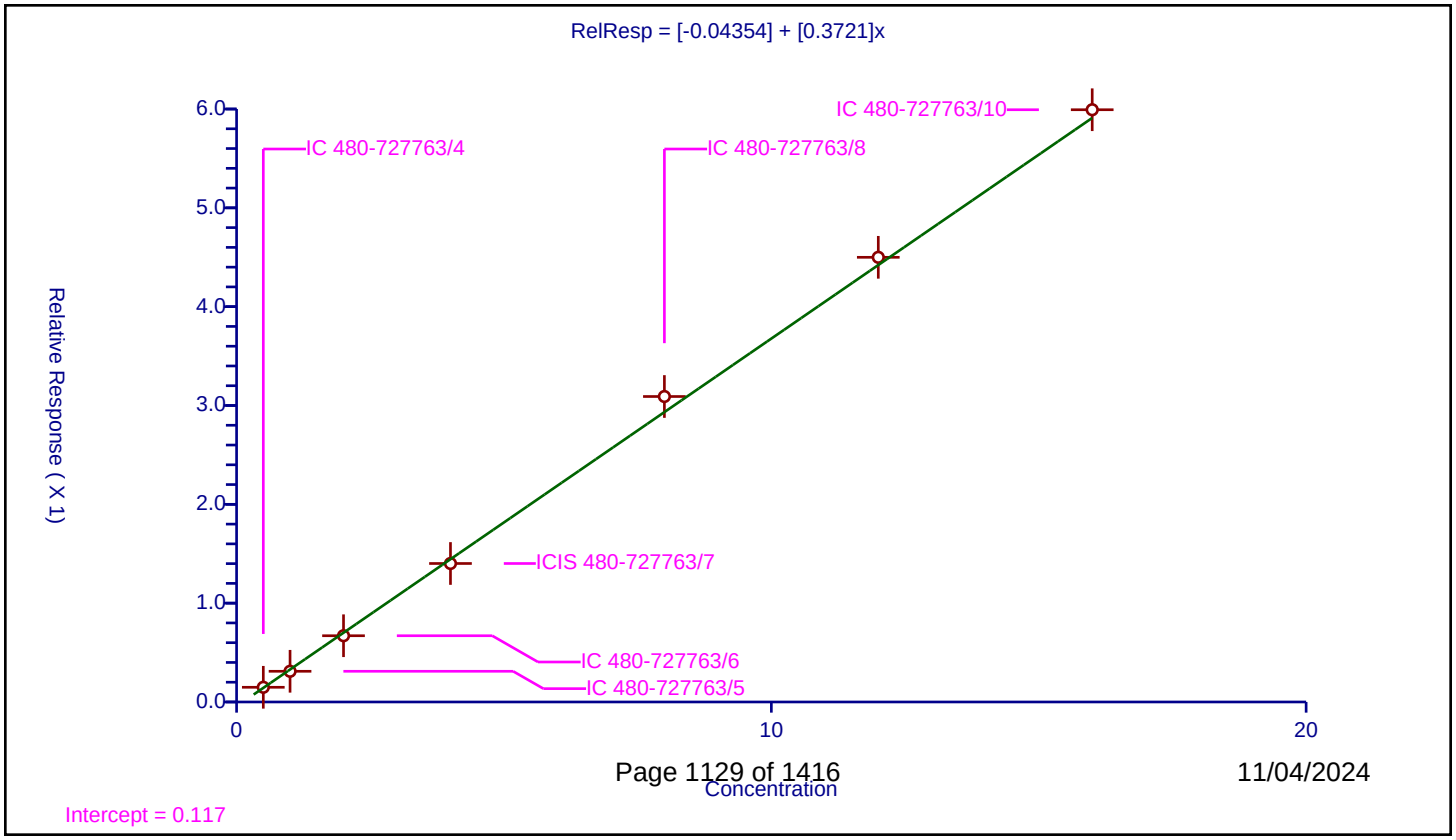
Curve Coefficients

Intercept:	-0.04354
Slope:	0.3721

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.148714	4.0	425703.0	0.297428	Y
2	IC 480-727763/5	1.0	0.310592	4.0	436509.0	0.310592	Y
3	IC 480-727763/6	2.0	0.670423	4.0	440182.0	0.335211	Y
4	ICIS 480-727763/7	4.0	1.401335	4.0	455089.0	0.350334	Y
5	IC 480-727763/8	8.0	3.091022	4.0	415416.0	0.386378	Y
6	IC 480-727763/9	12.0	4.499601	4.0	433234.0	0.374967	Y
7	IC 480-727763/10	16.0	5.992685	4.0	438004.0	0.374543	Y



Calibration / 2,4,5-Trichlorophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

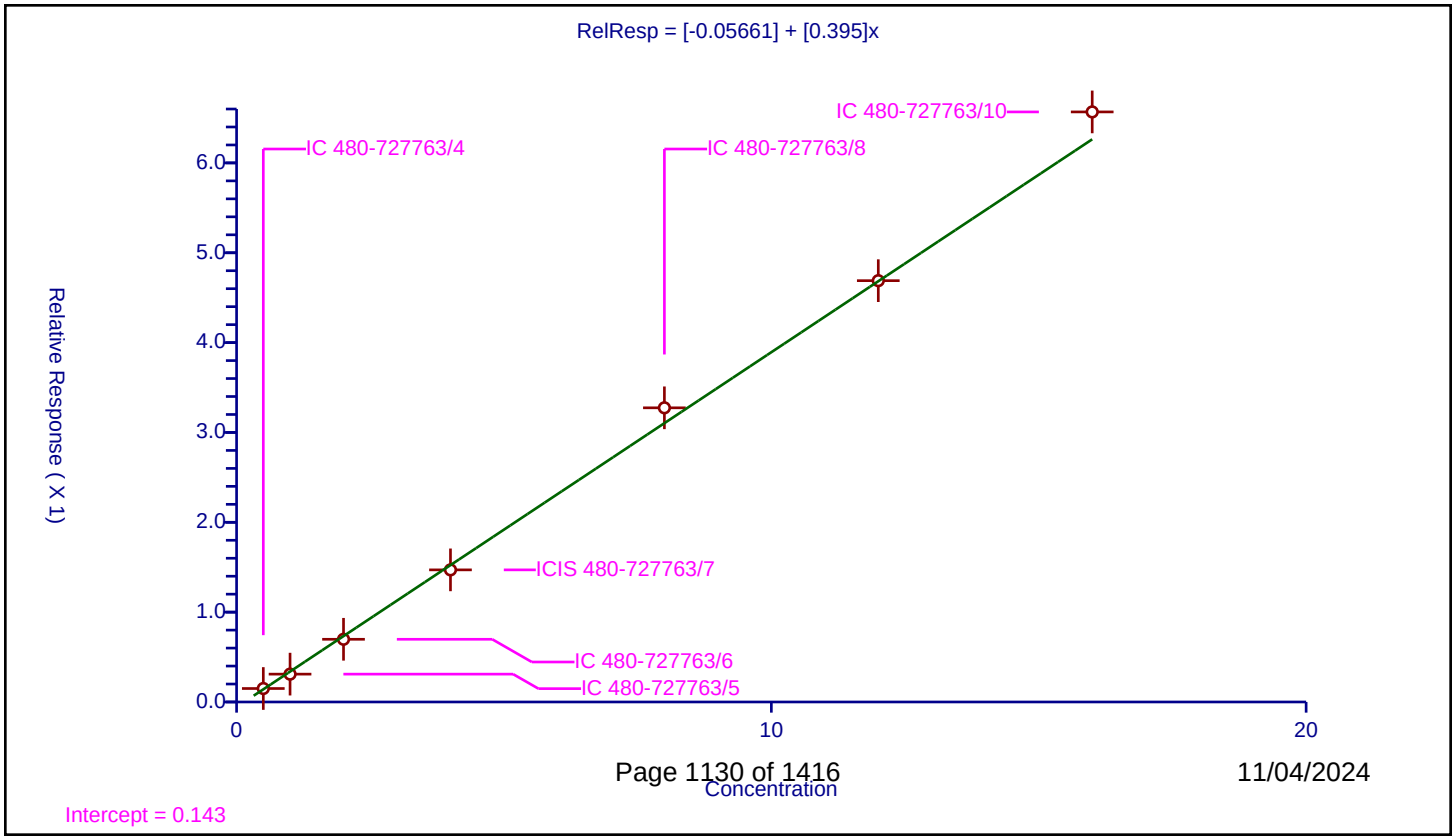
Curve Coefficients

Intercept:	-0.05661
Slope:	0.395

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.150048	4.0	425703.0	0.300097	Y
2	IC 480-727763/5	1.0	0.309904	4.0	436509.0	0.309904	Y
3	IC 480-727763/6	2.0	0.697993	4.0	440182.0	0.348997	Y
4	ICIS 480-727763/7	4.0	1.470596	4.0	455089.0	0.367649	Y
5	IC 480-727763/8	8.0	3.27427	4.0	415416.0	0.409284	Y
6	IC 480-727763/9	12.0	4.689429	4.0	433234.0	0.390786	Y
7	IC 480-727763/10	16.0	6.567529	4.0	438004.0	0.410471	Y



Calibration / 2-Fluorobiphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

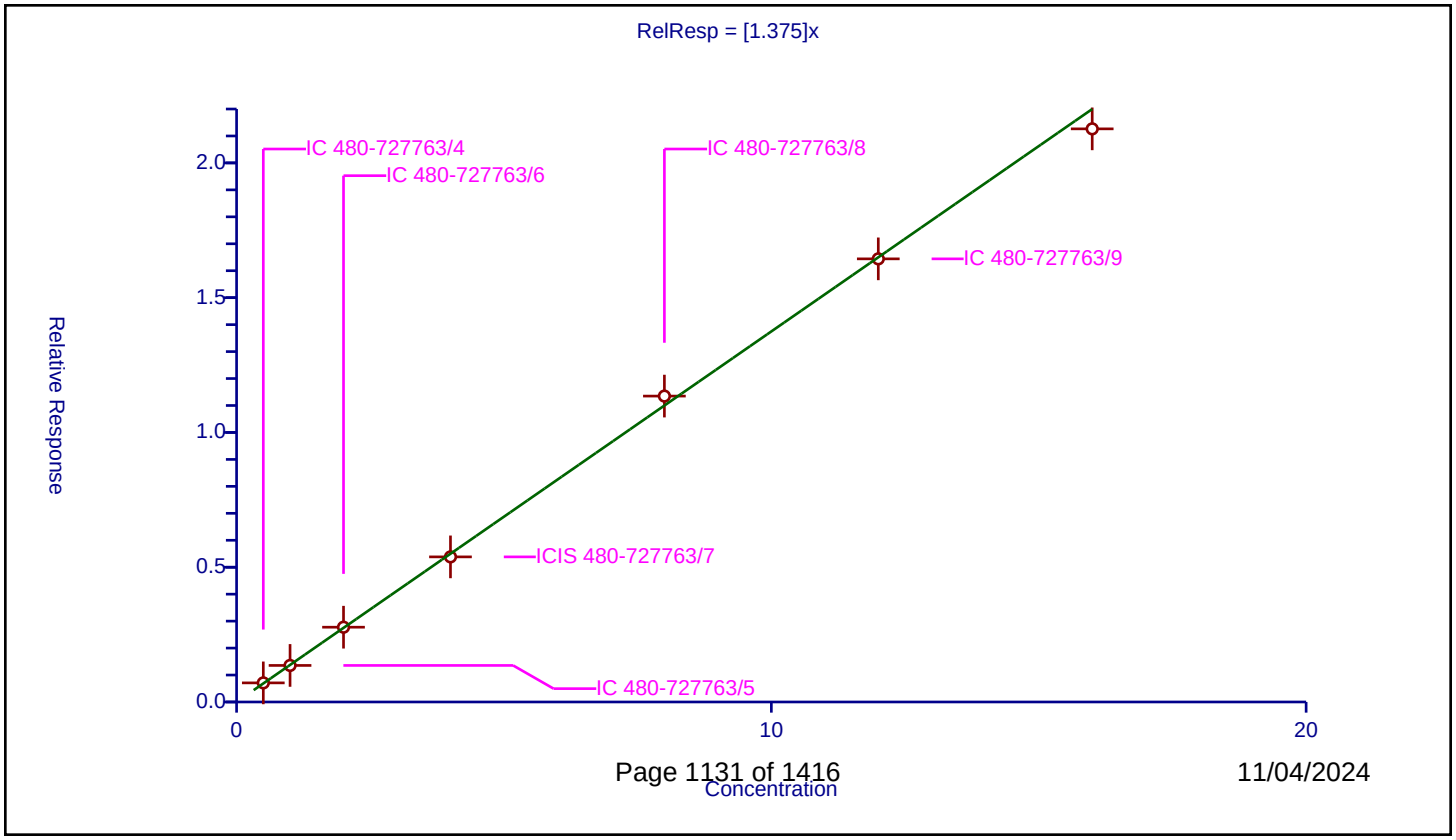
Curve Coefficients

Intercept:	0
Slope:	1.375

Error Coefficients

Relative Standard Deviation:	2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.708503	4.0	425703.0	1.417007	Y
2	IC 480-727763/5	1.0	1.355821	4.0	436509.0	1.355821	Y
3	IC 480-727763/6	2.0	2.774616	4.0	440182.0	1.387308	Y
4	ICIS 480-727763/7	4.0	5.383764	4.0	455089.0	1.345941	Y
5	IC 480-727763/8	8.0	11.349491	4.0	415416.0	1.418686	Y
6	IC 480-727763/9	12.0	16.440686	4.0	433234.0	1.370057	Y
7	IC 480-727763/10	16.0	21.263815	4.0	438004.0	1.328988	Y



Calibration / 1,1'-Biphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

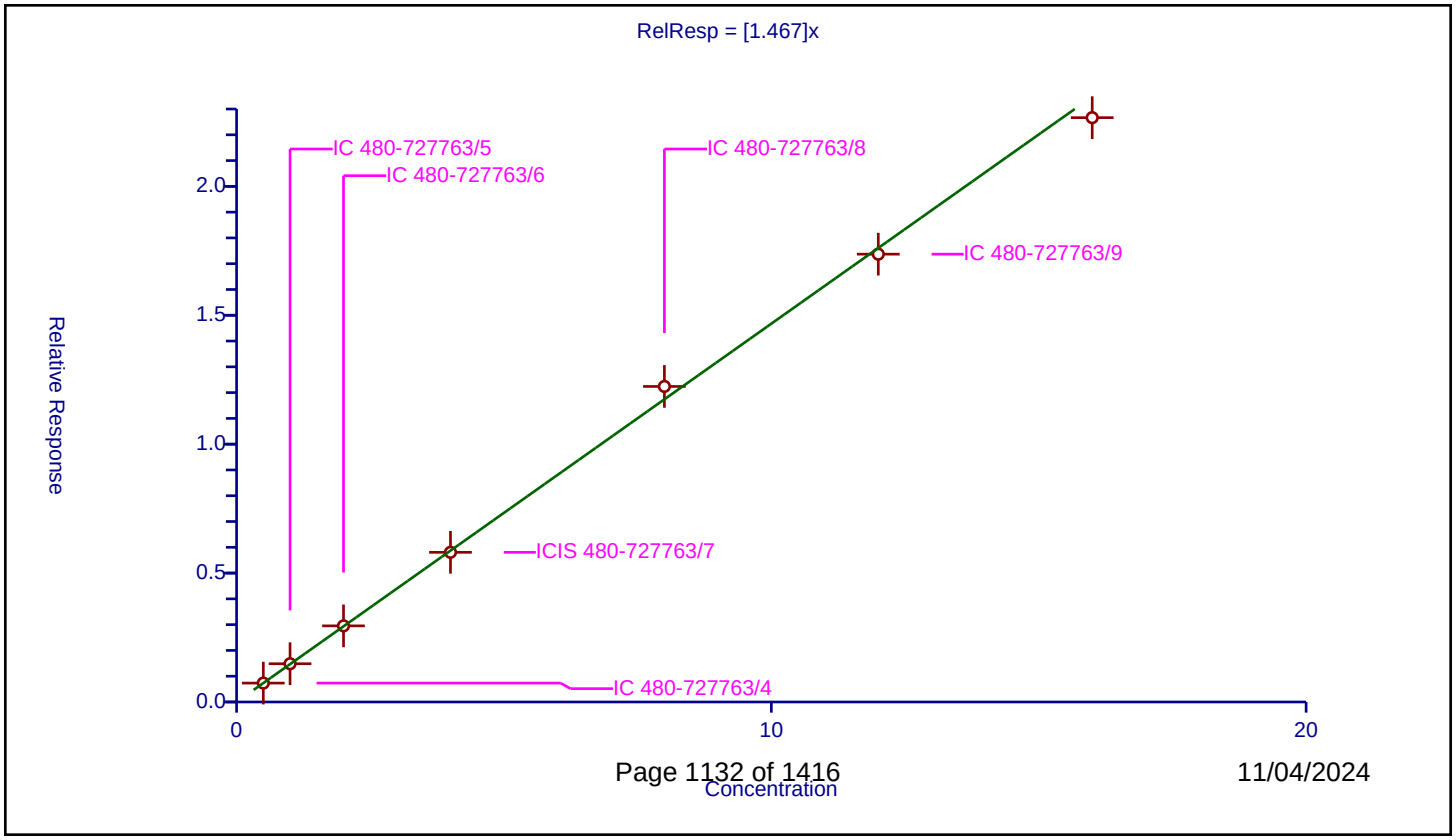
Curve Coefficients

Intercept:	0
Slope:	1.467

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.733234	4.0	425703.0	1.466468	Y
2	IC 480-727763/5	1.0	1.483699	4.0	436509.0	1.483699	Y
3	IC 480-727763/6	2.0	2.952879	4.0	440182.0	1.476439	Y
4	ICIS 480-727763/7	4.0	5.805502	4.0	455089.0	1.451375	Y
5	IC 480-727763/8	8.0	12.238951	4.0	415416.0	1.529869	Y
6	IC 480-727763/9	12.0	17.370206	4.0	433234.0	1.447517	Y
7	IC 480-727763/10	16.0	22.664871	4.0	438004.0	1.416554	Y



11/04/2024

Calibration / 2-Chloronaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

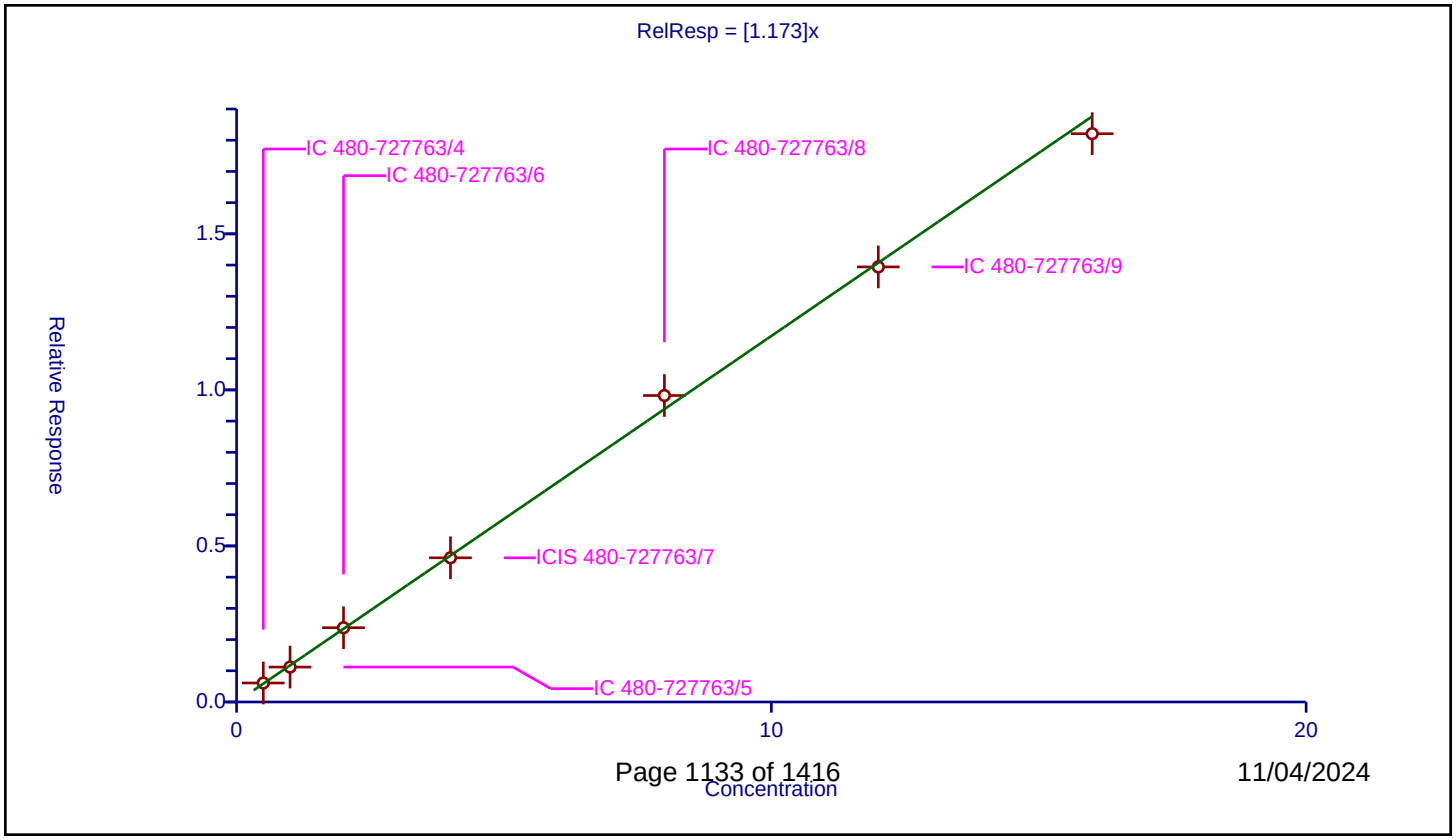
Curve Coefficients

Intercept:	0
Slope:	1.173

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.609035	4.0	425703.0	1.21807	Y
2	IC 480-727763/5	1.0	1.118951	4.0	436509.0	1.118951	Y
3	IC 480-727763/6	2.0	2.379752	4.0	440182.0	1.189876	Y
4	ICIS 480-727763/7	4.0	4.620028	4.0	455089.0	1.155007	Y
5	IC 480-727763/8	8.0	9.819766	4.0	415416.0	1.227471	Y
6	IC 480-727763/9	12.0	13.940965	4.0	433234.0	1.161747	Y
7	IC 480-727763/10	16.0	18.209131	4.0	438004.0	1.138071	Y



Calibration / 2-Nitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

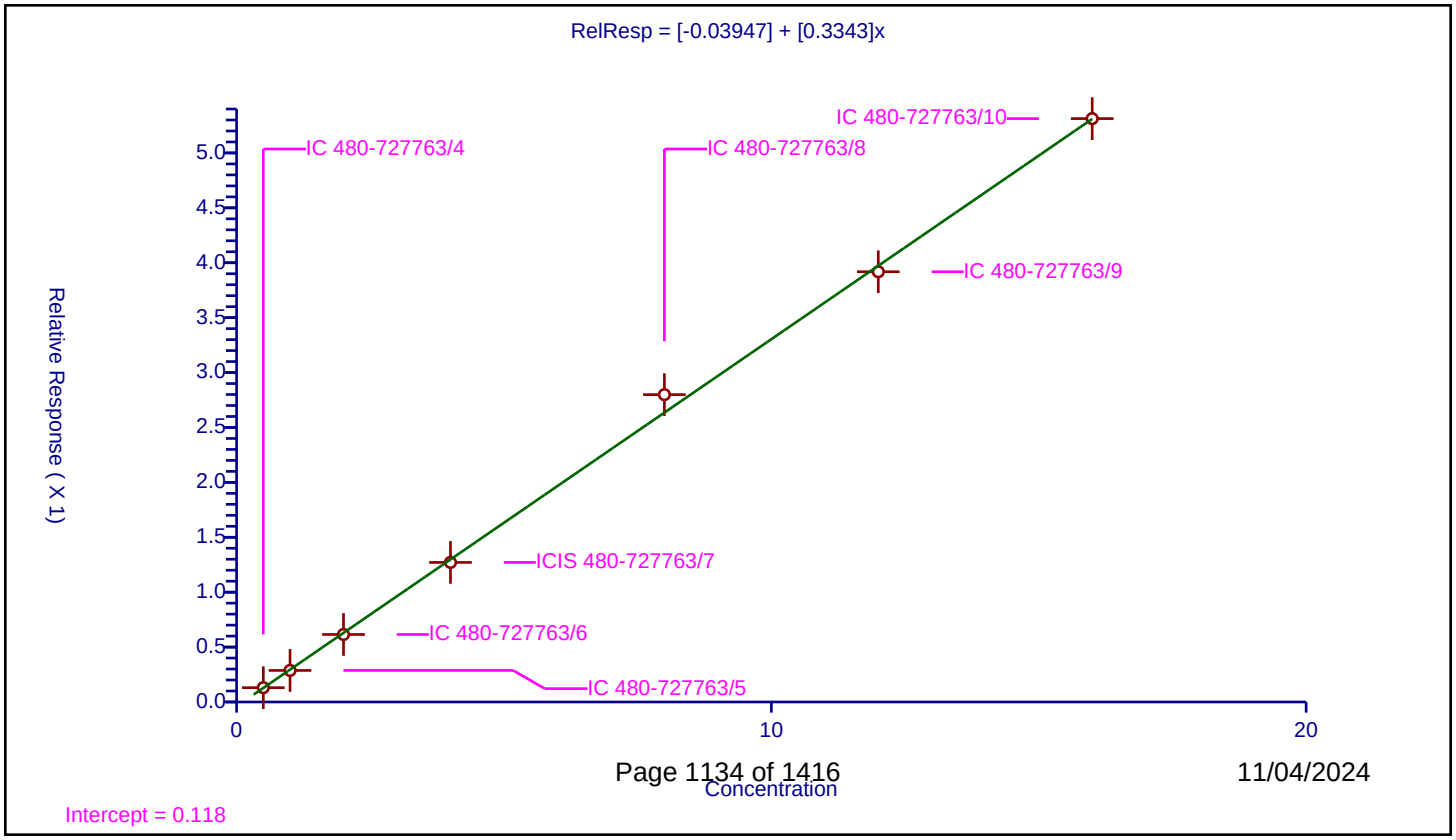
Curve Coefficients

Intercept:	-0.03947
Slope:	0.3343

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.130344	4.0	425703.0	0.260689	Y
2	IC 480-727763/5	1.0	0.287298	4.0	436509.0	0.287298	Y
3	IC 480-727763/6	2.0	0.614809	4.0	440182.0	0.307405	Y
4	ICIS 480-727763/7	4.0	1.270925	4.0	455089.0	0.317731	Y
5	IC 480-727763/8	8.0	2.798843	4.0	415416.0	0.349855	Y
6	IC 480-727763/9	12.0	3.918252	4.0	433234.0	0.326521	Y
7	IC 480-727763/10	16.0	5.312646	4.0	438004.0	0.33204	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

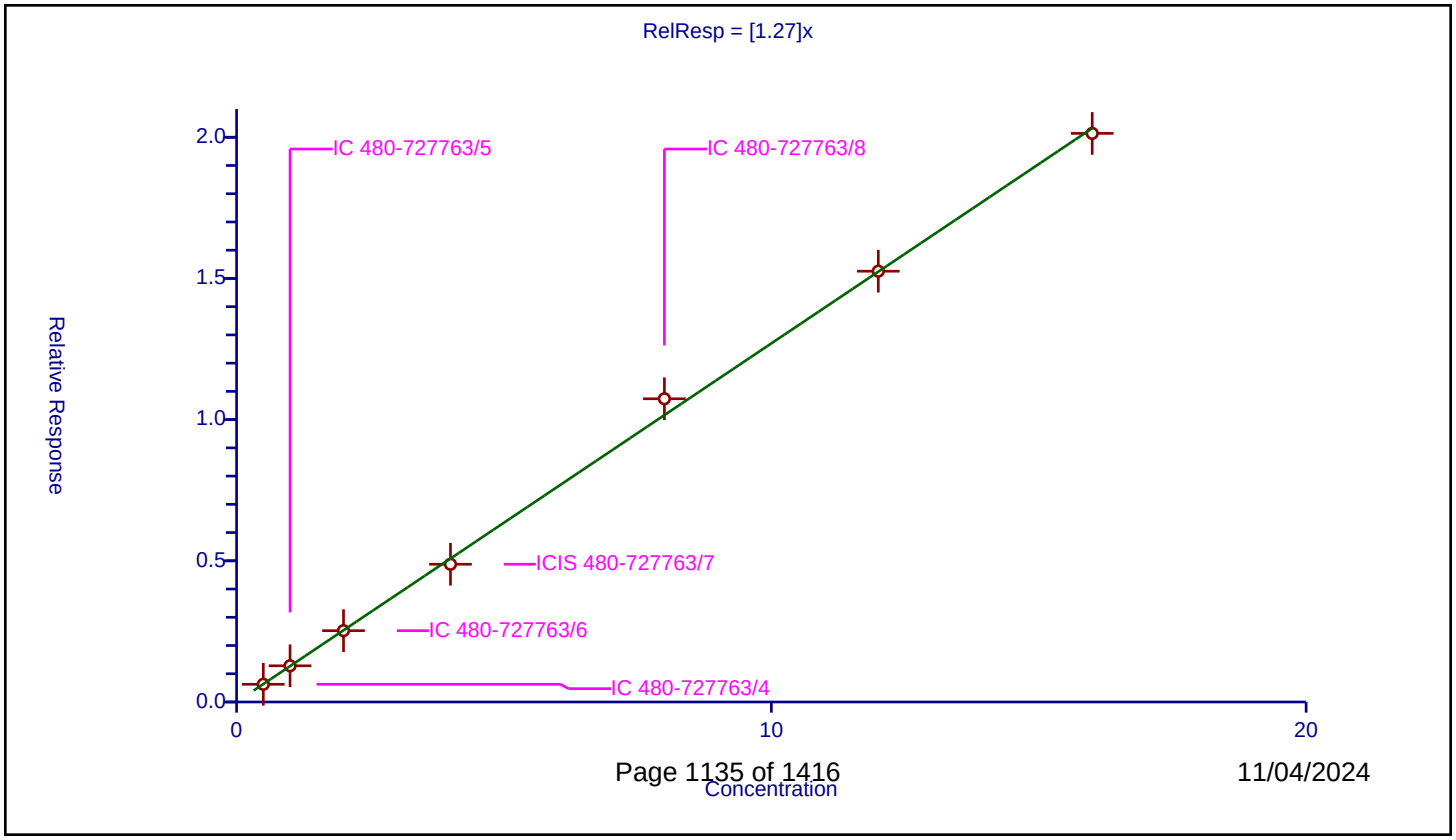
Curve Coefficients

Intercept:	0
Slope:	1.27

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.626174	4.0	425703.0	1.252347	Y
2	IC 480-727763/5	1.0	1.282338	4.0	436509.0	1.282338	Y
3	IC 480-727763/6	2.0	2.525801	4.0	440182.0	1.2629	Y
4	ICIS 480-727763/7	4.0	4.878536	4.0	455089.0	1.219634	Y
5	IC 480-727763/8	8.0	10.738306	4.0	415416.0	1.342288	Y
6	IC 480-727763/9	12.0	15.255913	4.0	433234.0	1.271326	Y
7	IC 480-727763/10	16.0	20.137104	4.0	438004.0	1.258569	Y



Calibration / 1,3-Dinitrobenzene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

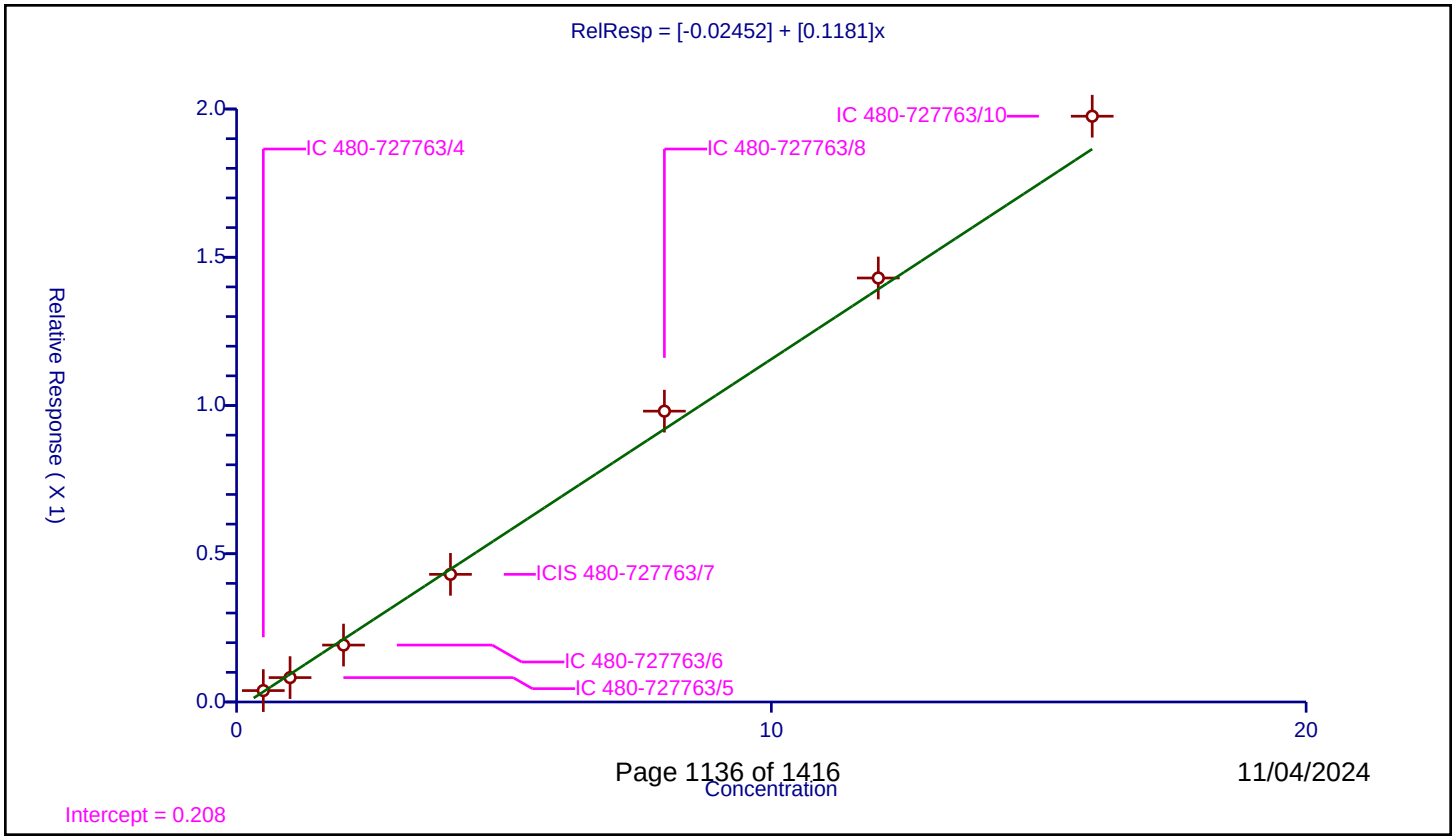
Curve Coefficients

Intercept:	-0.02452
Slope:	0.1181

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.038449	4.0	737081.0	0.076898	Y
2	IC 480-727763/5	1.0	0.082242	4.0	773570.0	0.082242	Y
3	IC 480-727763/6	2.0	0.191956	4.0	759842.0	0.095978	Y
4	ICIS 480-727763/7	4.0	0.430531	4.0	773798.0	0.107633	Y
5	IC 480-727763/8	8.0	0.980999	4.0	688788.0	0.122625	Y
6	IC 480-727763/9	12.0	1.430064	4.0	738627.0	0.119172	Y
7	IC 480-727763/10	16.0	1.97575	4.0	735514.0	0.123484	Y



Calibration / 2,6-Dinitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

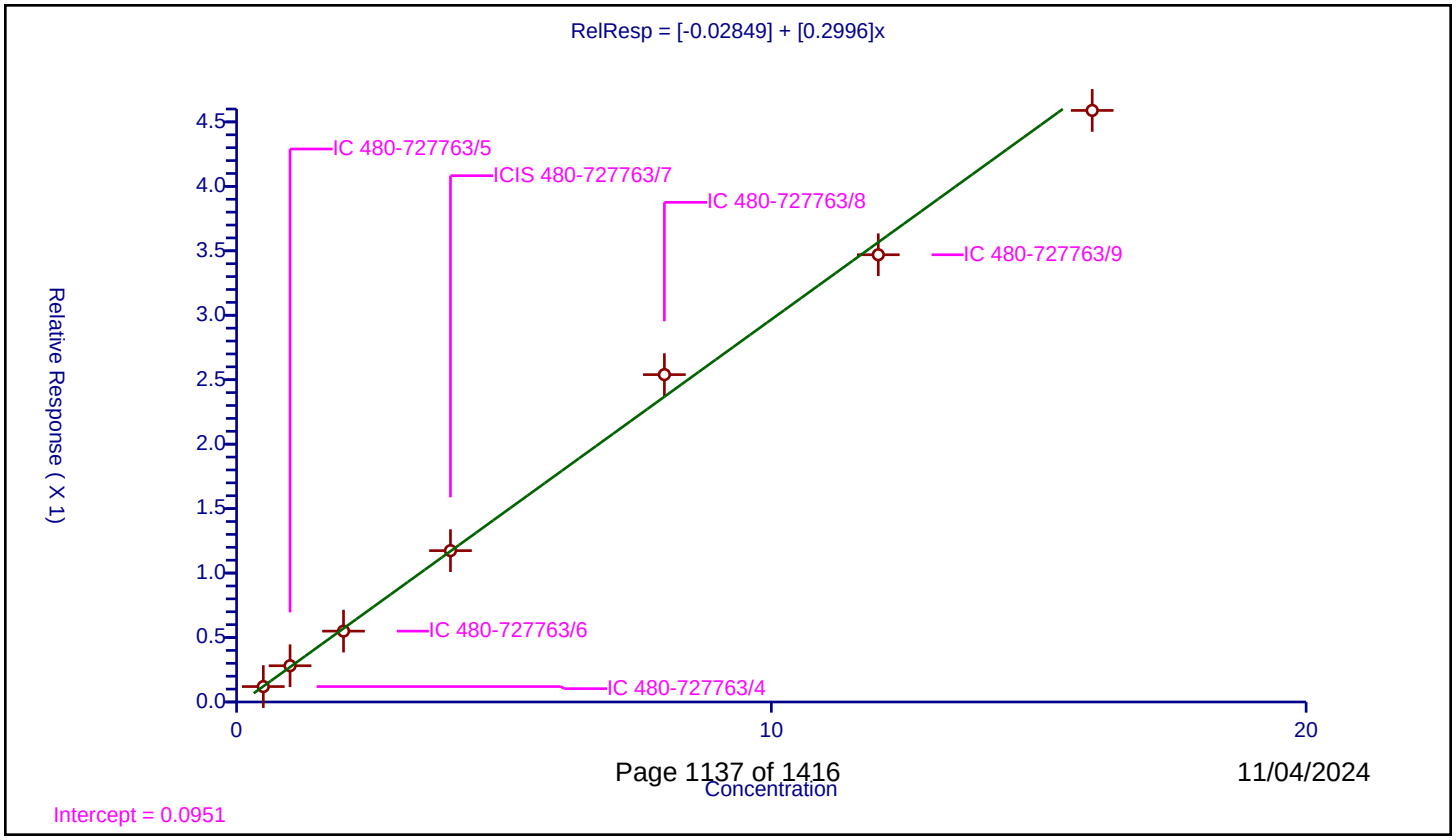
Curve Coefficients

Intercept:	-0.02849
Slope:	0.2996

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.119633	4.0	425703.0	0.239265	Y
2	IC 480-727763/5	1.0	0.281332	4.0	436509.0	0.281332	Y
3	IC 480-727763/6	2.0	0.5497	4.0	440182.0	0.27485	Y
4	ICIS 480-727763/7	4.0	1.17417	4.0	455089.0	0.293543	Y
5	IC 480-727763/8	8.0	2.539671	4.0	415416.0	0.317459	Y
6	IC 480-727763/9	12.0	3.46946	4.0	433234.0	0.289122	Y
7	IC 480-727763/10	16.0	4.588999	4.0	438004.0	0.286812	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

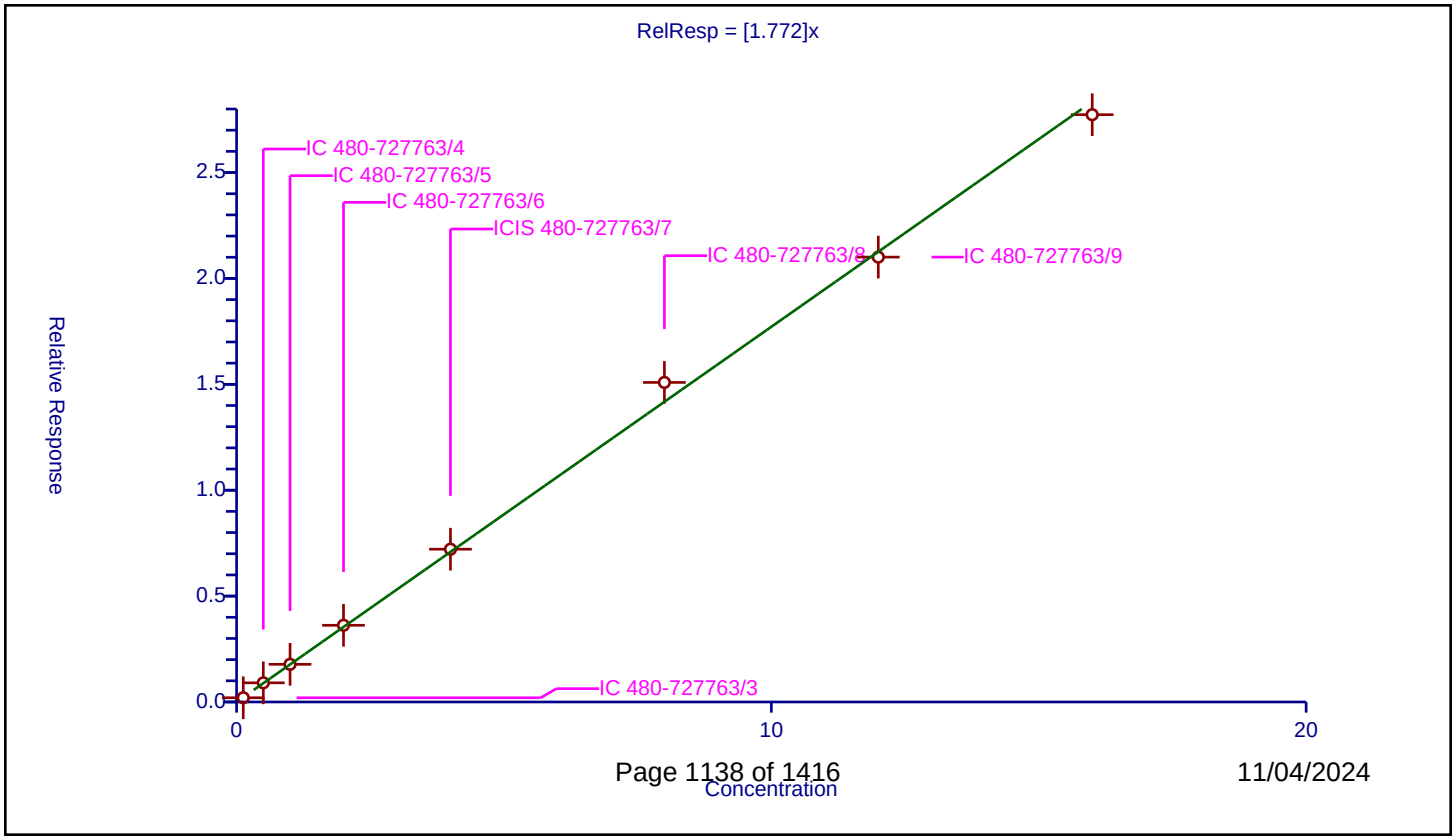
Curve Coefficients

Intercept:	0
Slope:	1.772

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.200167	4.0	425685.0	1.601334	Y
2	IC 480-727763/4	0.5	0.904603	4.0	425703.0	1.809205	Y
3	IC 480-727763/5	1.0	1.778309	4.0	436509.0	1.778309	Y
4	IC 480-727763/6	2.0	3.621593	4.0	440182.0	1.810796	Y
5	ICIS 480-727763/7	4.0	7.214387	4.0	455089.0	1.803597	Y
6	IC 480-727763/8	8.0	15.089944	4.0	415416.0	1.886243	Y
7	IC 480-727763/9	12.0	21.007723	4.0	433234.0	1.750644	Y
8	IC 480-727763/10	16.0	27.732678	4.0	438004.0	1.733292	Y



Calibration / 3-Nitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

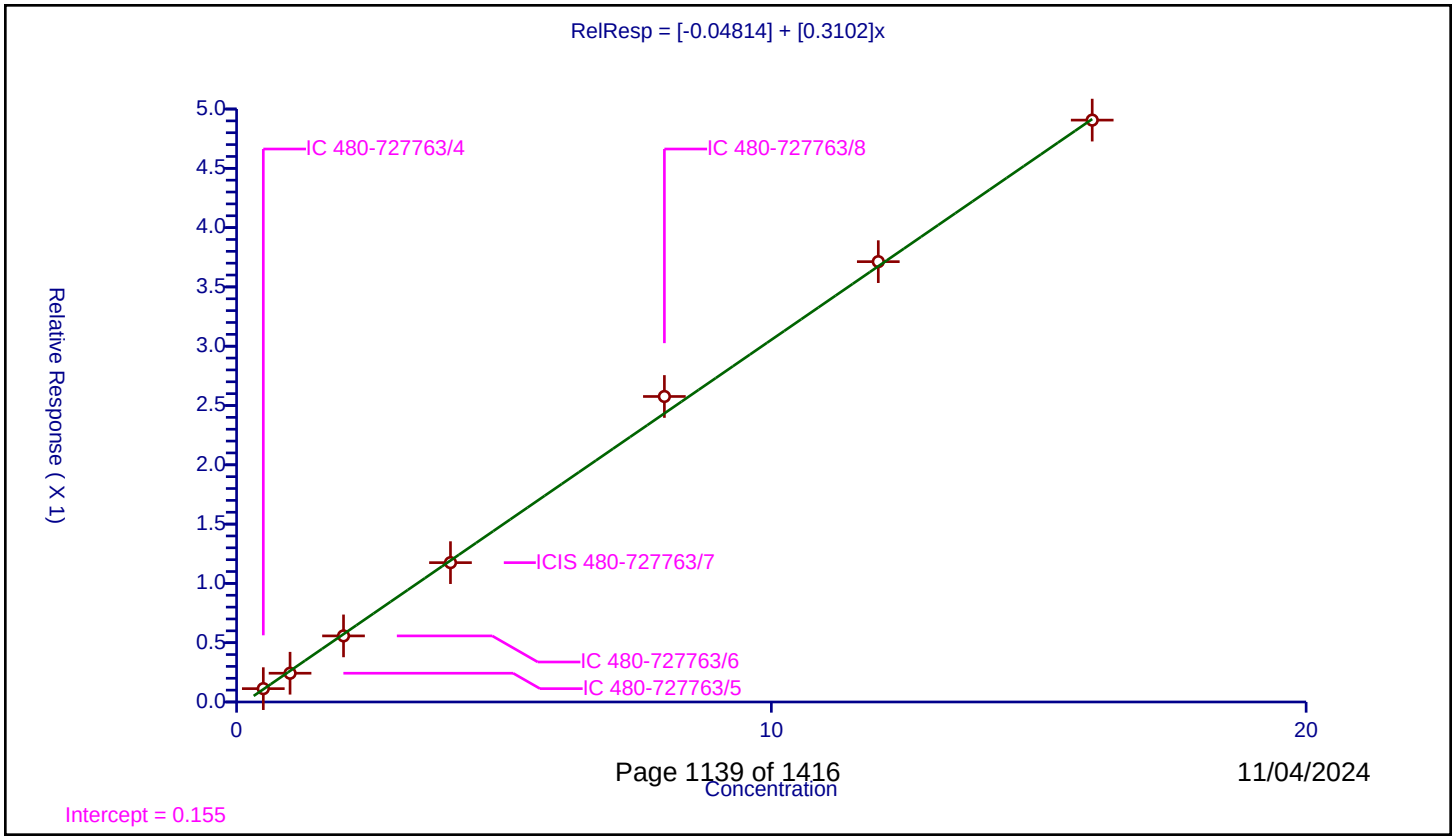
Curve Coefficients

Intercept:	-0.04814
Slope:	0.3102

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.112454	4.0	425703.0	0.224908	Y
2	IC 480-727763/5	1.0	0.24246	4.0	436509.0	0.24246	Y
3	IC 480-727763/6	2.0	0.557315	4.0	440182.0	0.278657	Y
4	ICIS 480-727763/7	4.0	1.174997	4.0	455089.0	0.293749	Y
5	IC 480-727763/8	8.0	2.57602	4.0	415416.0	0.322003	Y
6	IC 480-727763/9	12.0	3.712959	4.0	433234.0	0.309413	Y
7	IC 480-727763/10	16.0	4.906567	4.0	438004.0	0.30666	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

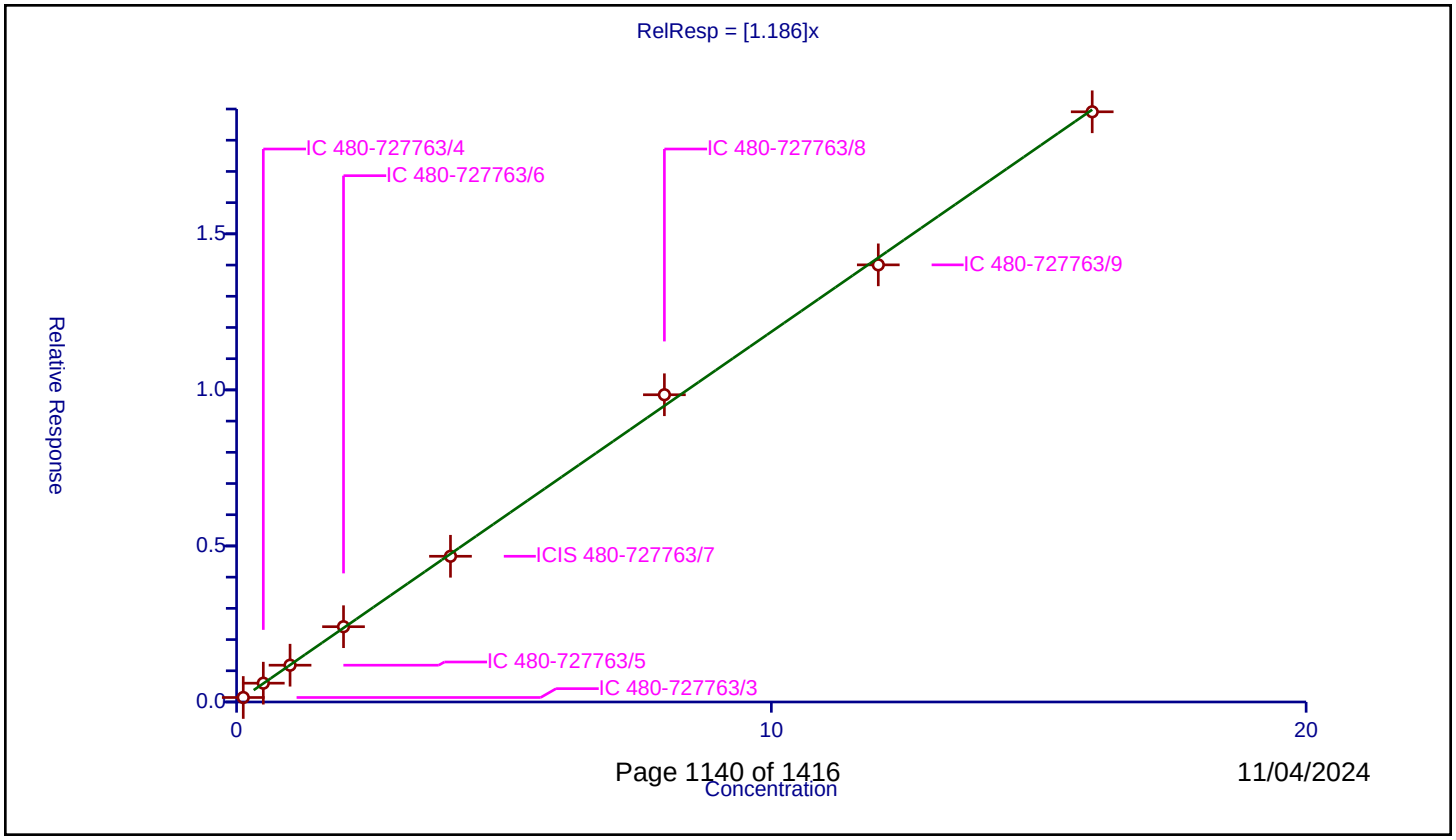
Curve Coefficients

Intercept:	0
Slope:	1.186

Error Coefficients

Relative Standard Deviation:	2.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.144116	4.0	425685.0	1.152928	Y
2	IC 480-727763/4	0.5	0.602542	4.0	425703.0	1.205084	Y
3	IC 480-727763/5	1.0	1.178432	4.0	436509.0	1.178432	Y
4	IC 480-727763/6	2.0	2.412793	4.0	440182.0	1.206396	Y
5	ICIS 480-727763/7	4.0	4.669364	4.0	455089.0	1.167341	Y
6	IC 480-727763/8	8.0	9.844763	4.0	415416.0	1.230595	Y
7	IC 480-727763/9	12.0	14.006426	4.0	433234.0	1.167202	Y
8	IC 480-727763/10	16.0	18.910786	4.0	438004.0	1.181924	Y



11/04/2024

Calibration / 2,4-Dinitrophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

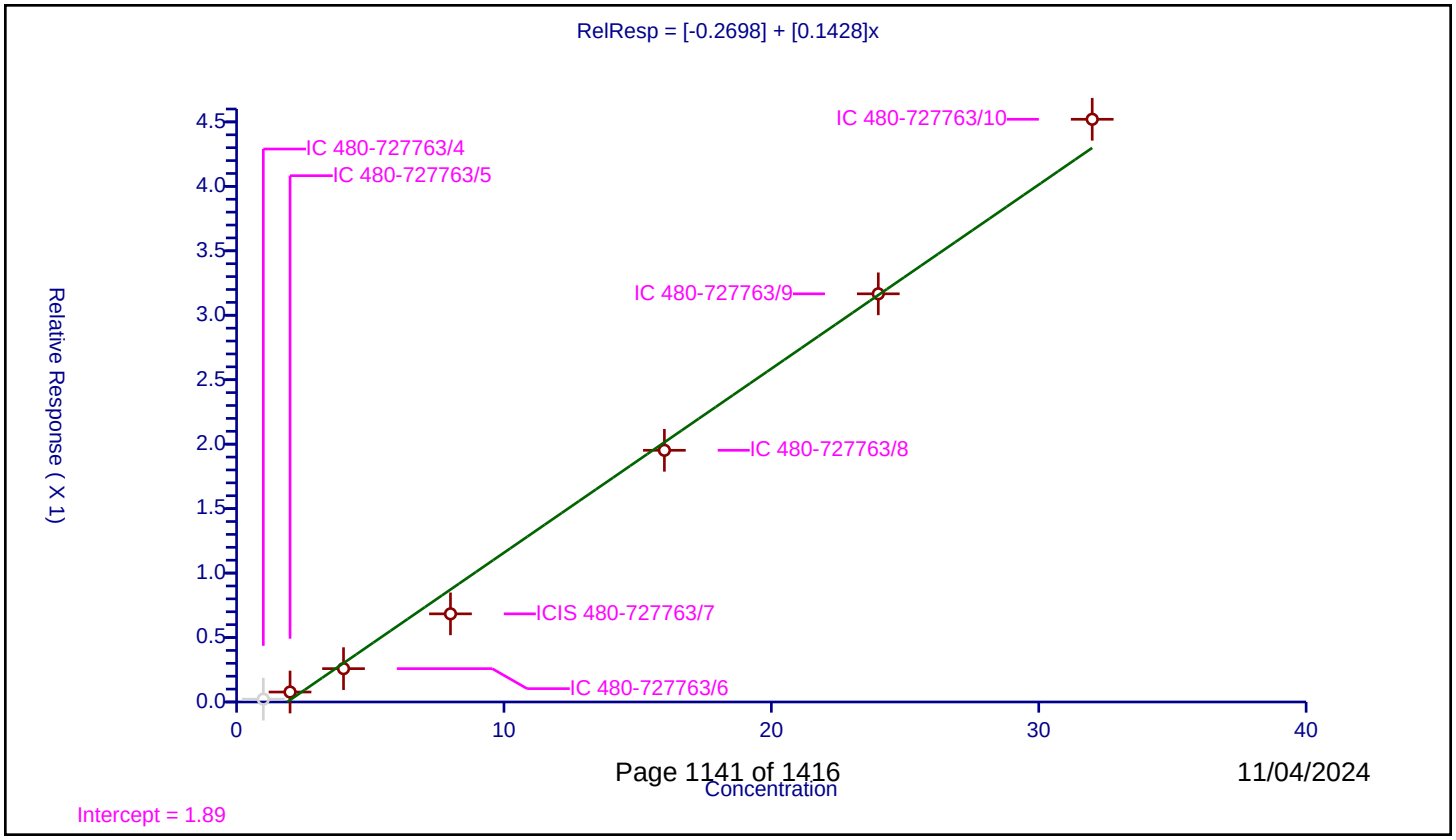
Curve Coefficients

Intercept:	-0.2698
Slope:	0.1428

Error Coefficients

Relative Standard Deviation:	14.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.022062	4.0	425703.0	0.022062	N
2	IC 480-727763/5	2.0	0.07724	4.0	436509.0	0.03862	Y
3	IC 480-727763/6	4.0	0.258657	4.0	440182.0	0.064664	Y
4	ICIS 480-727763/7	8.0	0.683699	4.0	455089.0	0.085462	Y
5	IC 480-727763/8	16.0	1.952616	4.0	415416.0	0.122039	Y
6	IC 480-727763/9	24.0	3.166344	4.0	433234.0	0.131931	Y
7	IC 480-727763/10	32.0	4.520452	4.0	438004.0	0.141264	Y



Calibration / 4-Nitrophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

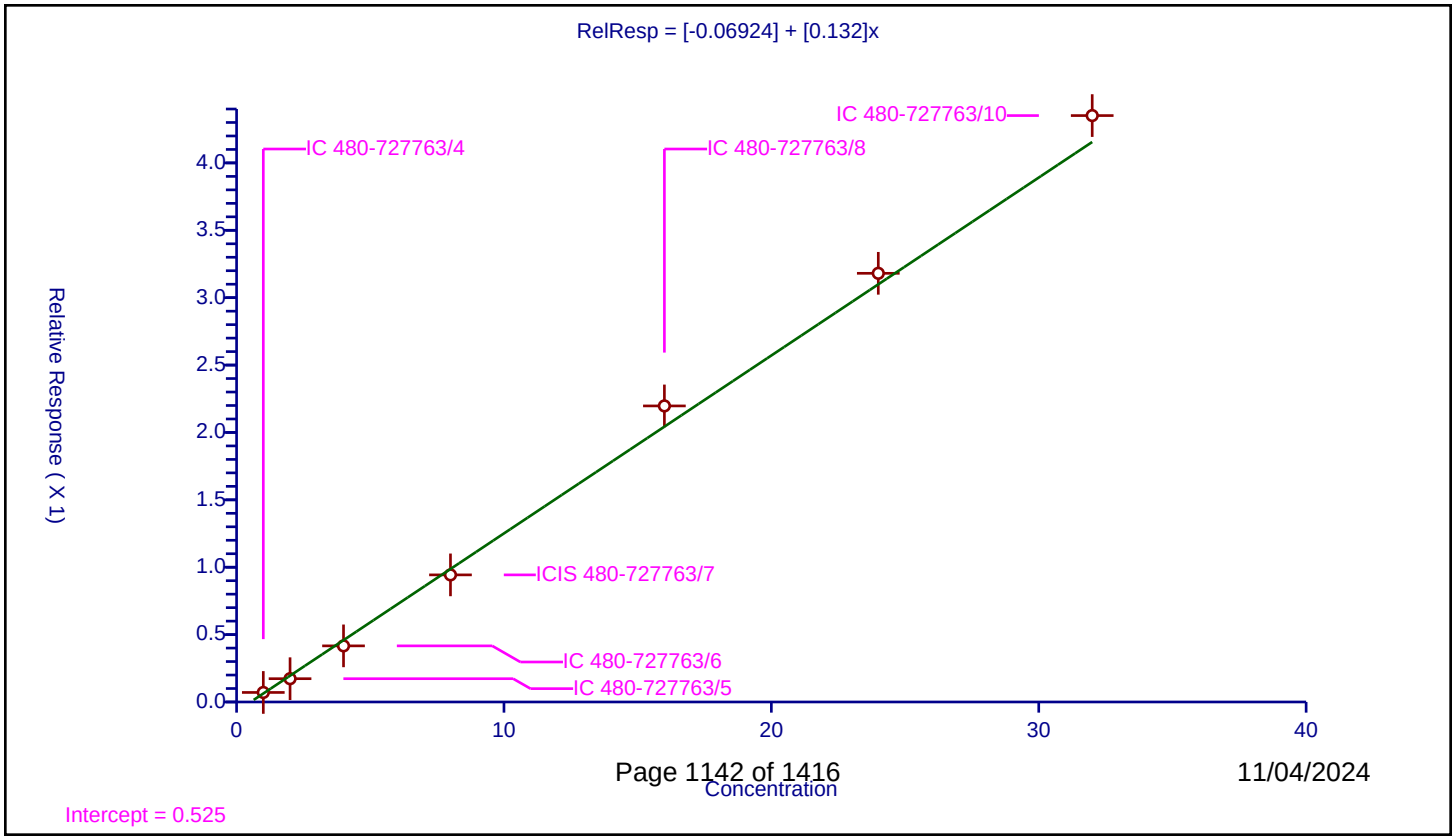
Curve Coefficients

Intercept:	-0.06924
Slope:	0.132

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.07065	4.0	425703.0	0.07065	Y
2	IC 480-727763/5	2.0	0.172872	4.0	436509.0	0.086436	Y
3	IC 480-727763/6	4.0	0.4164	4.0	440182.0	0.1041	Y
4	ICIS 480-727763/7	8.0	0.943103	4.0	455089.0	0.117888	Y
5	IC 480-727763/8	16.0	2.196844	4.0	415416.0	0.137303	Y
6	IC 480-727763/9	24.0	3.180812	4.0	433234.0	0.132534	Y
7	IC 480-727763/10	32.0	4.35123	4.0	438004.0	0.135976	Y



Calibration / 2,4-Dinitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

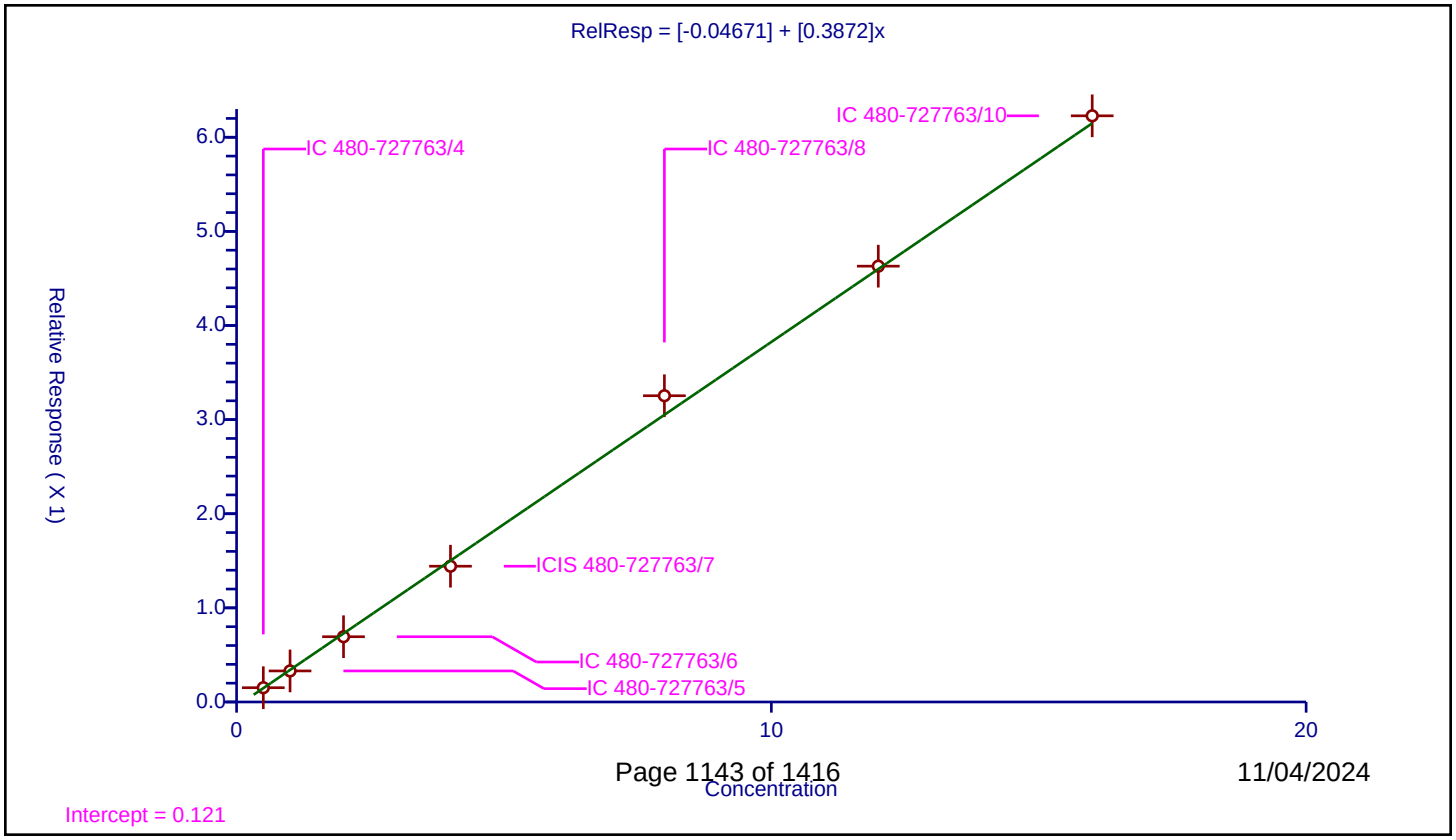
Curve Coefficients

Intercept:	-0.04671
Slope:	0.3872

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.151636	4.0	425703.0	0.303272	Y
2	IC 480-727763/5	1.0	0.330046	4.0	436509.0	0.330046	Y
3	IC 480-727763/6	2.0	0.69344	4.0	440182.0	0.34672	Y
4	ICIS 480-727763/7	4.0	1.442487	4.0	455089.0	0.360622	Y
5	IC 480-727763/8	8.0	3.253885	4.0	415416.0	0.406736	Y
6	IC 480-727763/9	12.0	4.630274	4.0	433234.0	0.385856	Y
7	IC 480-727763/10	16.0	6.227678	4.0	438004.0	0.38923	Y



Calibration / Dibenzofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

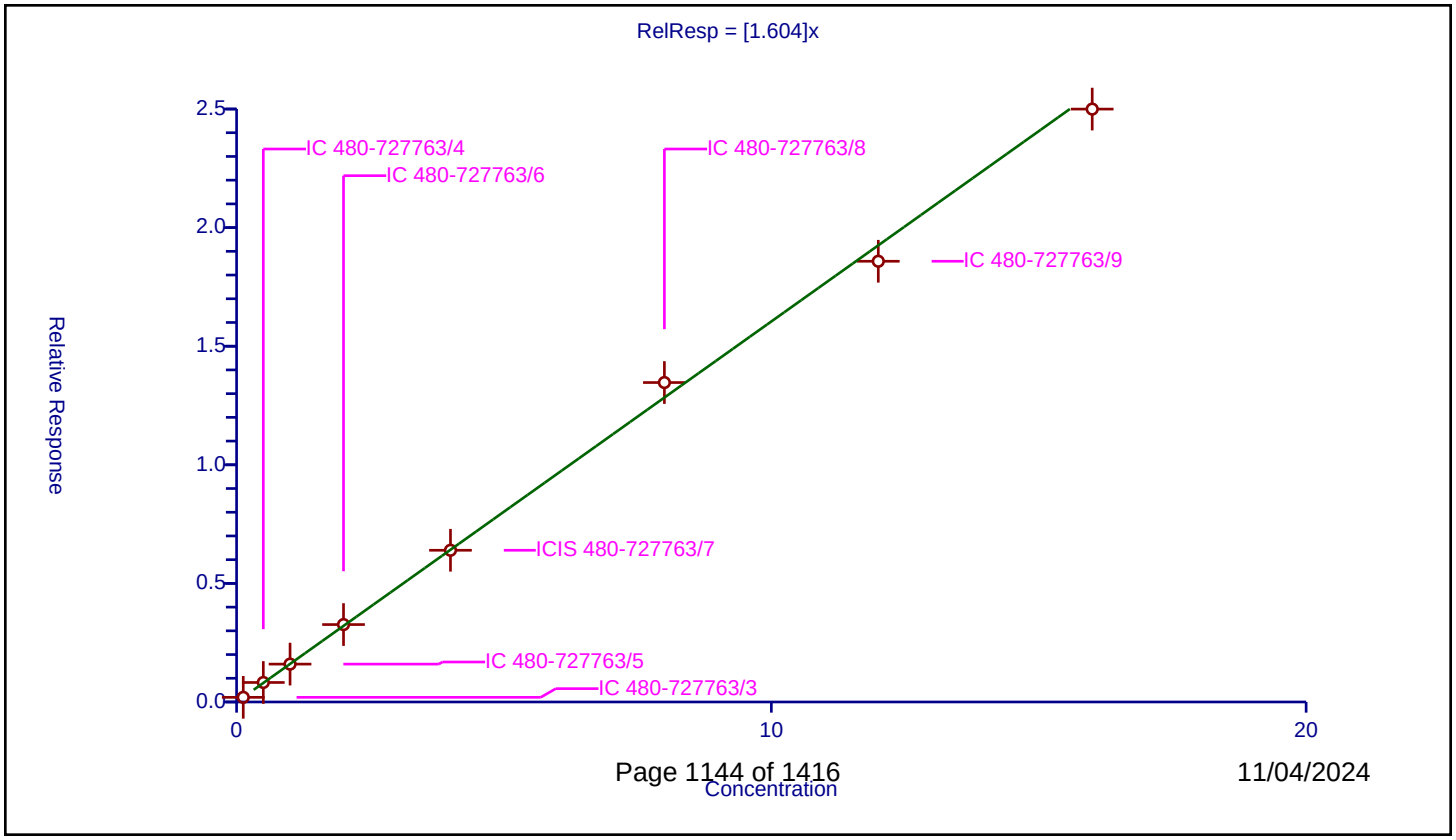
Curve Coefficients

Intercept:	0
Slope:	1.604

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.195873	4.0	425685.0	1.56698	Y
2	IC 480-727763/4	0.5	0.822686	4.0	425703.0	1.645372	Y
3	IC 480-727763/5	1.0	1.597108	4.0	436509.0	1.597108	Y
4	IC 480-727763/6	2.0	3.263959	4.0	440182.0	1.631979	Y
5	ICIS 480-727763/7	4.0	6.39612	4.0	455089.0	1.59903	Y
6	IC 480-727763/8	8.0	13.468071	4.0	415416.0	1.683509	Y
7	IC 480-727763/9	12.0	18.58121	4.0	433234.0	1.548434	Y
8	IC 480-727763/10	16.0	24.996612	4.0	438004.0	1.562288	Y



Calibration / 2,3,4,6-Tetrachlorophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

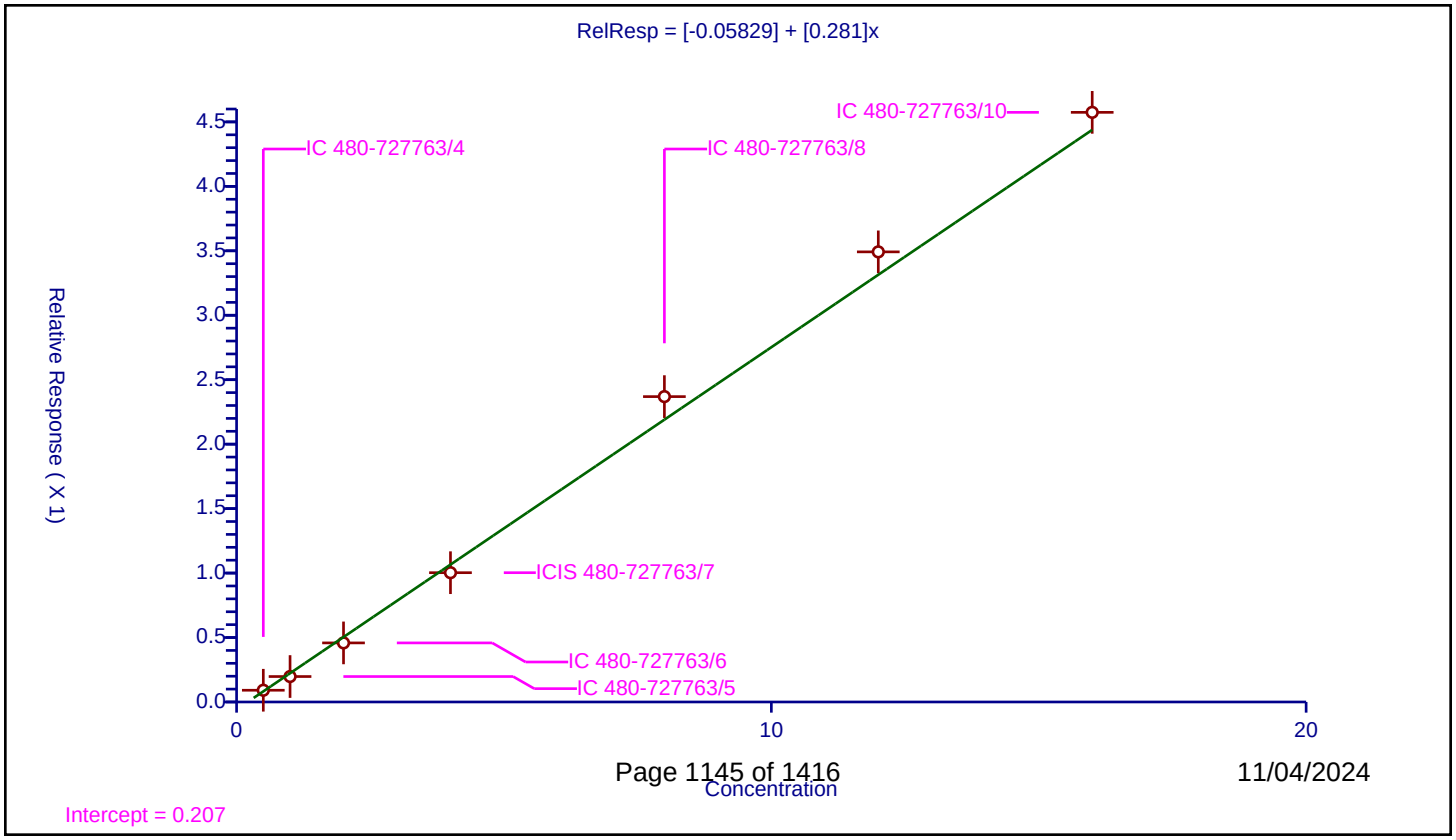
Curve Coefficients

Intercept:	-0.05829
Slope:	0.281

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.091219	4.0	425703.0	0.182437	Y
2	IC 480-727763/5	1.0	0.197494	4.0	436509.0	0.197494	Y
3	IC 480-727763/6	2.0	0.458392	4.0	440182.0	0.229196	Y
4	ICIS 480-727763/7	4.0	1.002951	4.0	455089.0	0.250738	Y
5	IC 480-727763/8	8.0	2.368999	4.0	415416.0	0.296125	Y
6	IC 480-727763/9	12.0	3.491767	4.0	433234.0	0.290981	Y
7	IC 480-727763/10	16.0	4.574123	4.0	438004.0	0.285883	Y



Calibration / Hexadecane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

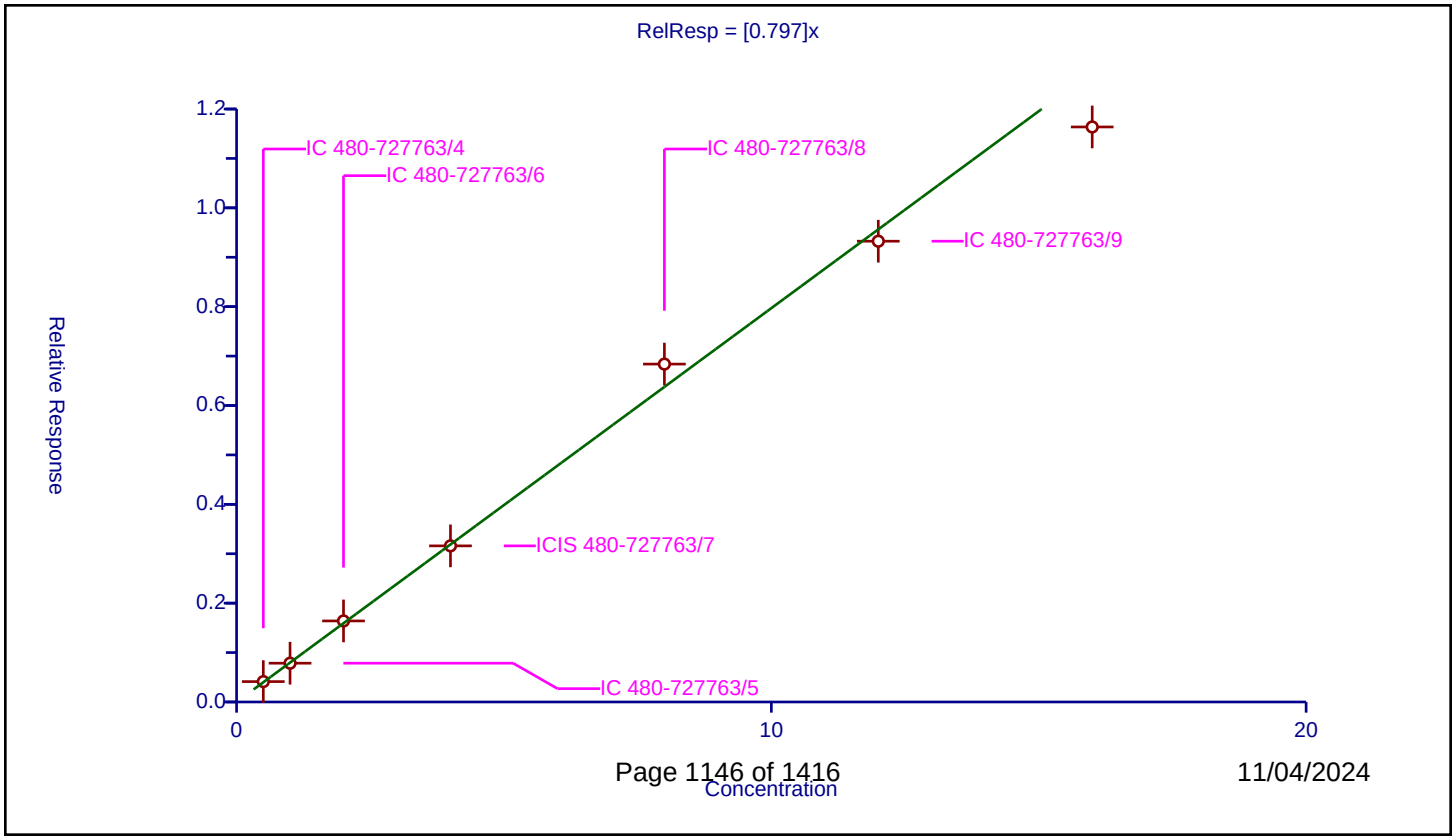
Curve Coefficients

Intercept:	0
Slope:	0.797

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.412391	4.0	425703.0	0.824782	Y
2	IC 480-727763/5	1.0	0.785129	4.0	436509.0	0.785129	Y
3	IC 480-727763/6	2.0	1.640167	4.0	440182.0	0.820084	Y
4	ICIS 480-727763/7	4.0	3.159514	4.0	455089.0	0.789878	Y
5	IC 480-727763/8	8.0	6.838157	4.0	415416.0	0.85477	Y
6	IC 480-727763/9	12.0	9.324679	4.0	433234.0	0.777057	Y
7	IC 480-727763/10	16.0	11.636679	4.0	438004.0	0.727292	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

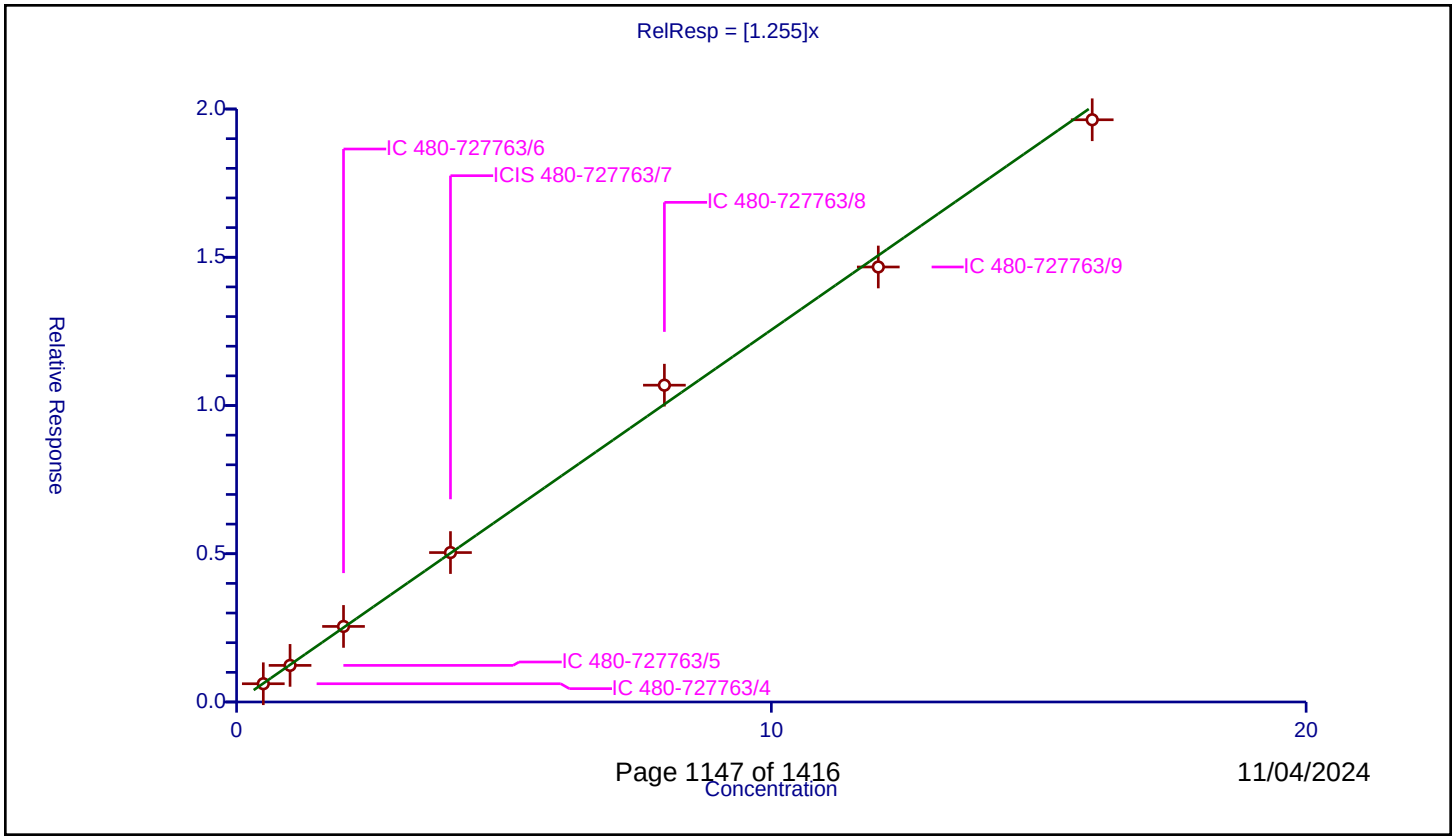
Curve Coefficients

Intercept:	0
Slope:	1.255

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.615434	4.0	425703.0	1.230868	Y
2	IC 480-727763/5	1.0	1.23466	4.0	436509.0	1.23466	Y
3	IC 480-727763/6	2.0	2.548428	4.0	440182.0	1.274214	Y
4	ICIS 480-727763/7	4.0	5.039893	4.0	455089.0	1.259973	Y
5	IC 480-727763/8	8.0	10.685279	4.0	415416.0	1.33566	Y
6	IC 480-727763/9	12.0	14.671443	4.0	433234.0	1.22262	Y
7	IC 480-727763/10	16.0	19.637665	4.0	438004.0	1.227354	Y



Calibration / 4-Chlorophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

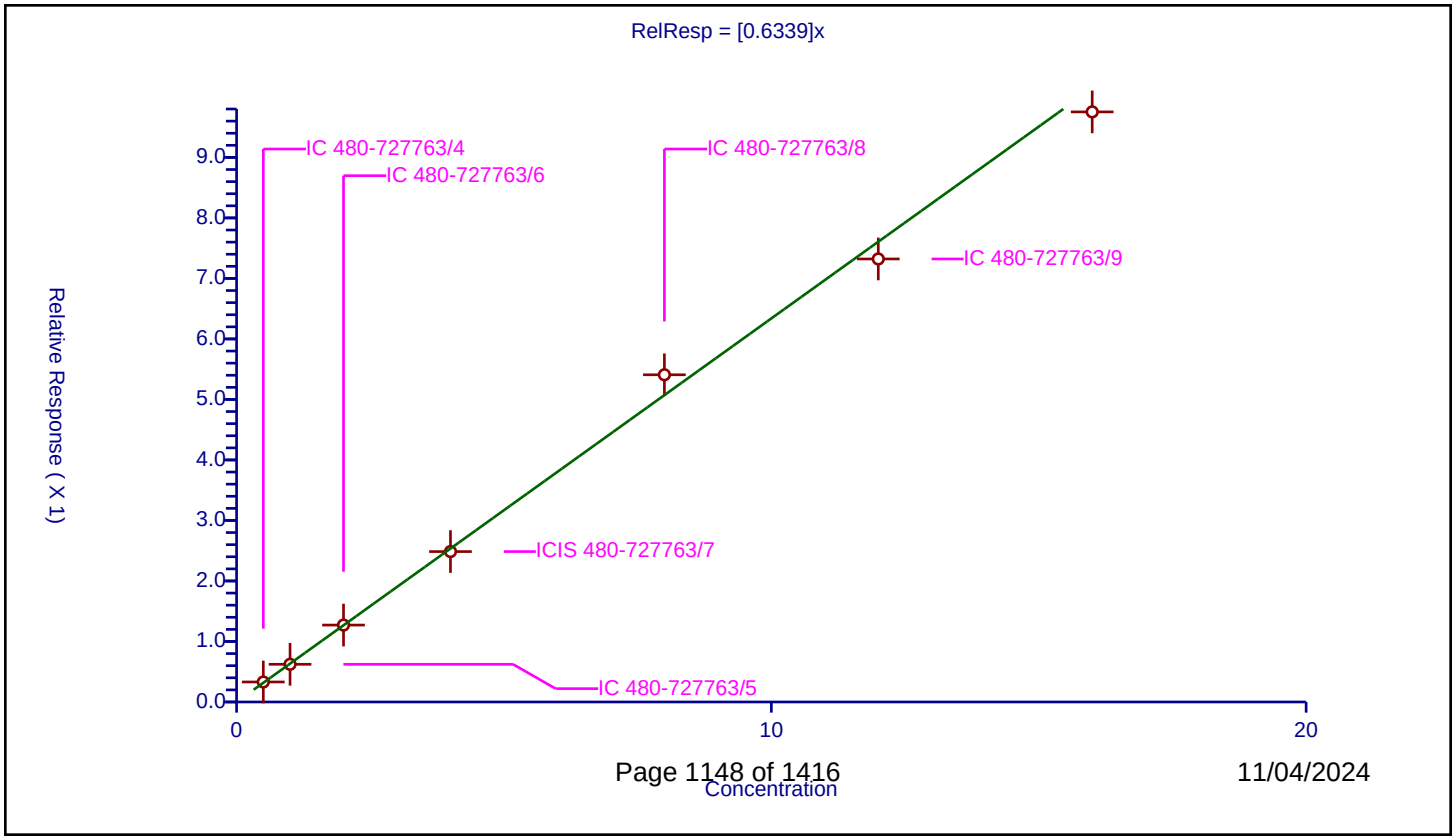
Curve Coefficients

Intercept:	0
Slope:	0.6339

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.330662	4.0	425703.0	0.661325	Y
2	IC 480-727763/5	1.0	0.623043	4.0	436509.0	0.623043	Y
3	IC 480-727763/6	2.0	1.271374	4.0	440182.0	0.635687	Y
4	ICIS 480-727763/7	4.0	2.48601	4.0	455089.0	0.621503	Y
5	IC 480-727763/8	8.0	5.407948	4.0	415416.0	0.675993	Y
6	IC 480-727763/9	12.0	7.3219	4.0	433234.0	0.610158	Y
7	IC 480-727763/10	16.0	9.752431	4.0	438004.0	0.609527	Y



Calibration / 4-Nitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

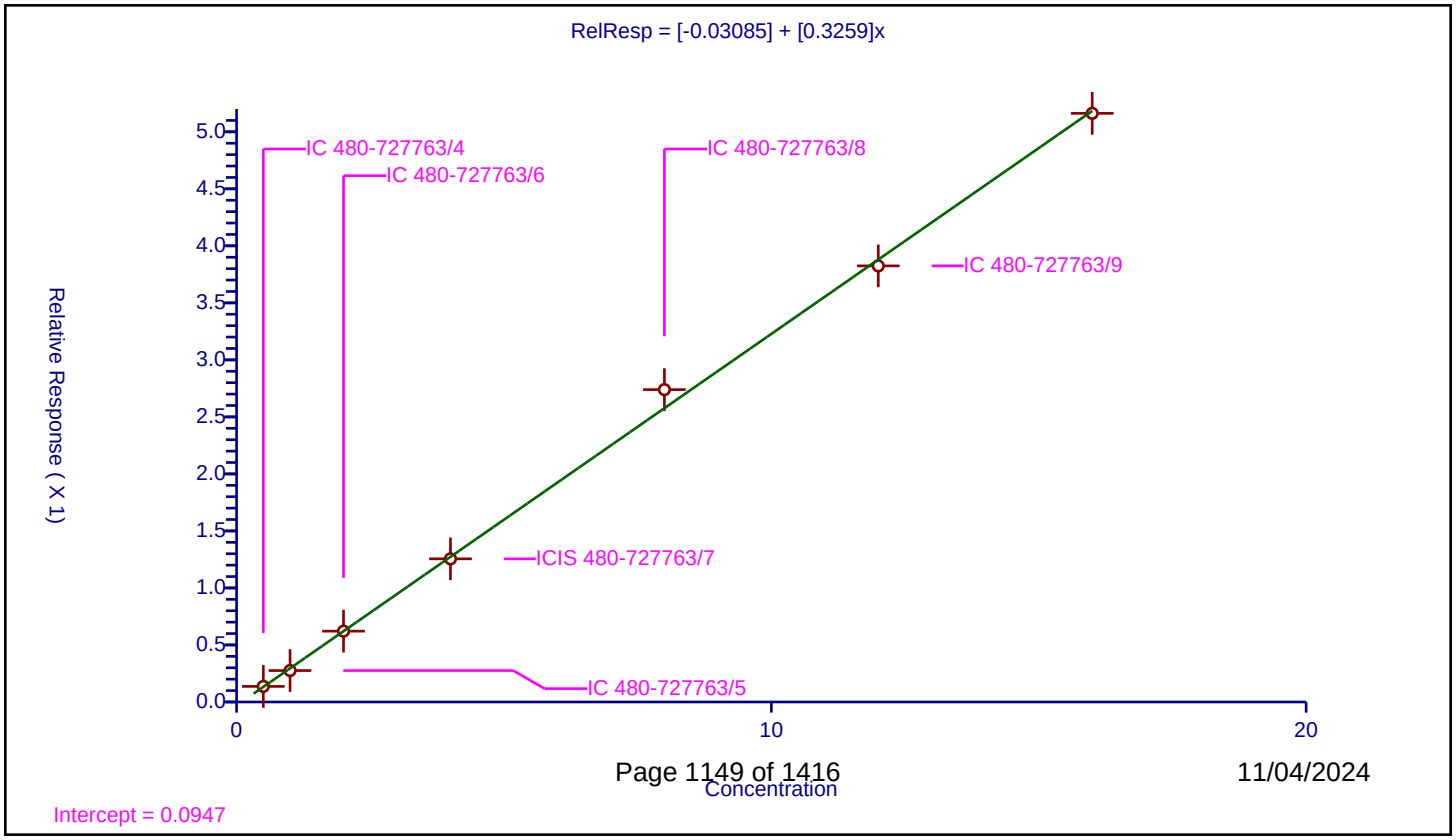
Curve Coefficients

Intercept:	-0.03085
Slope:	0.3259

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.136677	4.0	425703.0	0.273355	Y
2	IC 480-727763/5	1.0	0.275614	4.0	436509.0	0.275614	Y
3	IC 480-727763/6	2.0	0.621161	4.0	440182.0	0.310581	Y
4	ICIS 480-727763/7	4.0	1.255315	4.0	455089.0	0.313829	Y
5	IC 480-727763/8	8.0	2.73922	4.0	415416.0	0.342403	Y
6	IC 480-727763/9	12.0	3.824197	4.0	433234.0	0.318683	Y
7	IC 480-727763/10	16.0	5.16188	4.0	438004.0	0.322617	Y



Calibration / Fluorene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

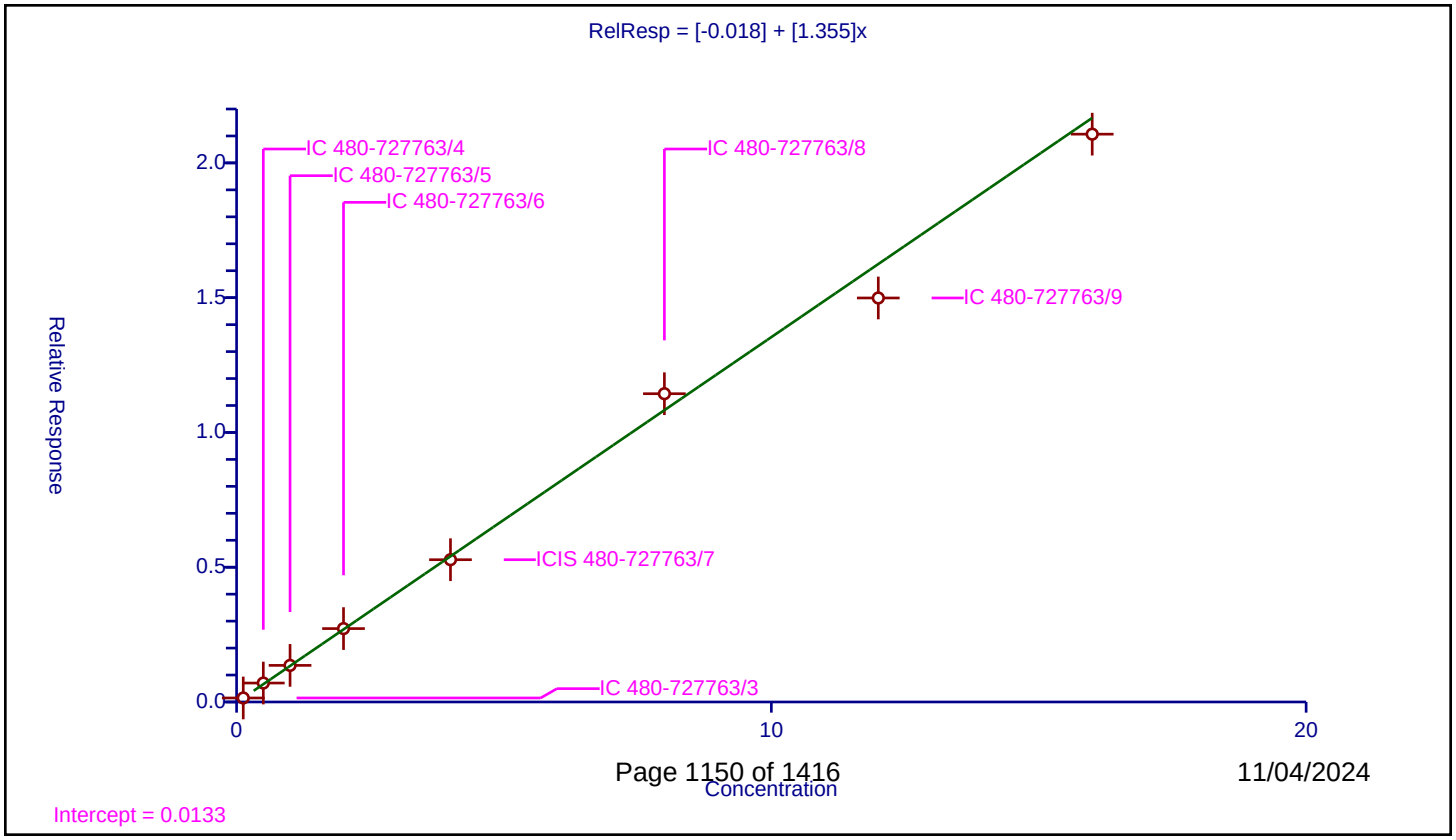
Curve Coefficients

Intercept:	-0.018
Slope:	1.355

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.148457	4.0	425685.0	1.187658	Y
2	IC 480-727763/4	0.5	0.70296	4.0	425703.0	1.405919	Y
3	IC 480-727763/5	1.0	1.357553	4.0	436509.0	1.357553	Y
4	IC 480-727763/6	2.0	2.722828	4.0	440182.0	1.361414	Y
5	ICIS 480-727763/7	4.0	5.27844	4.0	455089.0	1.31961	Y
6	IC 480-727763/8	8.0	11.43774	4.0	415416.0	1.429717	Y
7	IC 480-727763/9	12.0	14.988962	4.0	433234.0	1.24908	Y
8	IC 480-727763/10	16.0	21.067059	4.0	438004.0	1.316691	Y



Calibration / 4,6-Dinitro-2-methylphenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

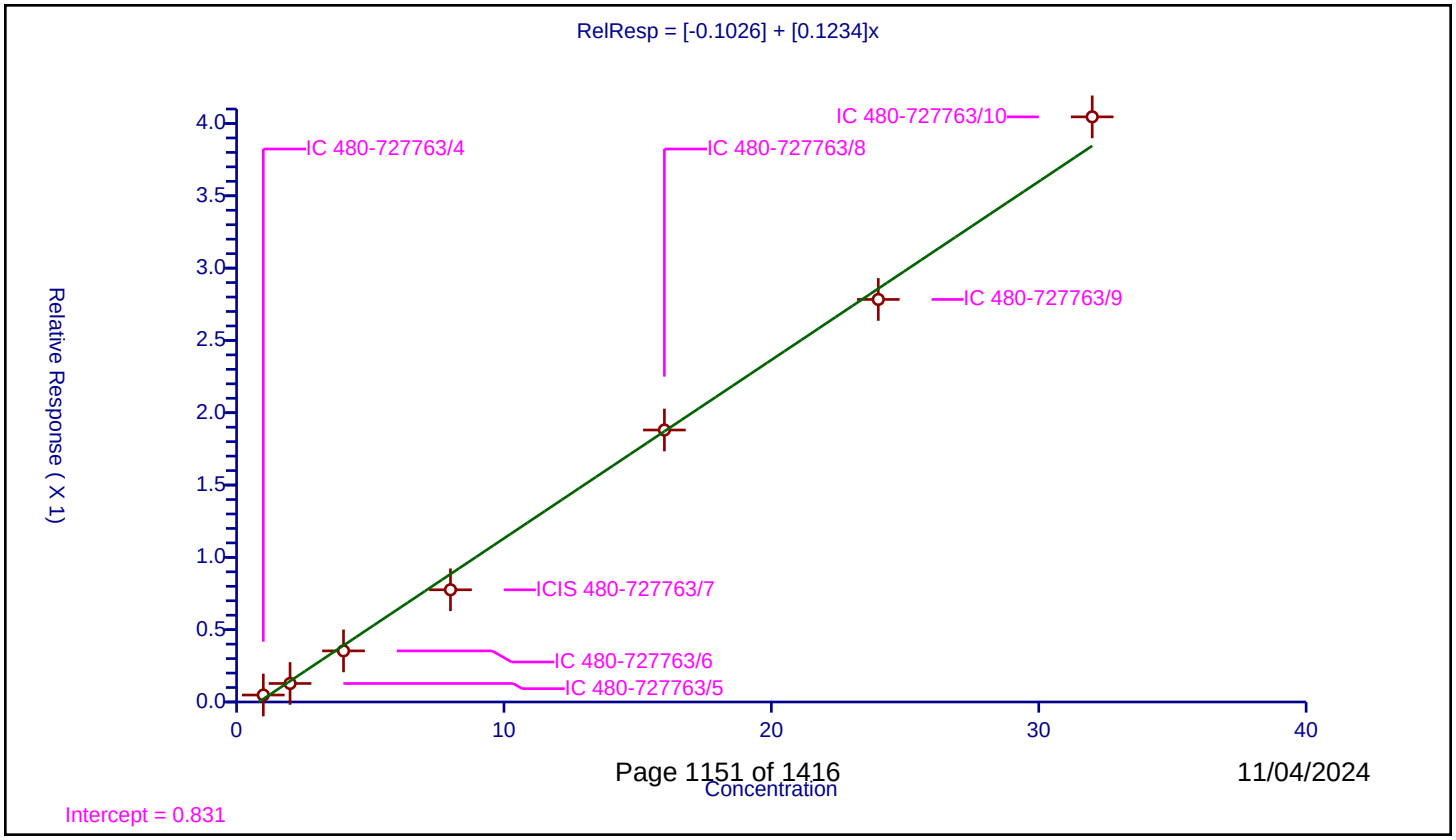
Curve Coefficients

Intercept:	-0.1026
Slope:	0.1234

Error Coefficients

Relative Standard Deviation:	12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.048131	4.0	732507.0	0.048131	Y
2	IC 480-727763/5	2.0	0.128015	4.0	739822.0	0.064007	Y
3	IC 480-727763/6	4.0	0.35334	4.0	719816.0	0.088335	Y
4	ICIS 480-727763/7	8.0	0.775836	4.0	755758.0	0.096979	Y
5	IC 480-727763/8	16.0	1.880543	4.0	708238.0	0.117534	Y
6	IC 480-727763/9	24.0	2.78324	4.0	730313.0	0.115968	Y
7	IC 480-727763/10	32.0	4.045847	4.0	738805.0	0.126433	Y



Calibration / Diphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

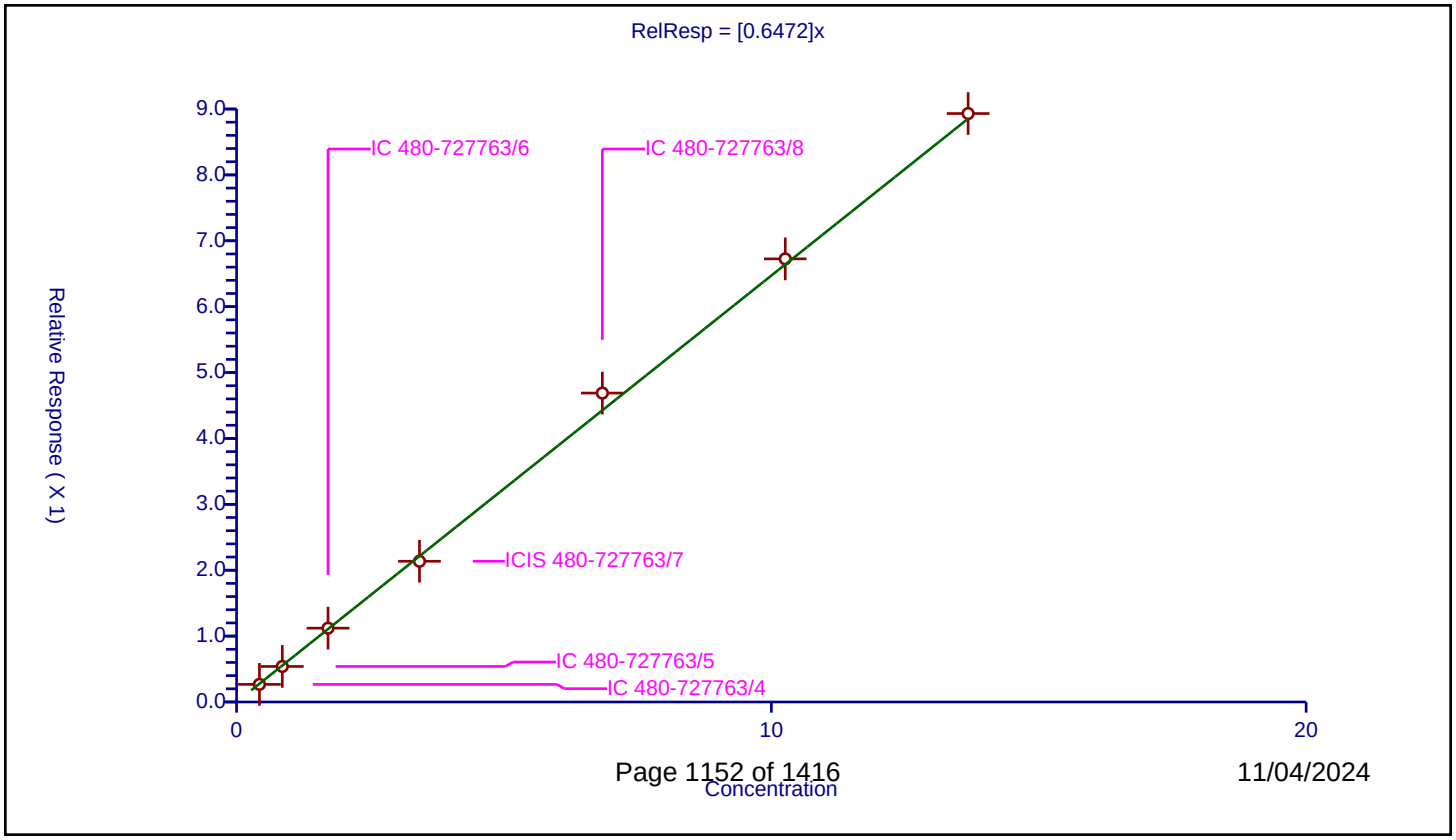
Curve Coefficients

Intercept:	0
Slope:	0.6472

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.4275	0.267481	4.0	732507.0	0.625687	Y
2	IC 480-727763/5	0.855	0.539432	4.0	739822.0	0.630915	Y
3	IC 480-727763/6	1.71	1.120631	4.0	719816.0	0.65534	Y
4	ICIS 480-727763/7	3.42	2.135943	4.0	755758.0	0.624545	Y
5	IC 480-727763/8	6.84	4.688559	4.0	708238.0	0.685462	Y
6	IC 480-727763/9	10.26	6.725527	4.0	730313.0	0.655509	Y
7	IC 480-727763/10	13.68	8.931369	4.0	738805.0	0.652878	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

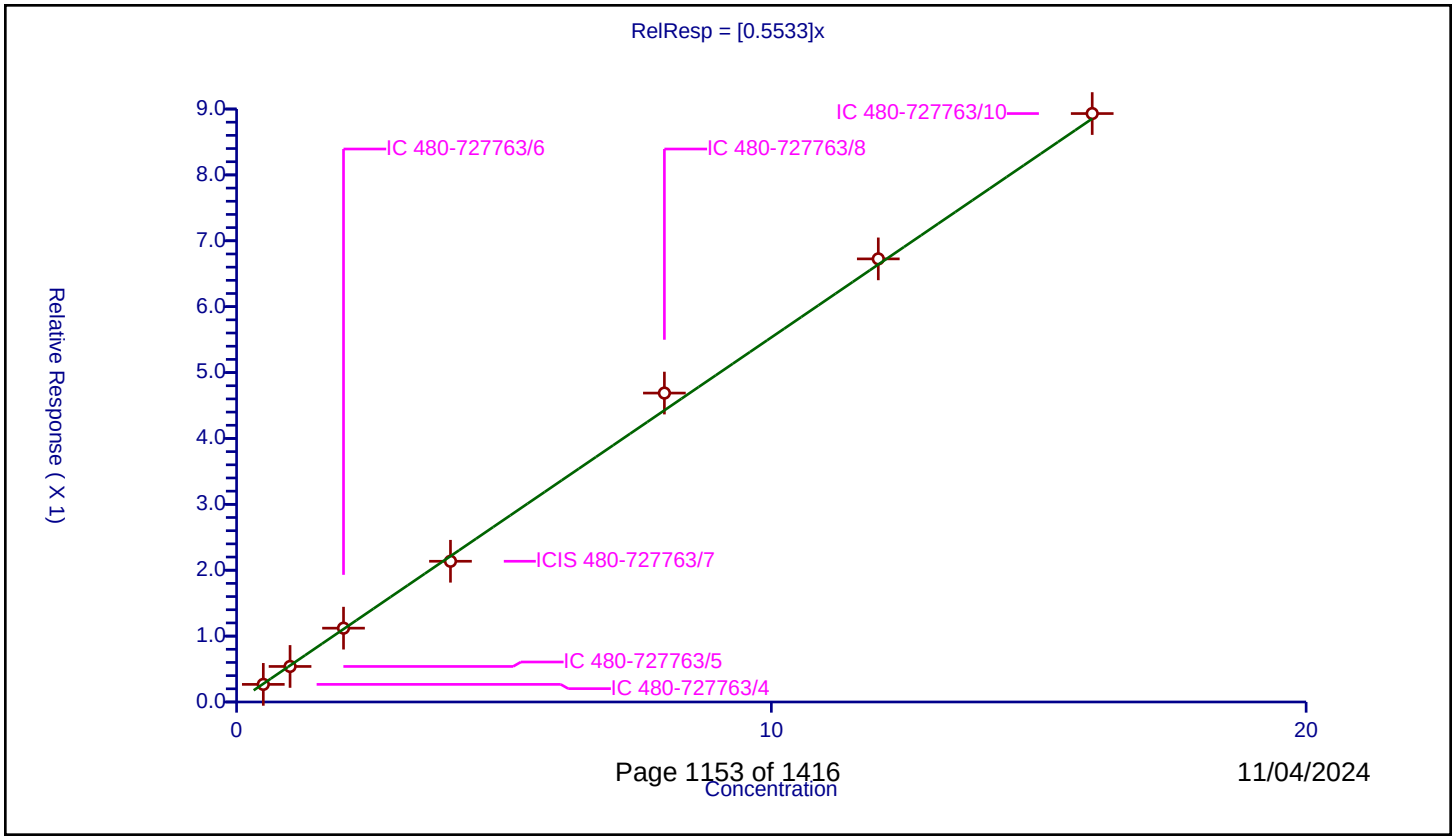
Curve Coefficients

Intercept:	0
Slope:	0.5533

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.267481	4.0	732507.0	0.534963	Y
2	IC 480-727763/5	1.0	0.539432	4.0	739822.0	0.539432	Y
3	IC 480-727763/6	2.0	1.120631	4.0	719816.0	0.560315	Y
4	ICIS 480-727763/7	4.0	2.135943	4.0	755758.0	0.533986	Y
5	IC 480-727763/8	8.0	4.688559	4.0	708238.0	0.58607	Y
6	IC 480-727763/9	12.0	6.725527	4.0	730313.0	0.560461	Y
7	IC 480-727763/10	16.0	8.931369	4.0	738805.0	0.558211	Y



Calibration / 1,2-Diphenylhydrazine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

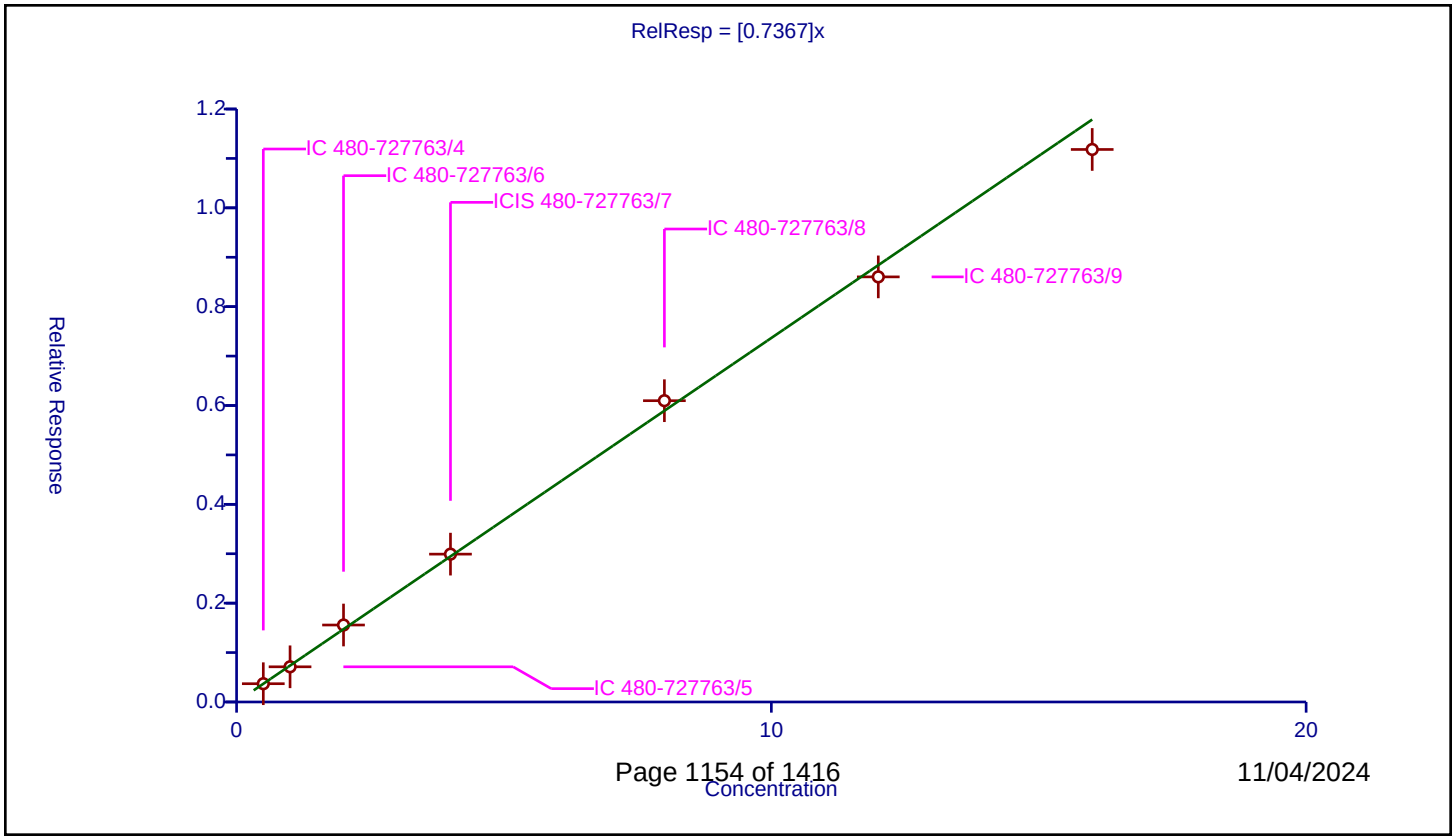
Curve Coefficients

Intercept:	0
Slope:	0.7367

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.369859	4.0	732507.0	0.739717	Y
2	IC 480-727763/5	1.0	0.712269	4.0	739822.0	0.712269	Y
3	IC 480-727763/6	2.0	1.557609	4.0	719816.0	0.778805	Y
4	ICIS 480-727763/7	4.0	2.992238	4.0	755758.0	0.74806	Y
5	IC 480-727763/8	8.0	6.097329	4.0	708238.0	0.762166	Y
6	IC 480-727763/9	12.0	8.602958	4.0	730313.0	0.716913	Y
7	IC 480-727763/10	16.0	11.181538	4.0	738805.0	0.698846	Y



Calibration / Azobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

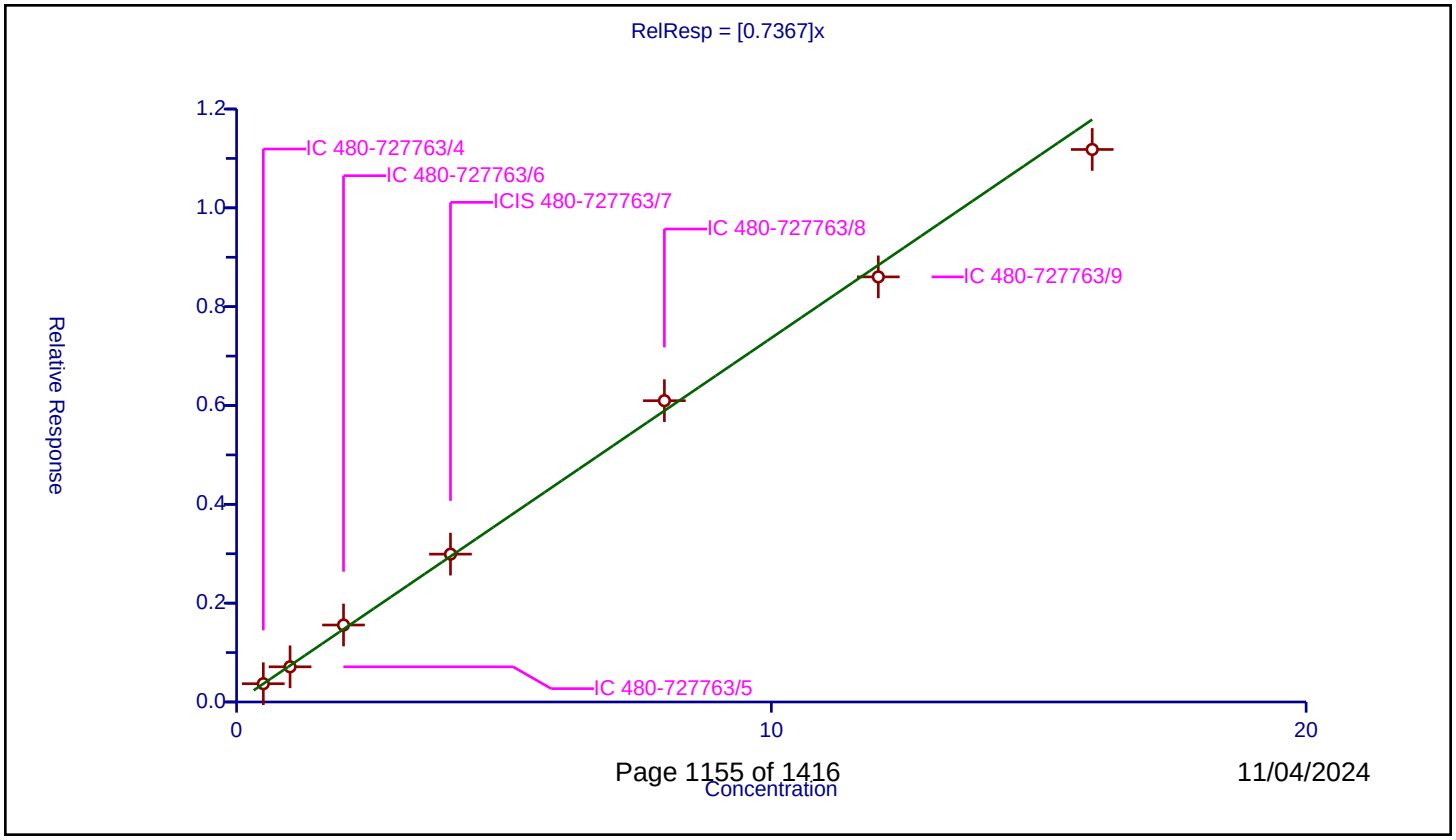
Curve Coefficients

Intercept:	0
Slope:	0.7367

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.369859	4.0	732507.0	0.739717	Y
2	IC 480-727763/5	1.0	0.712269	4.0	739822.0	0.712269	Y
3	IC 480-727763/6	2.0	1.557609	4.0	719816.0	0.778805	Y
4	ICIS 480-727763/7	4.0	2.992238	4.0	755758.0	0.74806	Y
5	IC 480-727763/8	8.0	6.097329	4.0	708238.0	0.762166	Y
6	IC 480-727763/9	12.0	8.602958	4.0	730313.0	0.716913	Y
7	IC 480-727763/10	16.0	11.181538	4.0	738805.0	0.698846	Y



Calibration / 2,4,6-Tribromophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

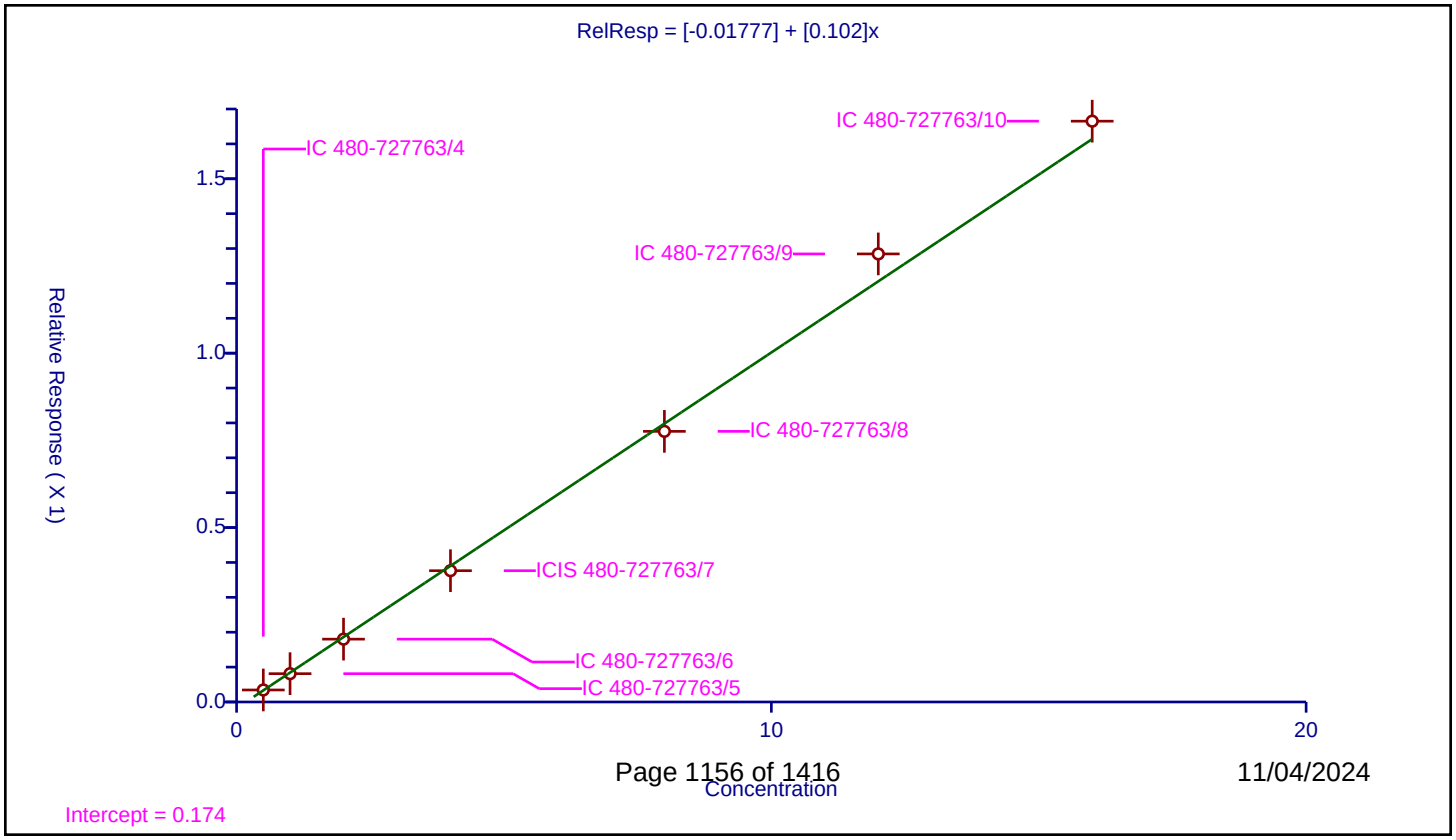
Curve Coefficients

Intercept:	-0.01777
Slope:	0.102

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.034473	4.0	732507.0	0.068947	Y
2	IC 480-727763/5	1.0	0.081122	4.0	739822.0	0.081122	Y
3	IC 480-727763/6	2.0	0.180179	4.0	719816.0	0.09009	Y
4	ICIS 480-727763/7	4.0	0.376433	4.0	755758.0	0.094108	Y
5	IC 480-727763/8	8.0	0.775841	4.0	708238.0	0.09698	Y
6	IC 480-727763/9	12.0	1.284573	4.0	730313.0	0.107048	Y
7	IC 480-727763/10	16.0	1.665138	4.0	738805.0	0.104071	Y



Calibration / 4-Bromophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

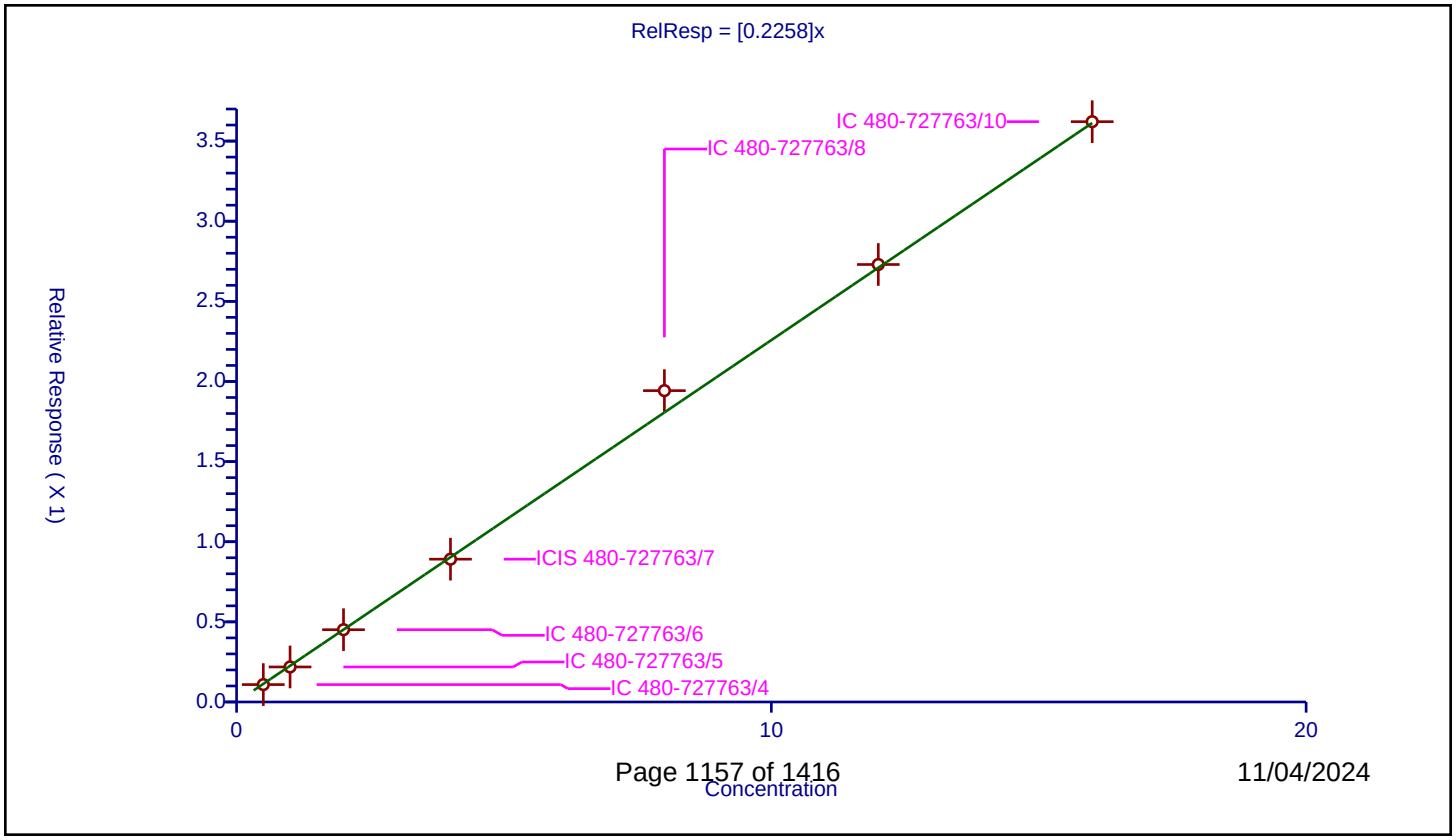
Curve Coefficients

Intercept:	0
Slope:	0.2258

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.108537	4.0	732507.0	0.217074	Y
2	IC 480-727763/5	1.0	0.218599	4.0	739822.0	0.218599	Y
3	IC 480-727763/6	2.0	0.451043	4.0	719816.0	0.225522	Y
4	ICIS 480-727763/7	4.0	0.891174	4.0	755758.0	0.222794	Y
5	IC 480-727763/8	8.0	1.942652	4.0	708238.0	0.242832	Y
6	IC 480-727763/9	12.0	2.729805	4.0	730313.0	0.227484	Y
7	IC 480-727763/10	16.0	3.621037	4.0	738805.0	0.226315	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

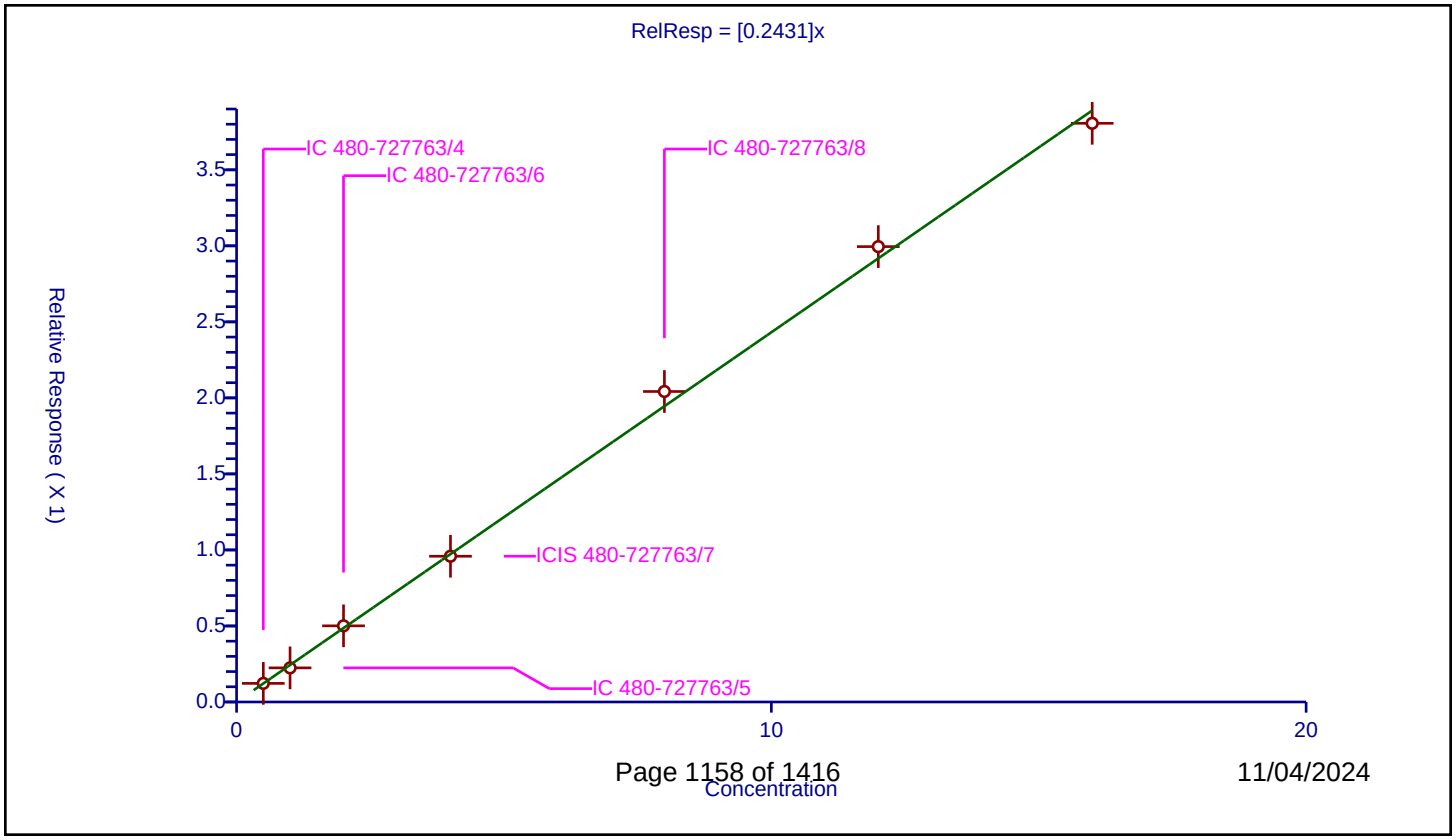
Curve Coefficients

Intercept:	0
Slope:	0.2431

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.122402	4.0	732507.0	0.244803	Y
2	IC 480-727763/5	1.0	0.224405	4.0	739822.0	0.224405	Y
3	IC 480-727763/6	2.0	0.500772	4.0	719816.0	0.250386	Y
4	ICIS 480-727763/7	4.0	0.958619	4.0	755758.0	0.239655	Y
5	IC 480-727763/8	8.0	2.042189	4.0	708238.0	0.255274	Y
6	IC 480-727763/9	12.0	2.99493	4.0	730313.0	0.249577	Y
7	IC 480-727763/10	16.0	3.805952	4.0	738805.0	0.237872	Y



Calibration / Atrazine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

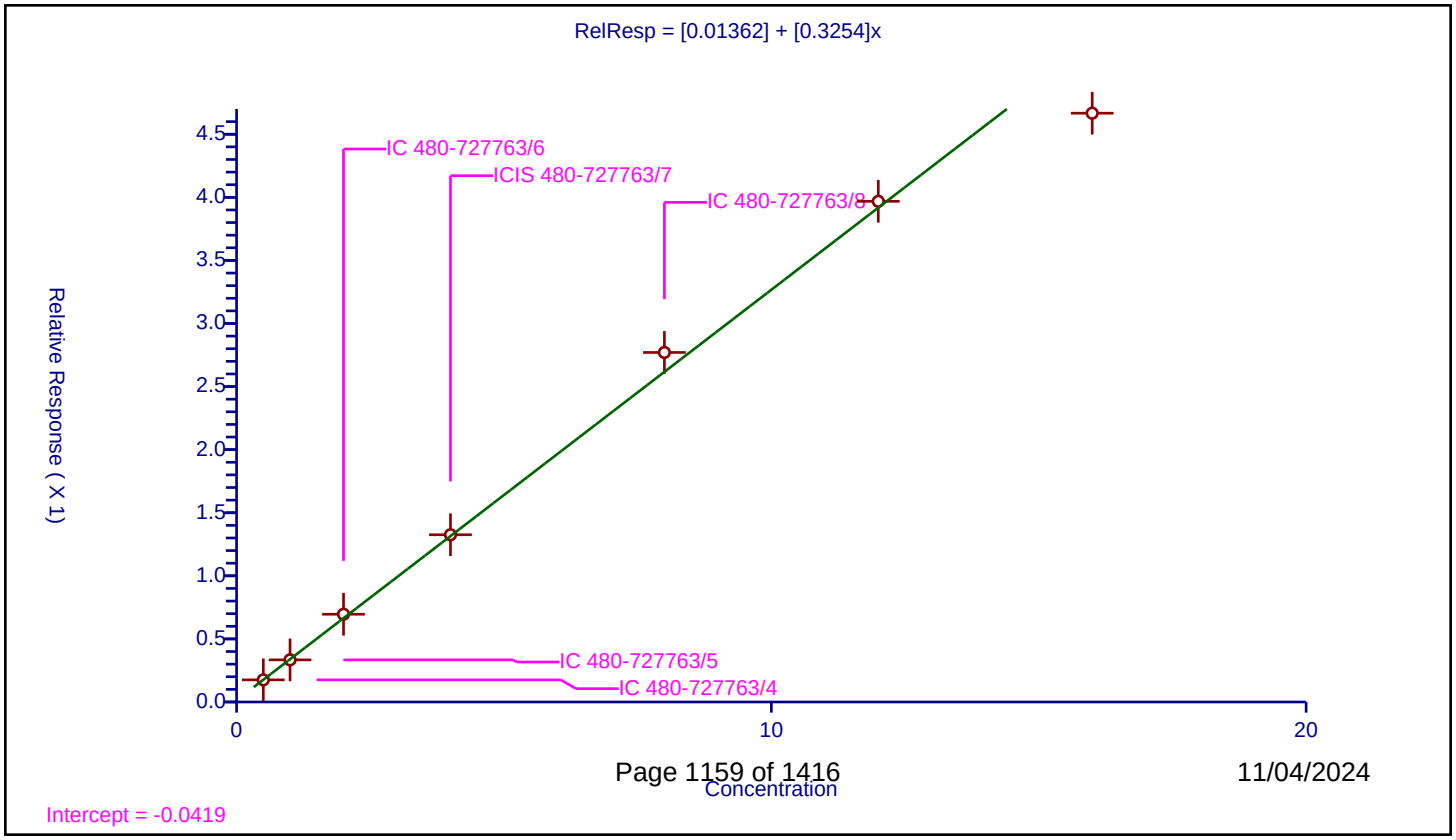
Curve Coefficients

Intercept:	0.01362
Slope:	0.3254

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.175343	4.0	425703.0	0.350686	Y
2	IC 480-727763/5	1.0	0.333766	4.0	436509.0	0.333766	Y
3	IC 480-727763/6	2.0	0.695549	4.0	440182.0	0.347774	Y
4	ICIS 480-727763/7	4.0	1.325464	4.0	455089.0	0.331366	Y
5	IC 480-727763/8	8.0	2.770495	4.0	415416.0	0.346312	Y
6	IC 480-727763/9	12.0	3.968562	4.0	433234.0	0.330714	Y
7	IC 480-727763/10	16.0	4.666779	4.0	438004.0	0.291674	Y



Calibration / n-Octadecane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

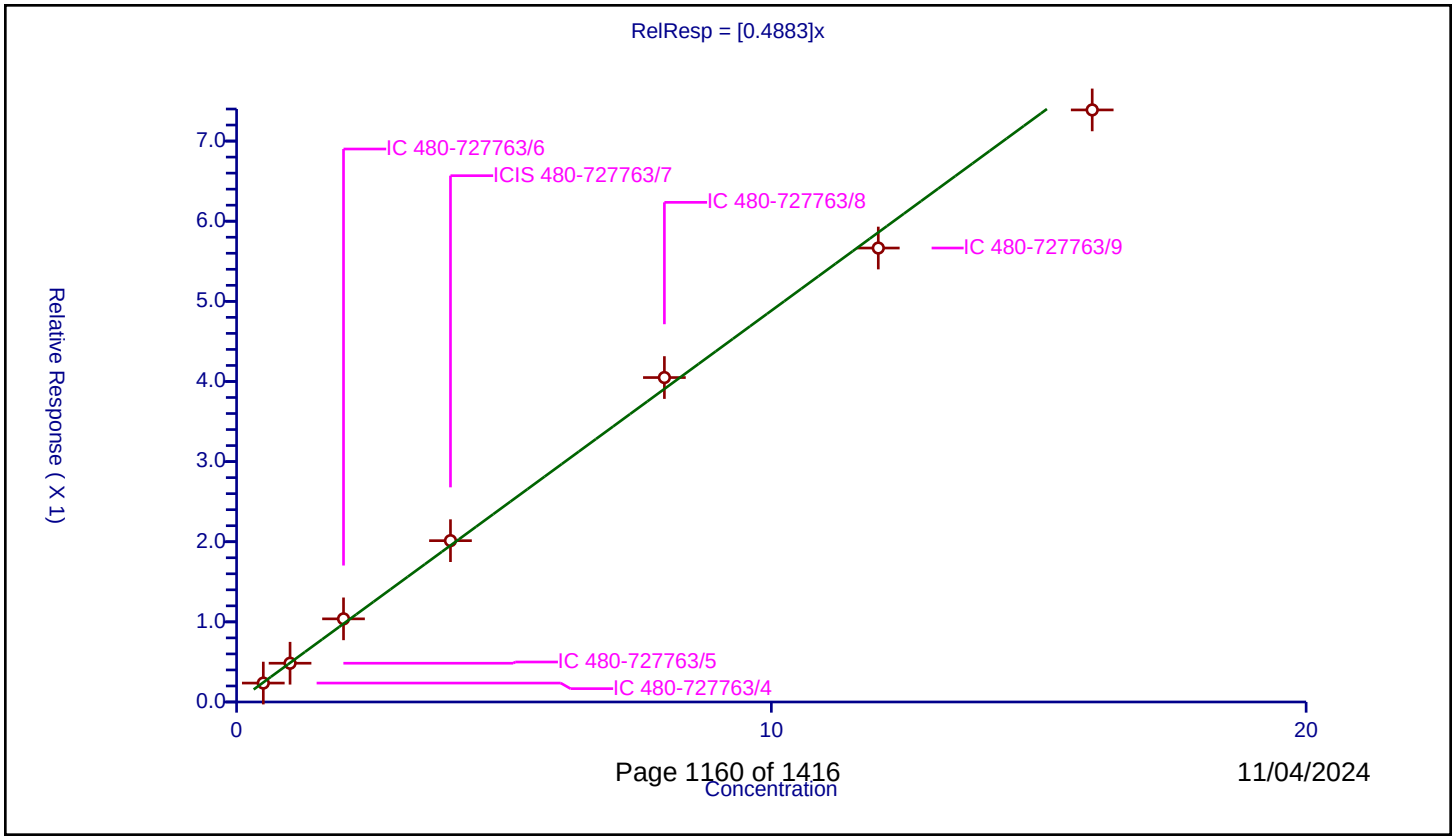
Curve Coefficients

Intercept:	0
Slope:	0.4883

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.236213	4.0	732507.0	0.472427	Y
2	IC 480-727763/5	1.0	0.483841	4.0	739822.0	0.483841	Y
3	IC 480-727763/6	2.0	1.037554	4.0	719816.0	0.518777	Y
4	ICIS 480-727763/7	4.0	2.013242	4.0	755758.0	0.503311	Y
5	IC 480-727763/8	8.0	4.048876	4.0	708238.0	0.50611	Y
6	IC 480-727763/9	12.0	5.665259	4.0	730313.0	0.472105	Y
7	IC 480-727763/10	16.0	7.388791	4.0	738805.0	0.461799	Y



Calibration / Pentachlorophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

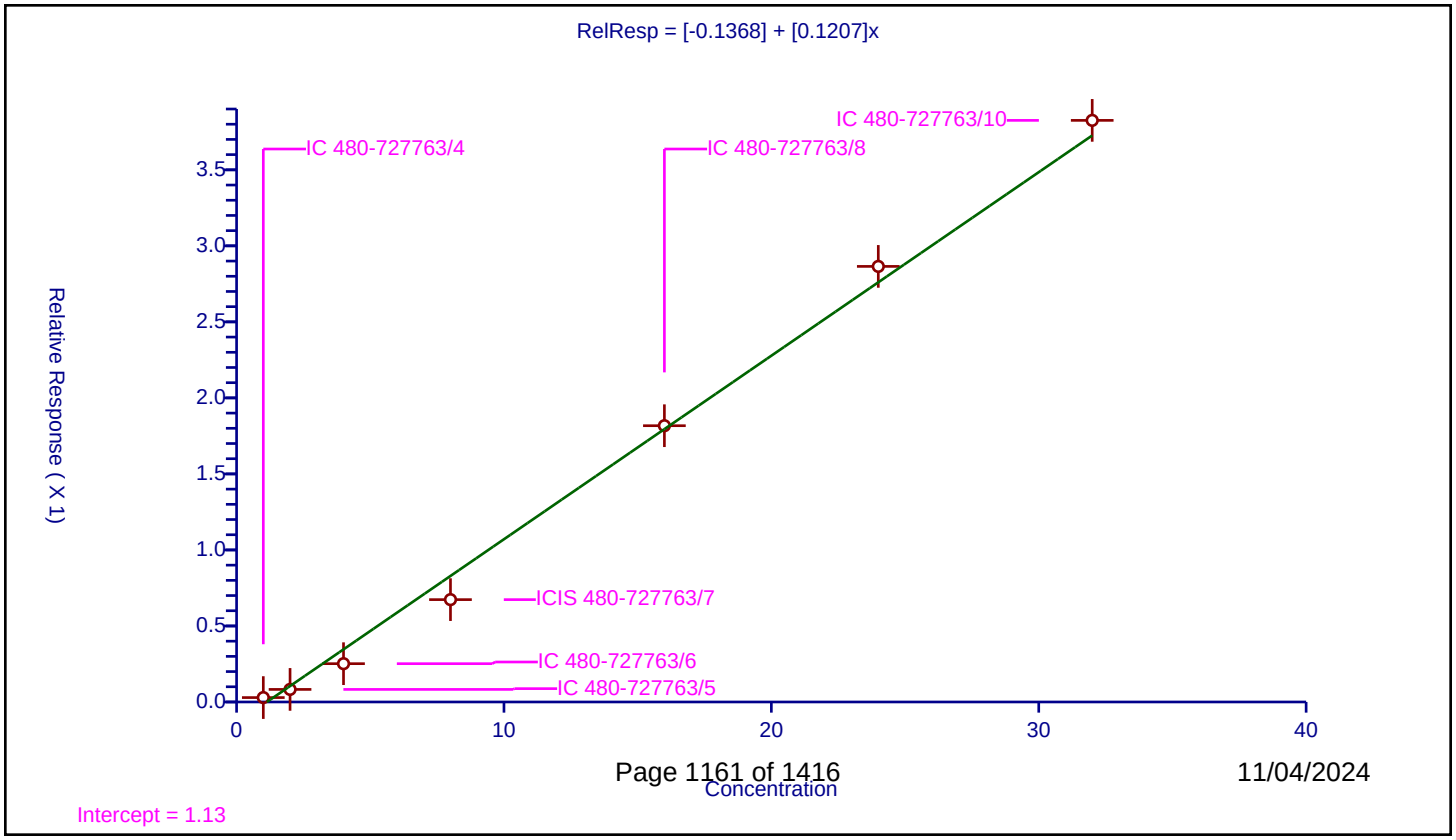
Curve Coefficients

Intercept:	-0.1368
Slope:	0.1207

Error Coefficients

Relative Standard Deviation:	20.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.028985	4.0	732507.0	0.028985	Y
2	IC 480-727763/5	2.0	0.082728	4.0	739822.0	0.041364	Y
3	IC 480-727763/6	4.0	0.252014	4.0	719816.0	0.063004	Y
4	ICIS 480-727763/7	8.0	0.673216	4.0	755758.0	0.084152	Y
5	IC 480-727763/8	16.0	1.817174	4.0	708238.0	0.113573	Y
6	IC 480-727763/9	24.0	2.864832	4.0	730313.0	0.119368	Y
7	IC 480-727763/10	32.0	3.825291	4.0	738805.0	0.11954	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

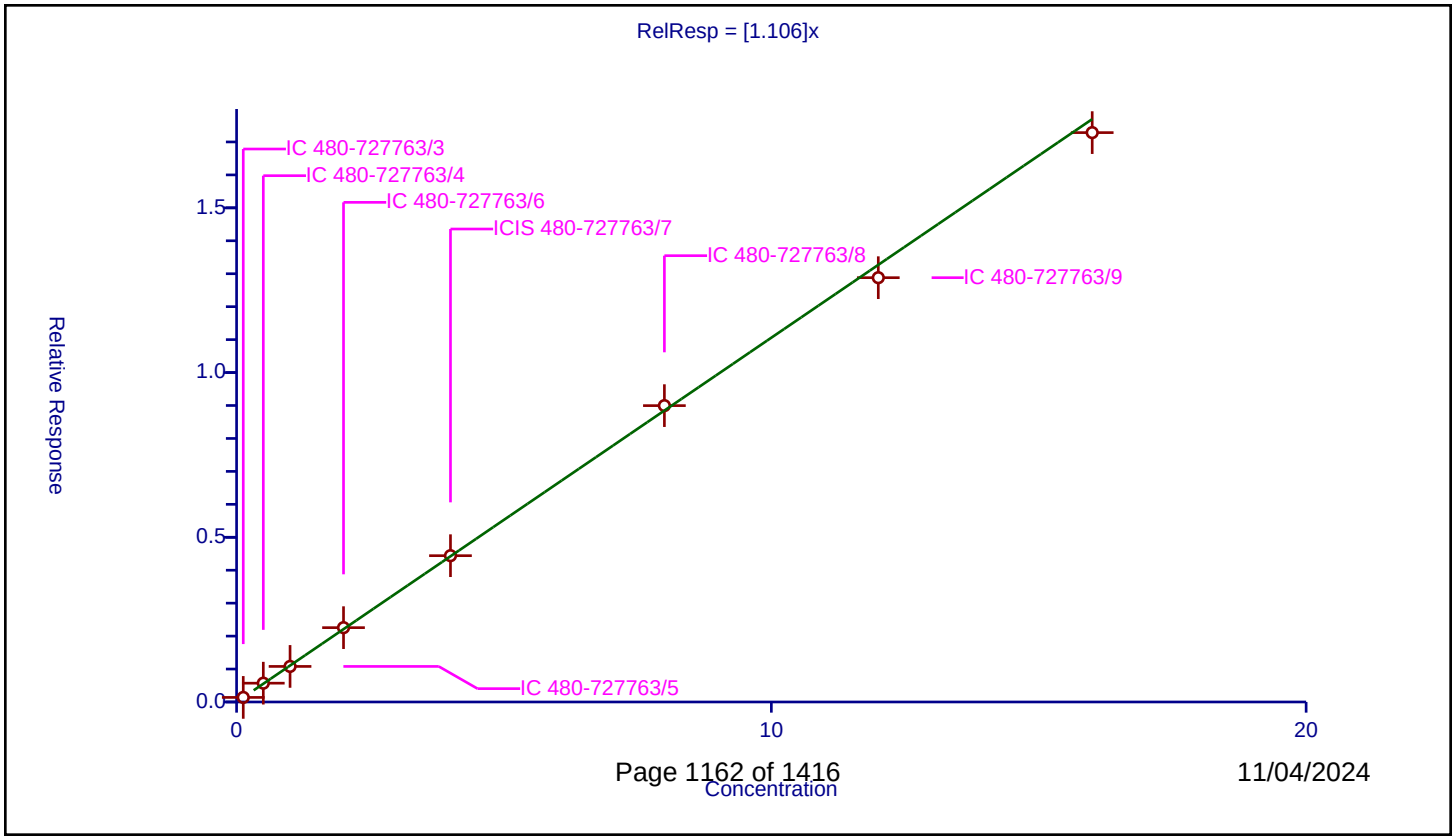
Curve Coefficients

Intercept:	0
Slope:	1.106

Error Coefficients

Relative Standard Deviation:	2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.138482	4.0	713621.0	1.10786	Y
2	IC 480-727763/4	0.5	0.571238	4.0	732507.0	1.142476	Y
3	IC 480-727763/5	1.0	1.079406	4.0	739822.0	1.079406	Y
4	IC 480-727763/6	2.0	2.256099	4.0	719816.0	1.128049	Y
5	ICIS 480-727763/7	4.0	4.441491	4.0	755758.0	1.110373	Y
6	IC 480-727763/8	8.0	8.996337	4.0	708238.0	1.124542	Y
7	IC 480-727763/9	12.0	12.880006	4.0	730313.0	1.073334	Y
8	IC 480-727763/10	16.0	17.283857	4.0	738805.0	1.080241	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

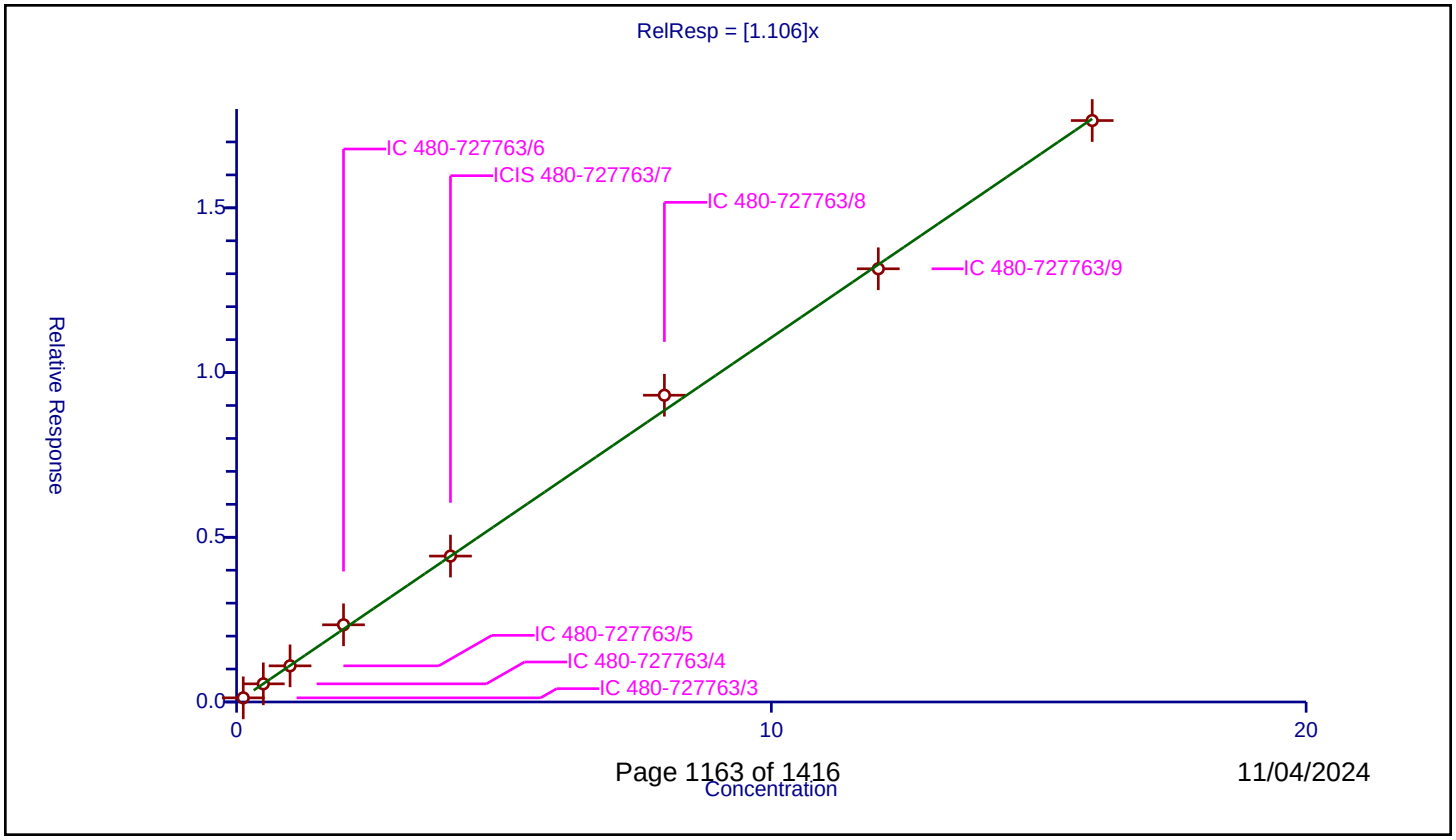
Curve Coefficients

Intercept:	0
Slope:	1.106

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.126252	4.0	713621.0	1.010015	Y
2	IC 480-727763/4	0.5	0.550837	4.0	732507.0	1.101674	Y
3	IC 480-727763/5	1.0	1.09761	4.0	739822.0	1.09761	Y
4	IC 480-727763/6	2.0	2.343304	4.0	719816.0	1.171652	Y
5	ICIS 480-727763/7	4.0	4.429365	4.0	755758.0	1.107341	Y
6	IC 480-727763/8	8.0	9.311678	4.0	708238.0	1.16396	Y
7	IC 480-727763/9	12.0	13.150126	4.0	730313.0	1.095844	Y
8	IC 480-727763/10	16.0	17.650335	4.0	738805.0	1.103146	Y



Calibration / Carbazole

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

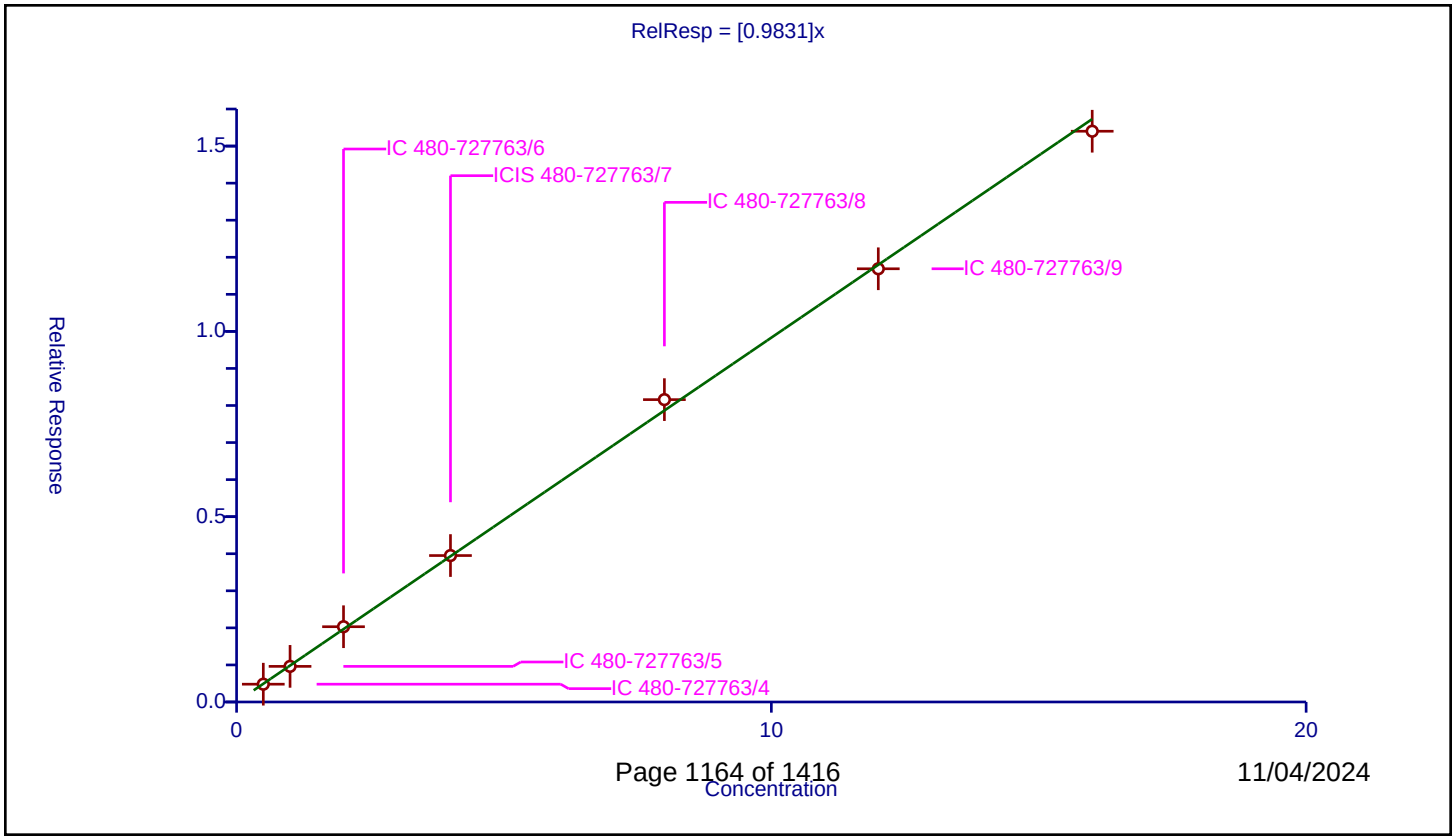
Curve Coefficients

Intercept:	0
Slope:	0.9831

Error Coefficients

Relative Standard Deviation:	2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.480334	4.0	732507.0	0.960668	Y
2	IC 480-727763/5	1.0	0.961264	4.0	739822.0	0.961264	Y
3	IC 480-727763/6	2.0	2.030563	4.0	719816.0	1.015282	Y
4	ICIS 480-727763/7	4.0	3.95136	4.0	755758.0	0.98784	Y
5	IC 480-727763/8	8.0	8.158178	4.0	708238.0	1.019772	Y
6	IC 480-727763/9	12.0	11.689131	4.0	730313.0	0.974094	Y
7	IC 480-727763/10	16.0	15.40067	4.0	738805.0	0.962542	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

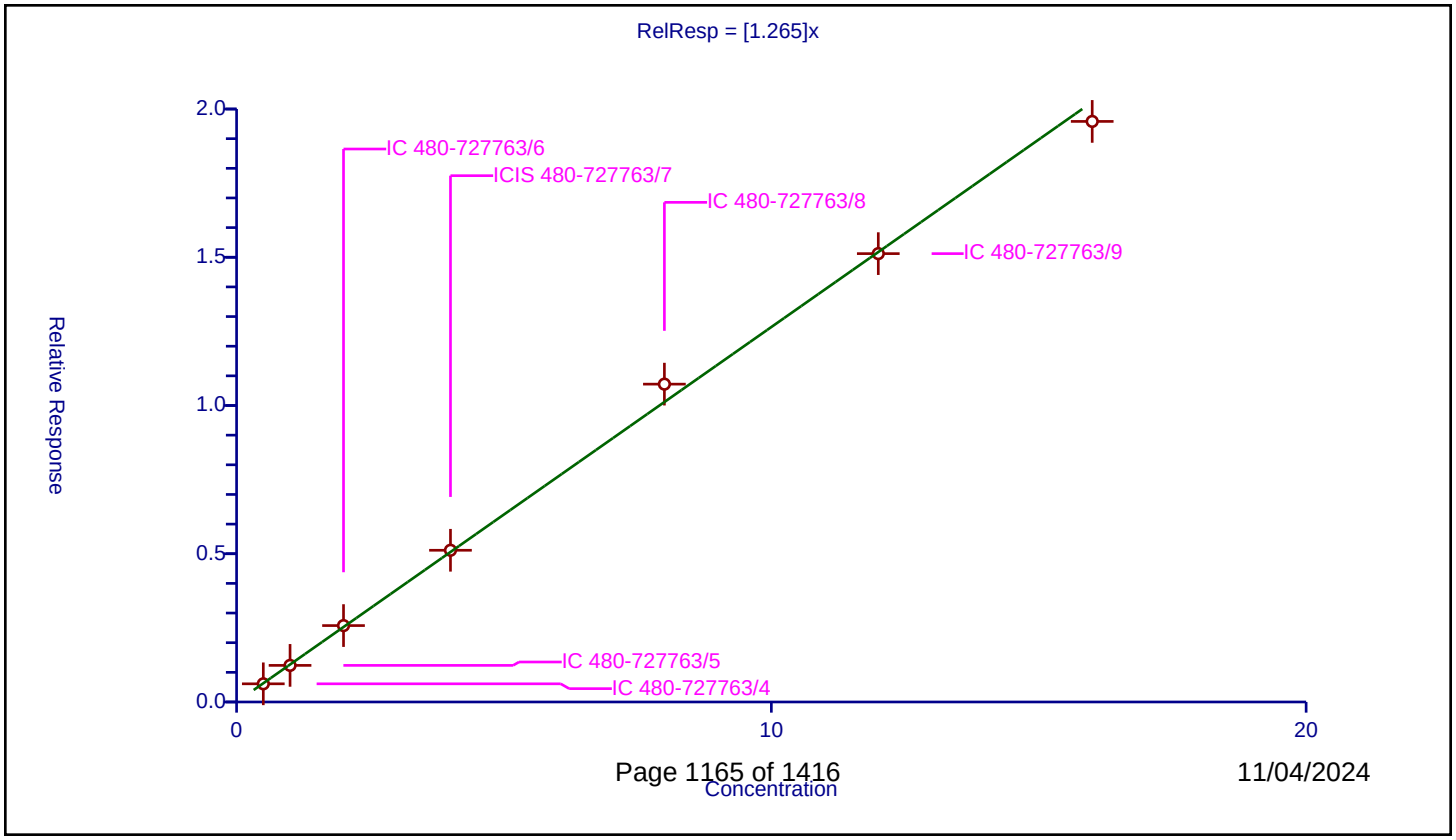
Curve Coefficients

Intercept:	0
Slope:	1.265

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.612942	4.0	732507.0	1.225883	Y
2	IC 480-727763/5	1.0	1.234659	4.0	739822.0	1.234659	Y
3	IC 480-727763/6	2.0	2.576836	4.0	719816.0	1.288418	Y
4	ICIS 480-727763/7	4.0	5.117612	4.0	755758.0	1.279403	Y
5	IC 480-727763/8	8.0	10.721091	4.0	708238.0	1.340136	Y
6	IC 480-727763/9	12.0	15.122688	4.0	730313.0	1.260224	Y
7	IC 480-727763/10	16.0	19.581936	4.0	738805.0	1.223871	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

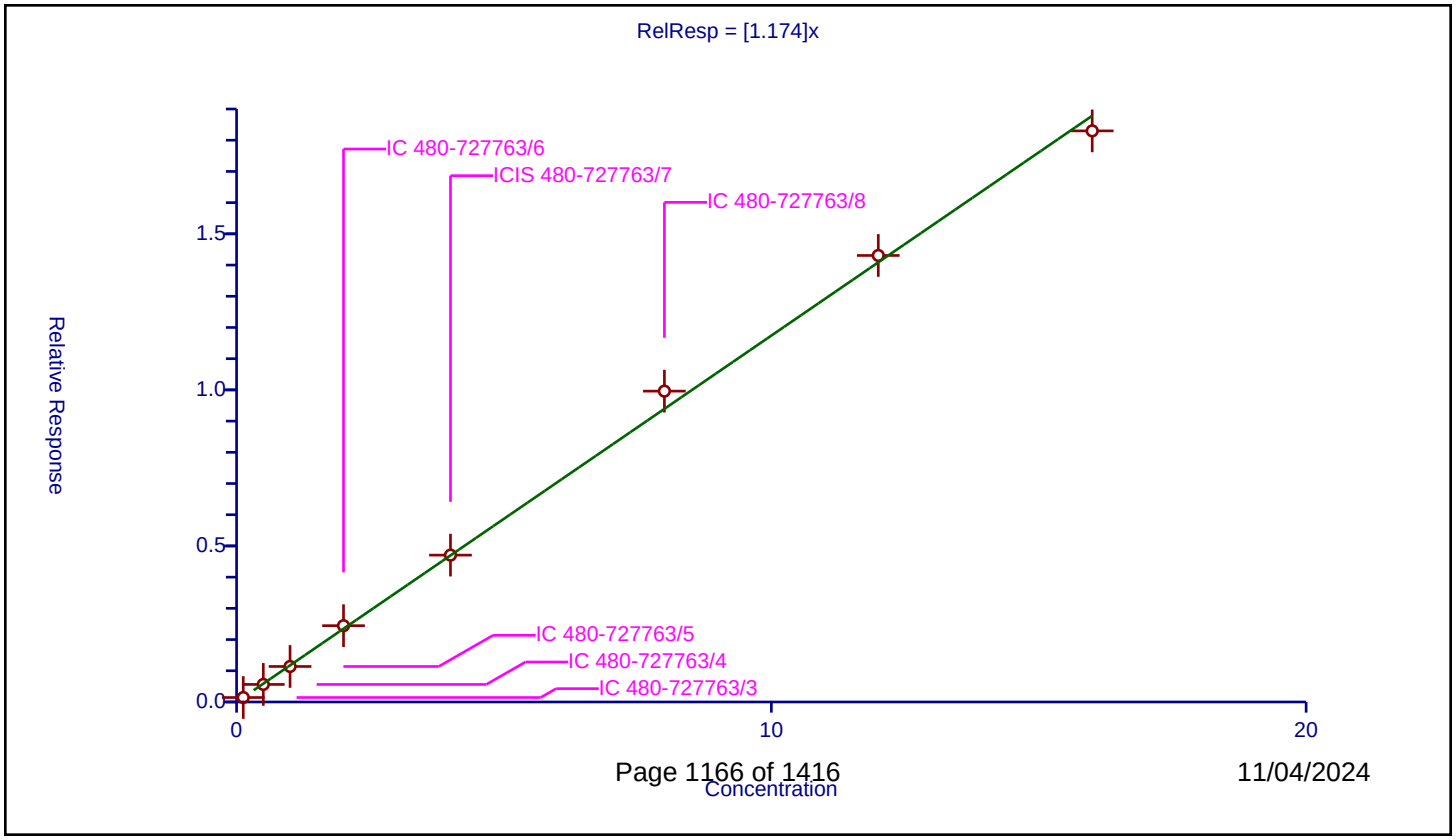
Curve Coefficients

Intercept:	0
Slope:	1.174

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.143499	4.0	713621.0	1.147993	Y
2	IC 480-727763/4	0.5	0.562834	4.0	732507.0	1.125668	Y
3	IC 480-727763/5	1.0	1.13809	4.0	739822.0	1.13809	Y
4	IC 480-727763/6	2.0	2.444658	4.0	719816.0	1.222329	Y
5	ICIS 480-727763/7	4.0	4.706025	4.0	755758.0	1.176506	Y
6	IC 480-727763/8	8.0	9.960347	4.0	708238.0	1.245043	Y
7	IC 480-727763/9	12.0	14.307646	4.0	730313.0	1.192304	Y
8	IC 480-727763/10	16.0	18.2996	4.0	738805.0	1.143725	Y



Calibration / Benzidine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

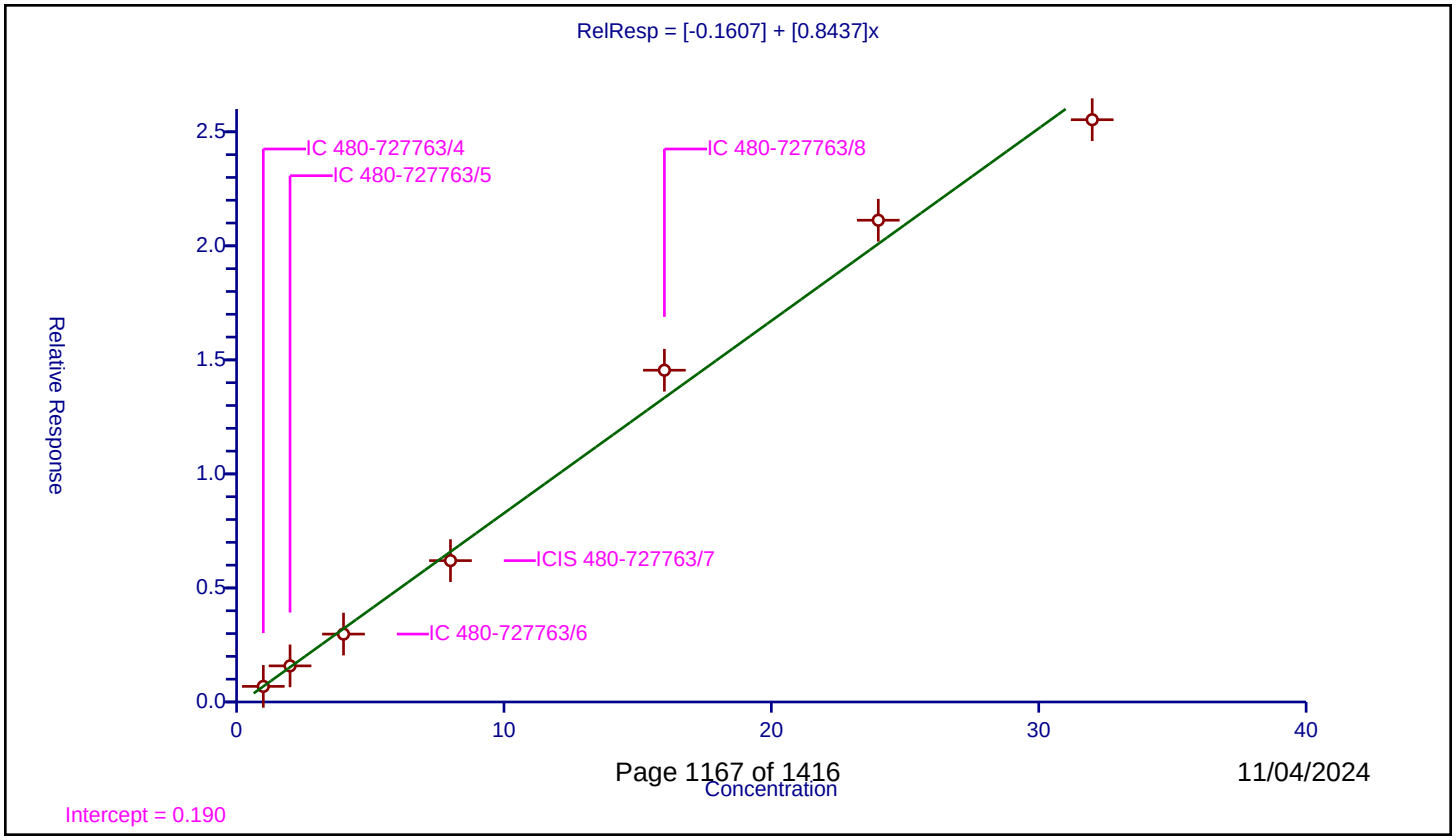
Curve Coefficients

Intercept:	-0.1607
Slope:	0.8437

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.684395	4.0	637234.0	0.684395	Y
2	IC 480-727763/5	2.0	1.583502	4.0	654448.0	0.791751	Y
3	IC 480-727763/6	4.0	2.977851	4.0	654159.0	0.744463	Y
4	ICIS 480-727763/7	8.0	6.199038	4.0	695335.0	0.77488	Y
5	IC 480-727763/8	16.0	14.546657	4.0	625760.0	0.909166	Y
6	IC 480-727763/9	24.0	21.124023	4.0	646275.0	0.880168	Y
7	IC 480-727763/10	32.0	25.530627	4.0	685110.0	0.797832	Y



11/04/2024

Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

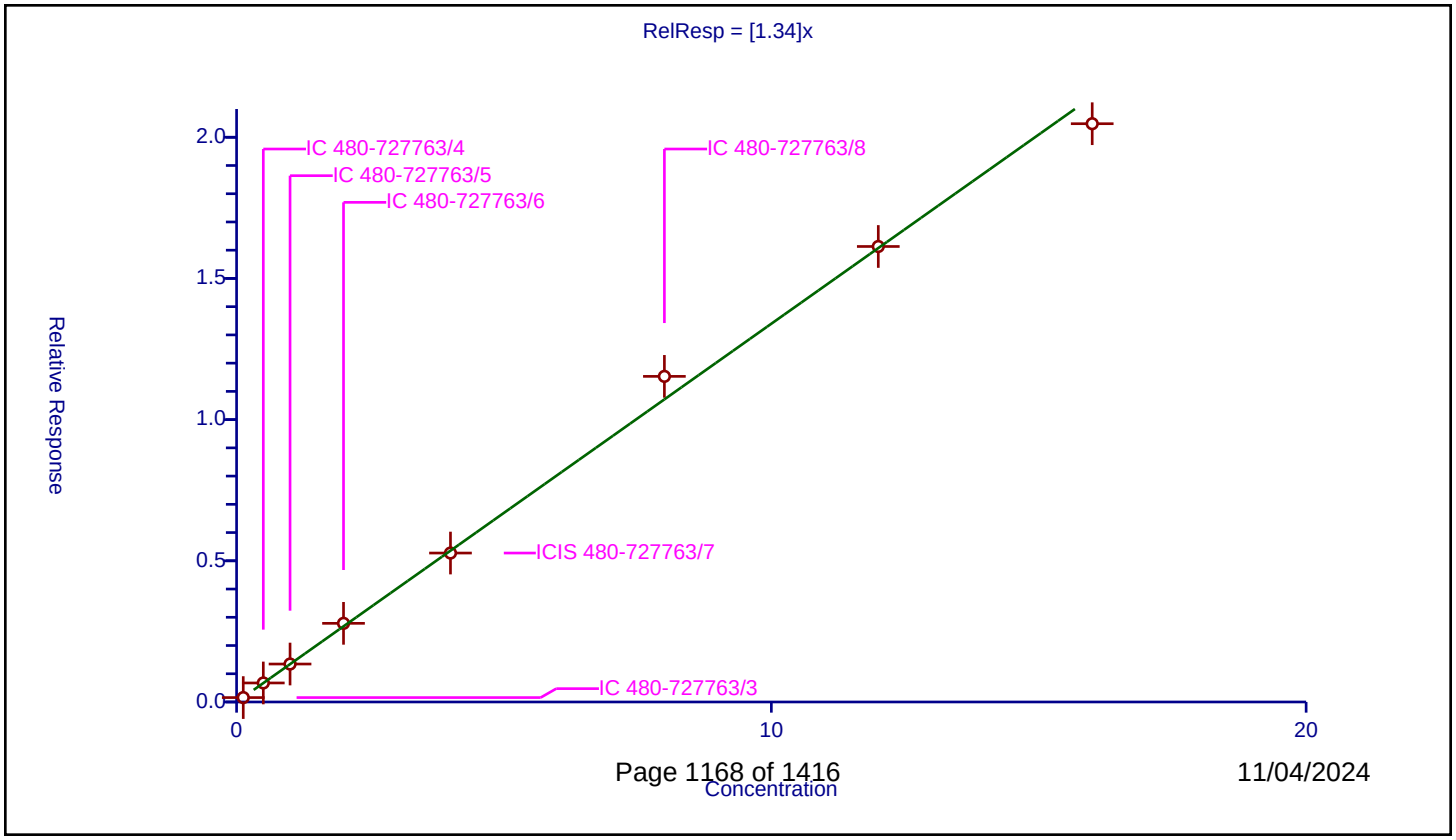
Curve Coefficients

Intercept:	0
Slope:	1.34

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.155859	4.0	629775.0	1.246871	Y
2	IC 480-727763/4	0.5	0.673975	4.0	637234.0	1.347951	Y
3	IC 480-727763/5	1.0	1.344804	4.0	654448.0	1.344804	Y
4	IC 480-727763/6	2.0	2.785323	4.0	654159.0	1.392661	Y
5	ICIS 480-727763/7	4.0	5.27485	4.0	695335.0	1.318713	Y
6	IC 480-727763/8	8.0	11.531341	4.0	625760.0	1.441418	Y
7	IC 480-727763/9	12.0	16.131622	4.0	646275.0	1.344302	Y
8	IC 480-727763/10	16.0	20.479281	4.0	685110.0	1.279955	Y



Calibration / p-Terphenyl-d14

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

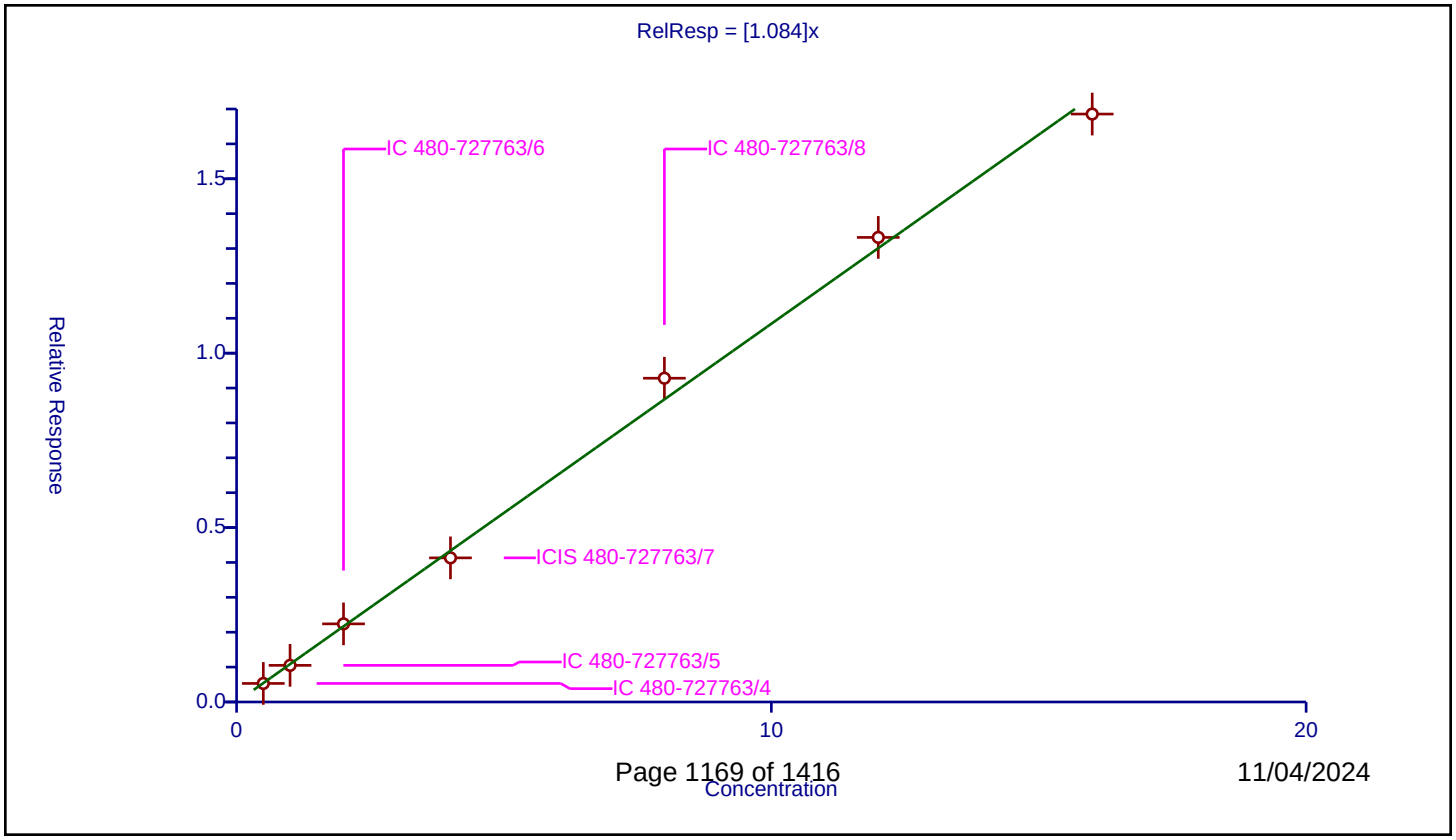
Curve Coefficients

Intercept:	0
Slope:	1.084

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.531855	4.0	637234.0	1.06371	Y
2	IC 480-727763/5	1.0	1.050039	4.0	654448.0	1.050039	Y
3	IC 480-727763/6	2.0	2.239645	4.0	654159.0	1.119823	Y
4	ICIS 480-727763/7	4.0	4.131942	4.0	695335.0	1.032986	Y
5	IC 480-727763/8	8.0	9.282345	4.0	625760.0	1.160293	Y
6	IC 480-727763/9	12.0	13.319154	4.0	646275.0	1.109929	Y
7	IC 480-727763/10	16.0	16.85553	4.0	685110.0	1.053471	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

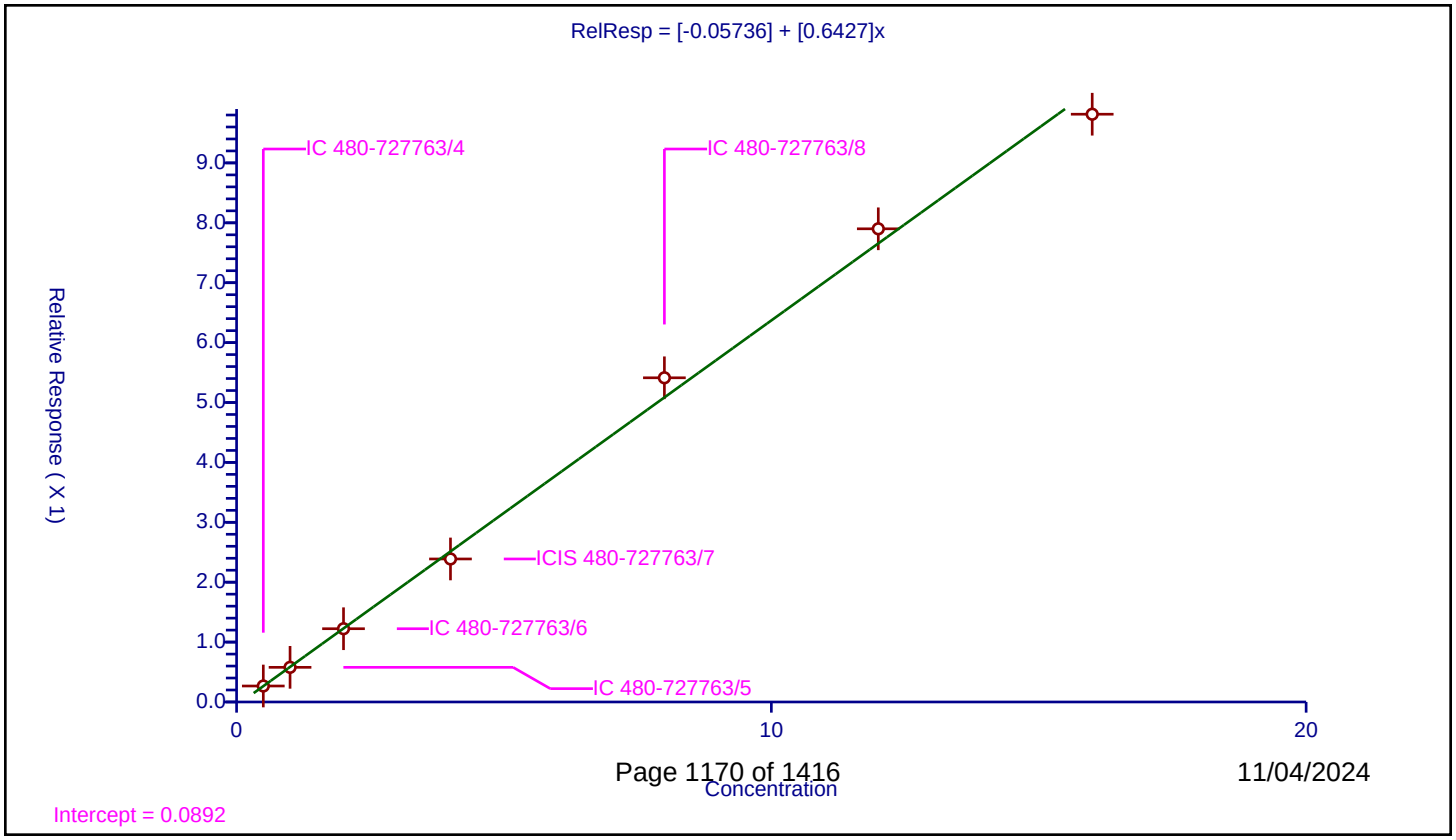
Curve Coefficients

Intercept:	-0.05736
Slope:	0.6427

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.266721	4.0	637234.0	0.533443	Y
2	IC 480-727763/5	1.0	0.578527	4.0	654448.0	0.578527	Y
3	IC 480-727763/6	2.0	1.223005	4.0	654159.0	0.611503	Y
4	ICIS 480-727763/7	4.0	2.387718	4.0	695335.0	0.59693	Y
5	IC 480-727763/8	8.0	5.412522	4.0	625760.0	0.676565	Y
6	IC 480-727763/9	12.0	7.900129	4.0	646275.0	0.658344	Y
7	IC 480-727763/10	16.0	9.812988	4.0	685110.0	0.613312	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

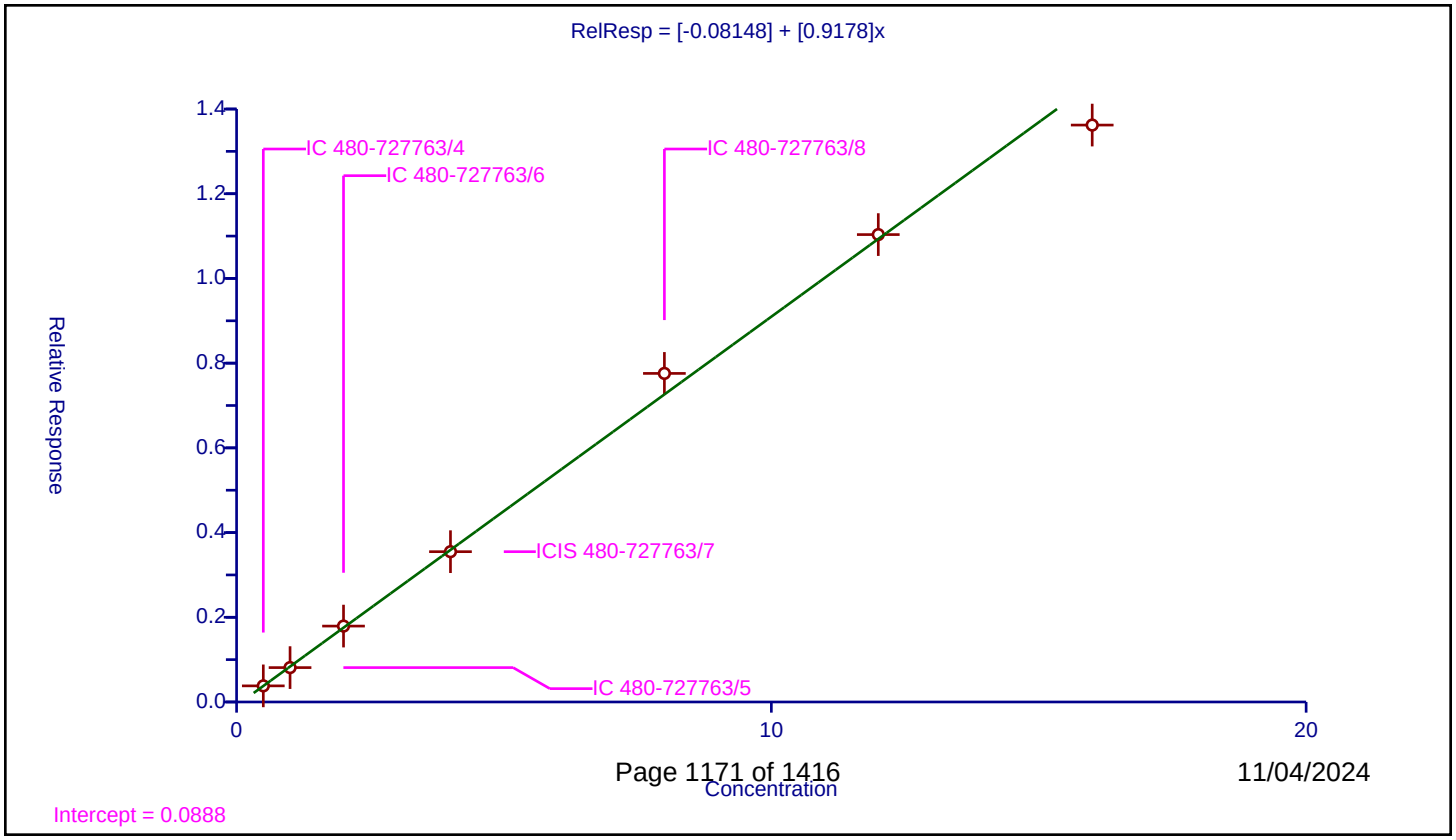
Curve Coefficients

Intercept:	-0.08148
Slope:	0.9178

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.380607	4.0	637234.0	0.761215	Y
2	IC 480-727763/5	1.0	0.81208	4.0	654448.0	0.81208	Y
3	IC 480-727763/6	2.0	1.79239	4.0	654159.0	0.896195	Y
4	ICIS 480-727763/7	4.0	3.548482	4.0	695335.0	0.887121	Y
5	IC 480-727763/8	8.0	7.757594	4.0	625760.0	0.969699	Y
6	IC 480-727763/9	12.0	11.03542	4.0	646275.0	0.919618	Y
7	IC 480-727763/10	16.0	13.621205	4.0	685110.0	0.851325	Y



Calibration / 3,3'-Dichlorobenzidine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

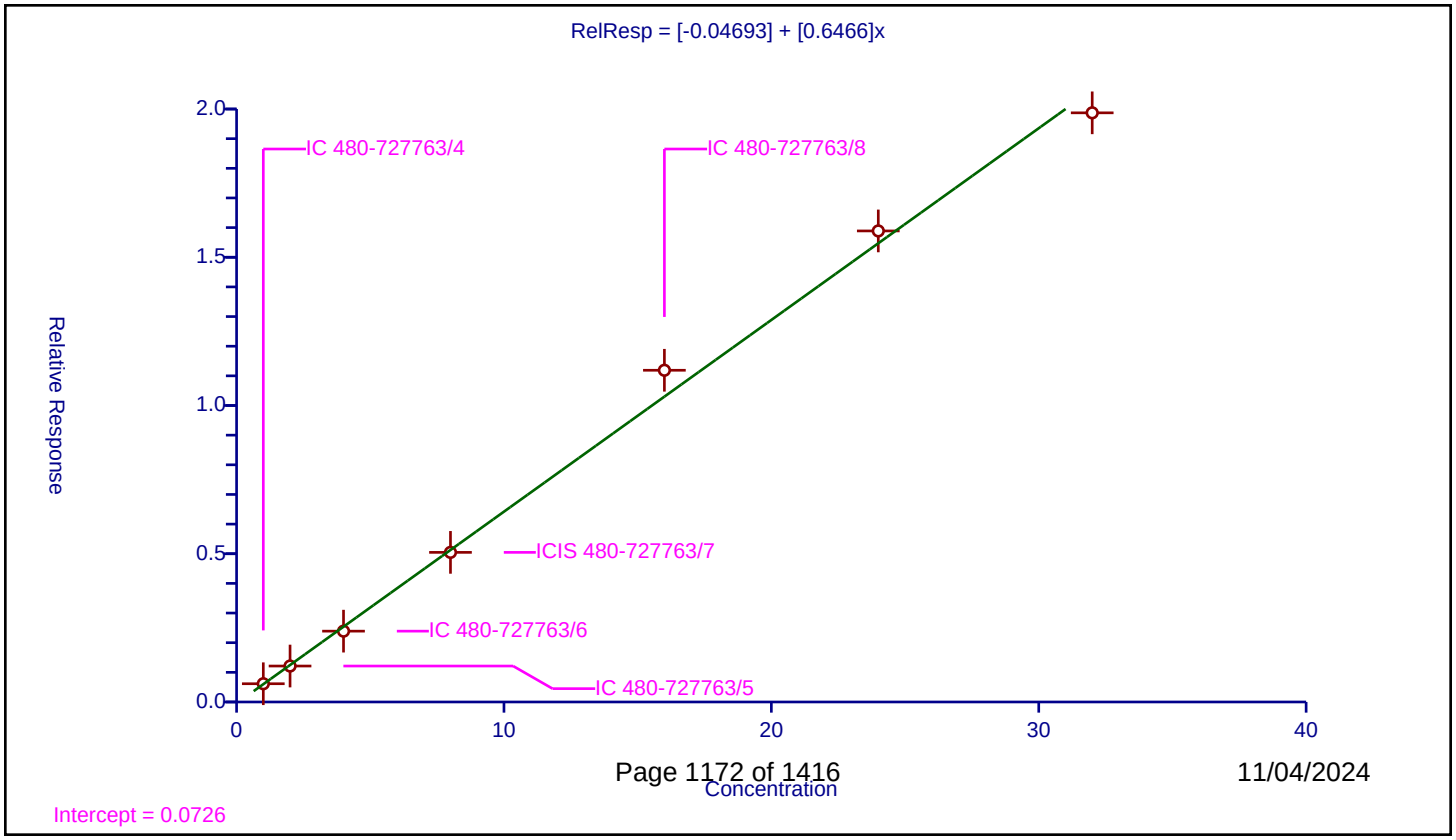
Curve Coefficients

Intercept:	-0.04693
Slope:	0.6466

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	1.0	0.615328	4.0	637234.0	0.615328	Y
2	IC 480-727763/5	2.0	1.212442	4.0	654448.0	0.606221	Y
3	IC 480-727763/6	4.0	2.389315	4.0	654159.0	0.597329	Y
4	ICIS 480-727763/7	8.0	5.045833	4.0	695335.0	0.630729	Y
5	IC 480-727763/8	16.0	11.188353	4.0	625760.0	0.699272	Y
6	IC 480-727763/9	24.0	15.888066	4.0	646275.0	0.662003	Y
7	IC 480-727763/10	32.0	19.871752	4.0	685110.0	0.620992	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

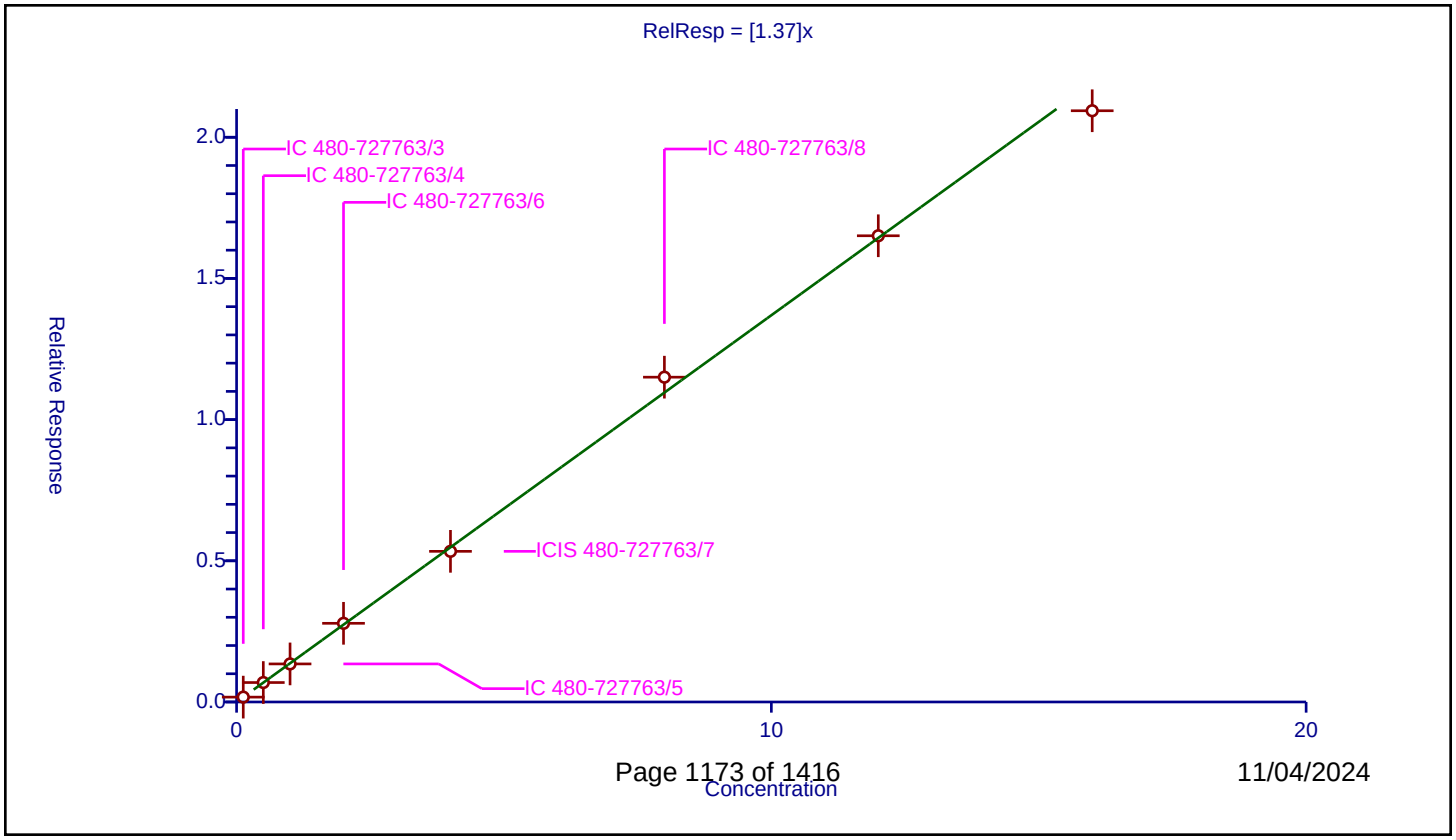
Curve Coefficients

Intercept:	0
Slope:	1.37

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.172671	4.0	629775.0	1.38137	Y
2	IC 480-727763/4	0.5	0.689103	4.0	637234.0	1.378206	Y
3	IC 480-727763/5	1.0	1.347725	4.0	654448.0	1.347725	Y
4	IC 480-727763/6	2.0	2.786381	4.0	654159.0	1.39319	Y
5	ICIS 480-727763/7	4.0	5.335086	4.0	695335.0	1.333771	Y
6	IC 480-727763/8	8.0	11.503394	4.0	625760.0	1.437924	Y
7	IC 480-727763/9	12.0	16.511423	4.0	646275.0	1.375952	Y
8	IC 480-727763/10	16.0	20.938641	4.0	685110.0	1.308665	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

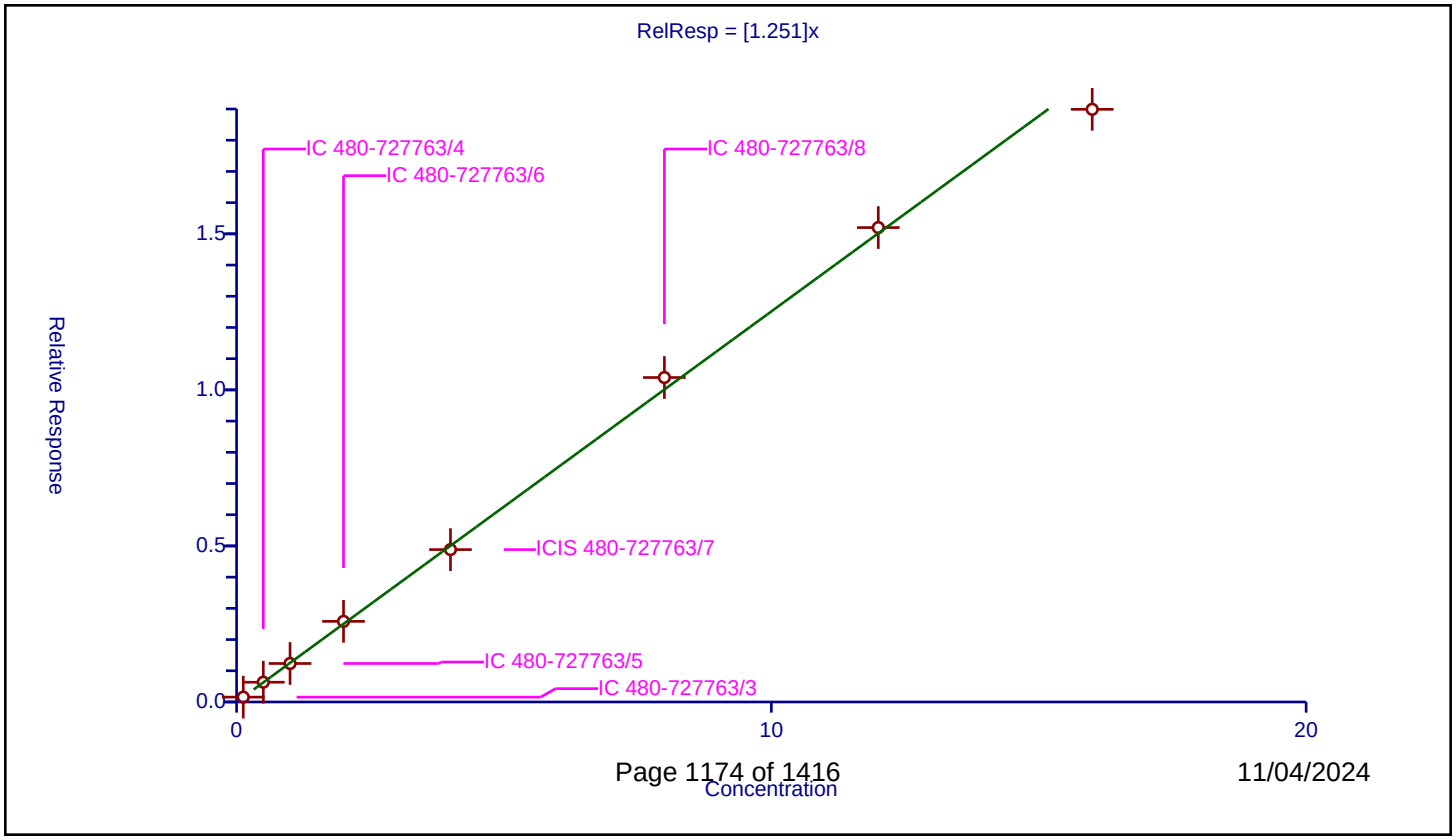
Curve Coefficients

Intercept:	0
Slope:	1.251

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.155687	4.0	629775.0	1.245499	Y
2	IC 480-727763/4	0.5	0.633526	4.0	637234.0	1.267051	Y
3	IC 480-727763/5	1.0	1.233223	4.0	654448.0	1.233223	Y
4	IC 480-727763/6	2.0	2.583451	4.0	654159.0	1.291726	Y
5	ICIS 480-727763/7	4.0	4.882953	4.0	695335.0	1.220738	Y
6	IC 480-727763/8	8.0	10.396293	4.0	625760.0	1.299537	Y
7	IC 480-727763/9	12.0	15.201294	4.0	646275.0	1.266774	Y
8	IC 480-727763/10	16.0	18.989406	4.0	685110.0	1.186838	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

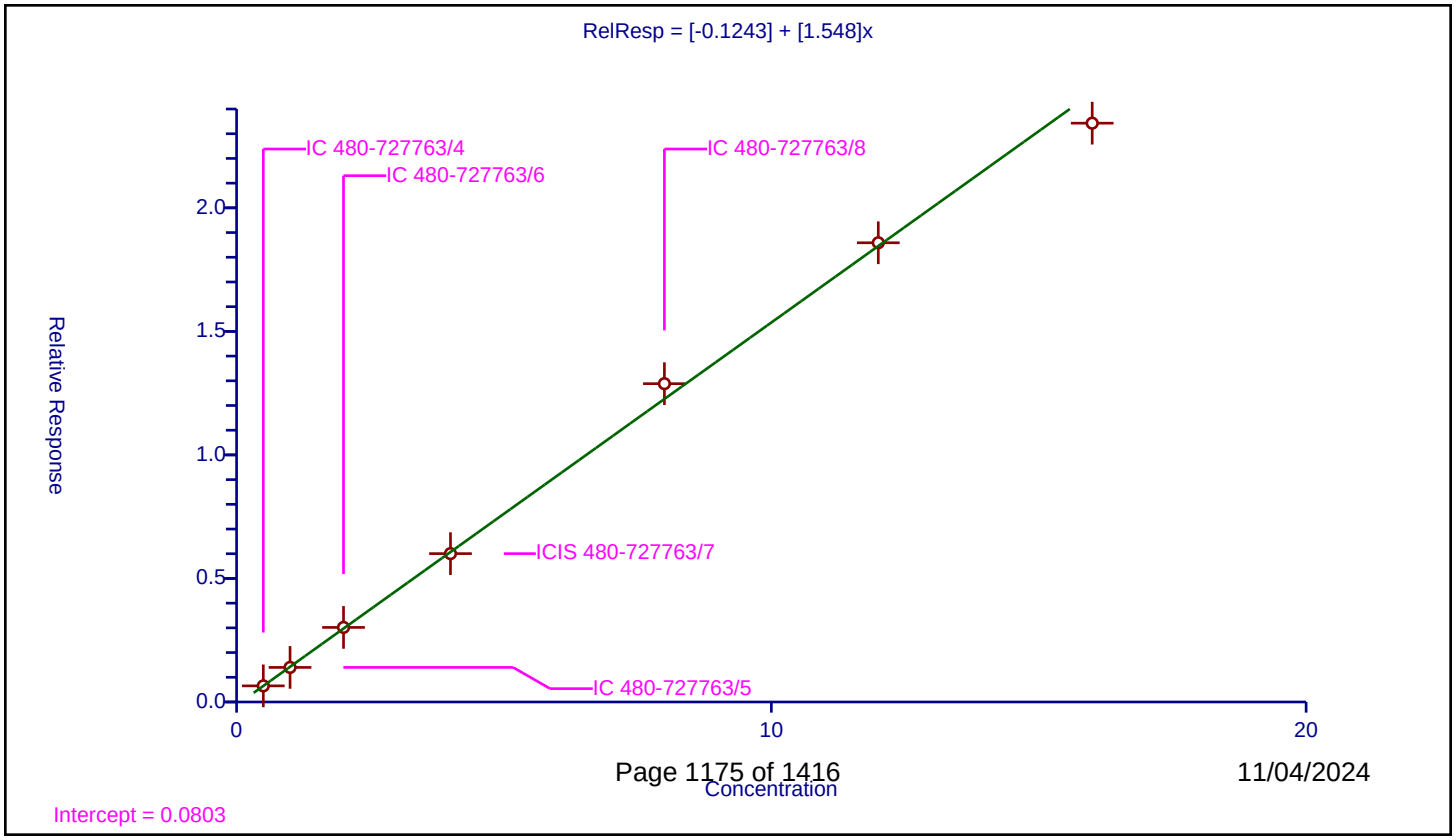
Curve Coefficients

Intercept:	-0.1243
Slope:	1.548

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/4	0.5	0.652765	4.0	637234.0	1.30553	Y
2	IC 480-727763/5	1.0	1.399298	4.0	654448.0	1.399298	Y
3	IC 480-727763/6	2.0	3.017994	4.0	654159.0	1.508997	Y
4	ICIS 480-727763/7	4.0	6.004565	4.0	695335.0	1.501141	Y
5	IC 480-727763/8	8.0	12.883514	4.0	625760.0	1.610439	Y
6	IC 480-727763/9	12.0	18.586645	4.0	646275.0	1.548887	Y
7	IC 480-727763/10	16.0	23.426568	4.0	685110.0	1.46416	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

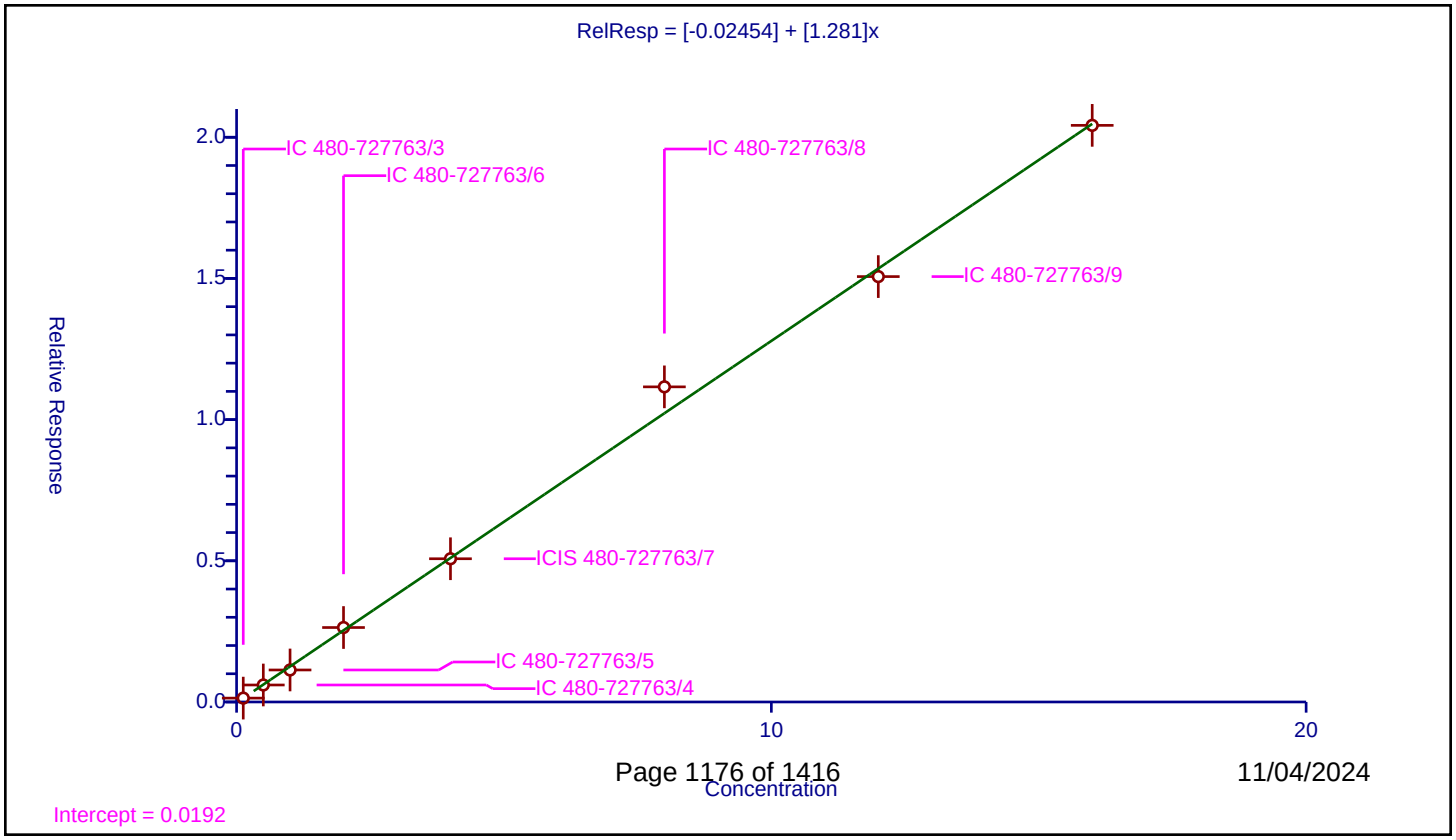
Curve Coefficients

Intercept:	-0.02454
Slope:	1.281

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.137853	4.0	714615.0	1.102826	Y
2	IC 480-727763/4	0.5	0.60177	4.0	680758.0	1.203541	Y
3	IC 480-727763/5	1.0	1.134205	4.0	739443.0	1.134205	Y
4	IC 480-727763/6	2.0	2.637422	4.0	725592.0	1.318711	Y
5	ICIS 480-727763/7	4.0	5.072624	4.0	758890.0	1.268156	Y
6	IC 480-727763/8	8.0	11.160422	4.0	700280.0	1.395053	Y
7	IC 480-727763/9	12.0	15.065392	4.0	721419.0	1.255449	Y
8	IC 480-727763/10	16.0	20.420984	4.0	756124.0	1.276311	Y



11/04/2024

Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

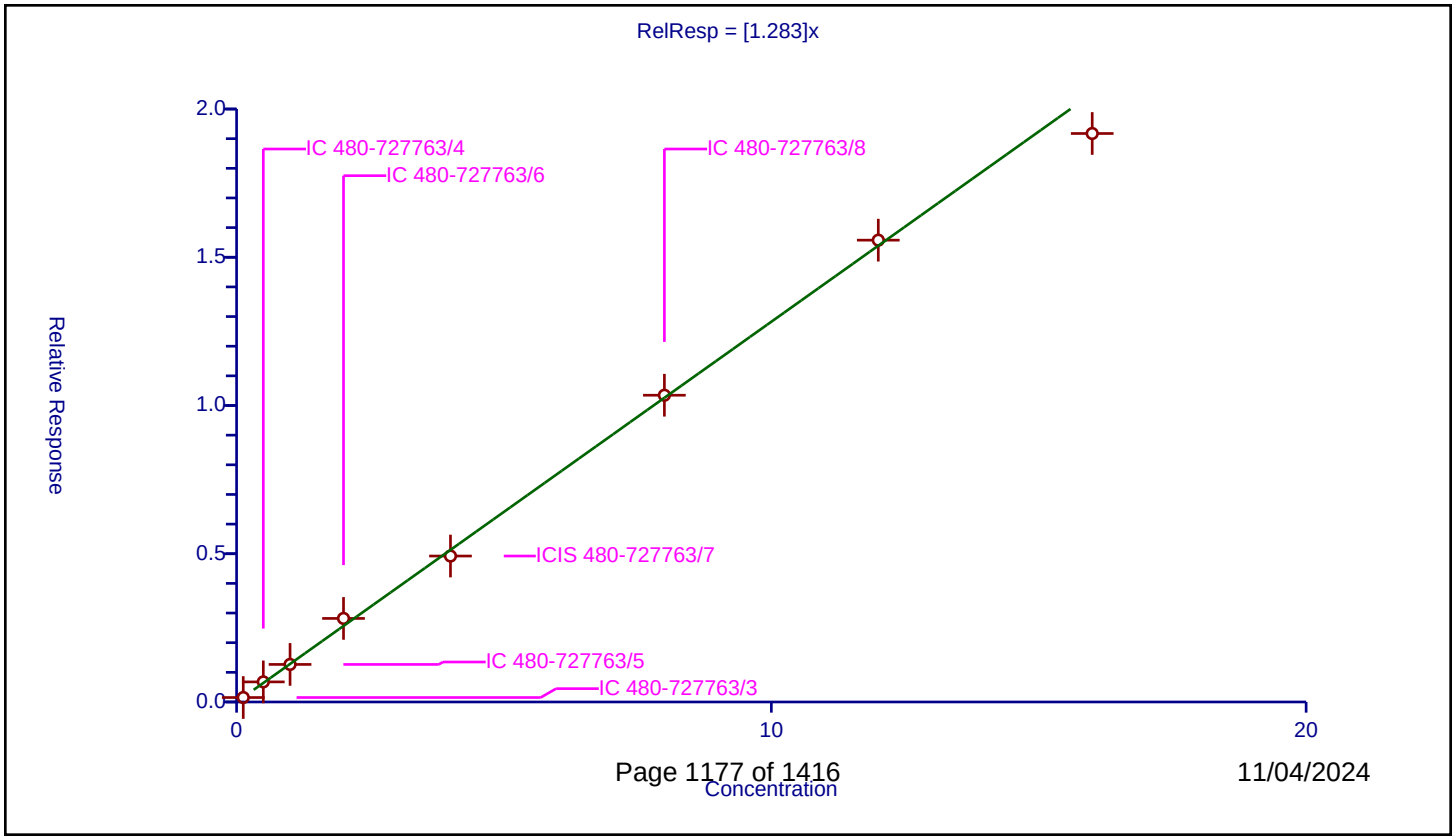
Curve Coefficients

Intercept:	0
Slope:	1.283

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.150962	4.0	714615.0	1.207699	Y
2	IC 480-727763/4	0.5	0.678079	4.0	680758.0	1.356159	Y
3	IC 480-727763/5	1.0	1.266775	4.0	739443.0	1.266775	Y
4	IC 480-727763/6	2.0	2.818047	4.0	725592.0	1.409023	Y
5	ICIS 480-727763/7	4.0	4.923422	4.0	758890.0	1.230856	Y
6	IC 480-727763/8	8.0	10.34673	4.0	700280.0	1.293341	Y
7	IC 480-727763/9	12.0	15.57639	4.0	721419.0	1.298033	Y
8	IC 480-727763/10	16.0	19.173892	4.0	756124.0	1.198368	Y



Calibration / Benzo[a]pyrene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

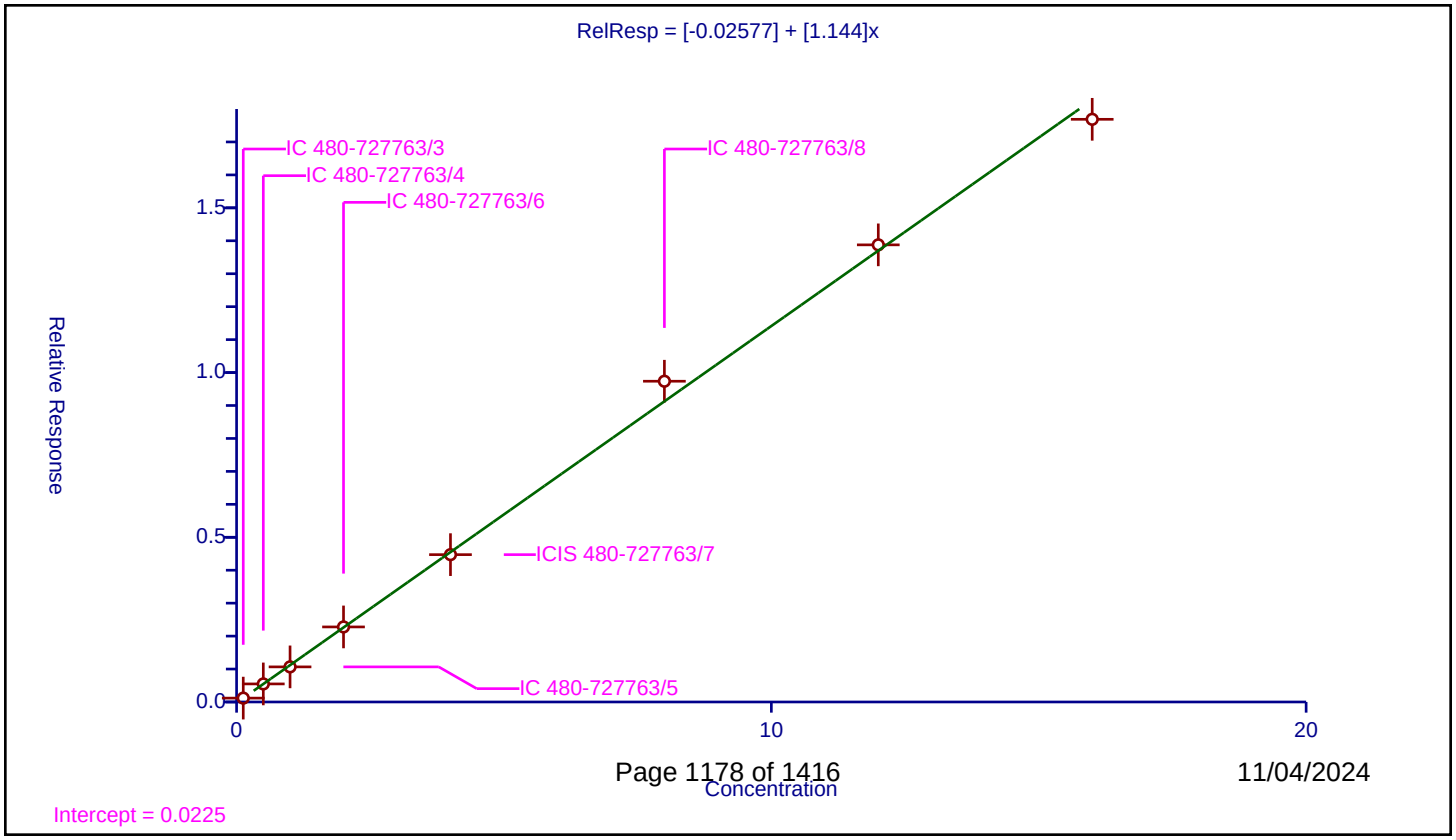
Curve Coefficients

Intercept:	-0.02577
Slope:	1.144

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.11777	4.0	714615.0	0.942158	Y
2	IC 480-727763/4	0.5	0.548207	4.0	680758.0	1.096413	Y
3	IC 480-727763/5	1.0	1.065835	4.0	739443.0	1.065835	Y
4	IC 480-727763/6	2.0	2.278366	4.0	725592.0	1.139183	Y
5	ICIS 480-727763/7	4.0	4.472458	4.0	758890.0	1.118115	Y
6	IC 480-727763/8	8.0	9.736922	4.0	700280.0	1.217115	Y
7	IC 480-727763/9	12.0	13.87669	4.0	721419.0	1.156391	Y
8	IC 480-727763/10	16.0	17.687607	4.0	756124.0	1.105475	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

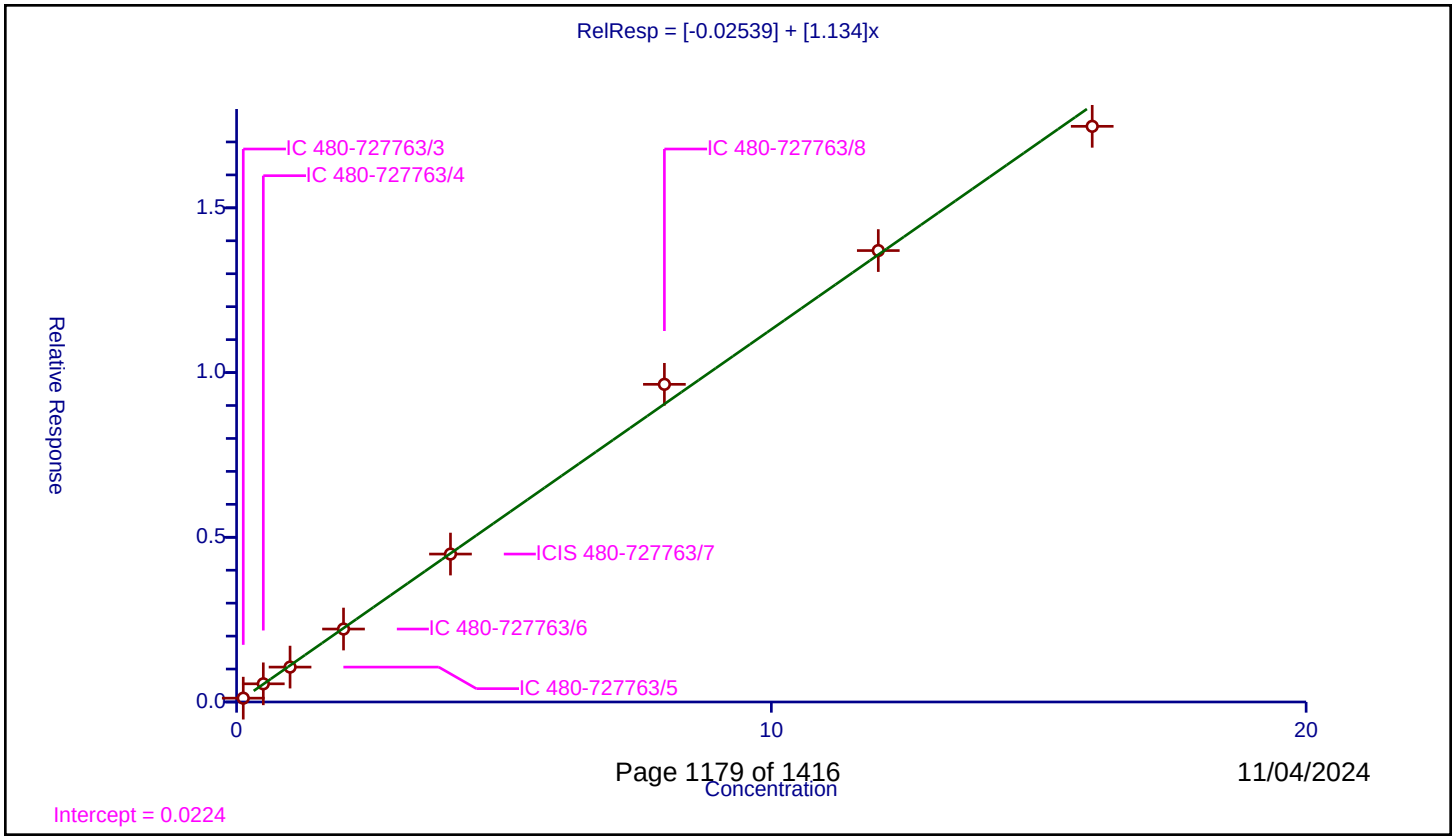
Curve Coefficients

Intercept:	-0.02539
Slope:	1.134

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.116426	4.0	714615.0	0.931411	Y
2	IC 480-727763/4	0.5	0.551897	4.0	680758.0	1.103793	Y
3	IC 480-727763/5	1.0	1.059452	4.0	739443.0	1.059452	Y
4	IC 480-727763/6	2.0	2.214093	4.0	725592.0	1.107046	Y
5	ICIS 480-727763/7	4.0	4.49029	4.0	758890.0	1.122572	Y
6	IC 480-727763/8	8.0	9.642766	4.0	700280.0	1.205346	Y
7	IC 480-727763/9	12.0	13.703088	4.0	721419.0	1.141924	Y
8	IC 480-727763/10	16.0	17.475012	4.0	756124.0	1.092188	Y



Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

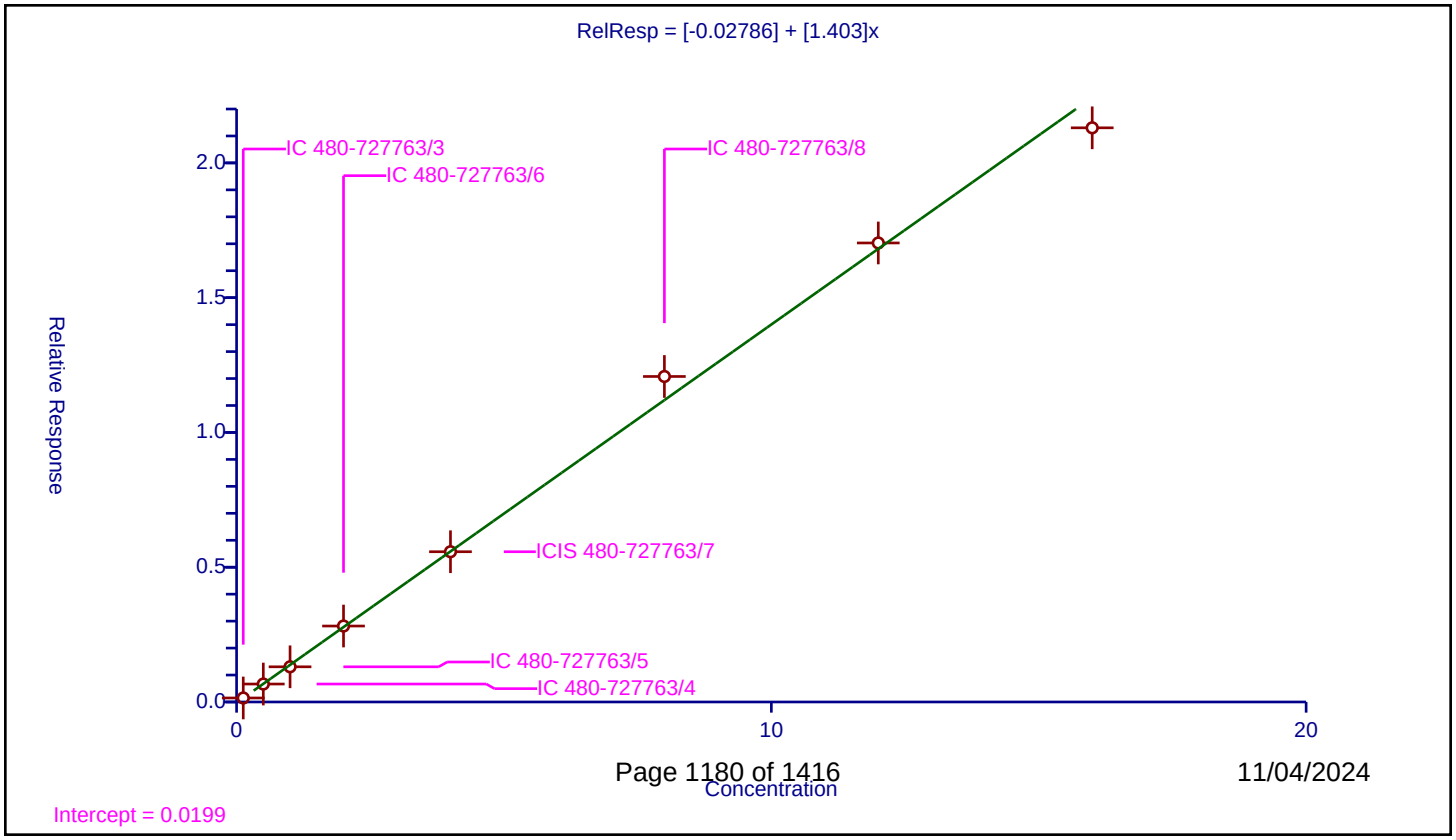
Curve Coefficients

Intercept:	-0.02786
Slope:	1.403

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.148796	4.0	714615.0	1.19037	Y
2	IC 480-727763/4	0.5	0.666392	4.0	680758.0	1.332785	Y
3	IC 480-727763/5	1.0	1.305669	4.0	739443.0	1.305669	Y
4	IC 480-727763/6	2.0	2.818278	4.0	725592.0	1.409139	Y
5	ICIS 480-727763/7	4.0	5.5749	4.0	758890.0	1.393725	Y
6	IC 480-727763/8	8.0	12.076204	4.0	700280.0	1.509525	Y
7	IC 480-727763/9	12.0	17.030353	4.0	721419.0	1.419196	Y
8	IC 480-727763/10	16.0	21.302919	4.0	756124.0	1.331432	Y



Calibration / Benzo[g,h,i]perylene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

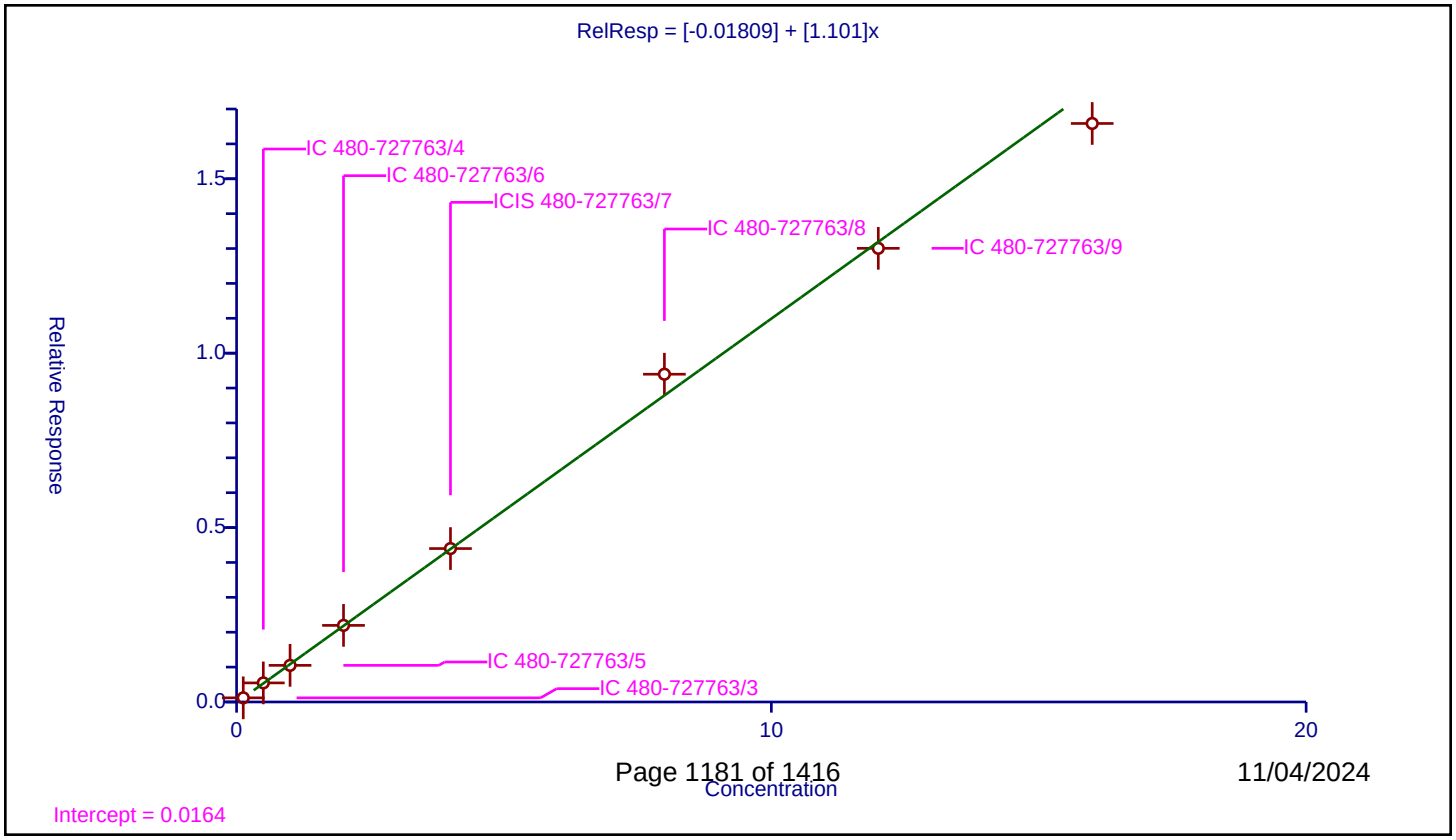
Curve Coefficients

Intercept:	-0.01809
Slope:	1.101

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-727763/3	0.125	0.118979	4.0	714615.0	0.95183	Y
2	IC 480-727763/4	0.5	0.546726	4.0	680758.0	1.093452	Y
3	IC 480-727763/5	1.0	1.050299	4.0	739443.0	1.050299	Y
4	IC 480-727763/6	2.0	2.196342	4.0	725592.0	1.098171	Y
5	ICIS 480-727763/7	4.0	4.398756	4.0	758890.0	1.099689	Y
6	IC 480-727763/8	8.0	9.397275	4.0	700280.0	1.174659	Y
7	IC 480-727763/9	12.0	13.006372	4.0	721419.0	1.083864	Y
8	IC 480-727763/10	16.0	16.585962	4.0	756124.0	1.036623	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID (1): ICIS 480-727763/7 Instrument ID (1): HP5973Y

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 10/10/2024 16:37

ANALYTE	RT	RESOLUTION (%)
Benzo(b)fluoranthene	14.18	31.80

Resolution Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04079.D
Injection Date: 10-Oct-2024 16:37:30 Instrument ID: HP5973Y
Lims ID: ICIS - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

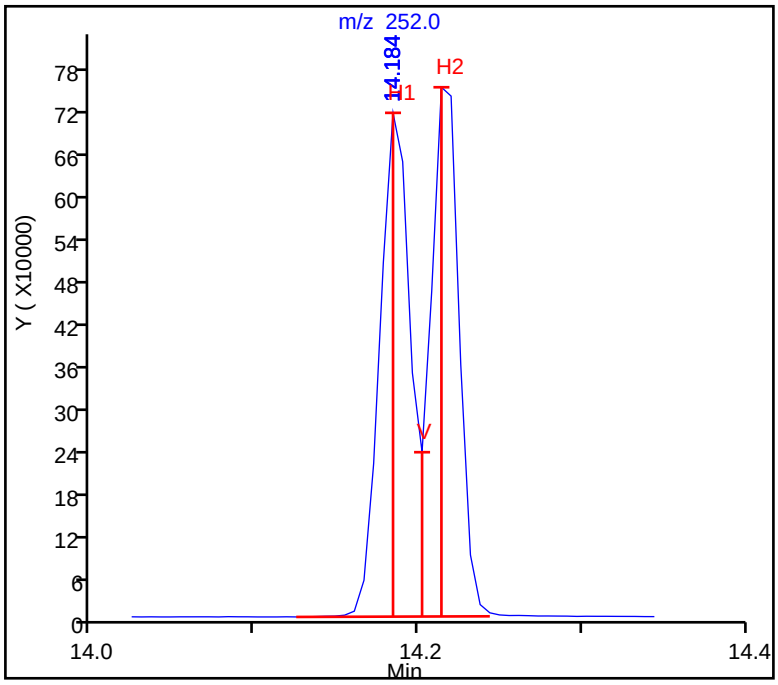
186 Benzo[b]fluoranthene - 187 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 231286
H1(186 Benzo[b]fluoranthen) = 709053
H2(187 Benzo[k]fluoranthen) = 744860

Version D: %R = 31.8 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID (1): CCVIS 480-730212/3 Instrument ID (1): HP5973Y

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 10/29/2024 11:44

ANALYTE	RT	RESOLUTION (%)
Benzo(b)fluoranthene	14.01	30.50

Resolution Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04572.D
Injection Date: 29-Oct-2024 11:44:30 Instrument ID: HP5973Y
Lims ID: CCVIS
Client ID:
Operator ID: JM ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

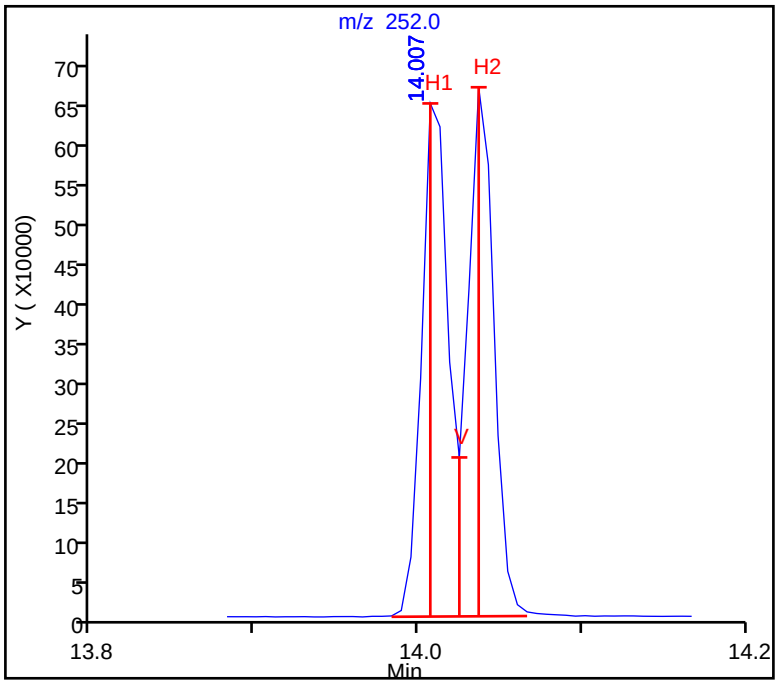
186 Benzo[b]fluoranthene - 187 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 201305
H1(186 Benzo[b]fluoranthen) = 649769
H2(187 Benzo[k]fluoranthen) = 669903

Version D: %R = 30.5 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID (1): CCVIS 480-730403/3 Instrument ID (1): HP5973Y

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 10/30/2024 10:18

ANALYTE	RT	RESOLUTION (%)
Benzo(b)fluoranthene	14.01	30.30

Resolution Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04602.D				
Injection Date:	30-Oct-2024 10:18:30	Instrument ID:	HP5973Y		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	JM	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

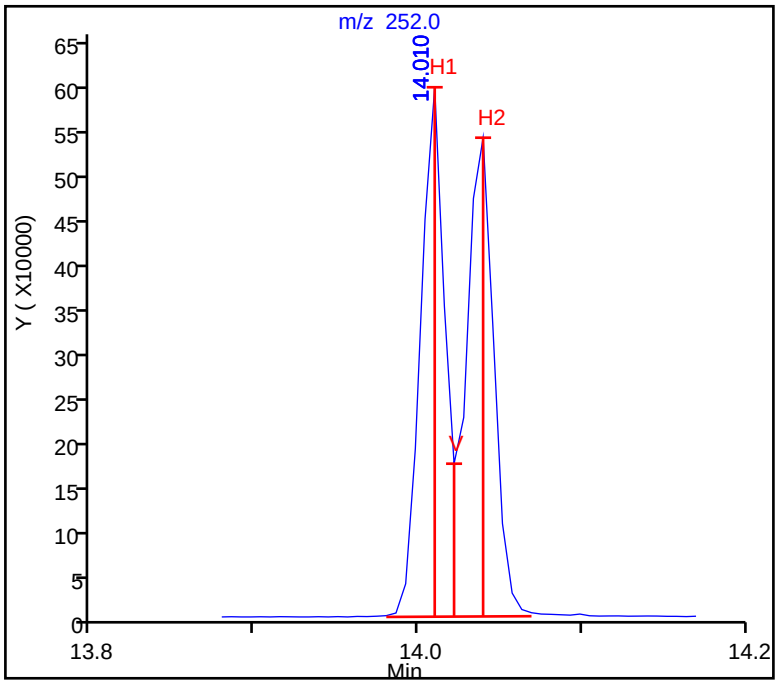
186 Benzo[b]fluoranthene - 187 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 172407
H1(186 Benzo[b]fluoranthen) = 597029
H2(187 Benzo[k]fluoranthen) = 539858

Version D: %R = 30.3 <= 50.0
Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-727763/11 | Calibration Date: 10/10/2024 18:27

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04083.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4946	0.4960	0.0100	4010	4000	0.3	30.0
N-Nitrosodimethylamine	Ave	0.6291	0.6446	0.0100	4100	4000	2.5	50.0
Pyridine	Lin2		0.6198	0.0100	7130	8000	-10.9	50.0
Benzaldehyde	Lin2		1.050	0.0100	4370	4000	9.2	50.0
Phenol	Ave	1.548	1.560	0.8000	4030	4000	0.8	30.0
Aniline	Ave	1.889	1.900	0.0100	4020	4000	0.6	30.0
Bis(2-chloroethyl)ether	Lin2		1.252	0.7000	3920	4000	-2.0	30.0
n-Decane	Ave	1.489	1.457	0.0100	3920	4000	-2.1	30.0
2-Chlorophenol	Ave	1.288	1.335	0.8000	4150	4000	3.7	30.0
1,3-Dichlorobenzene	Ave	1.528	1.552	0.0100	4060	4000	1.6	30.0
1,4-Dichlorobenzene	Ave	1.565	1.595	0.0100	4080	4000	1.9	30.0
Benzyl alcohol	Lin2		0.8371	0.0100	4030	4000	0.9	30.0
1,2-Dichlorobenzene	Ave	1.468	1.504	0.0100	4100	4000	2.4	30.0
2-Methylphenol	Ave	1.174	1.220	0.7000	4160	4000	3.9	30.0
bis (2-chloroisopropyl) ether	Lin2		2.006	0.0100	4070	4000	1.7	30.0
Indene	Lin2		2.433	0.0100	25800	24000	7.5	30.0
4-Methylphenol	Ave	1.221	1.274	0.6000	4180	4000	4.4	30.0
N-Nitrosodi-n-propylamine	Ave	0.8823	0.8939	0.5000	4050	4000	1.3	30.0
Acetophenone	Ave	1.701	1.786	0.0100	4200	4000	5.0	30.0
Hexachloroethane	Ave	0.5953	0.5793	0.3000	3890	4000	-2.7	30.0
Nitrobenzene	Ave	0.3721	0.3694	0.2000	3970	4000	-0.7	30.0
Isophorone	Ave	0.6597	0.6615	0.4000	4010	4000	0.3	30.0
2-Nitrophenol	Lin2		0.1887	0.1000	4050	4000	1.3	30.0
2,4-Dimethylphenol	Ave	0.3484	0.3476	0.2000	3990	4000	-0.2	30.0
Bis(2-chloroethoxy)methane	Ave	0.4030	0.4018	0.3000	3990	4000	-0.3	30.0
Benzoic acid	Lin1		0.1244	0.0100	21800	24000	-9.2	50.0
2,4-Dichlorophenol	Lin2		0.3056	0.2000	4070	4000	1.7	30.0
1,2,4-Trichlorobenzene	Ave	0.3390	0.3432	0.0100	4050	4000	1.2	30.0
Naphthalene	Ave	1.057	1.074	0.7000	4070	4000	1.7	30.0
4-Chloroaniline	Ave	0.4039	0.4168	0.0100	4130	4000	3.2	30.0
2,6-Dichlorophenol	Ave	0.2965	0.2992	0.0100	4040	4000	0.9	30.0
Hexachlorobutadiene	Ave	0.1967	0.2001	0.0100	4070	4000	1.7	30.0
Caprolactam	Lin2		0.1054	0.0100	3910	4000	-2.2	50.0
4-Chloro-3-methylphenol	Lin2		0.2910	0.2000	4080	4000	2.0	30.0
2-Methylnaphthalene	Ave	0.6518	0.7069	0.4000	4340	4000	8.5	30.0
1-Methylnaphthalene	Ave	0.6626	0.6636	0.0100	4010	4000	0.2	30.0
Hexachlorocyclopentadiene	Lin2		0.1965	0.0500	3370	4000	-15.9	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5921	0.6009	0.0100	4060	4000	1.5	30.0
2,4,6-Trichlorophenol	Lin2		0.3564	0.2000	3950	4000	-1.3	30.0
2,4,5-Trichlorophenol	Lin2		0.3854	0.2000	4050	4000	1.2	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-727763/11 | Calibration Date: 10/10/2024 18:27

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04083.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.467	1.489	0.0100	4060	4000	1.5	30.0
2-Chloronaphthalene	Ave	1.173	1.196	0.8000	4080	4000	2.0	30.0
2-Nitroaniline	Lin2		0.3280	0.0100	4040	4000	1.1	30.0
Dimethyl phthalate	Ave	1.270	1.305	0.0100	4110	4000	2.8	30.0
1,3-Dinitrobenzene	Lin2		0.1165	0.0100	4150	4000	3.8	30.0
2,6-Dinitrotoluene	Lin2		0.2889	0.2000	3950	4000	-1.2	30.0
Acenaphthylene	Ave	1.772	1.955	0.9000	4410	4000	10.3	30.0
3-Nitroaniline	Lin2		0.3022	0.0100	4050	4000	1.3	30.0
Acenaphthene	Ave	1.186	1.251	0.9000	4220	4000	5.5	30.0
2,4-Dinitrophenol	Lin1		0.0992	0.0100	7450	8000	-6.9	30.0
4-Nitrophenol	Lin2		0.1308	0.0100	8450	8000	5.6	30.0
2,4-Dinitrotoluene	Lin2		0.3990	0.2000	4240	4000	6.1	30.0
Dibenzofuran	Ave	1.604	1.652	0.8000	4120	4000	3.0	30.0
2,3,4,6-Tetrachlorophenol	Lin2		0.2732	0.0100	4100	4000	2.4	30.0
Hexadecane	Ave	0.7970	0.8163	0.0100	4100	4000	2.4	30.0
Diethyl phthalate	Ave	1.255	1.225	0.0100	3900	4000	-2.4	30.0
4-Chlorophenyl phenyl ether	Ave	0.6339	0.6420	0.4000	4050	4000	1.3	30.0
4-Nitroaniline	Lin2		0.3199	0.0100	4020	4000	0.5	30.0
Fluorene	Lin2		1.362	0.9000	4030	4000	0.8	30.0
4,6-Dinitro-2-methylphenol	Lin1		0.1085	0.0100	7870	8000	-1.7	30.0
Diphenylamine	Ave	0.6472	0.6625	0.0100	3500	3420	2.4	30.0
N-Nitrosodiphenylamine	Ave	0.5533	0.5664	0.0100	4090	4000	2.4	30.0
1,2-Diphenylhydrazine	Ave	0.7367	0.7545	0.0100	4100	4000	2.4	30.0
trans-Azobenzene	Ave	0.7367	0.7545	0.0100	4100	4000	2.4	30.0
4-Bromophenyl phenyl ether	Ave	0.2258	0.2252	0.1000	3990	4000	-0.3	30.0
Hexachlorobenzene	Ave	0.2431	0.2427	0.1000	3990	4000	-0.2	30.0
Atrazine	Lin2		0.3431	0.0100	4180	4000	4.4	30.0
n-Octadecane	Ave	0.4883	0.4845	0.0100	3970	4000	-0.8	30.0
Pentachlorophenol	Lin1		0.0878	0.0500	6950	8000	-13.1	50.0
Phenanthrene	Ave	1.106	1.100	0.7000	3980	4000	-0.5	30.0
Anthracene	Ave	1.106	1.112	0.7000	4020	4000	0.5	30.0
Carbazole	Ave	0.9831	0.9634	0.0100	3920	4000	-2.0	30.0
Di-n-butyl phthalate	Ave	1.265	1.231	0.0100	3890	4000	-2.7	30.0
Fluoranthene	Ave	1.174	1.227	0.6000	4180	4000	4.5	30.0
Benzidine	Lin2		0.4856	0.0100	2490	4000	-37.7	50.0
Pyrene	Ave	1.340	1.399	0.6000	4180	4000	4.5	30.0
Butyl benzyl phthalate	Lin2		0.6253	0.0100	3980	4000	-0.5	30.0
Bis(2-ethylhexyl) phthalate	Lin2		0.9005	0.0100	4010	4000	0.3	30.0
3,3'-Dichlorobenzidine	Lin2		0.5855	0.0100	3690	4000	-7.6	50.0
Benzo(a)anthracene	Ave	1.370	1.380	0.8000	4030	4000	0.8	30.0
Chrysene	Ave	1.251	1.209	0.7000	3870	4000	-3.4	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Lab Sample ID: ICV 480-727763/11 Calibration Date: 10/10/2024 18:27

Instrument ID: HP5973Y Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/10/2024 18:00

Lab File ID: Y04083.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin2		1.521	0.0100	4010	4000	0.2	30.0
Benzo(b)fluoranthene	Lin2		1.260	0.7000	3950	4000	-1.2	30.0
Benzo(k)fluoranthene	Ave	1.283	1.189	0.7000	3710	4000	-7.3	30.0
Benzo(a)pyrene	Lin2		1.148	0.7000	4040	4000	0.9	30.0
Dibenz(a,h)anthracene	Lin2		1.111	0.4000	3940	4000	-1.4	30.0
Indeno(1,2,3-cd)pyrene	Lin2		1.309	0.5000	3750	4000	-6.2	30.0
Benzo(g,h,i)perylene	Lin2		1.108	0.5000	4040	4000	1.0	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04083.D
Lims ID: ICV - List 1 - 4
Client ID:
Sample Type: ICV
Inject. Date: 10-Oct-2024 18:27:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-011
Operator ID: JM Instrument ID: HP5973Y
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:34:42 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 11-Oct-2024 08:55:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.017	6.022	-0.005	95	197997	4.00	4.00	
* 2 Naphthalene-d8	136	7.215	7.214	0.001	99	729067	4.00	4.00	
* 3 Acenaphthene-d10	164	8.780	8.779	0.001	92	430428	4.00	4.00	
* 4 Phenanthrene-d10	188	10.054	10.059	-0.005	97	722244	4.00	4.00	
* 5 Chrysene-d12	240	12.941	12.940	0.001	99	659917	4.00	4.00	
* 6 Perylene-d12	264	14.660	14.659	0.001	97	725946	4.00	4.00	
13 1,4-Dioxane	88	3.303	3.307	-0.004	99	98203	4.00	4.01	
14 N-Nitrosodimethylamine	42	3.605	3.609	-0.004	93	127627	4.00	4.10	
15 Pyridine	52	3.640	3.639	0.001	94	245437	8.00	7.13	
35 Benzaldehyde	77	5.608	5.607	0.001	93	207939	4.00	4.37	
37 Phenol	94	5.650	5.654	-0.004	99	308896	4.00	4.03	
36 Aniline	93	5.703	5.702	0.001	96	376259	4.00	4.02	
39 Bis(2-chloroethyl)ether	93	5.733	5.737	-0.004	93	247973	4.00	3.92	
41 n-Decane	57	5.822	5.820	0.002	94	288517	4.00	3.92	
40 2-Chlorophenol	128	5.828	5.826	0.002	97	264332	4.00	4.15	
43 1,3-Dichlorobenzene	146	5.970	5.968	0.002	99	307346	4.00	4.06	
44 1,4-Dichlorobenzene	146	6.035	6.034	0.001	95	315781	4.00	4.08	
45 Benzyl alcohol	108	6.136	6.134	0.002	93	165743	4.00	4.03	
46 1,2-Dichlorobenzene	146	6.189	6.188	0.001	98	297777	4.00	4.10	
48 2-Methylphenol	108	6.225	6.229	-0.004	96	241653	4.00	4.16	
49 2,2'-oxybis[1-chloropropane]	45	6.243	6.247	-0.004	94	397118	4.00	4.07	
47 Indene	115	6.272	6.271	0.001	88	2890864	24.0	25.8	
57 4-Methylphenol	108	6.367	6.366	0.001	96	252321	4.00	4.18	
53 N-Nitrosodi-n-propylamine	70	6.373	6.371	0.002	91	176980	4.00	4.05	
52 Acetophenone	105	6.391	6.389	0.002	98	353579	4.00	4.20	
58 Hexachloroethane	117	6.509	6.508	0.001	95	114705	4.00	3.89	
59 Nitrobenzene	77	6.557	6.555	0.002	88	269328	4.00	3.97	
62 Isophorone	82	6.770	6.769	0.001	99	482284	4.00	4.01	
64 2-Nitrophenol	139	6.853	6.858	-0.005	95	137540	4.00	4.05	
66 2,4-Dimethylphenol	107	6.865	6.869	-0.004	94	253457	4.00	3.99	
69 Bis(2-chloroethoxy)methane	93	6.942	6.946	-0.004	98	292969	4.00	3.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
70 Benzoic acid	105	6.996	6.994	0.002	87	544145	24.0	21.8	
72 2,4-Dichlorophenol	162	7.079	7.077	0.001	92	222820	4.00	4.07	
73 1,2,4-Trichlorobenzene	180	7.156	7.160	-0.004	94	250188	4.00	4.05	
74 Naphthalene	128	7.239	7.237	0.002	97	783247	4.00	4.07	
76 4-Chloroaniline	127	7.268	7.267	0.001	97	303893	4.00	4.13	
77 2,6-Dichlorophenol	162	7.280	7.284	-0.004	97	218109	4.00	4.04	
79 Hexachlorobutadiene	225	7.339	7.338	0.001	96	145851	4.00	4.07	
84 Caprolactam	113	7.582	7.581	0.001	78	76840	4.00	3.91	
85 4-Chloro-3-methylphenol	107	7.689	7.693	-0.004	96	212138	4.00	4.08	
87 2-Methylnaphthalene	142	7.855	7.853	0.002	92	515397	4.00	4.34	
89 1-Methylnaphthalene	142	7.944	7.948	-0.004	92	483825	4.00	4.01	
90 Hexachlorocyclopentadiene	237	7.997	7.996	0.001	93	84585	4.00	3.37	
91 1,2,4,5-Tetrachlorobenzene	216	8.009	8.008	0.001	96	258661	4.00	4.06	
93 2,4,6-Trichlorophenol	196	8.098	8.102	-0.004	91	153407	4.00	3.95	
94 2,4,5-Trichlorophenol	196	8.140	8.138	0.002	96	165898	4.00	4.05	M
96 1,1'-Biphenyl	154	8.258	8.256	0.002	95	641070	4.00	4.06	
97 2-Chloronaphthalene	162	8.294	8.292	0.002	95	514998	4.00	4.08	
100 2-Nitroaniline	65	8.365	8.363	0.002	87	141196	4.00	4.04	
105 Dimethyl phthalate	163	8.495	8.494	0.001	99	561681	4.00	4.11	
106 1,3-Dinitrobenzene	168	8.543	8.541	0.002	85	84939	4.00	4.15	
107 2,6-Dinitrotoluene	165	8.560	8.559	0.001	94	124357	4.00	3.95	
108 Acenaphthylene	152	8.661	8.660	0.001	98	841433	4.00	4.41	
109 3-Nitroaniline	138	8.720	8.719	0.001	95	130087	4.00	4.05	
110 Acenaphthene	153	8.803	8.808	-0.005	95	538485	4.00	4.22	
111 2,4-Dinitrophenol	184	8.809	8.814	-0.005	82	85395	8.00	7.45	
112 4-Nitrophenol	109	8.851	8.855	-0.004	92	112561	8.00	8.45	
114 2,4-Dinitrotoluene	165	8.916	8.914	0.002	95	171728	4.00	4.24	
115 Dibenzofuran	168	8.952	8.950	0.002	97	711178	4.00	4.12	
118 2,3,4,6-Tetrachlorophenol	232	9.052	9.057	-0.005	74	117611	4.00	4.10	
121 Hexadecane	57	9.076	9.080	-0.004	94	351357	4.00	4.10	
120 Diethyl phthalate	149	9.088	9.092	-0.004	99	527246	4.00	3.90	
123 4-Chlorophenyl phenyl ether	204	9.218	9.217	0.001	90	276348	4.00	4.05	
124 Fluorene	166	9.248	9.246	0.002	93	586101	4.00	4.03	
126 4-Nitroaniline	138	9.248	9.246	0.002	56	137701	4.00	4.02	
127 4,6-Dinitro-2-methylphenol	198	9.272	9.276	-0.004	89	156687	8.00	7.87	
129 Diphenylamine	169	9.319	9.318	0.001	94	409115	3.42	3.50	
130 N-Nitrosodiphenylamine	169	9.319	9.318	0.001	62	409115	4.00	4.09	
131 1,2-Diphenylhydrazine	77	9.355	9.359	-0.004	41	544959	4.00	4.10	
132 Azobenzene	77	9.355	9.359	-0.004	99	544959	4.00	4.10	
139 4-Bromophenyl phenyl ether	248	9.639	9.638	0.001	64	162633	4.00	3.99	
140 Hexachlorobenzene	284	9.728	9.732	-0.004	94	175312	4.00	3.99	
143 Atrazine	200	9.740	9.738	0.002	93	147669	4.00	4.18	
148 n-Octadecane	57	9.853	9.851	0.002	93	349911	4.00	3.97	
145 Pentachlorophenol	266	9.888	9.893	-0.005	94	126883	8.00	6.95	
151 Phenanthrene	178	10.078	10.076	0.002	98	794435	4.00	3.98	
152 Anthracene	178	10.125	10.124	0.001	97	802804	4.00	4.02	
153 Carbazole	167	10.250	10.254	-0.004	97	695778	4.00	3.92	
157 Di-n-butyl phthalate	149	10.493	10.497	-0.004	100	888963	4.00	3.89	
164 Fluoranthene	202	11.269	11.268	0.001	98	885956	4.00	4.18	
166 Benzidine	184	11.370	11.374	-0.004	99	320465	4.00	2.49	
167 Pyrene	202	11.536	11.535	0.002	97	923398	4.00	4.18	
174 Butyl benzyl phthalate	149	12.170	12.169	0.001	97	412635	4.00	3.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
181 Bis(2-ethylhexyl) phthalate	149	12.828	12.833	-0.005	96	594241	4.00	4.01	
179 3,3'-Dichlorobenzidine	252	12.858	12.862	-0.004	73	386367	4.00	3.69	
180 Benzo[a]anthracene	228	12.929	12.928	0.001	99	910636	4.00	4.03	
182 Chrysene	228	12.971	12.975	-0.004	97	798150	4.00	3.87	
184 Di-n-octyl phthalate	149	13.581	13.586	-0.005	99	1003667	4.00	4.01	
186 Benzo[b]fluoranthene	252	14.186	14.184	0.002	98	914822	4.00	3.95	
187 Benzo[k]fluoranthene	252	14.216	14.214	0.002	99	863374	4.00	3.71	
189 Benzo[a]pyrene	252	14.595	14.593	0.002	78	833400	4.00	4.04	
194 Dibenz(a,h)anthracene	278	16.213	16.217	-0.004	91	806690	4.00	3.94	
193 Indeno[1,2,3-cd]pyrene	276	16.225	16.223	0.002	97	950105	4.00	3.75	
195 Benzo[g,h,i]perylene	276	16.693	16.698	-0.005	96	803997	4.00	4.04	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1SSLV_WRK_00055 Amount Added: 1.00 Units: mL

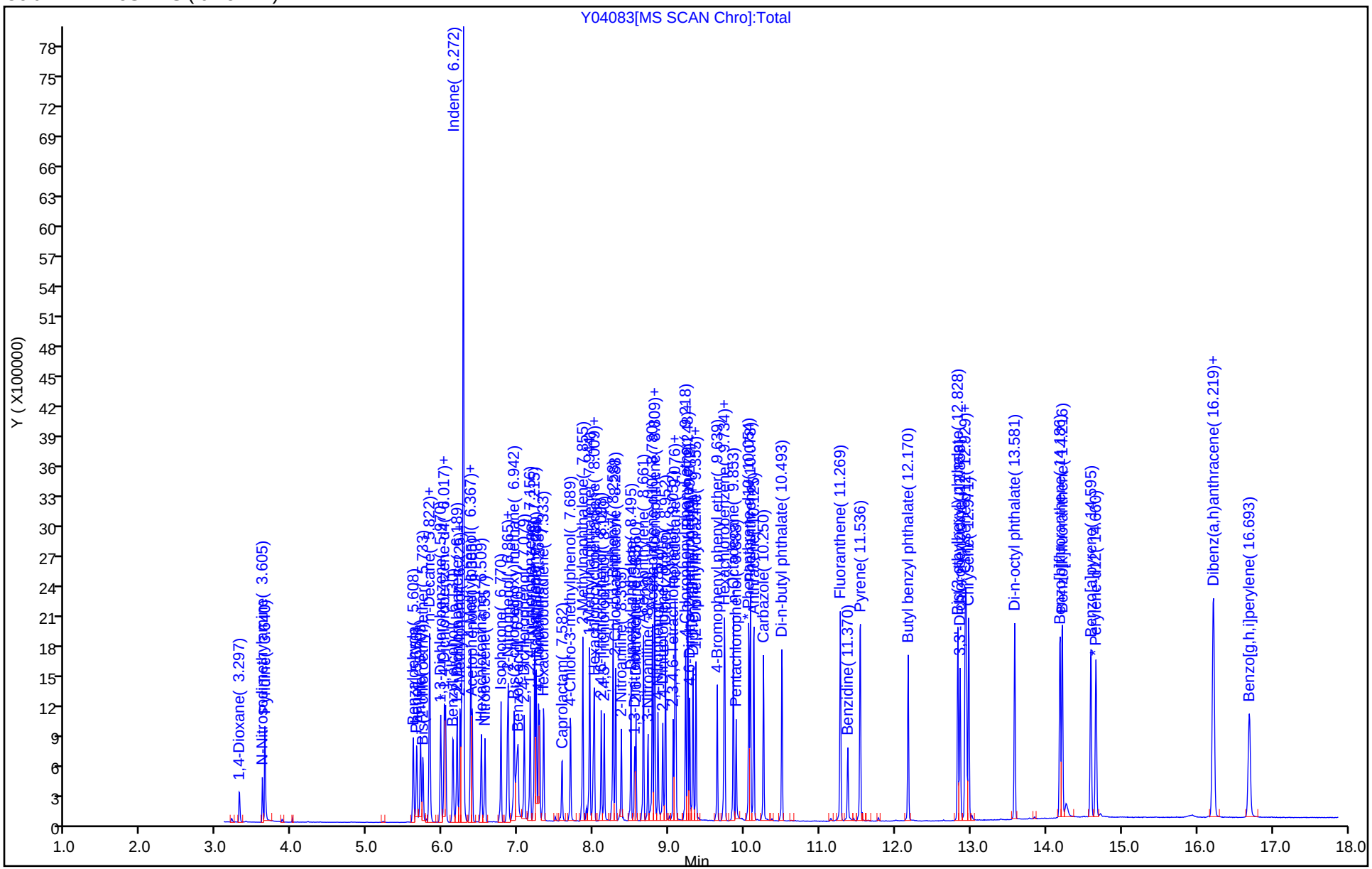
Report Date: 11-Oct-2024 11:34:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04083.D

Injection Date:	10-Oct-2024 18:27:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	ICV - List 1 - 4			Worklist Smp#:	11
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

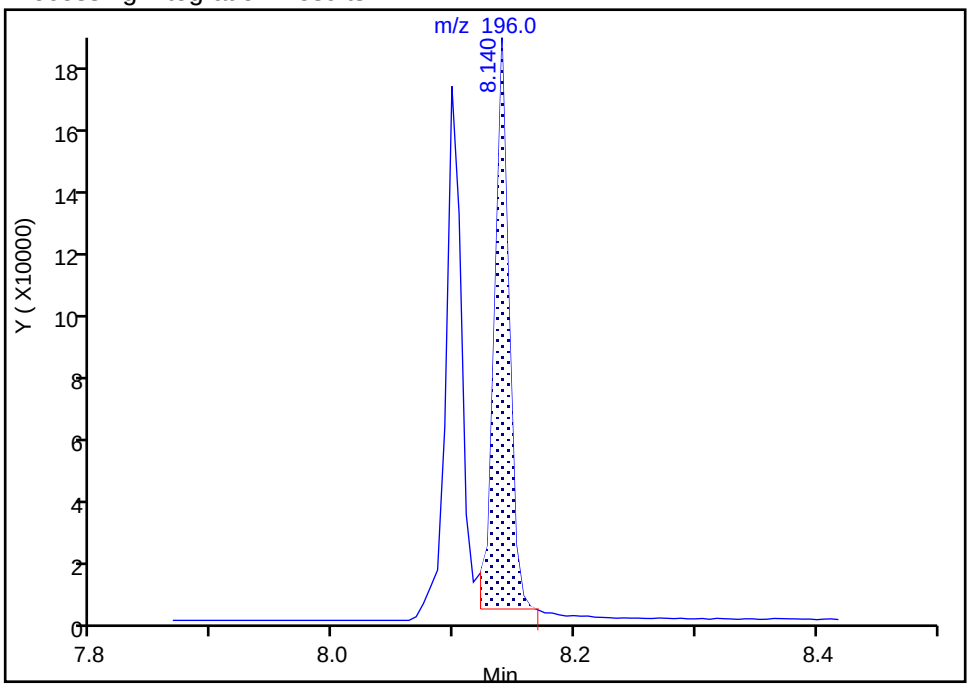
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04083.D
Injection Date: 10-Oct-2024 18:27:30 Instrument ID: HP5973Y
Lims ID: ICV - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

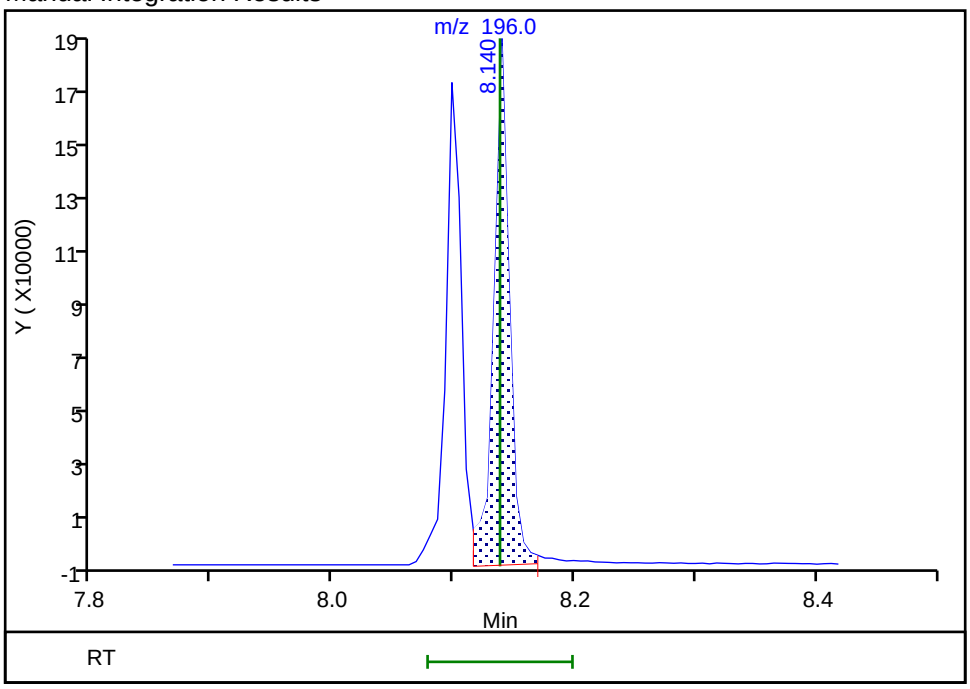
Processing Integration Results

RT: 8.14
Area: 150929
Amount: 3.694458
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 165898
Amount: 4.046657
Amount Units: ng/uL



Reviewer: IZ8L, 11-Oct-2024 10:34:52 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730212/3 | Calibration Date: 10/29/2024 11:44

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04572.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4946	0.5227	0.0100	4230	4000	5.7	20.0
N-Nitrosodimethylamine	Ave	0.6291	1.112	0.0100	7070	4000	76.7*	50.0
Pyridine	Lin2		0.8046	0.0100	9190	8000	14.9	50.0
Benzaldehyde	Lin2		1.165	0.0100	4860	4000	21.5	50.0
Phenol	Ave	1.548	1.596	0.8000	4120	4000	3.1	20.0
Aniline	Ave	1.889	1.888	0.0100	4000	4000	-0.0	20.0
Bis(2-chloroethyl)ether	Lin2		1.395	0.7000	4370	4000	9.4	20.0
n-Decane	Ave	1.489	1.783	0.0100	4790	4000	19.8	20.0
2-Chlorophenol	Ave	1.288	1.357	0.8000	4220	4000	5.4	20.0
1,3-Dichlorobenzene	Ave	1.528	1.566	0.0100	4100	4000	2.5	20.0
1,4-Dichlorobenzene	Ave	1.565	1.584	0.0100	4050	4000	1.2	20.0
Benzyl alcohol	Lin2		0.8316	0.0100	4010	4000	0.2	20.0
1,2-Dichlorobenzene	Ave	1.468	1.469	0.0100	4000	4000	0.1	20.0
2-Methylphenol	Ave	1.174	1.268	0.7000	4320	4000	8.0	20.0
bis (2-chloroisopropyl) ether	Lin2		2.816	0.0100	5740	4000	43.5*	20.0
Indene	Lin2		2.757	0.0100	29300	24000	22.1*	20.0
N-Nitrosodi-n-propylamine	Ave	0.8823	1.001	0.5000	4540	4000	13.4	20.0
4-Methylphenol	Ave	1.221	1.301	0.6000	4260	4000	6.6	20.0
Acetophenone	Ave	1.701	1.915	0.0100	4500	4000	12.6	20.0
Hexachloroethane	Ave	0.5953	0.6989	0.3000	4700	4000	17.4	20.0
Nitrobenzene	Ave	0.3721	0.4135	0.2000	4450	4000	11.1	20.0
Isophorone	Ave	0.6597	0.6844	0.4000	4150	4000	3.7	20.0
2-Nitrophenol	Lin2		0.1821	0.1000	3910	4000	-2.1	20.0
2,4-Dimethylphenol	Ave	0.3484	0.3614	0.2000	4150	4000	3.7	20.0
Bis(2-chloroethoxy)methane	Ave	0.4030	0.4051	0.3000	4020	4000	0.5	20.0
Benzoic acid	Lin1		0.1327	0.0100	22800	24000	-4.9	50.0
2,4-Dichlorophenol	Lin2		0.2787	0.2000	3720	4000	-7.0	20.0
1,2,4-Trichlorobenzene	Ave	0.3390	0.3188	0.0100	3760	4000	-6.0	20.0
Naphthalene	Ave	1.057	1.013	0.7000	3830	4000	-4.2	20.0
4-Chloroaniline	Ave	0.4039	0.3934	0.0100	3900	4000	-2.6	20.0
2,6-Dichlorophenol	Ave	0.2965	0.2854	0.0100	3850	4000	-3.7	20.0
Hexachlorobutadiene	Ave	0.1967	0.1826	0.0100	3710	4000	-7.2	20.0
Caprolactam	Lin2		0.1002	0.0100	3720	4000	-7.0	50.0
4-Chloro-3-methylphenol	Lin2		0.2888	0.2000	4050	4000	1.3	20.0
2-Methylnaphthalene	Ave	0.6518	0.6315	0.4000	3880	4000	-3.1	20.0
1-Methylnaphthalene	Ave	0.6626	0.6381	0.0100	3850	4000	-3.7	20.0
Hexachlorocyclopentadiene	Lin2		0.1116	0.0500	2060	4000	-48.5*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5921	0.5340	0.0100	3610	4000	-9.8	20.0
2,4,6-Trichlorophenol	Lin2		0.3423	0.2000	3800	4000	-5.1	20.0
2,4,5-Trichlorophenol	Lin2		0.3455	0.2000	3640	4000	-8.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730212/3 | Calibration Date: 10/29/2024 11:44

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04572.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.467	1.430	0.0100	3900	4000	-2.5	20.0
2-Chloronaphthalene	Ave	1.173	1.129	0.8000	3850	4000	-3.7	20.0
2-Nitroaniline	Lin2		0.3941	0.0100	4830	4000	20.8*	20.0
Dimethyl phthalate	Ave	1.270	1.266	0.0100	3990	4000	-0.3	20.0
1,3-Dinitrobenzene	Lin2		0.1051	0.0100	3770	4000	-5.8	20.0
2,6-Dinitrotoluene	Lin2		0.2855	0.2000	3910	4000	-2.3	20.0
Acenaphthylene	Ave	1.772	1.746	0.9000	3940	4000	-1.4	20.0
3-Nitroaniline	Lin2		0.2934	0.0100	3940	4000	-1.5	20.0
Acenaphthene	Ave	1.186	1.188	0.9000	4010	4000	0.2	20.0
2,4-Dinitrophenol	Lin1		0.0910	0.0100	6990	8000	-12.6	20.0
4-Nitrophenol	Lin2		0.1745	0.0100	11100	8000	38.8*	20.0
2,4-Dinitrotoluene	Lin2		0.3807	0.2000	4050	4000	1.3	20.0
Dibenzofuran	Ave	1.604	1.504	0.8000	3750	4000	-6.3	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.2197	0.0100	3330	4000	-16.6	20.0
Hexadecane	Ave	0.7970	0.9590	0.0100	4810	4000	20.3*	20.0
Diethyl phthalate	Ave	1.255	1.385	0.0100	4410	4000	10.3	20.0
4-Chlorophenyl phenyl ether	Ave	0.6339	0.5771	0.4000	3640	4000	-9.0	20.0
Fluorene	Lin2		1.286	0.9000	3810	4000	-4.8	20.0
4-Nitroaniline	Lin2		0.3120	0.0100	3920	4000	-1.9	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1046	0.0100	7610	8000	-4.8	20.0
Diphenylamine	Ave	0.6472	0.6191	0.0100	3270	3420	-4.3	20.0
N-Nitrosodiphenylamine	Ave	0.5533	0.5293	0.0100	3830	4000	-4.3	20.0
1,2-Diphenylhydrazine	Ave	0.7367	0.9185	0.0100	4990	4000	24.7*	20.0
trans-Azobenzene	Ave	0.7367	0.9185	0.0100	4990	4000	24.7*	20.0
4-Bromophenyl phenyl ether	Ave	0.2258	0.1958	0.1000	3470	4000	-13.3	20.0
Hexachlorobenzene	Ave	0.2431	0.2005	0.1000	3300	4000	-17.5	20.0
Atrazine	Lin2		0.3465	0.0100	4220	4000	5.4	20.0
n-Octadecane	Ave	0.4883	0.5970	0.0100	4890	4000	22.3*	20.0
Pentachlorophenol	Lin1		0.0611	0.0500	5180	8000	-35.2	50.0
Phenanthrene	Ave	1.106	1.105	0.7000	4000	4000	-0.0	20.0
Anthracene	Ave	1.106	1.080	0.7000	3910	4000	-2.4	20.0
Carbazole	Ave	0.9831	0.9462	0.0100	3850	4000	-3.7	20.0
Di-n-butyl phthalate	Ave	1.265	1.372	0.0100	4340	4000	8.5	20.0
Fluoranthene	Ave	1.174	1.118	0.6000	3810	4000	-4.8	20.0
Benzidine	Lin2		0.8369	0.0100	8130	8000	1.6	50.0
Pyrene	Ave	1.340	1.391	0.6000	4150	4000	3.8	20.0
Butyl benzyl phthalate	Lin2		0.7301	0.0100	4630	4000	15.8	20.0
Bis(2-ethylhexyl) phthalate	Lin2		1.059	0.0100	4700	4000	17.6	20.0
3,3'-Dichlorobenzidine	Lin2		0.6133	0.0100	7660	8000	-4.2	50.0
Benzo(a)anthracene	Ave	1.370	1.347	0.8000	3930	4000	-1.7	20.0
Chrysene	Ave	1.251	1.212	0.7000	3870	4000	-3.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730212/3 | Calibration Date: 10/29/2024 11:44

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04572.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin2		1.774	0.0100	4660	4000	16.6	20.0
Benzo(b)fluoranthene	Lin2		1.213	0.7000	3810	4000	-4.9	20.0
Benzo(k)fluoranthene	Ave	1.283	1.201	0.7000	3750	4000	-6.4	20.0
Benzo(a)pyrene	Lin2		1.068	0.7000	3760	4000	-6.1	20.0
Dibenz(a,h)anthracene	Lin2		1.066	0.4000	3780	4000	-5.4	20.0
Indeno(1,2,3-cd)pyrene	Lin2		1.343	0.5000	3850	4000	-3.8	20.0
Benzo(g,h,i)perylene	Lin2		0.996	0.5000	3640	4000	-9.1	20.0
2-Fluorophenol	Ave	1.232	1.272	0.0100	4130	4000	3.2	20.0
Phenol-d5	Ave	1.523	1.583	0.0100	4160	4000	4.0	20.0
Nitrobenzene-d5	Lin2		0.4155	0.0100	4340	4000	8.5	20.0
2-Fluorobiphenyl	Ave	1.375	1.307	0.0100	3800	4000	-4.9	20.0
2,4,6-Tribromophenol	Lin2		0.0868	0.0100	3580	4000	-10.5	20.0
p-Terphenyl-d14	Ave	1.084	1.070	0.0100	3950	4000	-1.3	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04572.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Oct-2024 11:44:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-003
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Oct-2024 16:16:19 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: IZ8L Date: 29-Oct-2024 16:14:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.000	96	175464	4.00	4.00	
* 2 Naphthalene-d8	136	7.089	7.089	0.000	99	686874	4.00	4.00	
* 3 Acenaphthene-d10	164	8.648	8.648	0.000	93	395738	4.00	4.00	
* 4 Phenanthrene-d10	188	9.929	9.929	0.000	97	671113	4.00	4.00	
* 5 Chrysene-d12	240	12.774	12.774	0.000	99	562758	4.00	4.00	
* 6 Perylene-d12	264	14.463	14.463	0.000	97	639845	4.00	4.00	
$ 7 2-Fluorophenol	112	4.641	4.641	0.000	92	223164	4.00	4.13	
$ 8 Phenol-d5	99	5.524	5.524	0.000	92	277832	4.00	4.16	
$ 9 Nitrobenzene-d5	82	6.414	6.414	0.000	96	285381	4.00	4.34	
$ 10 2-Fluorobiphenyl	172	8.038	8.038	0.000	98	517426	4.00	3.80	
$ 11 2,4,6-Tribromophenol	330	9.330	9.330	0.000	82	58273	4.00	3.58	
$ 12 p-Terphenyl-d14	244	11.482	11.482	0.000	97	602318	4.00	3.95	
13 1,4-Dioxane	88	3.147	3.147	0.000	93	91707	4.00	4.23	
14 N-Nitrosodimethylamine	42	3.473	3.473	0.000	76	195036	4.00	7.07	
15 Pyridine	52	3.503	3.503	0.000	80	282353	8.00	9.19	
35 Benzaldehyde	77	5.471	5.471	0.000	87	204465	4.00	4.86	
37 Phenol	94	5.536	5.536	0.000	92	280000	4.00	4.12	
36 Aniline	93	5.572	5.572	0.000	94	331361	4.00	4.00	
39 Bis(2-chloroethyl)ether	93	5.607	5.607	0.000	86	244745	4.00	4.37	
41 n-Decane	57	5.690	5.690	0.000	94	312870	4.00	4.79	
40 2-Chlorophenol	128	5.696	5.696	0.000	93	238181	4.00	4.22	
43 1,3-Dichlorobenzene	146	5.839	5.839	0.000	94	274854	4.00	4.10	
44 1,4-Dichlorobenzene	146	5.904	5.904	0.000	90	277888	4.00	4.05	
45 Benzyl alcohol	108	6.011	6.011	0.000	87	145909	4.00	4.01	
46 1,2-Dichlorobenzene	146	6.058	6.058	0.000	93	257829	4.00	4.00	
48 2-Methylphenol	108	6.111	6.111	0.000	95	222483	4.00	4.32	
49 2,2'-oxybis[1-chloropropane]	45	6.117	6.117	0.000	88	494112	4.00	5.74	
47 Indene	115	6.141	6.141	0.000	88	2902884	24.0	29.3	
53 N-Nitrosodi-n-propylamine	70	6.248	6.248	0.000	95	175592	4.00	4.54	
57 4-Methylphenol	108	6.254	6.254	0.000	95	228277	4.00	4.26	
52 Acetophenone	105	6.265	6.265	0.000	93	336002	4.00	4.50	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.378	6.378	0.000	92	122634	4.00	4.70	
59 Nitrobenzene	77	6.431	6.431	0.000	94	284009	4.00	4.45	
62 Isophorone	82	6.645	6.645	0.000	96	470121	4.00	4.15	
64 2-Nitrophenol	139	6.734	6.734	0.000	90	125110	4.00	3.91	
66 2,4-Dimethylphenol	107	6.751	6.751	0.000	95	248215	4.00	4.15	
69 Bis(2-chloroethoxy)methane	93	6.823	6.823	0.000	91	278259	4.00	4.02	
70 Benzoic acid	105	6.882	6.882	0.000	93	547075	24.0	22.8	
72 2,4-Dichlorophenol	162	6.959	6.959	0.000	95	191458	4.00	3.72	
73 1,2,4-Trichlorobenzene	180	7.030	7.030	0.000	92	218954	4.00	3.76	
74 Naphthalene	128	7.107	7.107	0.000	98	695650	4.00	3.83	
76 4-Chloroaniline	127	7.149	7.149	0.000	94	270233	4.00	3.90	
77 2,6-Dichlorophenol	162	7.161	7.161	0.000	91	196063	4.00	3.85	
79 Hexachlorobutadiene	225	7.208	7.208	0.000	92	125421	4.00	3.71	
84 Caprolactam	113	7.463	7.463	0.000	70	68791	4.00	3.72	
85 4-Chloro-3-methylphenol	107	7.581	7.581	0.000	95	198380	4.00	4.05	
87 2-Methylnaphthalene	142	7.730	7.730	0.000	92	433748	4.00	3.88	
89 1-Methylnaphthalene	142	7.818	7.818	0.000	92	438266	4.00	3.85	
90 Hexachlorocyclopentadiene	237	7.866	7.866	0.000	96	44146	4.00	2.06	
91 1,2,4,5-Tetrachlorobenzene	216	7.884	7.884	0.000	98	211308	4.00	3.61	
93 2,4,6-Trichlorophenol	196	7.979	7.979	0.000	96	135460	4.00	3.80	
94 2,4,5-Trichlorophenol	196	8.026	8.026	0.000	90	136731	4.00	3.64	
96 1,1'-Biphenyl	154	8.133	8.133	0.000	97	565905	4.00	3.90	
97 2-Chloronaphthalene	162	8.162	8.162	0.000	97	446920	4.00	3.85	
100 2-Nitroaniline	65	8.245	8.245	0.000	77	155941	4.00	4.83	
105 Dimethyl phthalate	163	8.370	8.370	0.000	96	501057	4.00	3.99	
106 1,3-Dinitrobenzene	168	8.429	8.429	0.000	80	72180	4.00	3.77	
107 2,6-Dinitrotoluene	165	8.441	8.441	0.000	85	112978	4.00	3.91	
108 Acenaphthylene	152	8.530	8.530	0.000	98	691026	4.00	3.94	
109 3-Nitroaniline	138	8.601	8.601	0.000	89	116097	4.00	3.94	
110 Acenaphthene	153	8.678	8.678	0.000	96	470224	4.00	4.01	
111 2,4-Dinitrophenol	184	8.696	8.696	0.000	82	72051	8.00	6.99	
112 4-Nitrophenol	109	8.749	8.749	0.000	96	138137	8.00	11.1	
114 2,4-Dinitrotoluene	165	8.797	8.797	0.000	87	150670	4.00	4.05	
115 Dibenzofuran	168	8.826	8.826	0.000	95	595204	4.00	3.75	
118 2,3,4,6-Tetrachlorophenol	232	8.933	8.933	0.000	78	86953	4.00	3.33	
121 Hexadecane	57	8.951	8.951	0.000	89	379507	4.00	4.81	
120 Diethyl phthalate	149	8.968	8.968	0.000	96	548067	4.00	4.41	
123 4-Chlorophenyl phenyl ether	204	9.093	9.093	0.000	96	228364	4.00	3.64	
124 Fluorene	166	9.123	9.123	0.000	94	508989	4.00	3.81	
126 4-Nitroaniline	138	9.129	9.129	0.000	76	123478	4.00	3.92	
127 4,6-Dinitro-2-methylphenol	198	9.158	9.158	0.000	75	140359	8.00	7.61	
130 N-Nitrosodiphenylamine	169	9.194	9.194	0.000	67	355229	4.00	3.83	
129 Diphenylamine	169	9.194	9.194	0.000	91	355229	3.42	3.27	
131 1,2-Diphenylhydrazine	77	9.229	9.229	0.000	41	616434	4.00	4.99	
132 Azobenzene	77	9.229	9.229	0.000	96	616434	4.00	4.99	
139 4-Bromophenyl phenyl ether	248	9.514	9.514	0.000	81	131392	4.00	3.47	
140 Hexachlorobenzene	284	9.603	9.603	0.000	89	134575	4.00	3.30	
143 Atrazine	200	9.621	9.621	0.000	87	137110	4.00	4.22	
148 n-Octadecane	57	9.727	9.727	0.000	86	400668	4.00	4.89	
145 Pentachlorophenol	266	9.769	9.769	0.000	86	81968	8.00	5.18	
151 Phenanthrene	178	9.947	9.947	0.000	99	741795	4.00	4.00	
152 Anthracene	178	9.988	9.988	0.000	99	724980	4.00	3.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.118	10.118	0.000	97	635040	4.00	3.85	
157 Di-n-butyl phthalate	149	10.356	10.356	0.000	99	920920	4.00	4.34	
164 Fluoranthene	202	11.108	11.108	0.000	99	749988	4.00	3.81	
166 Benzidine	184	11.215	11.215	0.000	99	941907	8.00	8.13	
167 Pyrene	202	11.369	11.369	0.000	96	782667	4.00	4.15	
174 Butyl benzyl phthalate	149	12.009	12.009	0.000	97	410858	4.00	4.63	
181 Bis(2-ethylhexyl) phthalate	149	12.667	12.667	0.000	95	595907	4.00	4.70	
179 3,3'-Dichlorobenzidine	252	12.697	12.697	0.000	76	690284	8.00	7.66	
180 Benzo[a]anthracene	228	12.762	12.762	0.000	100	757850	4.00	3.93	
182 Chrysene	228	12.810	12.810	0.000	97	681986	4.00	3.87	
184 Di-n-octyl phthalate	149	13.420	13.420	0.000	98	998276	4.00	4.66	
186 Benzo[b]fluoranthene	252	14.007	14.007	0.000	98	775861	4.00	3.81	
187 Benzo[k]fluoranthene	252	14.037	14.037	0.000	100	768474	4.00	3.75	M
189 Benzo[a]pyrene	252	14.398	14.398	0.000	79	683189	4.00	3.76	
194 Dibenz(a,h)anthracene	278	15.939	15.939	0.000	91	681803	4.00	3.78	
193 Indeno[1,2,3-cd]pyrene	276	15.945	15.945	0.000	98	859219	4.00	3.85	
195 Benzo[g,h,i]perylene	276	16.396	16.396	0.000	95	637213	4.00	3.64	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00646 Amount Added: 1.00 Units: mL

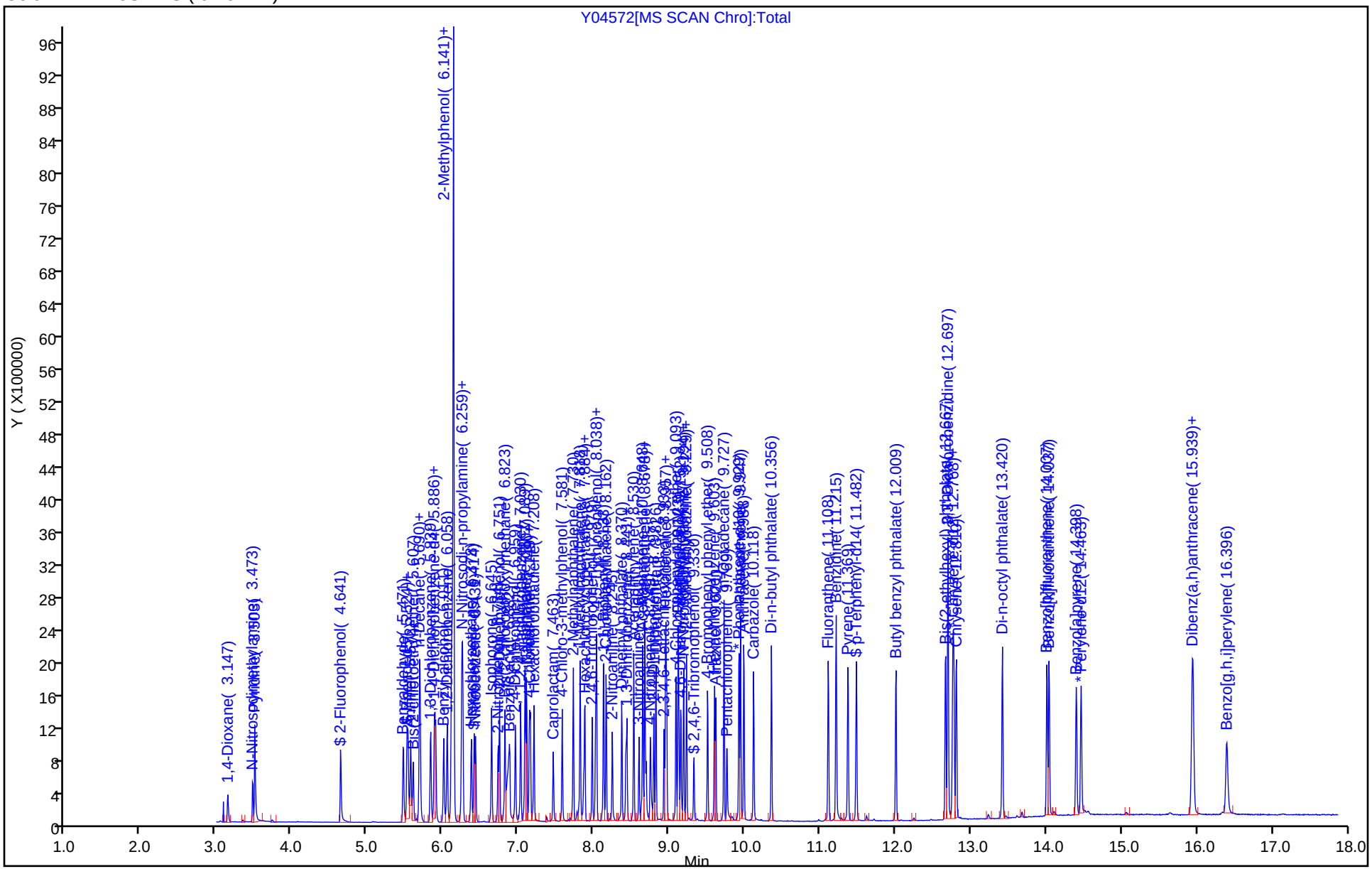
Report Date: 29-Oct-2024 16:16:21 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04572.D

Injection Date:	29-Oct-2024 11:44:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

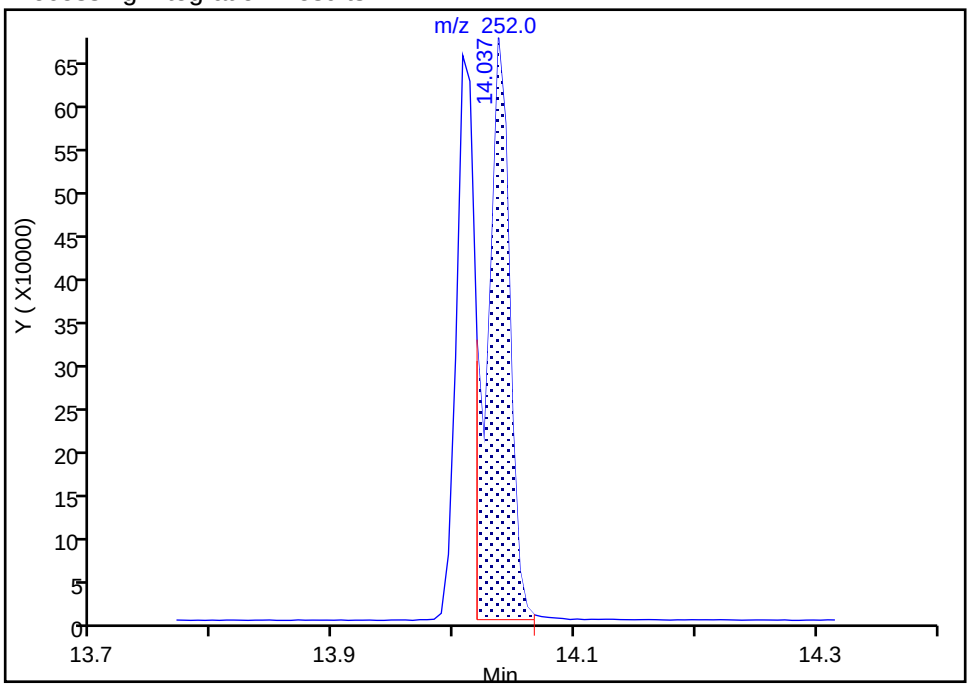
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04572.D
Injection Date: 29-Oct-2024 11:44:30 Instrument ID: HP5973Y
Lims ID: CCVIS
Client ID:
Operator ID: JM ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

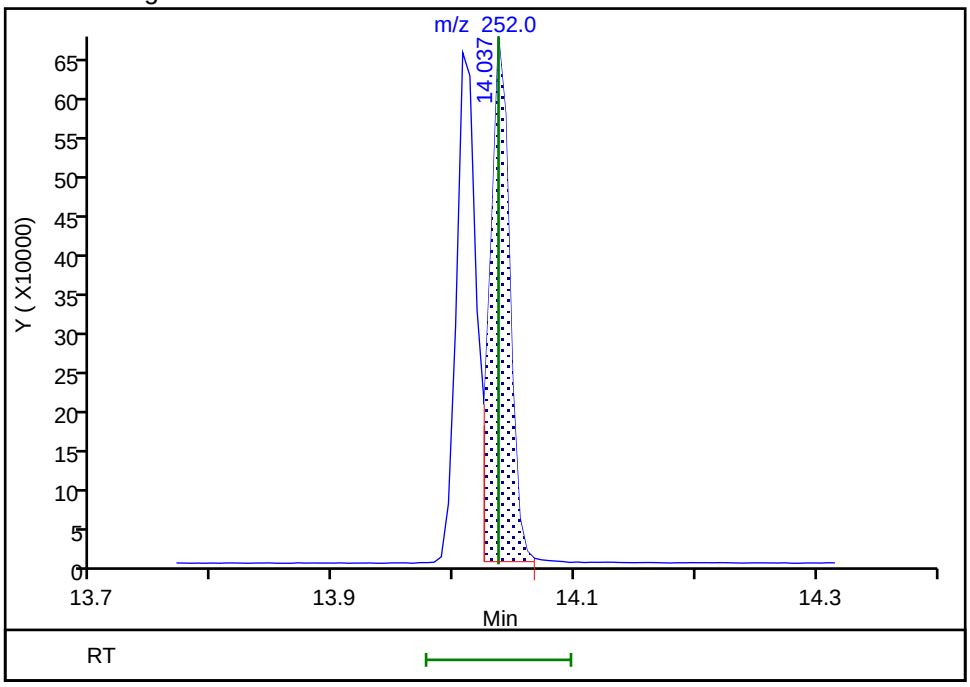
Processing Integration Results

RT: 14.04
Area: 882931
Amount: 4.303718
Amount Units: ng/uL



Manual Integration Results

RT: 14.04
Area: 768474
Amount: 3.745814
Amount Units: ng/uL



Reviewer: IZ8L, 29-Oct-2024 16:14:13 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730403/3 | Calibration Date: 10/30/2024 10:18

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04602.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4946	0.5023	0.0100	4060	4000	1.6	20.0
N-Nitrosodimethylamine	Ave	0.6291	1.136	0.0100	7220	4000	80.6*	50.0
Pyridine	Lin2		0.8132	0.0100	9290	8000	16.1	50.0
Benzaldehyde	Lin2		1.137	0.0100	4740	4000	18.4	50.0
Phenol	Ave	1.548	1.581	0.8000	4090	4000	2.2	20.0
Aniline	Ave	1.889	1.810	0.0100	3830	4000	-4.1	20.0
Bis(2-chloroethyl)ether	Lin2		1.321	0.7000	4140	4000	3.5	20.0
n-Decane	Ave	1.489	1.646	0.0100	4420	4000	10.6	20.0
2-Chlorophenol	Ave	1.288	1.305	0.8000	4050	4000	1.3	20.0
1,3-Dichlorobenzene	Ave	1.528	1.523	0.0100	3990	4000	-0.3	20.0
1,4-Dichlorobenzene	Ave	1.565	1.557	0.0100	3980	4000	-0.5	20.0
Benzyl alcohol	Lin2		0.8313	0.0100	4010	4000	0.2	20.0
1,2-Dichlorobenzene	Ave	1.468	1.454	0.0100	3960	4000	-0.9	20.0
2-Methylphenol	Ave	1.174	1.179	0.7000	4020	4000	0.4	20.0
bis (2-chloroisopropyl) ether	Lin2		2.749	0.0100	5600	4000	40.0*	20.0
Indene	Lin2		2.692	0.0100	28600	24000	19.2	20.0
N-Nitrosodi-n-propylamine	Ave	0.8823	0.9470	0.5000	4290	4000	7.3	20.0
4-Methylphenol	Ave	1.221	1.247	0.6000	4090	4000	2.2	20.0
Acetophenone	Ave	1.701	1.849	0.0100	4350	4000	8.7	20.0
Hexachloroethane	Ave	0.5953	0.6972	0.3000	4680	4000	17.1	20.0
Nitrobenzene	Ave	0.3721	0.4408	0.2000	4740	4000	18.5	20.0
Isophorone	Ave	0.6597	0.7048	0.4000	4270	4000	6.8	20.0
2-Nitrophenol	Lin2		0.1956	0.1000	4200	4000	4.9	20.0
2,4-Dimethylphenol	Ave	0.3484	0.3843	0.2000	4410	4000	10.3	20.0
Bis(2-chloroethoxy)methane	Ave	0.4030	0.4067	0.3000	4040	4000	0.9	20.0
Benzoic acid	Lin1		0.1482	0.0100	24700	24000	3.1	50.0
2,4-Dichlorophenol	Lin2		0.2947	0.2000	3930	4000	-1.8	20.0
1,2,4-Trichlorobenzene	Ave	0.3390	0.3318	0.0100	3920	4000	-2.1	20.0
Naphthalene	Ave	1.057	1.045	0.7000	3960	4000	-1.1	20.0
4-Chloroaniline	Ave	0.4039	0.4208	0.0100	4170	4000	4.2	20.0
2,6-Dichlorophenol	Ave	0.2965	0.3018	0.0100	4070	4000	1.8	20.0
Hexachlorobutadiene	Ave	0.1967	0.2052	0.0100	4170	4000	4.4	20.0
Caprolactam	Lin2		0.0994	0.0100	3690	4000	-7.7	50.0
4-Chloro-3-methylphenol	Lin2		0.3040	0.2000	4260	4000	6.5	20.0
2-Methylnaphthalene	Ave	0.6518	0.6418	0.4000	3940	4000	-1.5	20.0
1-Methylnaphthalene	Ave	0.6626	0.6655	0.0100	4020	4000	0.4	20.0
Hexachlorocyclopentadiene	Lin2		0.1167	0.0500	2140	4000	-46.5*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5921	0.5699	0.0100	3850	4000	-3.7	20.0
2,4,6-Trichlorophenol	Lin2		0.3484	0.2000	3860	4000	-3.4	20.0
2,4,5-Trichlorophenol	Lin2		0.3742	0.2000	3930	4000	-1.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730403/3 | Calibration Date: 10/30/2024 10:18

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04602.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.467	1.457	0.0100	3970	4000	-0.7	20.0
2-Chloronaphthalene	Ave	1.173	1.154	0.8000	3940	4000	-1.6	20.0
2-Nitroaniline	Lin2		0.3874	0.0100	4750	4000	18.8	20.0
Dimethyl phthalate	Ave	1.270	1.265	0.0100	3980	4000	-0.4	20.0
1,3-Dinitrobenzene	Lin2		0.1057	0.0100	3790	4000	-5.3	20.0
2,6-Dinitrotoluene	Lin2		0.2835	0.2000	3880	4000	-3.0	20.0
Acenaphthylene	Ave	1.772	1.822	0.9000	4110	4000	2.8	20.0
3-Nitroaniline	Lin2		0.2881	0.0100	3870	4000	-3.3	20.0
Acenaphthene	Ave	1.186	1.214	0.9000	4090	4000	2.4	20.0
2,4-Dinitrophenol	Lin1		0.1006	0.0100	7520	8000	-5.9	20.0
4-Nitrophenol	Lin2		0.1818	0.0100	11500	8000	44.3*	20.0
2,4-Dinitrotoluene	Lin2		0.3755	0.2000	4000	4000	0.0	20.0
Dibenzofuran	Ave	1.604	1.621	0.8000	4040	4000	1.0	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.2389	0.0100	3610	4000	-9.8	20.0
Hexadecane	Ave	0.7970	0.9326	0.0100	4680	4000	17.0	20.0
Diethyl phthalate	Ave	1.255	1.378	0.0100	4390	4000	9.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.6339	0.5767	0.4000	3640	4000	-9.0	20.0
Fluorene	Lin2		1.315	0.9000	3890	4000	-2.6	20.0
4-Nitroaniline	Lin2		0.3032	0.0100	3820	4000	-4.6	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.0956	0.0100	7030	8000	-12.1	20.0
Diphenylamine	Ave	0.6472	0.6158	0.0100	3250	3420	-4.8	20.0
N-Nitrosodiphenylamine	Ave	0.5533	0.5265	0.0100	3810	4000	-4.8	20.0
1,2-Diphenylhydrazine	Ave	0.7367	0.9282	0.0100	5040	4000	26.0*	20.0
trans-Azobenzene	Ave	0.7367	0.9282	0.0100	5040	4000	26.0*	20.0
4-Bromophenyl phenyl ether	Ave	0.2258	0.1910	0.1000	3380	4000	-15.4	20.0
Hexachlorobenzene	Ave	0.2431	0.2115	0.1000	3480	4000	-13.0	20.0
Atrazine	Lin2		0.3478	0.0100	4230	4000	5.8	20.0
n-Octadecane	Ave	0.4883	0.6000	0.0100	4910	4000	22.9*	20.0
Pentachlorophenol	Lin1		0.0683	0.0500	5660	8000	-29.2	50.0
Phenanthrene	Ave	1.106	1.133	0.7000	4100	4000	2.5	20.0
Anthracene	Ave	1.106	1.099	0.7000	3970	4000	-0.6	20.0
Carbazole	Ave	0.9831	0.9613	0.0100	3910	4000	-2.2	20.0
Di-n-butyl phthalate	Ave	1.265	1.389	0.0100	4390	4000	9.8	20.0
Fluoranthene	Ave	1.174	1.139	0.6000	3880	4000	-3.0	20.0
Benzidine	Lin2		0.8604	0.0100	8350	8000	4.4	50.0
Pyrene	Ave	1.340	1.420	0.6000	4240	4000	6.0	20.0
Butyl benzyl phthalate	Lin2		0.7599	0.0100	4820	4000	20.5*	20.0
Bis(2-ethylhexyl) phthalate	Lin2		1.106	0.0100	4910	4000	22.7*	20.0
3,3'-Dichlorobenzidine	Lin2		0.6320	0.0100	7890	8000	-1.4	50.0
Benzo(a)anthracene	Ave	1.370	1.387	0.8000	4050	4000	1.3	20.0
Chrysene	Ave	1.251	1.312	0.7000	4190	4000	4.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Lab Sample ID: CCVIS 480-730403/3 | Calibration Date: 10/30/2024 10:18

Instrument ID: HP5973Y | Calib Start Date: 10/10/2024 14:47

GC Column: RXI-5Sil MS ID: 0.25(mm) | Calib End Date: 10/10/2024 18:00

Lab File ID: Y04602.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin2		1.834	0.0100	4820	4000	20.4*	20.0
Benzo(b)fluoranthene	Lin2		1.192	0.7000	3740	4000	-6.5	20.0
Benzo(k)fluoranthene	Ave	1.283	1.242	0.7000	3870	4000	-3.2	20.0
Benzo(a)pyrene	Lin2		1.116	0.7000	3930	4000	-1.8	20.0
Dibenz(a,h)anthracene	Lin2		1.067	0.4000	3790	4000	-5.3	20.0
Indeno(1,2,3-cd)pyrene	Lin2		1.328	0.5000	3810	4000	-4.9	20.0
Benzo(g,h,i)perylene	Lin2		1.022	0.5000	3730	4000	-6.7	20.0
2-Fluorophenol	Ave	1.232	1.235	0.0100	4010	4000	0.2	20.0
Phenol-d5	Ave	1.523	1.519	0.0100	3990	4000	-0.2	20.0
Nitrobenzene-d5	Lin2		0.4445	0.0100	4640	4000	16.0	20.0
2-Fluorobiphenyl	Ave	1.375	1.351	0.0100	3930	4000	-1.8	20.0
2,4,6-Tribromophenol	Lin2		0.0841	0.0100	3470	4000	-13.1	20.0
p-Terphenyl-d14	Ave	1.084	1.077	0.0100	3970	4000	-0.7	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04602.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Oct-2024 10:18:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120914-003
Operator ID: JM Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:33 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 10:57:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.883	5.883	0.000	96	153871	4.00	4.00	
* 2 Naphthalene-d8	136	7.086	7.086	0.000	99	563716	4.00	4.00	
* 3 Acenaphthene-d10	164	8.651	8.651	0.000	95	329934	4.00	4.00	
* 4 Phenanthrene-d10	188	9.926	9.926	0.000	97	565127	4.00	4.00	
* 5 Chrysene-d12	240	12.777	12.777	0.000	99	468318	4.00	4.00	
* 6 Perylene-d12	264	14.460	14.460	0.000	97	537948	4.00	4.00	
$ 7 2-Fluorophenol	112	4.638	4.638	0.000	94	189999	4.00	4.01	
$ 8 Phenol-d5	99	5.521	5.521	0.000	89	233721	4.00	3.99	
$ 9 Nitrobenzene-d5	82	6.410	6.410	0.000	96	250587	4.00	4.64	
$ 10 2-Fluorobiphenyl	172	8.035	8.035	0.000	99	445581	4.00	3.93	
$ 11 2,4,6-Tribromophenol	330	9.327	9.327	0.000	81	47541	4.00	3.47	
$ 12 p-Terphenyl-d14	244	11.485	11.485	0.000	97	504172	4.00	3.97	
13 1,4-Dioxane	88	3.138	3.138	0.000	93	77291	4.00	4.06	
14 N-Nitrosodimethylamine	42	3.470	3.470	0.000	74	174784	4.00	7.22	
15 Pyridine	52	3.500	3.500	0.000	77	250267	8.00	9.29	
35 Benzaldehyde	77	5.474	5.474	0.000	88	174946	4.00	4.74	
37 Phenol	94	5.533	5.533	0.000	91	243320	4.00	4.09	
36 Aniline	93	5.569	5.569	0.000	93	278550	4.00	3.83	
39 Bis(2-chloroethyl)ether	93	5.604	5.604	0.000	86	203296	4.00	4.14	
41 n-Decane	57	5.687	5.687	0.000	94	253275	4.00	4.42	
40 2-Chlorophenol	128	5.699	5.699	0.000	93	200796	4.00	4.05	
43 1,3-Dichlorobenzene	146	5.835	5.835	0.000	94	234351	4.00	3.99	
44 1,4-Dichlorobenzene	146	5.901	5.901	0.000	93	239617	4.00	3.98	
45 Benzyl alcohol	108	6.007	6.007	0.000	86	127911	4.00	4.01	
46 1,2-Dichlorobenzene	146	6.055	6.055	0.000	93	223765	4.00	3.96	
48 2-Methylphenol	108	6.108	6.108	0.000	89	181433	4.00	4.02	
49 2,2'-oxybis[1-chloropropane]	45	6.120	6.120	0.000	88	423018	4.00	5.60	
47 Indene	115	6.138	6.138	0.000	87	2484956	24.0	28.6	
53 N-Nitrosodi-n-propylamine	70	6.244	6.244	0.000	93	145709	4.00	4.29	
57 4-Methylphenol	108	6.256	6.256	0.000	93	191897	4.00	4.09	
52 Acetophenone	105	6.262	6.262	0.000	93	284501	4.00	4.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	6.375	6.375	0.000	91	107272	4.00	4.68	
59 Nitrobenzene	77	6.434	6.434	0.000	95	248512	4.00	4.74	
62 Isophorone	82	6.647	6.647	0.000	95	397324	4.00	4.27	
64 2-Nitrophenol	139	6.730	6.730	0.000	91	110286	4.00	4.20	
66 2,4-Dimethylphenol	107	6.748	6.748	0.000	97	216614	4.00	4.41	
69 Bis(2-chloroethoxy)methane	93	6.819	6.819	0.000	93	229262	4.00	4.04	
70 Benzoic acid	105	6.885	6.885	0.000	92	501182	24.0	24.7	
72 2,4-Dichlorophenol	162	6.962	6.962	0.000	95	166109	4.00	3.93	
73 1,2,4-Trichlorobenzene	180	7.033	7.033	0.000	91	187061	4.00	3.92	
74 Naphthalene	128	7.110	7.110	0.000	98	589225	4.00	3.96	
76 4-Chloroaniline	127	7.145	7.145	0.000	94	237214	4.00	4.17	
77 2,6-Dichlorophenol	162	7.157	7.157	0.000	91	170121	4.00	4.07	
79 Hexachlorobutadiene	225	7.205	7.205	0.000	94	115696	4.00	4.17	
84 Caprolactam	113	7.466	7.466	0.000	70	56045	4.00	3.69	
85 4-Chloro-3-methylphenol	107	7.578	7.578	0.000	93	171355	4.00	4.26	
87 2-Methylnaphthalene	142	7.726	7.726	0.000	90	361800	4.00	3.94	
89 1-Methylnaphthalene	142	7.821	7.821	0.000	92	375142	4.00	4.02	
90 Hexachlorocyclopentadiene	237	7.869	7.869	0.000	96	38504	4.00	2.14	
91 1,2,4,5-Tetrachlorobenzene	216	7.880	7.880	0.000	98	188038	4.00	3.85	
93 2,4,6-Trichlorophenol	196	7.981	7.981	0.000	95	114962	4.00	3.86	
94 2,4,5-Trichlorophenol	196	8.023	8.023	0.000	91	123447	4.00	3.93	
96 1,1'-Biphenyl	154	8.129	8.129	0.000	97	480747	4.00	3.97	
97 2-Chloronaphthalene	162	8.165	8.165	0.000	97	380891	4.00	3.94	
100 2-Nitroaniline	65	8.248	8.248	0.000	79	127828	4.00	4.75	
105 Dimethyl phthalate	163	8.372	8.372	0.000	96	417252	4.00	3.98	
106 1,3-Dinitrobenzene	168	8.426	8.426	0.000	81	59570	4.00	3.79	
107 2,6-Dinitrotoluene	165	8.438	8.438	0.000	91	93533	4.00	3.88	
108 Acenaphthylene	152	8.533	8.533	0.000	98	601162	4.00	4.11	
109 3-Nitroaniline	138	8.598	8.598	0.000	89	95044	4.00	3.87	
110 Acenaphthene	153	8.681	8.681	0.000	96	400663	4.00	4.09	
111 2,4-Dinitrophenol	184	8.693	8.693	0.000	77	66355	8.00	7.52	
112 4-Nitrophenol	109	8.752	8.752	0.000	95	119992	8.00	11.5	
114 2,4-Dinitrotoluene	165	8.799	8.799	0.000	84	123894	4.00	4.00	
115 Dibenzofuran	168	8.823	8.823	0.000	95	534811	4.00	4.04	
118 2,3,4,6-Tetrachlorophenol	232	8.936	8.936	0.000	79	78825	4.00	3.61	
121 Hexadecane	57	8.953	8.953	0.000	86	307690	4.00	4.68	
120 Diethyl phthalate	149	8.965	8.965	0.000	96	454727	4.00	4.39	
123 4-Chlorophenyl phenyl ether	204	9.090	9.090	0.000	95	190280	4.00	3.64	
124 Fluorene	166	9.119	9.119	0.000	92	433895	4.00	3.89	
126 4-Nitroaniline	138	9.131	9.131	0.000	74	100040	4.00	3.82	
127 4,6-Dinitro-2-methylphenol	198	9.155	9.155	0.000	73	108018	8.00	7.03	
129 Diphenylamine	169	9.190	9.190	0.000	92	297551	3.42	3.25	
130 N-Nitrosodiphenylamine	169	9.190	9.190	0.000	67	297551	4.00	3.81	
132 Azobenzene	77	9.232	9.232	0.000	96	524541	4.00	5.04	
131 1,2-Diphenylhydrazine	77	9.232	9.232	0.000	41	524541	4.00	5.04	
139 4-Bromophenyl phenyl ether	248	9.511	9.511	0.000	82	107915	4.00	3.38	
140 Hexachlorobenzene	284	9.605	9.605	0.000	91	119511	4.00	3.48	
143 Atrazine	200	9.617	9.617	0.000	87	114735	4.00	4.23	
148 n-Octadecane	57	9.724	9.724	0.000	85	339102	4.00	4.91	
145 Pentachlorophenol	266	9.765	9.765	0.000	87	77227	8.00	5.66	
151 Phenanthrene	178	9.943	9.943	0.000	98	640412	4.00	4.10	M
152 Anthracene	178	9.991	9.991	0.000	98	621241	4.00	3.97	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.121	10.121	0.000	97	543268	4.00	3.91	
157 Di-n-butyl phthalate	149	10.358	10.358	0.000	99	784852	4.00	4.39	
164 Fluoranthene	202	11.111	11.111	0.000	98	643499	4.00	3.88	
166 Benzidine	184	11.212	11.212	0.000	99	805925	8.00	8.35	
167 Pyrene	202	11.372	11.372	0.000	97	665054	4.00	4.24	
174 Butyl benzyl phthalate	149	12.006	12.006	0.000	96	355868	4.00	4.82	
181 Bis(2-ethylhexyl) phthalate	149	12.664	12.664	0.000	95	517759	4.00	4.91	
179 3,3'-Dichlorobenzidine	252	12.700	12.700	0.000	76	591929	8.00	7.89	
180 Benzo[a]anthracene	228	12.765	12.765	0.000	99	649433	4.00	4.05	
182 Chrysene	228	12.806	12.806	0.000	97	614273	4.00	4.19	
184 Di-n-octyl phthalate	149	13.417	13.417	0.000	98	858742	4.00	4.82	
186 Benzo[b]fluoranthene	252	14.010	14.010	0.000	97	640996	4.00	3.74	
187 Benzo[k]fluoranthene	252	14.039	14.039	0.000	99	667921	4.00	3.87	
189 Benzo[a]pyrene	252	14.395	14.395	0.000	78	600544	4.00	3.93	
194 Dibenz(a,h)anthracene	278	15.936	15.936	0.000	89	574239	4.00	3.79	
193 Indeno[1,2,3-cd]pyrene	276	15.948	15.948	0.000	95	714545	4.00	3.81	
195 Benzo[g,h,i]perylene	276	16.393	16.393	0.000	95	549757	4.00	3.73	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00646 Amount Added: 1.00 Units: mL

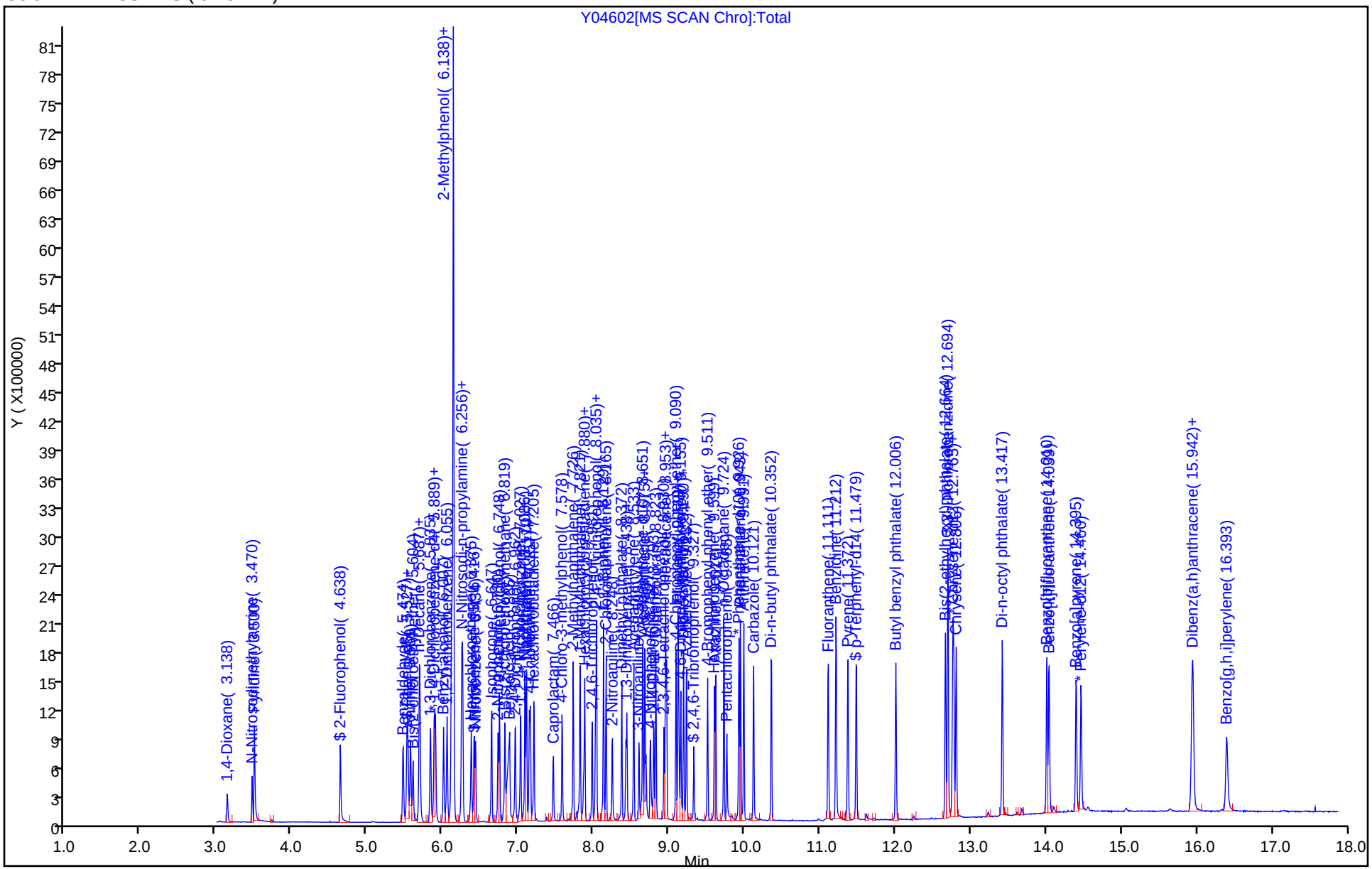
Report Date: 30-Oct-2024 16:06:34 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04602.D

Injection Date:	30-Oct-2024 10:18:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo

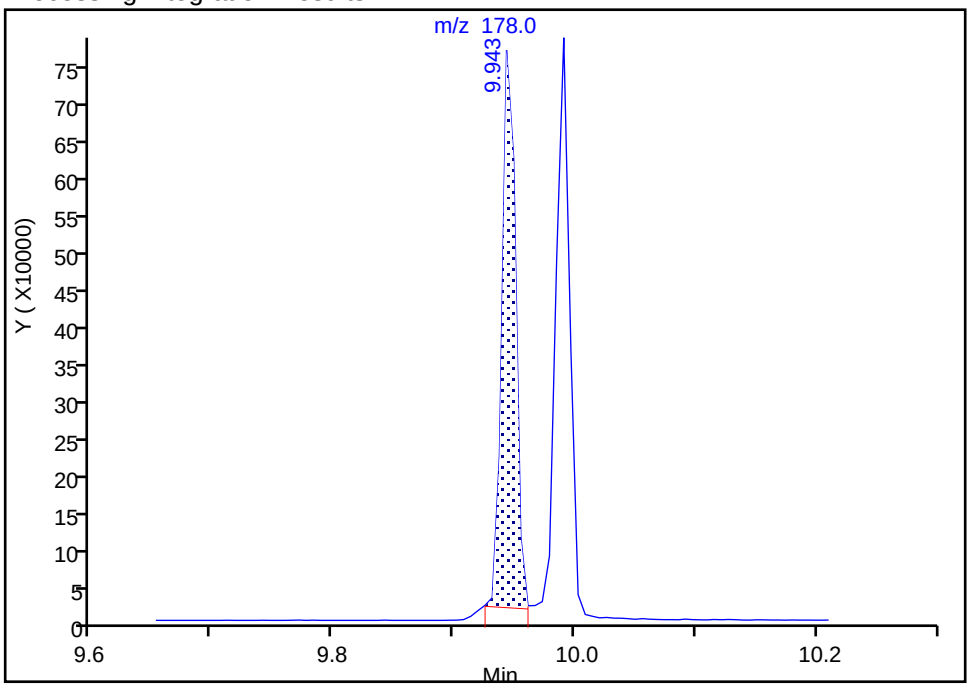
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04602.D
Injection Date: 30-Oct-2024 10:18:30 Instrument ID: HP5973Y
Lims ID: CCVIS
Client ID:
Operator ID: JM ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

151 Phenanthrene, CAS: 85-01-8

Signal: 1

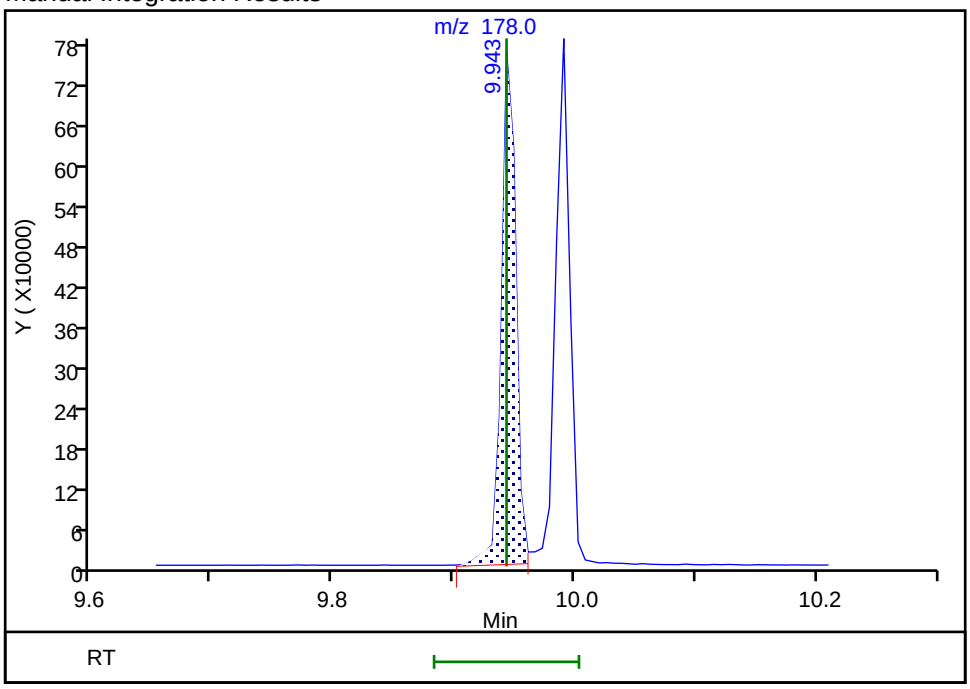
Processing Integration Results

RT: 9.94
Area: 591694
Amount: 3.787393
Amount Units: ng/uL



Manual Integration Results

RT: 9.94
Area: 640412
Amount: 4.099233
Amount Units: ng/uL



Reviewer: IZ8L, 30-Oct-2024 15:57:40 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 10-Oct-2024 14:20:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120477-002
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Oct-2024 11:34:42 Calib Date: 10-Oct-2024 21:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04090.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: IZ8L Date: 10-Oct-2024 15:34:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
250 Pentachlorophenol_T	266	9.889	9.889	0.000	94	411120	NR	NR	a
251 DFTPP									
252 Benzidine_T	184	11.377	11.377	0.000	99	2969781	NR	NR	a
253 4,4'-DDE	246	11.554	11.554	0.000	1	0		NR	a
254 4,4'-DDD	235	12.012	12.012	0.000	97	17035		NR	a
255 4,4'-DDT	235	12.332	12.332	0.000	99	1904158	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

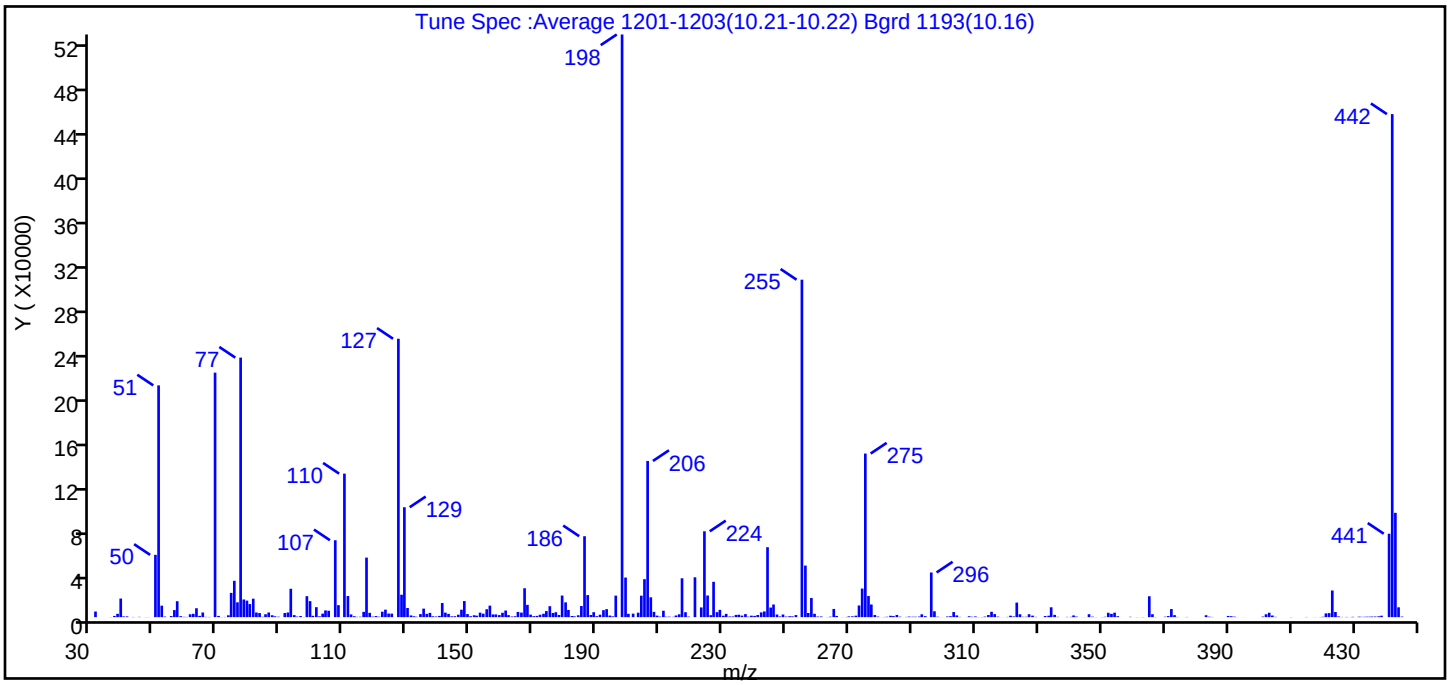
MB_DFTPP_WRK_00443 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D
Injection Date: 10-Oct-2024 14:20:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

251 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (115.8)
51	10-80% of the base peak	39.8
68	<2% of mass 69	0.0 (0.0)
69	Present	42.0
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	47.8
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	28.1
365	>1% of mass 198	3.6
441	present but <24% of mass 442	14.3 (16.6)
442	base peak, or >50% of 198	86.3
443	15-24% of mass 442	17.9 (20.7)

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 10-Oct-2024 14:20:30
Spectrum: Tune Spec :Average 1201-1203(10.21-10.22) Bgrd 1193(10.16)
Base Peak: 198.05
Minimum % Base Peak: 0
Number of Points: 353

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	5055	133.00	388	226.00	1751	321.00	1303
36.00	105	134.00	2761	227.00	31752	322.00	615
37.00	1066	135.00	7653	228.00	4490	323.00	13070
38.00	3004	136.00	2933	229.00	6570	324.00	2593
39.00	16712	137.00	3847	230.00	1266	325.00	316
40.00	668	138.00	744	231.00	2935	326.00	323
41.00	692	139.00	578	232.00	605	327.00	2611
43.00	175	140.00	1072	233.00	618	328.00	1338
44.00	20	141.00	12694	234.00	2004	329.00	251
45.00	261	142.00	4067	235.00	2185	331.00	54
47.00	60	143.00	2926	236.00	1374	332.00	1010
48.00	104	144.00	727	237.00	2739	333.00	1262
50.00	55976	145.00	820	238.00	419	334.00	8862
51.00	208256	146.00	2205	239.00	1307	335.00	2038
52.00	10309	147.00	6697	240.00	1132	336.00	292
53.00	501	148.00	14458	241.00	1929	339.00	225
55.00	991	149.00	2758	242.00	4267	340.00	264
56.00	6339	150.00	855	243.00	5137	341.00	1537
57.00	14327	151.00	1689	244.00	62848	342.00	498
58.00	885	152.00	1315	245.00	8614	344.00	51
59.00	305	153.00	4057	246.00	11353	345.00	65
60.00	199	154.00	3134	247.00	2350	346.00	2616
61.00	2582	155.00	7095	248.00	623	347.00	436
62.00	2993	156.00	10338	249.00	2361	348.00	112
63.00	8020	157.00	2418	250.00	516	350.00	118
64.00	1141	158.00	2434	251.00	833	351.00	311
65.00	4182	159.00	1827	252.00	705	352.00	3910
66.00	254	160.00	3927	253.00	1877	353.00	2960
67.00	203	161.00	5931	255.00	303232	354.00	3998
69.00	219712	162.00	1802	256.00	46352	355.00	832
70.00	1096	163.00	567	257.00	3722	359.00	299
71.00	106	164.00	776	258.00	17184	361.00	111
72.00	177	165.00	4683	259.00	3018	362.00	51

Report Date: 11-Oct-2024 11:34:43 Chrom Revision: 2.3 24-Sep-2024 15:19:46
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 10-Oct-2024 14:20:30
Spectrum: Tune Spec :Average 1201-1203(10.21-10.22) Bgrd 1193(10.16)
Base Peak: 198.05
Minimum % Base Peak: 0
Number of Points: 353

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1652	166.00	4080	260.00	536	363.00	148
74.00	21792	167.00	25976	261.00	607	365.00	18768
75.00	32656	168.00	11019	263.00	107	366.00	2637
76.00	13314	169.00	2247	264.00	410	367.00	144
77.00	233216	170.00	882	265.00	7382	370.00	375
78.00	15885	171.00	1128	266.00	1076	371.00	985
79.00	14828	172.00	2180	268.00	64	372.00	7293
80.00	11757	173.00	3035	269.00	175	373.00	1782
81.00	16576	174.00	5469	270.00	664	374.00	208
82.00	4153	175.00	9834	271.00	746	377.00	176
83.00	3681	176.00	3722	272.00	1319	383.00	1712
84.00	308	177.00	4437	273.00	10489	384.00	425
85.00	2587	178.00	1901	274.00	25688	385.00	172
86.00	4187	179.00	19416	275.00	147008	390.00	1070
87.00	1697	180.00	13287	276.00	18960	391.00	823
88.00	757	181.00	6466	277.00	11367	392.00	443
89.00	386	182.00	1036	278.00	1911	393.00	57
91.00	3694	183.00	720	279.00	531	395.00	58
92.00	4206	184.00	1672	280.00	55	401.00	501
93.00	25512	185.00	10001	281.00	158	402.00	2580
94.00	1796	186.00	72720	282.00	340	403.00	3953
95.00	496	187.00	19848	283.00	1257	404.00	1455
96.00	988	188.00	1918	284.00	957	405.00	271
97.00	137	189.00	4464	285.00	1989	410.00	140
98.00	18832	190.00	864	286.00	433	415.00	156
99.00	14398	191.00	2192	287.00	64	417.00	60
100.00	1200	192.00	6262	288.00	199	418.00	50
101.00	8948	193.00	7207	289.00	528	419.00	149
102.00	716	194.00	1421	290.00	365	420.00	360
103.00	3153	195.00	720	291.00	386	421.00	3374
104.00	6063	196.00	19336	292.00	544	422.00	3607
105.00	5722	198.00	523584	293.00	2536	423.00	23952
107.00	69112	199.00	35584	294.00	903	424.00	4622
108.00	10781	200.00	2991	296.00	40144	425.00	652

Report Date: 11-Oct-2024 11:34:43 Chrom Revision: 2.3 24-Sep-2024 15:19:46
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 10-Oct-2024 14:20:30
Spectrum: Tune Spec :Average 1201-1203(10.21-10.22) Bgrd 1193(10.16)
Base Peak: 198.05
Minimum % Base Peak: 0
Number of Points: 353

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	128968	202.00	3158	297.00	5278	426.00	194
111.00	18976	203.00	4002	298.00	403	428.00	200
112.00	2434	204.00	19280	299.00	69	428.00	90
113.00	827	205.00	34120	301.00	579	429.00	170
114.00	266	206.00	140352	302.00	832	430.00	241
115.00	366	207.00	17832	303.00	4589	431.00	312
116.00	4745	208.00	4762	304.00	1549	432.00	358
117.00	53520	209.00	1363	305.00	233	433.00	296
118.00	3864	210.00	511	307.00	53	434.00	415
119.00	463	211.00	5762	308.00	802	435.00	399
120.00	972	212.00	391	309.00	348	436.00	518
121.00	412	213.00	433	310.00	625	437.00	540
122.00	4876	214.00	285	311.00	119	438.00	760
123.00	6731	215.00	1482	312.00	130	439.00	1282
124.00	3222	216.00	2535	313.00	491	441.00	74968
125.00	3160	217.00	34944	314.00	1920	442.00	452032
127.00	250176	218.00	4438	315.00	4824	443.00	93744
128.00	20136	219.00	513	316.00	2741	444.00	8836
129.00	98776	221.00	35808	317.00	465	445.00	498
130.00	8213	223.00	8732	318.00	54		
131.00	1523	224.00	77136	319.00	55		
132.00	765	225.00	19440	320.00	212		

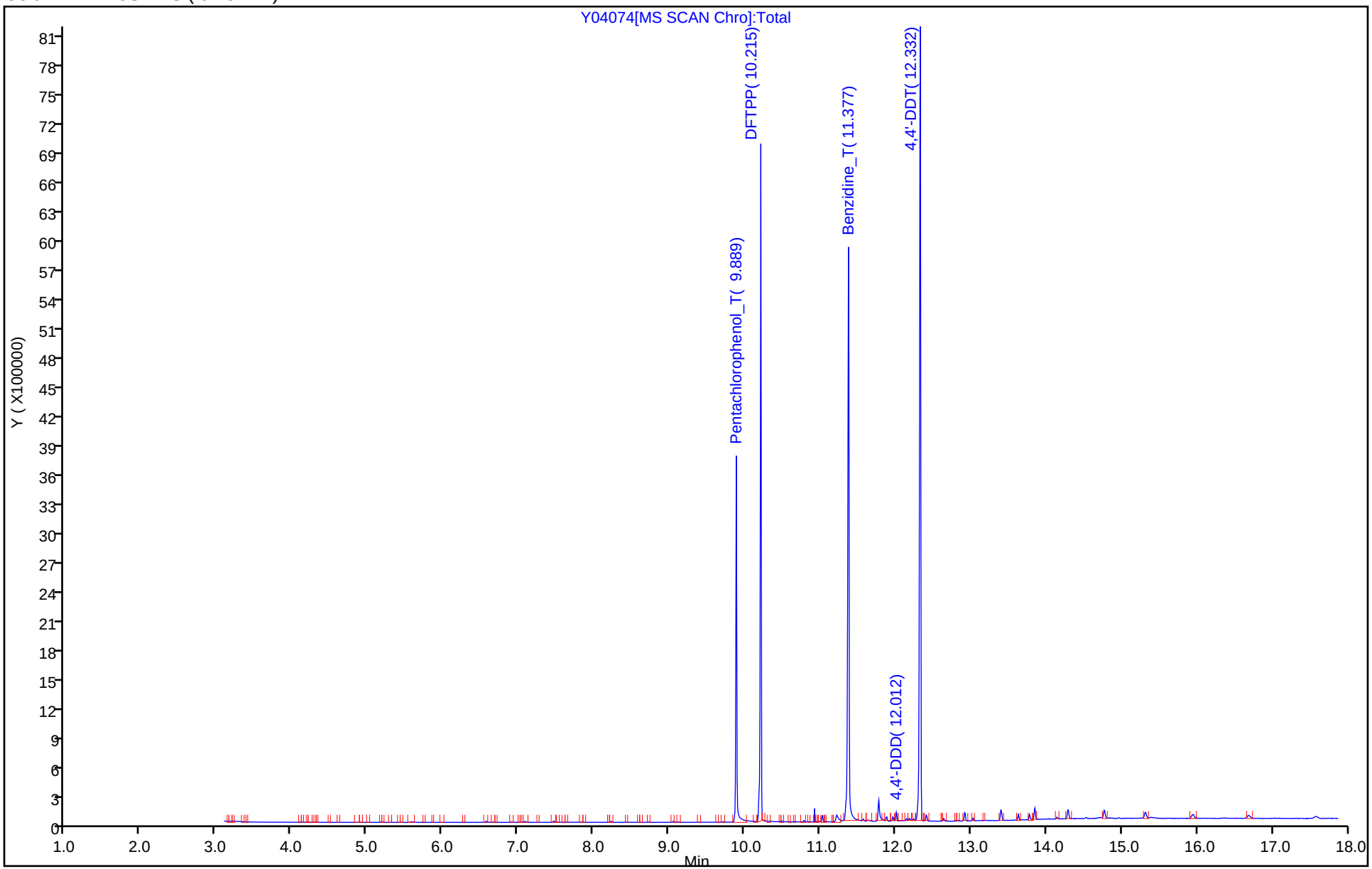
Report Date: 11-Oct-2024 11:34:43 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D

Injection Date:	10-Oct-2024 14:20:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)

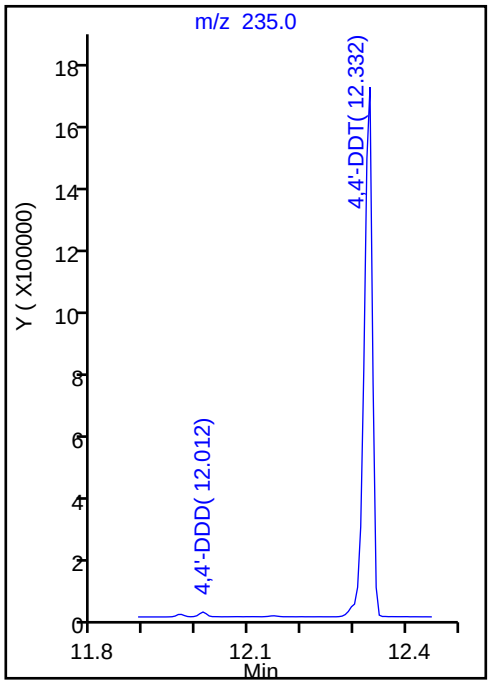


Breakdown Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D
Injection Date: 10-Oct-2024 14:20:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

255 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

255 4,4'-DDT, Area = 1904158
254 4,4'-DDD, Area = 17035
253 4,4'-DDE, Area = 0

%Breakdown: 0.89%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Buffalo

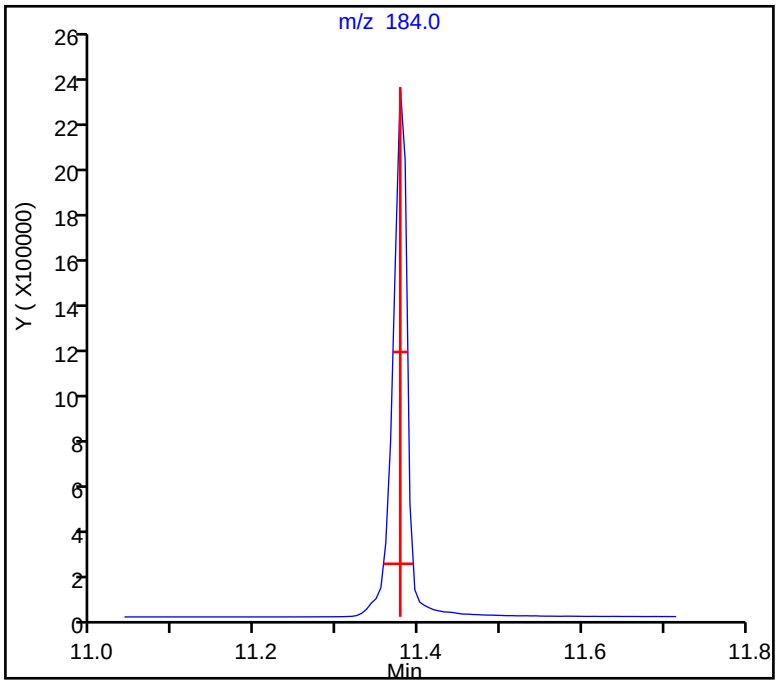
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D
Injection Date: 10-Oct-2024 14:20:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

252 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 0.76, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Buffalo

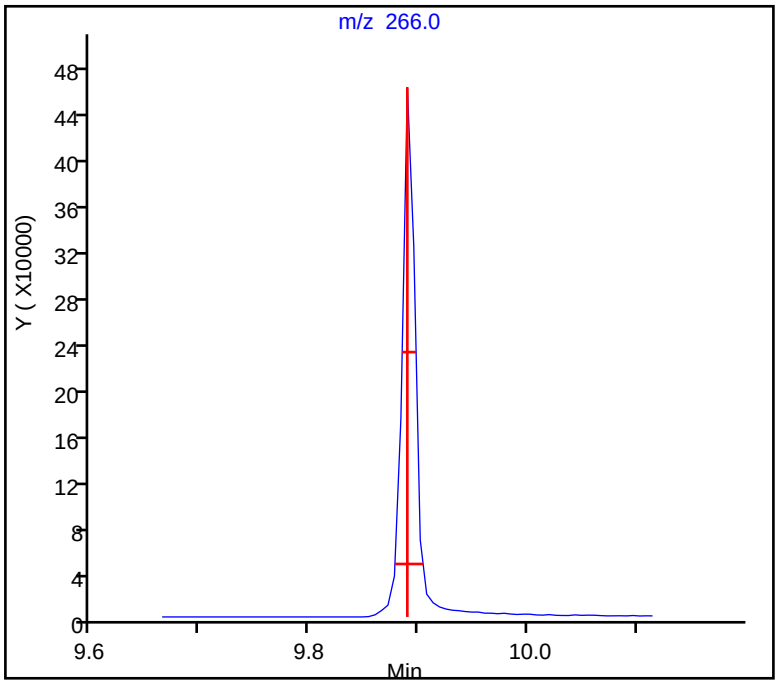
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D
Injection Date: 10-Oct-2024 14:20:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

250 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.36, Max. Tailing <= 2.00
Passed



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 29-Oct-2024 11:16:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-002
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Oct-2024 16:16:15 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: IZ8L Date: 29-Oct-2024 11:35:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
250 Pentachlorophenol_T	266	9.768	9.768	0.000	87	342851	NR	NR	
251 DFTPP									
252 Benzidine_T	184	11.220	11.220	0.000	99	2646357	NR	NR	
253 4,4'-DDE	246	11.410	11.410	0.000	82	2812		NR	
254 4,4'-DDD	235	11.801	11.801	0.000	93	10946		NR	
255 4,4'-DDT	235	12.163	12.163	0.000	95	1809612	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

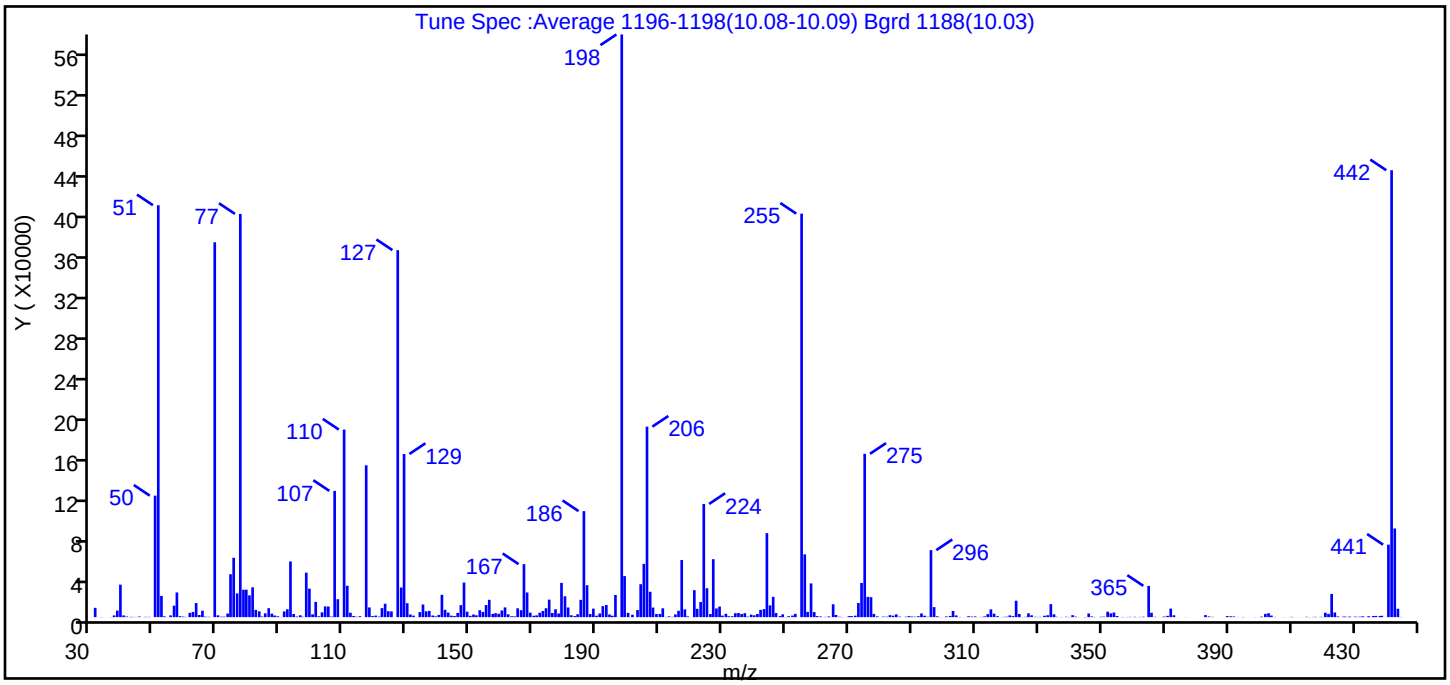
MB_DFTPP_WRK_00443 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D
Injection Date: 29-Oct-2024 11:16:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

251 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (130.4)
51	10-80% of the base peak	70.7
68	<2% of mass 69	0.0 (0.0)
69	Present	64.3
70	<2% of mass 69	0.3 (0.5)
127	10-80% of the base peak	63.0
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	28.0
365	>1% of mass 198	5.4
441	present but <24% of mass 442	12.4 (16.2)
442	base peak, or >50% of 198	76.7
443	15-24% of mass 442	15.2 (19.8)

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 29-Oct-2024 11:16:30
Spectrum: Tune Spec :Average 1196-1198(10.08-10.09) Bgrd 1188(10.03)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	9272	134.00	5007	234.00	3974	334.00	12959
32.00	57	135.00	12584	235.00	4098	335.00	2803
33.00	186	136.00	5788	236.00	3089	336.00	371
35.00	33	137.00	6176	237.00	3970	337.00	147
36.00	150	138.00	1619	238.00	518	339.00	385
37.00	1699	139.00	787	239.00	2478	340.00	185
38.00	6492	140.00	2201	240.00	1861	341.00	1966
39.00	32328	141.00	22232	241.00	3154	342.00	507
40.00	1704	142.00	7315	242.00	7237	343.00	55
41.00	621	143.00	4501	243.00	7965	345.00	51
42.00	243	144.00	1471	244.00	83600	345.00	121
43.00	255	145.00	1108	245.00	11704	346.00	3641
44.00	205	146.00	4225	246.00	20168	347.00	693
45.00	609	147.00	11970	247.00	4091	348.00	196
46.00	59	148.00	34400	248.00	1093	349.00	69
47.00	320	149.00	5410	249.00	2760	350.00	370
48.00	285	150.00	1339	250.00	153	351.00	451
50.00	120880	151.00	2621	251.00	967	352.00	5429
51.00	409920	152.00	1811	252.00	1565	353.00	3787
52.00	21136	153.00	6908	253.00	3305	354.00	4606
53.00	810	154.00	5156	255.00	401536	355.00	1129
54.00	75	155.00	12009	256.00	62472	356.00	63
55.00	1739	156.00	17248	257.00	5252	357.00	224
56.00	11416	157.00	3264	258.00	33552	358.00	133
57.00	24560	158.00	3919	259.00	5064	359.00	313
58.00	1007	159.00	3345	260.00	1081	361.00	337
59.00	534	160.00	6628	261.00	677	361.00	75
60.00	215	161.00	9685	262.00	252	362.00	258
61.00	4227	162.00	2841	264.00	706	363.00	426
62.00	5128	163.00	881	264.00	184	365.00	31136
63.00	13981	164.00	756	265.00	12806	366.00	4322
64.00	2101	165.00	8787	266.00	2171	367.00	335
65.00	6397	166.00	6900	267.00	395	368.00	52

Report Date: 29-Oct-2024 16:16:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 29-Oct-2024 11:16:30
Spectrum: Tune Spec :Average 1196-1198(10.08-10.09) Bgrd 1188(10.03)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
66.00	502	167.00	52752	268.00	142	369.00	70
67.00	348	168.00	24528	269.00	62	370.00	625
69.00	373056	169.00	4451	270.00	985	371.00	1292
70.00	1837	170.00	1373	271.00	1113	372.00	8536
71.00	506	171.00	1764	272.00	1446	373.00	1861
72.00	469	172.00	4400	273.00	14050	374.00	65
73.00	3578	173.00	6150	274.00	34016	377.00	102
74.00	42704	174.00	8848	275.00	162560	383.00	2033
75.00	59088	175.00	17392	276.00	20152	384.00	717
76.00	23624	176.00	4131	277.00	19896	385.00	290
77.00	401280	177.00	7843	278.00	3217	390.00	1102
78.00	27264	178.00	3650	279.00	790	391.00	840
79.00	27296	179.00	34088	280.00	67	392.00	672
80.00	21656	180.00	20784	281.00	541	393.00	109
81.00	29664	181.00	9617	282.00	463	395.00	66
82.00	7205	182.00	1865	283.00	1985	395.00	175
83.00	5760	183.00	1070	284.00	1465	399.00	110
84.00	654	184.00	2835	285.00	2757	400.00	57
85.00	3792	185.00	17176	286.00	544	400.00	55
86.00	8892	186.00	105496	288.00	421	401.00	518
87.00	3488	187.00	31768	289.00	989	402.00	3242
88.00	1619	188.00	3089	290.00	632	403.00	3874
89.00	874	189.00	8481	291.00	449	404.00	1578
90.00	60	190.00	1427	292.00	945	405.00	236
91.00	5695	191.00	3646	293.00	3704	407.00	62
92.00	7782	192.00	10934	294.00	1420	408.00	97
93.00	55408	193.00	12121	295.00	379	409.00	65
94.00	3154	194.00	2599	296.00	66688	410.00	282
95.00	637	195.00	1421	297.00	9983	411.00	88
96.00	1844	196.00	22048	298.00	849	412.00	51
97.00	330	198.00	579840	299.00	138	413.00	70
98.00	44272	199.00	40848	300.00	124	415.00	341
99.00	28368	200.00	4263	301.00	721	416.00	170
100.00	2800	201.00	2393	302.00	1198	417.00	196

Report Date: 29-Oct-2024 16:16:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 29-Oct-2024 11:16:30
Spectrum: Tune Spec :Average 1196-1198(10.08-10.09) Bgrd 1188(10.03)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
101.00	15169	203.00	7055	303.00	6175	418.00	290
102.00	856	204.00	32760	304.00	1701	419.00	300
103.00	4743	205.00	53032	305.00	196	420.00	139
104.00	10683	206.00	189568	307.00	79	421.00	4397
105.00	10591	207.00	25240	308.00	896	422.00	3195
106.00	566	208.00	9553	309.00	563	423.00	23064
107.00	125648	209.00	3142	310.00	717	424.00	4647
108.00	17864	210.00	3172	311.00	95	425.00	721
110.00	186688	211.00	8803	312.00	250	427.00	512
111.00	31240	212.00	250	313.00	749	427.00	482
112.00	4388	213.00	794	314.00	2976	428.00	261
113.00	1196	214.00	294	315.00	7783	429.00	513
114.00	413	215.00	2690	316.00	3443	430.00	482
115.00	894	216.00	6349	317.00	967	431.00	292
117.00	151104	217.00	56816	318.00	113	432.00	458
118.00	9648	218.00	7772	319.00	309	433.00	816
119.00	1059	219.00	786	320.00	428	435.00	754
120.00	1538	221.00	26848	321.00	1737	435.00	512
121.00	576	222.00	8313	322.00	1002	436.00	1139
122.00	8993	223.00	15041	323.00	16340	437.00	1225
123.00	13362	224.00	112664	324.00	3165	438.00	1144
124.00	5914	225.00	28768	325.00	113	439.00	1377
125.00	5680	226.00	3167	326.00	359	441.00	72120
127.00	365248	227.00	57688	327.00	3801	442.00	444736
128.00	29472	228.00	8656	328.00	1825	443.00	88216
129.00	162368	229.00	10511	329.00	374	444.00	8373
130.00	13868	230.00	1456	330.00	176	445.00	176
131.00	2643	231.00	3335	331.00	249		
132.00	1518	232.00	906	332.00	1380		
133.00	43	233.00	949	333.00	1871		

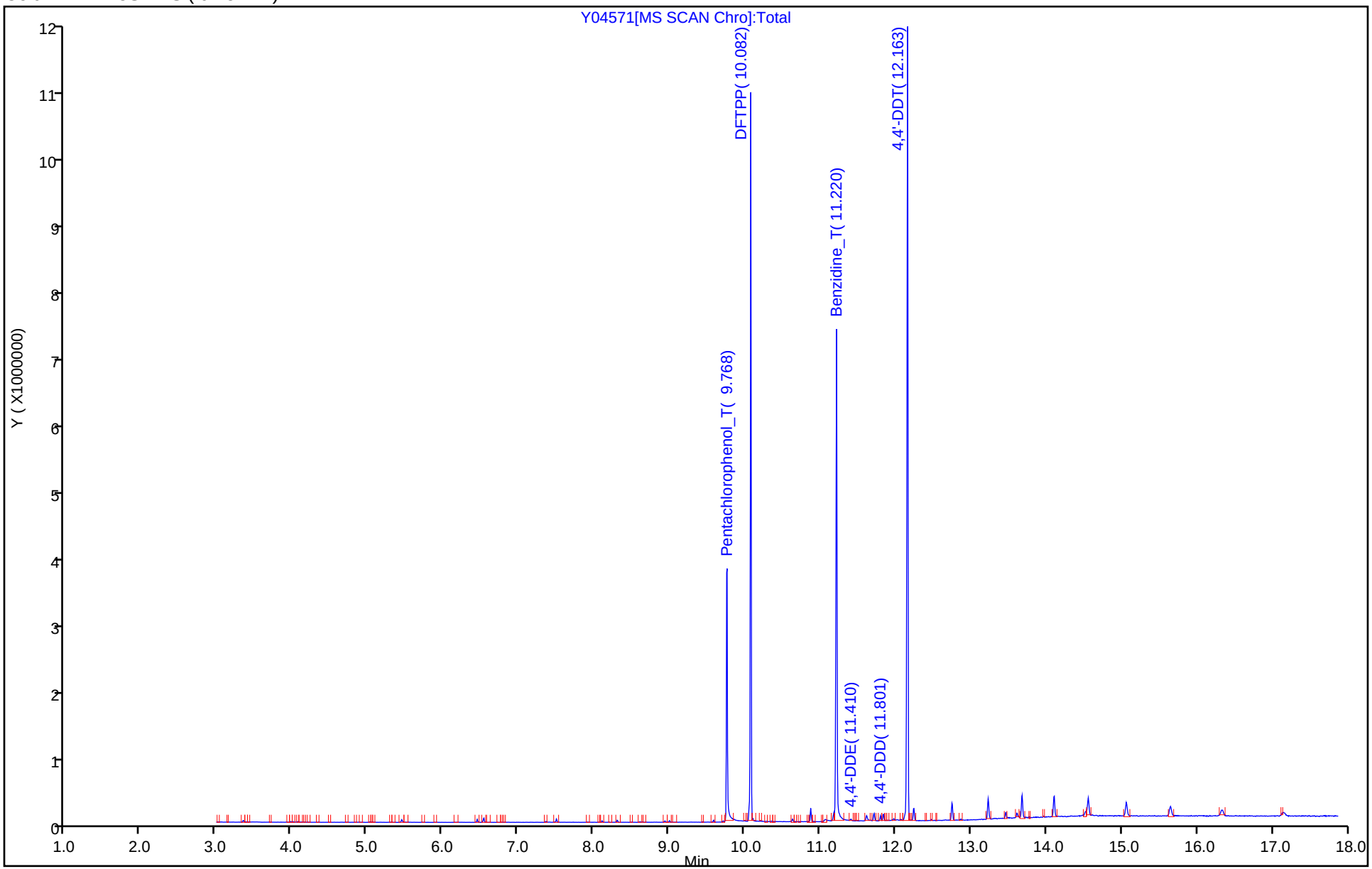
Report Date: 29-Oct-2024 16:16:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D

Injection Date:	29-Oct-2024 11:16:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Breakdown Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D
Injection Date: 29-Oct-2024 11:16:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

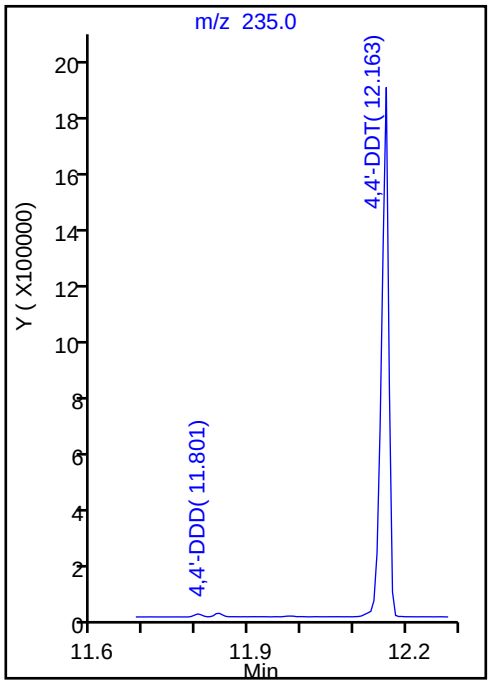
255 4,4'-DDT, Detector: MS SCAN

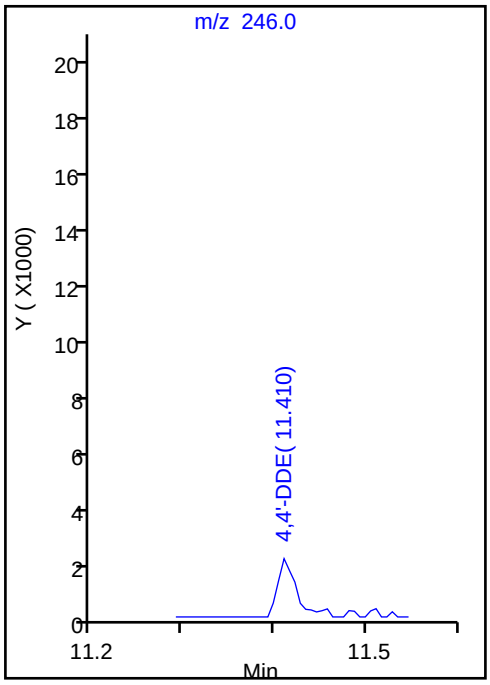
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

255 4,4'-DDT, Area = 1809612
254 4,4'-DDD, Area = 10946
253 4,4'-DDE, Area = 2812

%Breakdown: 0.75%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Buffalo

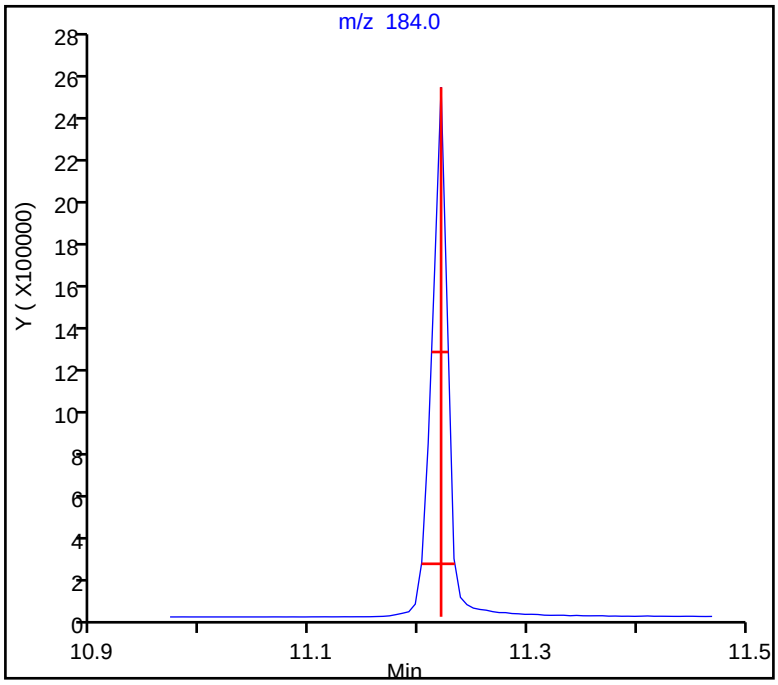
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D
Injection Date: 29-Oct-2024 11:16:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

252 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 0.72, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Buffalo

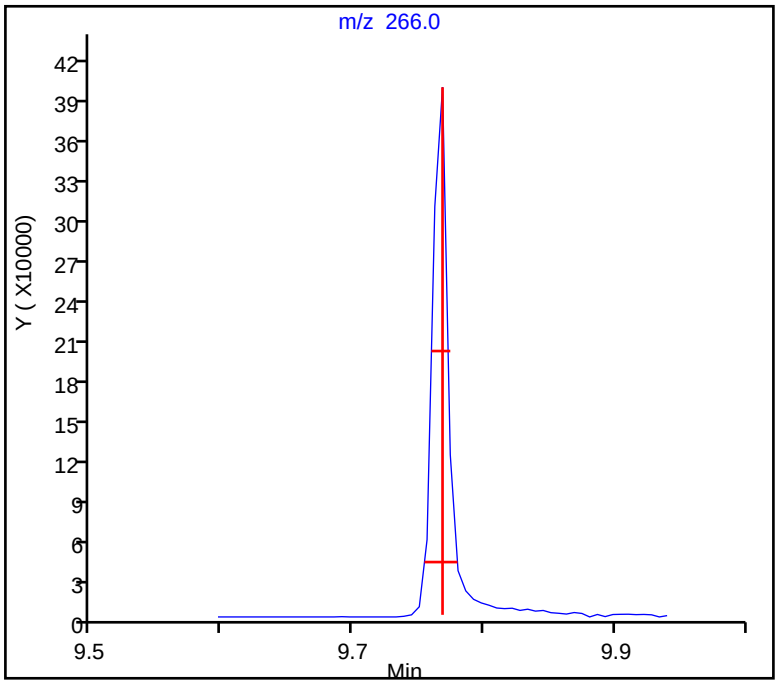
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04571.D
Injection Date: 29-Oct-2024 11:16:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

250 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.79, Max. Tailing <= 2.00
Passed



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 30-Oct-2024 09:51:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120914-002
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 16:06:30 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 10:10:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
250 Pentachlorophenol_T	266	9.765	9.765	0.000	87	323000	NR	NR	
251 DFTPP									
252 Benzidine_T	184	11.217	11.217	0.000	98	2361610	NR	NR	
253 4,4'-DDE	246	11.407	11.407	0.000	83	2417		NR	
254 4,4'-DDD	235	11.798	11.798	0.000	91	13083		NR	
255 4,4'-DDT	235	12.160	12.160	0.000	94	1547852	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

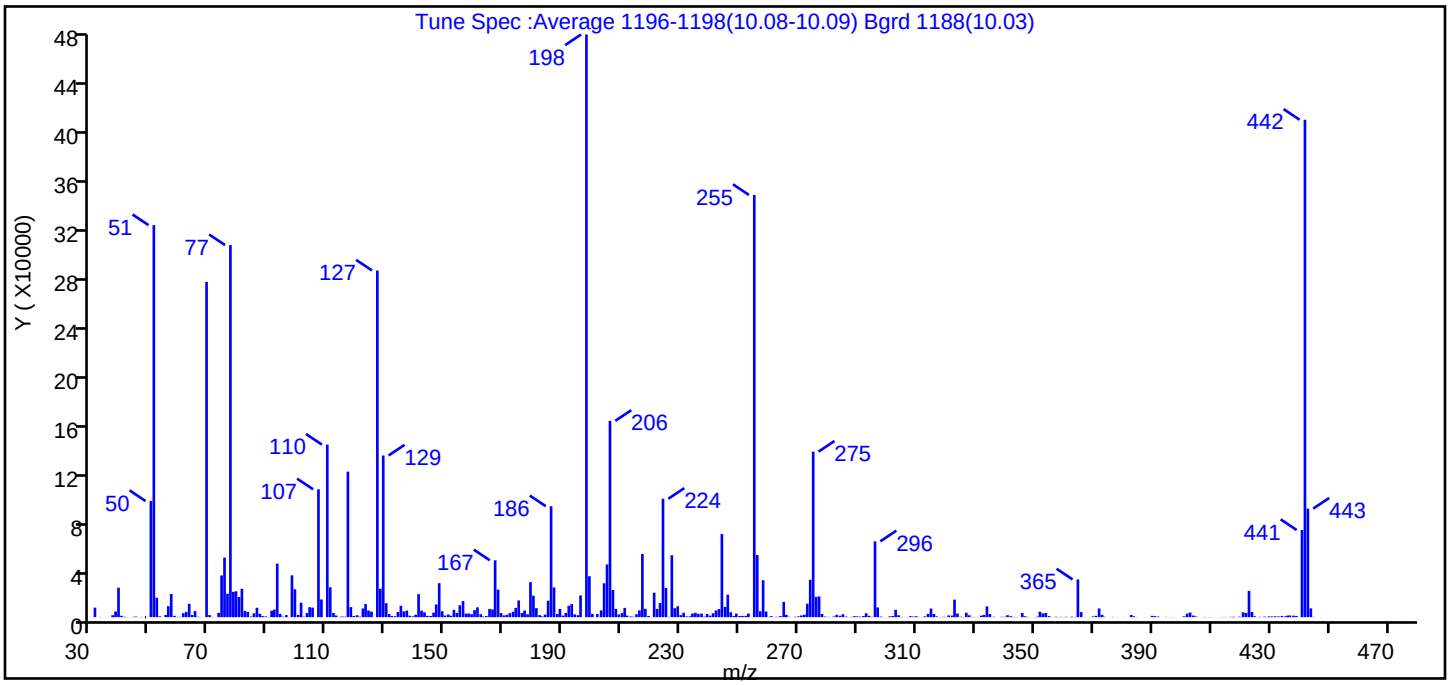
MB_DFTPP_WRK_00443 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D
Injection Date: 30-Oct-2024 09:51:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

251 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (117.2)
51	10-80% of the base peak	67.3
68	<2% of mass 69	0.0 (0.0)
69	Present	57.5
70	<2% of mass 69	0.4 (0.6)
127	10-80% of the base peak	59.5
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	28.4
365	>1% of mass 198	6.5
441	present but <24% of mass 442	15.0 (17.5)
442	base peak, or >50% of 198	85.4
443	15-24% of mass 442	18.6 (21.8)

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 30-Oct-2024 09:51:30
Spectrum: Tune Spec :Average 1196-1198(10.08-10.09) Bgrd 1188(10.03)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 378

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	7735	136.00	4718	234.00	2938	333.00	1775
33.00	163	137.00	5329	235.00	3507	334.00	8767
37.00	1577	138.00	1168	236.00	2712	335.00	2504
38.00	4595	139.00	652	237.00	2850	336.00	298
39.00	23952	140.00	1919	238.00	446	339.00	299
40.00	1127	141.00	18712	239.00	2577	340.00	362
41.00	309	142.00	5280	240.00	1209	341.00	1601
42.00	122	143.00	3926	241.00	3146	342.00	807
43.00	60	144.00	1058	242.00	5443	343.00	192
44.00	199	145.00	986	243.00	6606	344.00	146
45.00	496	146.00	3671	244.00	67624	346.00	3337
46.00	66	147.00	10310	245.00	8374	347.00	771
47.00	199	148.00	27648	246.00	18264	348.00	231
48.00	1	149.00	4829	247.00	3998	350.00	99
49.00	24	150.00	1331	248.00	882	351.00	433
50.00	94520	151.00	2140	249.00	2873	352.00	4445
51.00	319104	152.00	1140	250.00	899	353.00	3045
52.00	15768	153.00	5959	251.00	998	354.00	3395
53.00	625	154.00	3452	252.00	1069	355.00	822
55.00	1723	155.00	9648	253.00	2922	356.00	103
56.00	8928	156.00	13069	255.00	343680	357.00	277
57.00	18856	157.00	2852	256.00	50648	358.00	163
58.00	1027	158.00	2983	257.00	4772	359.00	247
59.00	211	159.00	2380	258.00	29984	360.00	143
60.00	235	160.00	5701	259.00	4578	361.00	260
61.00	3216	161.00	8014	260.00	250	362.00	112
62.00	4258	162.00	2366	261.00	763	363.00	377
63.00	10874	163.00	499	262.00	138	364.00	215
64.00	1735	164.00	978	263.00	268	365.00	30704
65.00	4937	165.00	6680	264.00	815	366.00	4055
66.00	307	166.00	6260	265.00	12428	367.00	181
67.00	159	167.00	46264	266.00	1852	369.00	53
69.00	272896	168.00	22384	267.00	255	370.00	529

Report Date: 30-Oct-2024 16:06:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 30-Oct-2024 09:51:30
Spectrum: Tune Spec :Average 1196-1198(10.08-10.09) Bgrd 1188(10.03)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 378

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	1704	169.00	3404	269.00	312	371.00	1027
71.00	207	170.00	1421	270.00	643	372.00	7071
73.00	3475	171.00	1900	271.00	1369	373.00	1885
74.00	33936	172.00	3280	272.00	1946	374.00	282
75.00	48480	173.00	4346	273.00	10958	377.00	185
76.00	19032	174.00	7541	274.00	30424	378.00	67
77.00	302848	175.00	13586	275.00	134720	380.00	85
78.00	20600	176.00	3373	276.00	16472	382.00	67
79.00	21072	177.00	5384	277.00	16856	383.00	1747
80.00	16358	178.00	2359	278.00	2575	384.00	688
81.00	23080	179.00	28488	279.00	438	385.00	154
82.00	5130	180.00	17456	280.00	208	390.00	1096
83.00	4356	181.00	7356	282.00	500	391.00	862
84.00	533	182.00	1625	283.00	1850	392.00	507
85.00	3106	183.00	630	284.00	1155	395.00	181
86.00	7647	184.00	2067	285.00	2342	396.00	64
87.00	2741	185.00	13392	286.00	483	397.00	145
88.00	899	186.00	90296	288.00	234	401.00	670
89.00	601	187.00	24192	289.00	771	402.00	2836
90.00	113	188.00	2529	290.00	588	403.00	3761
91.00	5206	189.00	6730	291.00	441	404.00	1321
92.00	6132	190.00	1197	292.00	941	405.00	484
93.00	43552	191.00	3377	293.00	3198	407.00	54
94.00	2597	192.00	9280	294.00	1106	408.00	186
95.00	394	193.00	10667	295.00	222	409.00	86
96.00	1682	194.00	2254	296.00	61704	410.00	104
97.00	75	195.00	1576	297.00	7873	411.00	56
98.00	34048	196.00	17704	298.00	483	413.00	73
99.00	22696	198.00	474304	299.00	88	414.00	145
100.00	1824	199.00	33312	300.00	64	415.00	179
101.00	11724	200.00	2691	301.00	632	417.00	221
102.00	370	202.00	2573	302.00	932	418.00	191
103.00	3313	203.00	5459	303.00	6002	418.00	239
104.00	8121	204.00	27552	304.00	1545	420.00	368

Report Date: 30-Oct-2024 16:06:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 30-Oct-2024 09:51:30
Spectrum: Tune Spec :Average 1196-1198(10.08-10.09) Bgrd 1188(10.03)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 378

m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	7747	205.00	42888	305.00	163	420.00	91
107.00	104032	206.00	159808	306.00	59	421.00	3928
108.00	14403	207.00	22128	307.00	126	422.00	3447
110.00	140416	208.00	6736	308.00	842	423.00	21416
111.00	24272	209.00	2141	309.00	481	424.00	4240
112.00	3440	210.00	3296	310.00	741	425.00	727
113.00	1327	211.00	7566	311.00	168	426.00	154
114.00	195	212.00	1291	312.00	135	427.00	236
115.00	506	213.00	524	313.00	616	428.00	437
116.00	348	214.00	354	314.00	2661	430.00	569
117.00	118416	215.00	2362	315.00	6990	430.00	193
118.00	8142	216.00	5448	316.00	2614	431.00	581
119.00	968	217.00	51480	317.00	604	432.00	672
120.00	1528	218.00	6778	318.00	94	433.00	592
121.00	393	219.00	954	319.00	229	434.00	979
122.00	7056	221.00	19912	320.00	207	435.00	776
123.00	10638	222.00	6658	321.00	1391	436.00	1281
124.00	5391	223.00	11463	322.00	1276	437.00	1306
125.00	4479	224.00	96360	323.00	14237	438.00	1205
127.00	282176	225.00	23768	324.00	2950	439.00	994
128.00	23080	226.00	247	325.00	323	441.00	70928
129.00	131584	227.00	50400	326.00	126	442.00	404864
130.00	11378	228.00	7272	327.00	3564	443.00	88352
131.00	2456	229.00	8856	328.00	1520	444.00	7129
132.00	917	230.00	1595	329.00	239	445.00	203
133.00	757	231.00	3648	330.00	185	475.00	51
134.00	4231	232.00	604	331.00	73		
135.00	9228	233.00	654	332.00	1222		

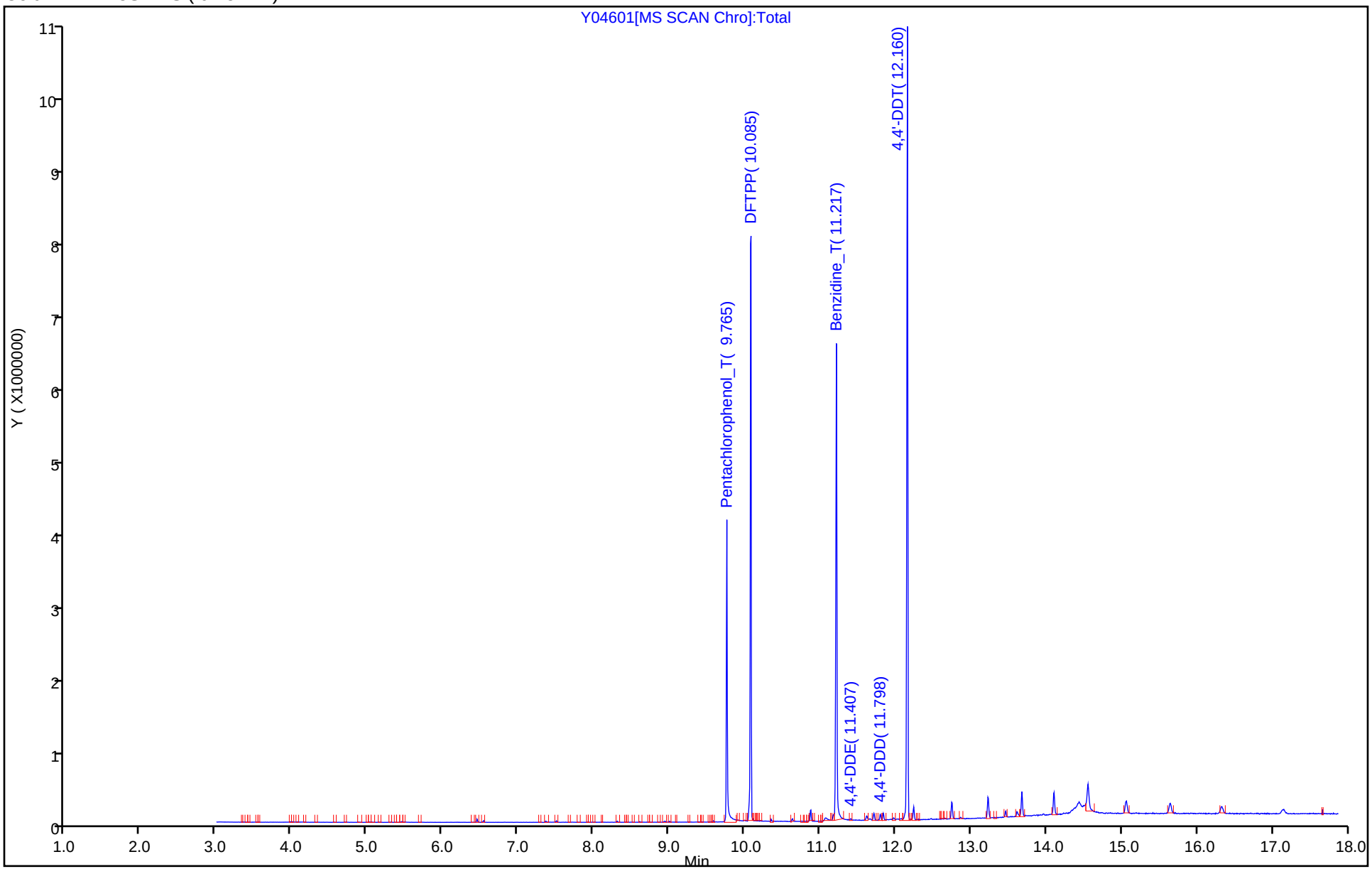
Report Date: 30-Oct-2024 16:06:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D

Injection Date:	30-Oct-2024 09:51:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Breakdown Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D
Injection Date: 30-Oct-2024 09:51:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

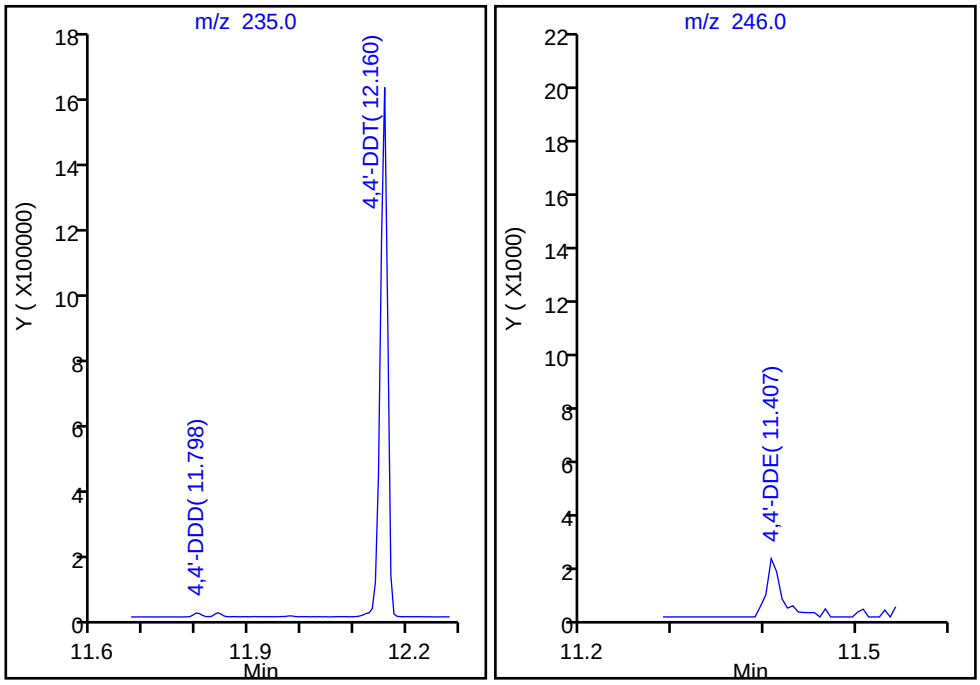
255 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

255 4,4'-DDT, Area = 1547852
254 4,4'-DDD, Area = 13083
253 4,4'-DDE, Area = 2417

%Breakdown: 0.99%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Buffalo

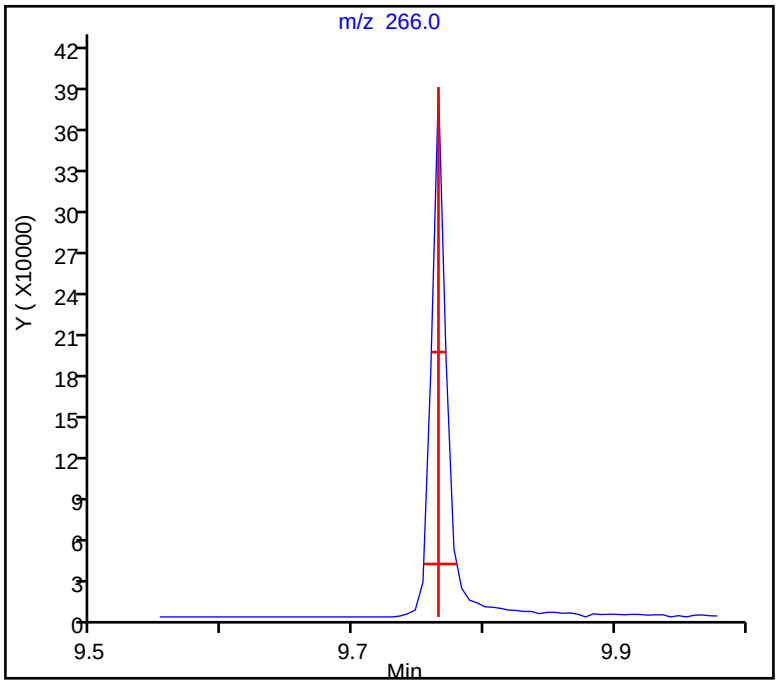
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D
Injection Date: 30-Oct-2024 09:51:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

250 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.27, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Buffalo

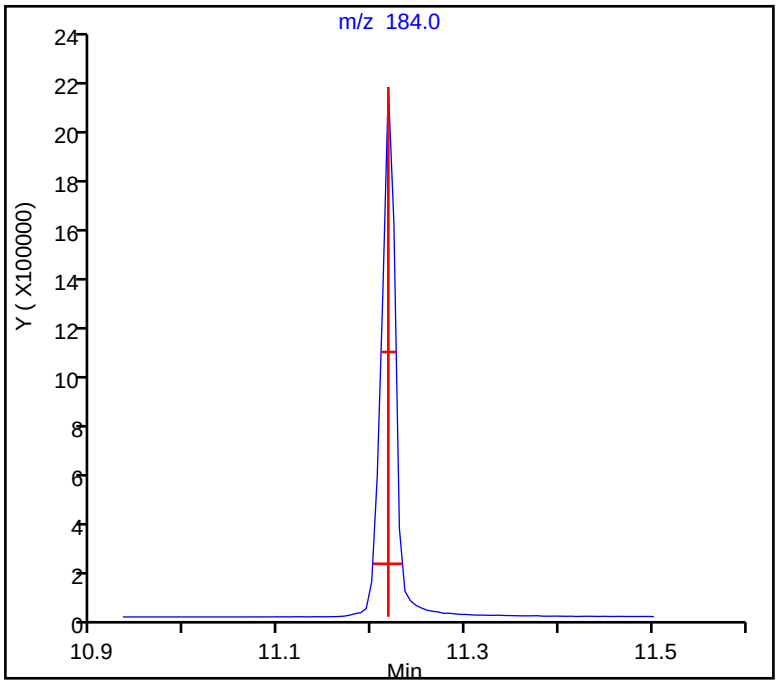
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D
Injection Date: 30-Oct-2024 09:51:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

252 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 0.88, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730138/1-A

Matrix: Water | Lab File ID: Y04575.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 13:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730138/1-A

Matrix: Water | Lab File ID: Y04575.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 13:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	ND		5.0	0.36
50-32-8	Benzo(a)pyrene	ND		5.0	0.47
205-99-2	Benzo(b)fluoranthene	ND		5.0	0.34
191-24-2	Benzo(g,h,i)perylene	ND		5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730138/1-A

Matrix: Water | Lab File ID: Y04575.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 13:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	71		25-144
321-60-8	2-Fluorobiphenyl	70		53-126
367-12-4	2-Fluorophenol	56		24-120
4165-60-0	Nitrobenzene-d5	83		29-129
1718-51-0	p-Terphenyl-d14	91		33-132
4165-62-2	Phenol-d5	43		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04575.D
Lims ID: MB 480-730138/1-A
Client ID:
Sample Type: MB
Inject. Date: 29-Oct-2024 13:06:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-006
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 14:50:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.886	5.886	0.000	96	174744	4.00	4.00	
* 2 Naphthalene-d8	136	7.089	7.089	0.000	99	654428	4.00	4.00	
* 3 Acenaphthene-d10	164	8.648	8.648	0.000	94	374380	4.00	4.00	
* 4 Phenanthrene-d10	188	9.923	9.929	-0.006	97	601911	4.00	4.00	
* 5 Chrysene-d12	240	12.774	12.774	0.000	99	508252	4.00	4.00	
* 6 Perylene-d12	264	14.463	14.463	0.000	96	581726	4.00	4.00	
$ 7 2-Fluorophenol	112	4.671	4.644	0.030	93	241408	8.00	4.48	
$ 8 Phenol-d5	99	5.530	5.527	0.006	88	227594	8.00	3.42	
$ 9 Nitrobenzene-d5	82	6.413	6.410	-0.001	96	418978	8.00	6.66	
$ 10 2-Fluorobiphenyl	172	8.038	8.040	0.000	99	724954	8.00	5.63	
$ 11 2,4,6-Tribromophenol	330	9.330	9.327	0.000	84	84110	8.00	5.66	
$ 12 p-Terphenyl-d14	244	11.482	11.484	0.000	97	1005387	8.00	7.30	
237 Lidocaine	1		0.195					ND	
13 1,4-Dioxane	88		3.147					ND	
14 N-Nitrosodimethylamine	42		3.473					ND	
15 Pyridine	52	3.633	3.633	0.130	83	1314		0.2289	a
19 2-Picoline	93		4.143					ND	
20 N-Nitrosomethylethylamine	88		4.226					ND	
18 1-Methylcyclopentanol	71		4.314					ND	
22 Methyl methanesulfonate	80		4.481					ND	
24 Acrylamide	71		4.487					ND	
21 2-Chlorobenzotrifluoride	180		4.795					ND	
28 N-Nitrosodiethylamine	102		4.849					ND	
23 4-Chlorobenzotrifluoride	180		4.860					ND	
25 n,n'-Dimethylacetamide	87		4.937					ND	
26 4-Chloropyridine	78		5.040					ND	
27 3-Chloropyridine	78		5.117					ND	
30 Ethyl methanesulfonate	79		5.127					ND	
29 3-Chlorobenzotrifluoride	180		5.299					ND	
35 Benzaldehyde	77		5.471					ND	
196 CBF-400	214		5.530					ND	
37 Phenol	94		5.536					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
31 2-Chloropyridine	78		5.544					ND	
36 Aniline	93		5.572					ND	
39 Bis(2-chloroethyl)ether	93		5.607					ND	
38 Pentachloroethane	167		5.619					ND	
41 n-Decane	57		5.690					ND	
40 2-Chlorophenol	128		5.696					ND	
43 1,3-Dichlorobenzene	146		5.839					ND	
32 2-Chlorotoluene	91		5.880					ND	
33 3-Chlorotoluene	91		5.903					ND	
44 1,4-Dichlorobenzene	146		5.904					ND	
257 CBF-500	161		5.944					ND	
34 4-Chlorotoluene	91		5.945					ND	
45 Benzyl alcohol	108		6.011					ND	
46 1,2-Dichlorobenzene	146		6.058					ND	
48 2-Methylphenol	108		6.111					ND	
49 2,2'-oxybis[1-chloropropane]	45		6.117					ND	
47 Indene	115		6.141					ND	
42 p-Fluoroaniline	111		6.208					ND	
50 N-Nitrosopyrrolidine	100		6.242					ND	
53 N-Nitrosodi-n-propylamine	70		6.248					ND	
57 4-Methylphenol	108		6.254					ND	
52 Acetophenone	105	6.265	6.268	0.000	87	2373		0.0319	
54 N-Nitrosomorpholine	56		6.265					ND	
56 2-Toluidine	106		6.301					ND	
55 4-Methylbenzenamine	106		6.304					ND	
58 Hexachloroethane	117		6.378					ND	
59 Nitrobenzene	77		6.431					ND	
61 N-Nitrosopiperidine	114		6.568					ND	
62 Isophorone	82		6.645					ND	
63 2-Chloroaniline	127		6.695					ND	
64 2-Nitrophenol	139		6.734					ND	
66 2,4-Dimethylphenol	107		6.751					ND	
68 o,o',o''-Triethylphosphorothioat	198		6.787					ND	
67 Tetraethyl lead	237		6.790					ND	
69 Bis(2-chloroethoxy)methane	93		6.823					ND	
70 Benzoic acid	105		6.882					ND	
51 N-Methylaniline	106		6.935					ND	
71 alpha,alpha-Dimethyl phenethylam	58		6.953					ND	
72 2,4-Dichlorophenol	162		6.959					ND	
73 1,2,4-Trichlorobenzene	180		7.030					ND	
75 Alpha-Terpineol	59		7.086					ND	
74 Naphthalene	128		7.107					ND	
60 2,6-Dichloropyridine	112		7.121					ND	
76 4-Chloroaniline	127		7.149					ND	
77 2,6-Dichlorophenol	162		7.161					ND	
78 Hexachloropropene	213		7.184					ND	
79 Hexachlorobutadiene	225		7.208					ND	
81 Quinoline	129		7.410					ND	
287 1,3,5-Trichlorobenzene	180		7.416					ND	
82 N-Nitrosodi-n-butylamine	84		7.427					ND	
282 2,4-Dichlorotoluene	125		7.436					ND	
84 Caprolactam	113	7.439	7.462	-0.024	69	6228		0.4225	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
83 p-Phenylene diamine	108		7.463					ND	
65 Benzeneacetonitrile	117		7.498					ND	
85 4-Chloro-3-methylphenol	107		7.581					ND	
86 Safrole, Total	162		7.629					ND	
286 4-Chlorophenol	128		7.691					ND	
87 2-Methylnaphthalene	142		7.730					ND	
88 Phthalic anhydride	104		7.780					ND	
89 1-Methylnaphthalene	142		7.818					ND	
90 Hexachlorocyclopentadiene	237		7.866					ND	
91 1,2,4,5-Tetrachlorobenzene	216		7.884					ND	
275 Isosafrole Peak 1	162		7.890					ND	
93 2,4,6-Trichlorophenol	196		7.979					ND	
284 2,3-Dichlorobenzenamine	161	8.038	7.984	0.057	37	149			NC
94 2,4,5-Trichlorophenol	196		8.026					ND	
95 Isosafrole	162		8.091					ND	
277 Isosafrole Peak 2	162		8.091					ND	
258 CU-600	58	8.073	8.105	-0.030	0	306		0.001870	
96 1,1'-Biphenyl	154		8.133					ND	
97 2-Chloronaphthalene	162		8.162					ND	
281 2,4,5-Trichlorotoluene	159		8.171					ND	
80 Benzeneacetic acid (TIC)	91		8.174					ND	
99 1-Chloronaphthalene	162		8.186					ND	
100 2-Nitroaniline	65		8.245					ND	
198 NVF-400	82		8.313					ND	
103 Dicyclohexylamine	138		8.313					ND	
102 1,4-Naphthoquinone	158		8.316					ND	
104 1,4-Dinitrobenzene	168		8.352					ND	
105 Dimethyl phthalate	163		8.370					ND	
106 1,3-Dinitrobenzene	168		8.429					ND	
107 2,6-Dinitrotoluene	165		8.441					ND	
108 Acenaphthylene	152		8.530					ND	
109 3-Nitroaniline	138		8.601					ND	
110 Acenaphthene	153		8.678					ND	
111 2,4-Dinitrophenol	184		8.696					ND	
285 1,2,3,4 -Tetrachlorobenzene	216		8.733					ND	
112 4-Nitrophenol	109		8.749					ND	
114 2,4-Dinitrotoluene	165		8.797					ND	
113 Pentachlorobenzene	250		8.797					ND	
115 Dibenzofuran	168		8.826					ND	
116 1-Naphthylamine	143		8.891					ND	
117 2,3,5,6-Tetrachlorophenol	232		8.897					ND	
118 2,3,4,6-Tetrachlorophenol	232		8.933					ND	
121 Hexadecane	57		8.951					ND	U
119 2-Naphthylamine	143		8.957					ND	
120 Diethyl phthalate	149		8.968					ND	
122 Thionazin	97		9.040					ND	
123 4-Chlorophenyl phenyl ether	204		9.093					ND	
125 N-Nitro-o-toluidine	152		9.117					ND	
128 Tributyl phosphate	99		9.120					ND	
124 Fluorene	166		9.123					ND	
126 4-Nitroaniline	138		9.129					ND	
127 4,6-Dinitro-2-methylphenol	198		9.158					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
130 N-Nitrosodiphenylamine	169		9.194					ND	
129 Diphenylamine	169		9.194					ND	
131 1,2-Diphenylhydrazine	77		9.229					ND	
132 Azobenzene	77		9.229					ND	
134 Sulfotepp	322		9.289					ND	
278 Diallate Peak 1	86		9.419					ND	
136 Diallate	86		9.419					ND	
137 Phorate	75		9.425					ND	
135 1,3,5-Trinitrobenzene	213		9.431					ND	
138 Phenacetin	108		9.437					ND	
280 Diallate Peak 2	86		9.502					ND	
139 4-Bromophenyl phenyl ether	248		9.514					ND	
141 Dimethoate	87		9.585					ND	
142 Simazine	201		9.600					ND	
140 Hexachlorobenzene	284		9.603					ND	
143 Atrazine	200		9.621					ND	
148 n-Octadecane	57		9.727					ND	
144 4-Aminobiphenyl	169		9.739					ND	
147 Pronamide	173		9.757					ND	
145 Pentachlorophenol	266		9.769					ND	
146 Pentachloronitrobenzene	237		9.775					ND	
149 Disulfoton	88		9.870					ND	
150 Dinoseb	211		9.881					ND	
151 Phenanthrene	178		9.947					ND	
152 Anthracene	178		9.988					ND	
153 Carbazole	167		10.118					ND	
154 Alachlor	160		10.198					ND	
155 Methyl parathion	109		10.207					ND	
157 Di-n-butyl phthalate	149	10.355	10.352	-0.001	98	6793		0.0357	
241 5-Methyl-o-Anisidine	122		10.476					ND	
158 Ethyl Parathion	97		10.563					ND	
159 4-Nitroquinoline-1-oxide	190		10.658					ND	
161 Methapyrilene	58		10.676					ND	
160 Anthraquinone	180		10.684					ND	
288 2-Methylanthracene	192		10.846					ND	
162 Isodrin	193		10.937					ND	
164 Fluoranthene	202		11.108					ND	
165 1-Hydroxyanthraquinone	224		11.153					ND	
166 Benzidine	184		11.215					ND	
167 Pyrene	202		11.369					ND	
276 Aramite Peak 1	185		11.411					ND	
279 Aramite Peak 2	185		11.494					ND	
168 Aramite, Total	185		11.494					ND	
170 p-Dimethylamino azobenzene	120		11.642					ND	
171 Chlorobenzilate	251		11.672					ND	
169 1,4-Dihydroxyanthraquinone	240		11.680					ND	
172 Famphur	218		11.959					ND	
175 9-Octadecenamide	59		12.000					ND	
174 Butyl benzyl phthalate	149		12.009					ND	
173 3,3'-Dimethylbenzidine	212		12.033					ND	
176 Kepone	272		12.137					ND	
177 2-Acetylaminofluorene	181		12.353					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
181 Bis(2-ethylhexyl) phthalate	149		12.667					ND	
178 4,4'-Methylene bis(2-chloroanil	231		12.685					ND	
179 3,3'-Dichlorobenzidine	252		12.697					ND	
180 Benzo[a]anthracene	228		12.762					ND	
182 Chrysene	228		12.810					ND	
183 6-Methylchrysene	242		13.337					ND	
184 Di-n-octyl phthalate	149		13.420					ND	
185 7,12-Dimethylbenz(a)anthracene	256		13.977					ND	
186 Benzo[b]fluoranthene	252		14.007					ND	
187 Benzo[k]fluoranthene	252		14.037					ND	
192 Hexachlorophene	196		14.340					ND	
189 Benzo[a]pyrene	252		14.398					ND	
190 3-Methylcholanthrene	268		14.807					ND	
283 Benzo[e]pyrene	252	15.346	15.334	0.014	1	376			NC
191 Dibenz[a,h]acridine	279		15.560					ND	
194 Dibenz(a,h)anthracene	278		15.939					ND	
193 Indeno[1,2,3-cd]pyrene	276		15.945					ND	
195 Benzo[g,h,i]perylene	276		16.396					ND	
199 CAG-800	149		19.675					ND	
256 CN-500	112		19.994					ND	
197 Dibenzo[a,e]pyrene	302		20.118					ND	
295 4-Bromofluorobenzene TIC	1		0.000					ND	
301 3-Amino-4-Chlorobenzotrifluoride	1		0.000					ND	
303 Carbofuran	1		0.000					ND	
302 1-Bromo-2-chloroethane TIC	1		0.000					ND	
291 1,4-Dibromobenzene TIC	1		0.000					ND	
296 1,2-dichloro-4-(trifluoromethyl)	1		0.000					ND	
290 1,3-Dibromobenzene TIC	1		0.000					ND	
300 1-Bromo-4-ethylbenzene TIC	1		0.000					ND	
293 3-Nitro-4-Chlorobenzotrifluoride	1		0.000					ND	
297 Fluorobenzene TIC	1		0.000					ND	
294 3'-Bromoacetophenone TIC	1		0.000					ND	
298 2-Bromopyridine TIC	1		0.000					ND	
292 Ethylene Dibromide TIC	1		0.000					ND	
299 1-Bromo-3-fluorobenzene TIC	1		0.000					ND	
220 Tetramethyl lead TIC	1		0.195					ND	
201 7H-Dibenzo[c,g]carbazole	1		0.195					ND	
224 1-Bromopropane	1		0.195					ND	
227 Dibenz[a,j]acridine	279		0.195					ND	
212 Hexamethyldisiloxane TIC	1		0.195					ND	
204 2,6-Dichlorotoluene TIC	1		0.195					ND	
206 2,4-Toluene diamine	1		0.195					ND	
225 Dibenz(a,i)pyrene	1		0.195					ND	
211 Pendimethalin (TIC)	1		0.195					ND	
219 Photomirex TIC	1		0.195					ND	
218 3-Chlorobenzotrifluoride TIC	1		0.195					ND	
205 Phenylmercaptan	110		0.195					ND	
215 trans Azobenzene (TIC)	1		0.195					ND	
230 2,3-Dichlorophenol	1		0.195					ND	
222 2-Chlorobenzotrifluoride TIC	1		0.195					ND	
240 Prometryn (TIC)	1		0.195					ND	
210 Dibenzo[a,h]pyrene	1		0.195					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
244 Pendimethalin	1		0.195					ND	
233 4-Chlorobenzotrifluoride TIC	1		0.195					ND	
247 Benefin (TIC)	1		0.195					ND	
238 Phenylacetic Acid	1		0.195					ND	
254 4,4'-DDD	235		11.801					ND	
S 259 Chlorobenzotrifluoride N.O.S	1		0.195					ND	
S 263 3-Methylphenol	1		0.195					ND	
S 264 EPH Adjustment 1	1		0.195					ND	
S 260 Chlorotoluene N.O.S	1		0.195					ND	
S 262 3 & 4 Methylphenol	108		0.195					ND	
S 261 Total Cresols	1		0.195					ND	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

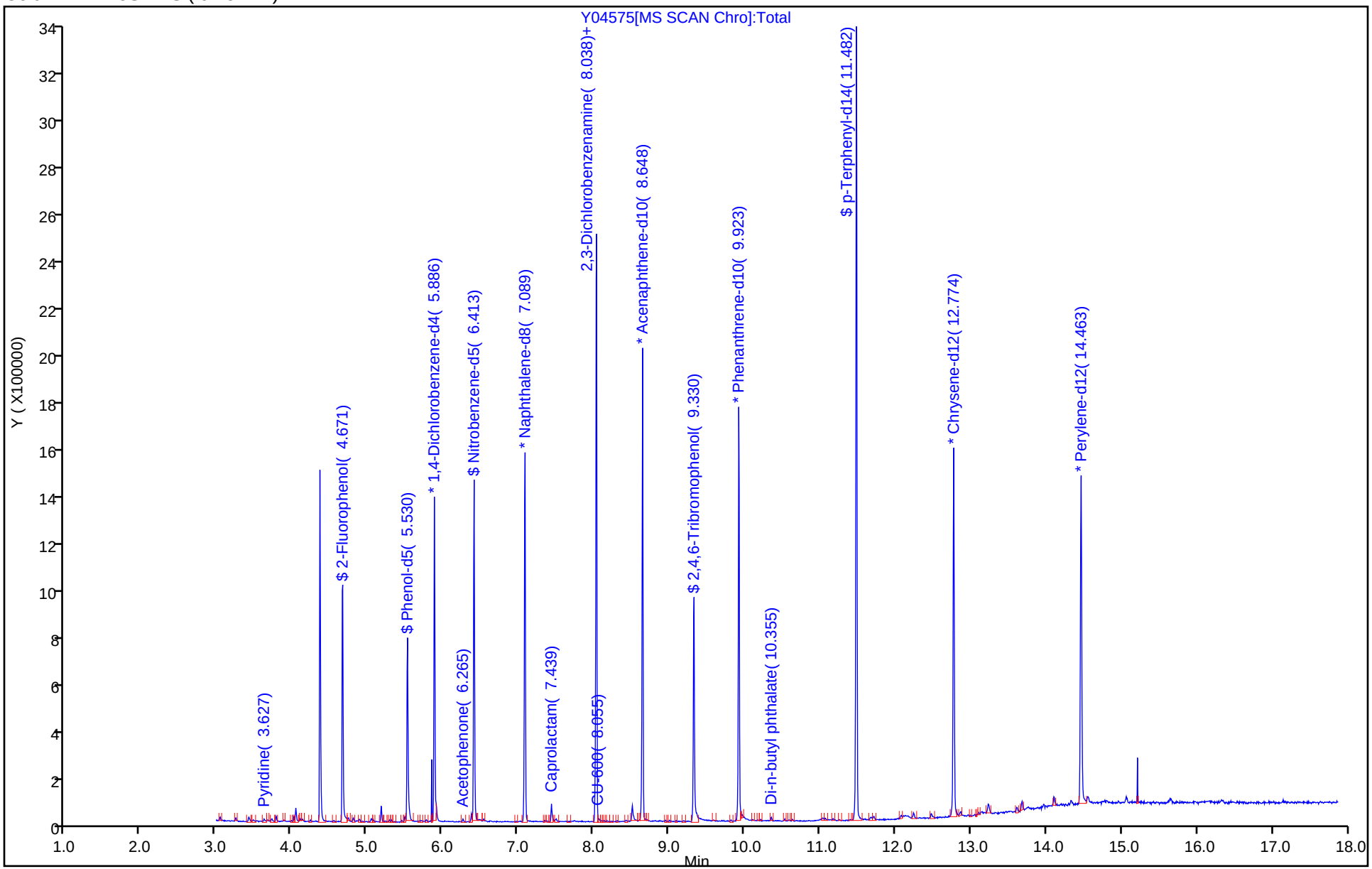
Report Date: 30-Oct-2024 15:16:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04575.D

Injection Date:	29-Oct-2024 13:06:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	MB 480-730138/1-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04575.D
Lims ID: MB 480-730138/1-A
Client ID:
Sample Type: MB
Inject. Date: 29-Oct-2024 13:06:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-006
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 14:50:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	4.48	56.05
$ 8 Phenol-d5	8.00	3.42	42.77
$ 9 Nitrobenzene-d5	8.00	6.66	83.24
$ 10 2-Fluorobiphenyl	8.00	5.63	70.42
$ 11 2,4,6-Tribromophenol	8.00	5.66	70.69
$ 12 p-Terphenyl-d14	8.00	7.30	91.21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730138/2-A

Matrix: Water | Lab File ID: Y04576.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 13:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	26.6		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	36.3		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	29.7		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	28.2		5.0	0.61
120-83-2	2,4-Dichlorophenol	27.0		5.0	0.51
105-67-9	2,4-Dimethylphenol	30.8		5.0	0.50
51-28-5	2,4-Dinitrophenol	63.2		10	2.2
121-14-2	2,4-Dinitrotoluene	31.9		5.0	0.45
606-20-2	2,6-Dinitrotoluene	30.3		5.0	0.40
91-58-7	2-Chloronaphthalene	26.5		5.0	0.46
95-57-8	2-Chlorophenol	26.5		5.0	0.53
91-57-6	2-Methylnaphthalene	25.4		5.0	0.60
95-48-7	2-Methylphenol	27.5		5.0	0.40
88-74-4	2-Nitroaniline	38.6		10	0.42
88-75-5	2-Nitrophenol	28.0		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	22.7		5.0	0.40
99-09-2	3-Nitroaniline	23.7		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	66.1		10	2.2
101-55-3	4-Bromophenyl phenyl ether	27.3		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	31.7		5.0	0.45
106-47-8	4-Chloroaniline	18.5		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	27.8		5.0	0.35
106-44-5	4-Methylphenol	28.1		10	0.36
100-01-6	4-Nitroaniline	29.5		10	0.25
100-02-7	4-Nitrophenol	81.5		10	1.5
83-32-9	Acenaphthene	29.0		5.0	0.41
208-96-8	Acenaphthylene	30.0		5.0	0.38
98-86-2	Acetophenone	30.9		5.0	0.54
120-12-7	Anthracene	32.4		5.0	0.28
1912-24-9	Atrazine	73.5		5.0	0.46
100-52-7	Benzaldehyde	63.8		5.0	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730138/2-A

Matrix: Water | Lab File ID: Y04576.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 13:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo(a)anthracene	31.8		5.0	0.36
50-32-8	Benzo(a)pyrene	31.1		5.0	0.47
205-99-2	Benzo(b)fluoranthene	30.9		5.0	0.34
191-24-2	Benzo(g,h,i)perylene	32.1		5.0	0.35
207-08-9	Benzo(k)fluoranthene	30.4		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	28.1		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	29.8		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	38.1		5.0	2.2
85-68-7	Butyl benzyl phthalate	37.8		5.0	1.0
105-60-2	Caprolactam	23.5		5.0	2.2
86-74-8	Carbazole	30.7		5.0	0.30
218-01-9	Chrysene	31.2		5.0	0.33
84-74-2	Di-n-butyl phthalate	36.7		5.0	0.31
117-84-0	Di-n-octyl phthalate	37.3		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	31.8		5.0	0.42
132-64-9	Dibenzofuran	28.8		10	0.51
84-66-2	Diethyl phthalate	36.1		5.0	0.22
131-11-3	Dimethyl phthalate	32.4		5.0	0.36
206-44-0	Fluoranthene	32.1		5.0	0.40
86-73-7	Fluorene	29.1		5.0	0.36
118-74-1	Hexachlorobenzene	28.1		5.0	0.51
87-68-3	Hexachlorobutadiene	19.7		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	10.1		5.0	0.59
67-72-1	Hexachloroethane	25.1		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	32.2		5.0	0.47
78-59-1	Isophorone	31.7		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	32.0		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	30.4		5.0	0.51
91-20-3	Naphthalene	25.2		5.0	0.76
98-95-3	Nitrobenzene	31.0		5.0	0.29
87-86-5	Pentachlorophenol	52.6		10	2.2

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730138/2-A

Matrix: Water | Lab File ID: Y04576.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/28/2024 14:16

Sample wt/vol: 250(mL) | Date Analyzed: 10/29/2024 13:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: RXI-5Sil MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 730212 | Units: ug/L

Preparation Batch No.: 730138 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
85-01-8	Phenanthrene	31.8		5.0	0.44
108-95-2	Phenol	18.1		5.0	0.39
129-00-0	Pyrene	33.4		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	89		25-144
321-60-8	2-Fluorobiphenyl	85		53-126
367-12-4	2-Fluorophenol	67		24-120
4165-60-0	Nitrobenzene-d5	91		29-129
1718-51-0	p-Terphenyl-d14	93		33-132
4165-62-2	Phenol-d5	53		10-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04576.D
Lims ID: LCS 480-730138/2-A
Client ID:
Sample Type: LCS
Inject. Date: 29-Oct-2024 13:33:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-007
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 07:58:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.888	5.886	0.002	96	174253	4.00	4.00	
* 2 Naphthalene-d8	136	7.085	7.089	-0.004	99	656574	4.00	4.00	
* 3 Acenaphthene-d10	164	8.650	8.648	0.002	94	379955	4.00	4.00	
* 4 Phenanthrene-d10	188	9.925	9.929	-0.004	97	643789	4.00	4.00	
* 5 Chrysene-d12	240	12.776	12.774	0.002	99	555925	4.00	4.00	
* 6 Perylene-d12	264	14.465	14.463	0.002	97	607785	4.00	4.00	
$ 7 2-Fluorophenol	112	4.679	4.644	0.038	92	287224	8.00	5.35	
$ 8 Phenol-d5	99	5.532	5.527	0.008	90	281164	8.00	4.24	
$ 9 Nitrobenzene-d5	82	6.416	6.410	0.002	97	459822	8.00	7.28	
$ 10 2-Fluorobiphenyl	172	8.034	8.040	-0.004	99	891571	8.00	6.83	
$ 11 2,4,6-Tribromophenol	330	9.332	9.327	0.002	82	113676	8.00	7.10	
$ 12 p-Terphenyl-d14	244	11.484	11.484	0.002	97	1121730	8.00	7.44	
13 1,4-Dioxane	88	3.262	3.147	0.115	94	92182	8.00	4.28	a
14 N-Nitrosodimethylamine	42	3.546	3.546	0.073	76	240209	8.00	8.76	a
15 Pyridine	52	3.588	3.633	0.085	78	349585	16.0	11.4	a
35 Benzaldehyde	77	5.473	5.473	0.002	88	655090	16.0	16.0	
37 Phenol	94	5.544	5.538	0.008	94	305481	8.00	4.53	
36 Aniline	93	5.574	5.572	0.002	95	415357	8.00	5.05	
39 Bis(2-chloroethyl)ether	93	5.603	5.607	-0.004	87	410427	8.00	7.44	
41 n-Decane	57	5.692	5.693	0.002	95	333660	8.00	5.14	
40 2-Chlorophenol	128	5.704	5.696	0.008	95	371323	8.00	6.62	
43 1,3-Dichlorobenzene	146	5.841	5.841	0.002	94	370973	8.00	5.57	
44 1,4-Dichlorobenzene	146	5.906	5.906	0.002	89	387484	8.00	5.68	
45 Benzyl alcohol	108	6.012	6.013	0.001	86	237028	8.00	6.52	
46 1,2-Dichlorobenzene	146	6.054	6.058	-0.004	92	379268	8.00	5.93	
48 2-Methylphenol	108	6.113	6.111	0.002	92	351467	8.00	6.87	
49 2,2'-oxybis[1-chloropropane]	45	6.119	6.118	0.002	89	773568	8.00	9.09	
47 Indene	115	6.143	6.143	0.002	88	5333241	64.0	54.7	
53 N-Nitrosodi-n-propylamine	70	6.250	6.247	0.002	94	307440	8.00	8.00	
57 4-Methylphenol	108	6.255	6.314	0.001	95	373090	8.00	7.02	
52 Acetophenone	105	6.261	6.268	-0.004	82	572723	8.00	7.73	
58 Hexachloroethane	117	6.374	6.378	-0.004	92	162870	8.00	6.28	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Nitrobenzene	77	6.433	6.428	0.002	95	473246	8.00	7.75	
62 Isophorone	82	6.647	6.641	0.002	96	857850	8.00	7.92	
64 2-Nitrophenol	139	6.730	6.734	-0.004	94	216756	8.00	7.01	
66 2,4-Dimethylphenol	107	6.753	6.751	0.002	96	440997	8.00	7.71	
69 Bis(2-chloroethoxy)methane	93	6.819	6.823	-0.004	93	465051	8.00	7.03	
70 Benzoic acid	105	6.908	6.878	0.026	92	1153205	64.0	42.6	
72 2,4-Dichlorophenol	162	6.961	6.959	0.002	95	335164	8.00	6.75	
73 1,2,4-Trichlorobenzene	180	7.032	7.030	0.002	92	312750	8.00	5.62	
74 Naphthalene	128	7.109	7.113	0.002	98	1093847	8.00	6.31	
76 4-Chloroaniline	127	7.151	7.145	0.002	94	306116	8.00	4.62	
77 2,6-Dichlorophenol	162	7.162	7.160	0.002	92	334594	8.00	6.88	
79 Hexachlorobutadiene	225	7.204	7.208	-0.004	92	158900	8.00	4.92	
84 Caprolactam	113	7.471	7.462	0.008	69	104407	16.0	5.86	
85 4-Chloro-3-methylphenol	107	7.583	7.581	0.002	94	374757	8.00	7.93	
87 2-Methylnaphthalene	142	7.726	7.726	-0.004	91	680678	8.00	6.36	
89 1-Methylnaphthalene	142	7.820	7.818	0.002	91	703353	8.00	6.47	
90 Hexachlorocyclopentadiene	237	7.868	7.866	0.002	95	53569	8.00	2.51	
91 1,2,4,5-Tetrachlorobenzene	216	7.880	7.883	-0.004	97	309607	8.00	5.51	
93 2,4,6-Trichlorophenol	196	7.980	7.978	0.001	95	245469	8.00	7.06	
94 2,4,5-Trichlorophenol	196	8.022	8.026	-0.004	92	273511	8.00	7.43	
96 1,1'-Biphenyl	154	8.129	8.132	-0.004	97	925951	8.00	6.64	
97 2-Chloronaphthalene	162	8.164	8.162	0.002	97	736841	8.00	6.61	
100 2-Nitroaniline	65	8.247	8.245	0.002	77	302914	8.00	9.66	
105 Dimethyl phthalate	163	8.378	8.372	0.008	97	976899	8.00	8.10	
106 1,3-Dinitrobenzene	168	8.431	8.429	0.002	80	145194	8.00	7.70	
107 2,6-Dinitrotoluene	165	8.443	8.440	0.002	82	212822	8.00	7.57	
108 Acenaphthylene	152	8.532	8.532	0.002	98	1261398	8.00	7.50	
109 3-Nitroaniline	138	8.603	8.602	0.002	88	170228	8.00	5.93	
110 Acenaphthene	153	8.680	8.675	0.002	96	817258	8.00	7.25	
111 2,4-Dinitrophenol	184	8.698	8.699	0.002	79	188676	16.0	15.8	
112 4-Nitrophenol	109	8.751	8.748	0.002	96	248816	16.0	20.4	
114 2,4-Dinitrotoluene	165	8.798	8.796	0.001	86	288630	8.00	7.97	
115 Dibenzofuran	168	8.828	8.829	0.002	95	1098604	8.00	7.21	
118 2,3,4,6-Tetrachlorophenol	232	8.935	8.933	0.002	79	196698	8.00	7.58	
121 Hexadecane	57	8.953	8.953	0.002	88	605329	8.00	8.00	
120 Diethyl phthalate	149	8.970	8.968	0.002	96	1075444	8.00	9.02	
123 4-Chlorophenyl phenyl ether	204	9.095	9.092	0.002	96	418861	8.00	6.96	
124 Fluorene	166	9.119	9.125	-0.004	93	935428	8.00	7.28	
126 4-Nitroaniline	138	9.136	9.128	0.007	77	225066	8.00	7.37	
127 4,6-Dinitro-2-methylphenol	198	9.160	9.153	0.002	74	311432	16.0	16.5	
130 N-Nitrosodiphenylamine	169	9.196	9.188	0.002	67	677888	8.00	7.61	
129 Diphenylamine	169	9.196	9.188	0.002	91	677888	6.84	6.51	
131 1,2-Diphenylhydrazine	77	9.231	9.232	0.002	41	1178361	8.00	9.94	
132 Azobenzene	77	9.231	9.226	0.002	95	1178361	8.00	9.94	
139 4-Bromophenyl phenyl ether	248	9.510	9.508	-0.004	81	247700	8.00	6.82	
140 Hexachlorobenzene	284	9.605	9.597	0.002	91	275278	8.00	7.03	
143 Atrazine	200	9.628	9.620	0.008	89	569392	16.0	18.4	E
148 n-Octadecane	57	9.729	9.724	0.002	86	705149	8.00	8.97	
145 Pentachlorophenol	266	9.771	9.763	0.002	89	233342	16.0	13.1	
151 Phenanthrene	178	9.948	9.946	0.001	99	1414865	8.00	7.95	
152 Anthracene	178	9.990	10.001	0.002	99	1442275	8.00	8.10	
153 Carbazole	167	10.120	10.149	0.002	97	1215669	8.00	7.68	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
157 Di-n-butyl phthalate	149	10.357	10.352	0.001	99	1867828	8.00	9.18	
164 Fluoranthene	202	11.110	11.104	0.002	99	1515945	8.00	8.02	
166 Benzidine	184	11.211	11.215	-0.004	99	224243	8.00	2.10	
167 Pyrene	202	11.371	11.366	0.002	96	1556412	8.00	8.36	
174 Butyl benzyl phthalate	149	12.011	12.012	0.002	96	836399	8.00	9.45	
181 Bis(2-ethylhexyl) phthalate	149	12.669	12.670	0.002	95	1202134	8.00	9.51	
179 3,3'-Dichlorobenzidine	252	12.699	12.697	0.002	75	504098	8.00	5.68	
180 Benzo[a]anthracene	228	12.764	12.764	0.002	99	1511634	8.00	7.94	
182 Chrysene	228	12.812	12.809	0.002	97	1357452	8.00	7.80	
184 Di-n-octyl phthalate	149	13.422	13.423	0.002	98	1988243	8.00	9.32	
186 Benzo[b]fluoranthene	252	14.015	14.019	0.008	98	1500800	8.00	7.73	
187 Benzo[k]fluoranthene	252	14.045	14.037	0.007	99	1480982	8.00	7.60	
189 Benzo[a]pyrene	252	14.400	14.401	0.002	79	1346975	8.00	7.77	
194 Dibenz(a,h)anthracene	278	15.947	15.941	0.008	92	1366038	8.00	7.95	
193 Indeno[1,2,3-cd]pyrene	276	15.959	15.942	0.014	94	1712814	8.00	8.05	
195 Benzo[g,h,i]perylene	276	16.404	16.417	0.008	96	1341128	8.00	8.03	
S 263 3-Methylphenol	1				0		8.00	7.02	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

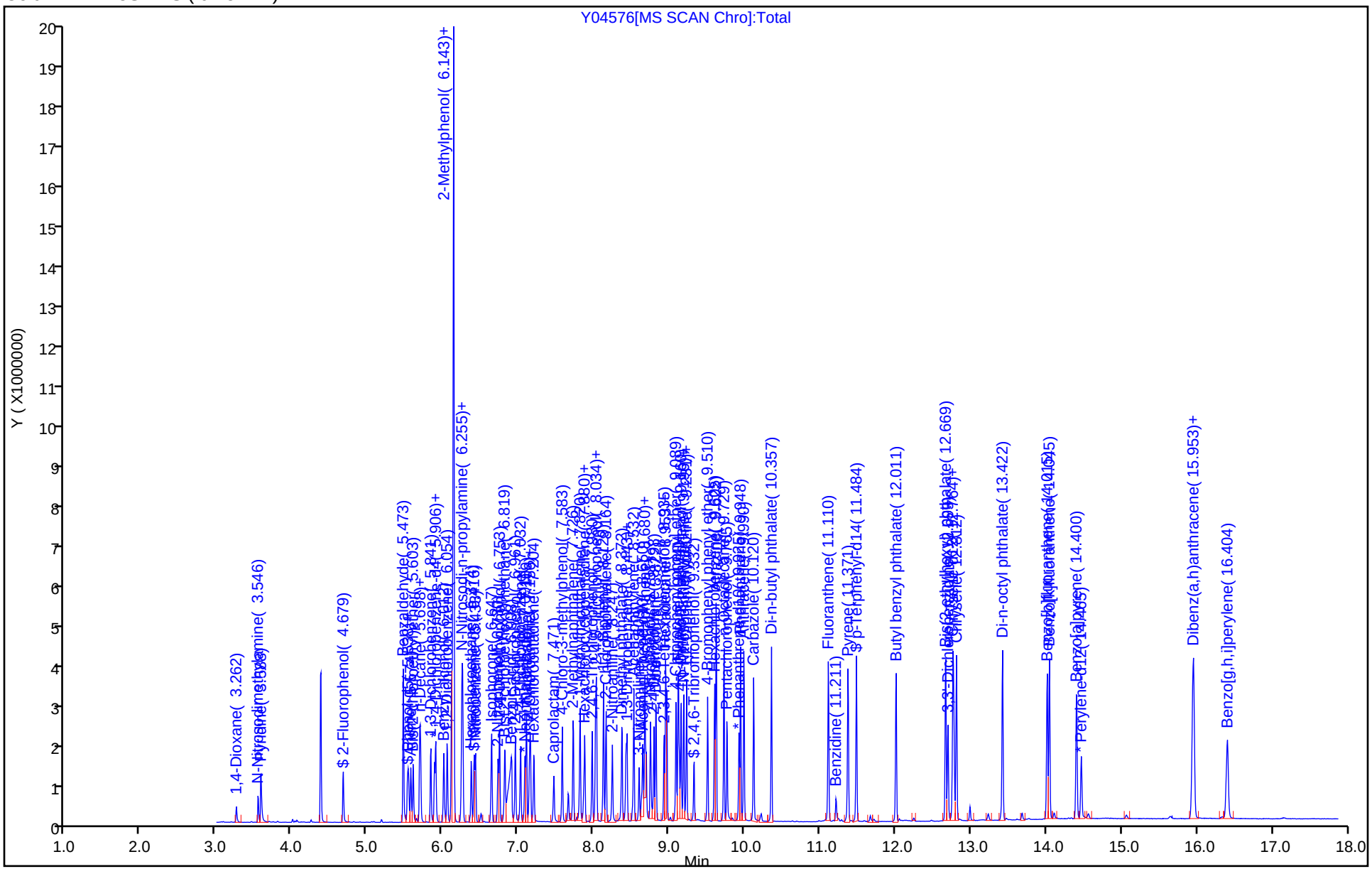
Report Date: 30-Oct-2024 15:16:26 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04576.D

Injection Date:	29-Oct-2024 13:33:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	LCS 480-730138/2-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y04576.D
Lims ID: LCS 480-730138/2-A
Client ID:
Sample Type: LCS
Inject. Date: 29-Oct-2024 13:33:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120882-007
Operator ID: JM Instrument ID: HP5973Y

Method: \\chromfs\Buffalo\ChromData\HP5973Y\20241029-120882.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2024 15:16:04 Calib Date: 11-Oct-2024 18:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120478.b\Y04123.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: IZ8L Date: 30-Oct-2024 07:58:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.35	66.87
$ 8 Phenol-d5	8.00	4.24	52.98
$ 9 Nitrobenzene-d5	8.00	7.28	91.00
$ 10 2-Fluorobiphenyl	8.00	6.83	85.34
$ 11 2,4,6-Tribromophenol	8.00	7.10	88.75
$ 12 p-Terphenyl-d14	8.00	7.44	93.04

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: HP5973Y Start Date: 10/10/2024 14:20

Analysis Batch Number: 727763 End Date: 10/10/2024 22:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-727763/2		10/10/2024 14:20	1	Y04074.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/3		10/10/2024 14:47	1	Y04075.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/4		10/10/2024 15:14	1	Y04076.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/5		10/10/2024 15:42	1	Y04077.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/6		10/10/2024 16:10	1	Y04078.D	RXI-5Sil MS 0.25(mm)
ICIS 480-727763/7		10/10/2024 16:37	1	Y04079.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/8		10/10/2024 17:05	1	Y04080.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/9		10/10/2024 17:32	1	Y04081.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/10		10/10/2024 18:00	1	Y04082.D	RXI-5Sil MS 0.25(mm)
ICV 480-727763/11		10/10/2024 18:27	1	Y04083.D	RXI-5Sil MS 0.25(mm)
IC 480-727763/12		10/10/2024 18:55	1		RXI-5Sil MS 0.25(mm)
IC 480-727763/13		10/10/2024 19:22	1		RXI-5Sil MS 0.25(mm)
IC 480-727763/14		10/10/2024 19:50	1		RXI-5Sil MS 0.25(mm)
IC 480-727763/15		10/10/2024 20:17	1		RXI-5Sil MS 0.25(mm)
IC 480-727763/16		10/10/2024 20:44	1		RXI-5Sil MS 0.25(mm)
IC 480-727763/17		10/10/2024 21:12	1		RXI-5Sil MS 0.25(mm)
IC 480-727763/18		10/10/2024 21:39	1		RXI-5Sil MS 0.25(mm)
ICV 480-727763/19		10/10/2024 22:07	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: HP5973Y Start Date: 10/29/2024 11:16

Analysis Batch Number: 730212 End Date: 10/29/2024 23:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-730212/2		10/29/2024 11:16	1	Y04571.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-730212/3		10/29/2024 11:44	1	Y04572.D	RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 12:38	400		RXI-5Sil MS 0.25(mm)
MB 480-730138/1-A		10/29/2024 13:06	1	Y04575.D	RXI-5Sil MS 0.25(mm)
LCS 480-730138/2-A		10/29/2024 13:33	1	Y04576.D	RXI-5Sil MS 0.25(mm)
ZZZZZ (QC)		10/29/2024 14:01	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (QC)		10/29/2024 14:28	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 14:56	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 15:23	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 15:50	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 16:18	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 16:45	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 17:12	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 17:40	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 18:07	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 18:34	1		RXI-5Sil MS 0.25(mm)
480-224869-1	MW-BCP-09A-10252024	10/29/2024 19:01	1	Y04588.D	RXI-5Sil MS 0.25(mm)
480-224869-3	MW-BCP-10A-10242024	10/29/2024 19:29	10	Y04589.D	RXI-5Sil MS 0.25(mm)
480-224869-5	MW-BCP-11A-10242024	10/29/2024 19:56	1	Y04590.D	RXI-5Sil MS 0.25(mm)
480-224869-7	MW-BCP-12A-10242024	10/29/2024 20:23	1	Y04591.D	RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/29/2024 20:51	5		RXI-5Sil MS 0.25(mm)
480-224869-10	MW-BCP-13B-10252024	10/29/2024 21:18	5	Y04593.D	RXI-5Sil MS 0.25(mm)
480-224869-11	MW-BCP-24A-10252024	10/29/2024 21:45	1	Y04594.D	RXI-5Sil MS 0.25(mm)
480-224869-12	MW-BCP-25A-10252024	10/29/2024 22:13	1	Y04595.D	RXI-5Sil MS 0.25(mm)
480-224869-13	MW-BCP-19B-10252024	10/29/2024 22:40	1	Y04596.D	RXI-5Sil MS 0.25(mm)
480-224869-18	MW-BCP-21A-10252024	10/29/2024 23:07	1	Y04597.D	RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: HP5973Y Start Date: 10/30/2024 09:51

Analysis Batch Number: 730403 End Date: 10/30/2024 15:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-730403/2		10/30/2024 09:51	1	Y04601.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-730403/3		10/30/2024 10:18	1	Y04602.D	RXI-5Sil MS 0.25(mm)
480-224869-3 DL	MW-BCP-10A-10242024 DL	10/30/2024 11:12	100	Y04604.D	RXI-5Sil MS 0.25(mm)
480-224869-9	MW-BCP-13A-10252024	10/30/2024 11:40	500	Y04605.D	RXI-5Sil MS 0.25(mm)
480-224869-13 DL	MW-BCP-19B-10252024 DL	10/30/2024 12:07	5	Y04606.D	RXI-5Sil MS 0.25(mm)
480-224869-19	MW-BCP-19A-10252024	10/30/2024 12:34	300	Y04607.D	RXI-5Sil MS 0.25(mm)
ZZZZZ (QC)		10/30/2024 13:02	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (QC)		10/30/2024 13:29	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (QC)		10/30/2024 13:57	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/30/2024 14:24	1		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/30/2024 14:52	100		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/30/2024 15:19	100		RXI-5Sil MS 0.25(mm)
480-224869-10 DL	MW-BCP-13B-10252024 DL	10/30/2024 15:46	500	Y04614.D	RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 727763 Batch Start Date: 10/10/24 14:20 Batch Analyst: Marshall, Joseph M

Batch Method: 8270D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	CalcMsg	MB_DFTPP_WRK 00443	MB_L1LVI_WRK 00642	MB_L1LVI_WRK 00643	MB_L1LVI_WRK 00644
DFTPP 480-727763/2		8270D			1 mL	Perform Calculation left blank	1 mL			
IC 480-727763/3		8270D			1 mL	Perform Calculation left blank		1 mL		
IC 480-727763/4		8270D			1 mL	Perform Calculation left blank			1 mL	
IC 480-727763/5		8270D			1 mL	Perform Calculation left blank				1 mL
IC 480-727763/6		8270D			1 mL	Perform Calculation left blank				
ICIS 480-727763/7		8270D			1 mL	Perform Calculation left blank				
IC 480-727763/8		8270D			1 mL	Perform Calculation left blank				
IC 480-727763/9		8270D			1 mL	Perform Calculation left blank				
IC 480-727763/10		8270D			1 mL	Perform Calculation left blank				
ICV 480-727763/11		8270D			1 mL	Perform Calculation left blank				

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MB_L1LVI_WRK 00645	MB_L1LVI_WRK 00646	MB_L1LVI_WRK 00647	MB_L1LVI_WRK 00648	MB_L1LVI_WRK 00649	MB_L1SSLV_WRK 00055
DFTPP 480-727763/2		8270D								
IC 480-727763/3		8270D								
IC 480-727763/4		8270D								
IC 480-727763/5		8270D								
IC 480-727763/6		8270D			1 mL					

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 727763 Batch Start Date: 10/10/24 14:20 Batch Analyst: Marshall, Joseph M

Batch Method: 8270D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MB_L1LVI_WRK 00645	MB_L1LVI_WRK 00646	MB_L1LVI_WRK 00647	MB_L1LVI_WRK 00648	MB_L1LVI_WRK 00649	MB_L1SSLV_WRK 00055
ICIS 480-727763/7		8270D				1 mL				
IC 480-727763/8		8270D					1 mL			
IC 480-727763/9		8270D						1 mL		
IC 480-727763/10		8270D							1 mL	
ICV 480-727763/11		8270D								1 mL

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730138 Batch Start Date: 10/28/24 14:16 Batch Analyst: Capelli, Lane S

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	O_8270LL LCS 00159
MB 480-730138/1		3510C, 8270D			250 mL	1 mL	5 SU	<2 SU	>11 SU	
LCS 480-730138/2		3510C, 8270D			250 mL	1 mL	5 SU	<2 SU	>11 SU	1 mL
480-224869-B-1	MW-BCP-09A-1025 2024	3510C, 8270D	Water	T	240 mL	1 mL	7 SU	<2 SU	>11 SU	
480-224869-B-3	MW-BCP-10A-1024 2024	3510C, 8270D	Water	T	50 mL	1 mL	9 SU	<2 SU	>11 SU	
480-224869-B-5	MW-BCP-11A-1024 2024	3510C, 8270D	Water	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-224869-B-7	MW-BCP-12A-1024 2024	3510C, 8270D	Water	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-224869-B-9	MW-BCP-13A-1025 2024	3510C, 8270D	Water	T	250 mL	1 mL	8 SU	<2 SU	>11 SU	
480-224869-A-10	MW-BCP-13B-1025 2024	3510C, 8270D	Water	T	250 mL	1 mL	8 SU	<2 SU	>11 SU	
480-224869-A-11	MW-BCP-24A-1025 2024	3510C, 8270D	Water	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-224869-A-12	MW-BCP-25A-1025 2024	3510C, 8270D	Water	T	240 mL	1 mL	8 SU	<2 SU	>11 SU	
480-224869-A-13	MW-BCP-19B-1025 2024	3510C, 8270D	Water	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-224869-A-18	MW-BCP-21A-1025 2024	3510C, 8270D	Water	T	240 mL	1 mL	8 SU	<2 SU	>11 SU	
480-224869-B-19	MW-BCP-19A-1025 2024	3510C, 8270D	Water	T	250 mL	1 mL	8 SU	<2 SU	>11 SU	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O_8270LLsurr 00103	AnalysisComment				
MB 480-730138/1		3510C, 8270D			1 mL					
LCS 480-730138/2		3510C, 8270D			1 mL					
480-224869-B-1	MW-BCP-09A-1025 2024	3510C, 8270D	Water	T	1 mL					
480-224869-B-3	MW-BCP-10A-1024 2024	3510C, 8270D	Water	T	1 mL	Contains some oil				
480-224869-B-5	MW-BCP-11A-1024 2024	3510C, 8270D	Water	T	1 mL					
480-224869-B-7	MW-BCP-12A-1024 2024	3510C, 8270D	Water	T	1 mL					

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730138 Batch Start Date: 10/28/24 14:16 Batch Analyst: Capelli, Lane S

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O_8270LLsurr 00103	AnalysisComment				
480-224869-B-9	MW-BCP-13A-1025 2024	3510C, 8270D	Water	T	1 mL	Contains some sediment, cloudy				
480-224869-A-10	MW-BCP-13B-1025 2024	3510C, 8270D	Water	T	1 mL	Contains some sediment, cloudy				
480-224869-A-11	MW-BCP-24A-1025 2024	3510C, 8270D	Water	T	1 mL	Contains some sediment, cloudy				
480-224869-A-12	MW-BCP-25A-1025 2024	3510C, 8270D	Water	T	1 mL					
480-224869-A-13	MW-BCP-19B-1025 2024	3510C, 8270D	Water	T	1 mL					
480-224869-A-18	MW-BCP-21A-1025 2024	3510C, 8270D	Water	T	1 mL					
480-224869-B-19	MW-BCP-19A-1025 2024	3510C, 8270D	Water	T	1 mL					

Batch Notes	
Method/Fraction	3510C_LVI/8270D
Balance is Level? (Y/N)	no
pH Indicator ID	HC450408
Analyst ID - Extraction	LC
Analyst ID - Spike Analyst	LC
Analyst ID - Spike Witness Analyst	LC
Sufficient Volume for Batch QC	Yes
Acid Used for pH Adjustment ID	8060001
Base Used to Adjust pH ID	8122087
Prep Solvent ID	8128955
Prep Solvent Volume Used	120 mL
Glass Wool ID	34021999
Na2SO4 ID	8038697
Analyst ID - Concentration	LC
Vial Lot Number	26083064

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730138 Batch Start Date: 10/28/24 14:16 Batch Analyst: Capelli, Lane S

Batch Method: 3510C 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.

METALS

COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG No.:

Project: Ammonia SCO

Client Sample ID	Lab Sample ID
MW-BCP-09A-10252024	480-224869-1
MW-BCP-10A-10242024	480-224869-3
MW-BCP-11A-10242024	480-224869-5
MW-BCP-12A-10242024	480-224869-7
MW-BCP-13A-10252024	480-224869-9
MW-BCP-13B-10252024	480-224869-10
MW-BCP-24A-10252024	480-224869-11
MW-BCP-25A-10252024	480-224869-12
MW-BCP-19B-10252024	480-224869-13
MW-BCP-22A-10252024	480-224869-14
MW-BCP-25B-10252024	480-224869-15
MW-BCP-23A-10252024	480-224869-16
MW-BCP-24B-10252024	480-224869-17
MW-BCP-21A-10252024	480-224869-18
MW-BCP-19A-10252024	480-224869-19
MW-BCP-27A-10252024	480-224869-25

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-09A-10252024 Lab Sample ID: 480-224869-1

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 16:30

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00020	0.000042	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-10A-10242024 Lab Sample ID: 480-224869-3

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 10:40

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00016	0.00060	0.00013	mg/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-11A-10242024 Lab Sample ID: 480-224869-5

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 11:35

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00040	0.000084	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-12A-10242024 Lab Sample ID: 480-224869-7

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 03:15

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00043	0.00020	0.000042	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-13A-10252024 Lab Sample ID: 480-224869-9

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 08:50

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00060	0.00013	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-13B-10252024 Lab Sample ID: 480-224869-10

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 09:10

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00099	0.00040	0.000084	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-24A-10252024 Lab Sample ID: 480-224869-11

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 09:35

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00061	0.00040	0.000084	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-25A-10252024 Lab Sample ID: 480-224869-12

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 02:05

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.000050	0.00020	0.000042	mg/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-19B-10252024 Lab Sample ID: 480-224869-13

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 09:55

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00018	0.00040	0.000084	mg/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-22A-10252024
Lab Sample ID: 480-224869-14
Lab Name: Eurofins Buffalo
Job No.: 480-224869-1
SDG ID.:
Matrix: Water
Date Sampled: 10/25/2024 11:30
Reporting Basis: WET
Date Received: 10/25/2024 16:30
Preparation Batch Number: 730387
Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.000053	0.00020	0.000042	mg/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-25B-10252024 Lab Sample ID: 480-224869-15

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 02:15

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00040	0.000084	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-23A-10252024 Lab Sample ID: 480-224869-16

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 11:45

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.000062	0.00020	0.000042	mg/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-24B-10252024 Lab Sample ID: 480-224869-17

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 01:20

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.00016	0.00060	0.00013	mg/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-21A-10252024 Lab Sample ID: 480-224869-18

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 11:00

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00020	0.000042	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-19A-10252024 Lab Sample ID: 480-224869-19

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 09:40

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00040	0.000084	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-BCP-27A-10252024 Lab Sample ID: 480-224869-25

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 02:30

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: 730387 Instrument ID: LEEMAN4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.0015	0.00020	0.000042	mg/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

ICV Source: MEH_HG1_WKG_03485 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_03485

Analyte	ICV 480-730556/7 10/30/2024 13:27				ICVL 480-730556/9 10/30/2024 13:29				CCVL 480-730556/48 10/30/2024 14:24			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00304		0.00301	101	0.000193	J	0.000201	96	0.000188	J	0.000201	94

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

ICV Source: MEH_HG1_WKG_03485 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_03485

Analyte	CCV 480-730556/59 10/30/2024 14:47				CCV 480-730556/71 10/30/2024 15:03				CCV 480-730556/83 10/30/2024 15:19			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00196		0.00201	98	0.00194		0.00201	97	0.00193		0.00201	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

ICV Source: MEH_HG1_WKG_03485 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_03485

Analyte	CCVL 480-730556/85 10/30/2024 15:21				CCV 480-730556/96 10/30/2024 15:35				CCVL 480-730556/122 10/30/2024 16:12			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.000182	J	0.000201	91	0.00191		0.00201	95	0.000181	J	0.000201	90

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-730556/8 10/30/2024 13:28		CCB 480-730556/60 10/30/2024 14:49		CCB 480-730556/72 10/30/2024 15:04		CCB 480-730556/84 10/30/2024 15:20	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-730556/97 10/30/2024 15:37							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND							

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-730387/1-A

Instrument Code: LEEMAN4 Batch No.: 730556

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-BCP-23A-10252024 MS Lab ID: 480-224869-16 MS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Concentration Units: mg/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.00614		0.000062	J	0.00669	91	80-120		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MW-BCP-23A-10252024 MSD Lab ID: 480-224869-16 MSD

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water Concentration Units: mg/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.00628		0.00669	93	80-120	2	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-730387/2-A

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_03485

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00669	0.00605		90	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-224869-16

SDG No:

Lab Name: Eurofins Buffalo Job No: 480-224869-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.000062	J	ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN4

Method: 7470A MDL Date: 03/26/2024 14:50

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.000042

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN4

Method: 7470A XMDL Date: 03/26/2024 14:50

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.000042

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Buffalo Job No: 480-224869-1

SDG No.:

Instrument ID: LEEMAN4 Date: 03/21/2024 14:36

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	30	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-730387/1-A	10/30/2024 12:00	730387		30	50
LCS 480-730387/2-A	10/30/2024 12:00	730387		30	50
480-224869-1	10/30/2024 12:00	730387		30	50
480-224869-3	10/30/2024 12:00	730387		10	50
480-224869-5	10/30/2024 12:00	730387		15	50
480-224869-7	10/30/2024 12:00	730387		30	50
480-224869-9	10/30/2024 12:00	730387		10	50
480-224869-10	10/30/2024 12:00	730387		15	50
480-224869-11	10/30/2024 12:00	730387		15	50
480-224869-12	10/30/2024 12:00	730387		30	50
480-224869-13	10/30/2024 12:00	730387		15	50
480-224869-14	10/30/2024 12:00	730387		30	50
480-224869-15	10/30/2024 12:00	730387		15	50
480-224869-16	10/30/2024 12:00	730387		30	50
480-224869-16 MS	10/30/2024 12:00	730387		30	50
480-224869-16 MSD	10/30/2024 12:00	730387		30	50
480-224869-17	10/30/2024 12:00	730387		10	50
480-224869-18	10/30/2024 12:00	730387		30	50
480-224869-19	10/30/2024 12:00	730387		15	50
480-224869-25	10/30/2024 12:00	730387		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: LEEMAN4 Method: 7470A

Start Date: 10/30/2024 13:19 End Date: 10/30/2024 16:42

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
IC 480-730545/1-A			13:19	X																			
IC 480-730545/2-A			13:20	X																			
IC 480-730545/3-A			13:21	X																			
IC 480-730545/4-A			13:23	X																			
IC 480-730545/5-A			13:24	X																			
IC 480-730545/6-A			13:25	X																			
ICV 480-730556/7	1		13:27	X																			
ICB 480-730556/8	1		13:28	X																			
ICVL 480-730556/9	1		13:29	X																			
CCV 480-730556/10			13:31																				
CCB 480-730556/11			13:32																				
ZZZZZZ (QC)			13:37																				
ZZZZZZ (QC)			13:38																				
ZZZZZZ (Client)			13:39																				
ZZZZZZ (QC)			13:41																				
ZZZZZZ (QC)			13:42																				
ZZZZZZ (QC)			13:43																				
ZZZZZZ (Client)			13:45																				
ZZZZZZ (Client)			13:46																				
ZZZZZZ (Client)			13:47																				
ZZZZZZ (Client)			13:48																				
CCV 480-730556/22			13:50																				
CCB 480-730556/23			13:51																				
ZZZZZZ (Client)			13:52																				
ZZZZZZ (Client)			13:54																				
ZZZZZZ (Client)			13:55																				
ZZZZZZ (Client)			13:56																				
ZZZZZZ (Client)			13:58																				
ZZZZZZ (Client)			13:59																				
ZZZZZZ (Client)			14:00																				
ZZZZZZ (Client)			14:01																				
ZZZZZZ (Client)			14:03																				
ZZZZZZ (Client)			14:04																				
CCV 480-730556/34			14:05																				
CCB 480-730556/35			14:07																				
ZZZZZZ (Client)			14:08																				
ZZZZZZ (Client)			14:09																				
ZZZZZZ (Client)			14:11																				
ZZZZZZ (Client)			14:12																				
ZZZZZZ (Client)			14:13																				
ZZZZZZ (QC)			14:14																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: LEEMAN4 Method: 7470A

Start Date: 10/30/2024 13:19 End Date: 10/30/2024 16:42

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ (QC)			14:16																				
ZZZZZZ (Client)			14:17																				
ZZZZZZ (Client)			14:18																				
ZZZZZZ (Client)			14:20																				
CCV 480-730556/46			14:21																				
CCB 480-730556/47			14:22																				
CCVL 480-730556/48	1		14:24	X																			
ZZZZZZ (QC)			14:25																				
ZZZZZZ (QC)			14:26																				
ZZZZZZ (QC)			14:28																				
ZZZZZZ (Client)			14:38																				
ZZZZZZ (Client)			14:39																				
ZZZZZZ (Client)			14:41																				
ZZZZZZ (Client)			14:42																				
ZZZZZZ (Client)			14:43																				
ZZZZZZ (Client)			14:45																				
ZZZZZZ (Client)			14:46																				
CCV 480-730556/59	1		14:47	X																			
CCB 480-730556/60	1		14:49	X																			
ZZZZZZ (Client)			14:50																				
ZZZZZZ (Client)			14:51																				
ZZZZZZ (Client)			14:52																				
ZZZZZZ (Client)			14:54																				
ZZZZZZ (Client)			14:55																				
MB 480-730387/1-A	1	T	14:56	X																			
LCS 480-730387/2-A	1	T	14:58	X																			
480-224869-1	1	T	14:59	X																			
480-224869-3	1	T	15:00	X																			
480-224869-5	1	T	15:02	X																			
CCV 480-730556/71	1		15:03	X																			
CCB 480-730556/72	1		15:04	X																			
480-224869-7	1	T	15:05	X																			
480-224869-9	1	T	15:07	X																			
480-224869-10	1	T	15:08	X																			
480-224869-11	1	T	15:09	X																			
480-224869-12	1	T	15:11	X																			
480-224869-13	1	T	15:12	X																			
480-224869-14	1	T	15:13	X																			
480-224869-15	1	T	15:15	X																			
480-224869-16	1	T	15:16	X																			
480-224869-16 SD	5	T	15:17	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: LEEMAN4 Method: 7470A

Start Date: 10/30/2024 13:19 End Date: 10/30/2024 16:42

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
CCV 480-730556/83	1		15:19	X																			
CCB 480-730556/84	1		15:20	X																			
CCVL 480-730556/85	1		15:21	X																			
480-224869-16 MS	1	T	15:22	X																			
480-224869-16 MSD	1	T	15:24	X																			
480-224869-17	1	T	15:25	X																			
480-224869-18	1	T	15:26	X																			
480-224869-19	1	T	15:28	X																			
480-224869-25	1	T	15:29	X																			
ZZZZZZ (Client)			15:30																				
ZZZZZZ (Client)			15:32																				
ZZZZZZ (Client)			15:33																				
ZZZZZZ (Client)			15:34																				
CCV 480-730556/96	1		15:35	X																			
CCB 480-730556/97	1		15:37	X																			
ZZZZZZ (QC)			15:40																				
ZZZZZZ (QC)			15:42																				
ZZZZZZ (QC)			15:43																				
ZZZZZZ (Client)			15:44																				
ZZZZZZ (Client)			15:46																				
ZZZZZZ (Client)			15:47																				
ZZZZZZ (QC)			15:48																				
ZZZZZZ (QC)			15:50																				
ZZZZZZ (QC)			15:51																				
ZZZZZZ (Client)			15:52																				
CCV 480-730556/108			15:54																				
CCB 480-730556/109			15:55																				
ZZZZZZ (Client)			15:56																				
ZZZZZZ (Client)			15:58																				
ZZZZZZ (Client)			15:59																				
ZZZZZZ (Client)			16:00																				
ZZZZZZ (Client)			16:01																				
ZZZZZZ (Client)			16:03																				
ZZZZZZ (QC)			16:04																				
ZZZZZZ (QC)			16:05																				
ZZZZZZ (QC)			16:07																				
ZZZZZZ (Client)			16:08																				
CCV 480-730556/120			16:09																				
CCB 480-730556/121			16:11																				
CCVL 480-730556/122	1		16:12	X																			
ZZZZZZ (QC)			16:13																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: LEEMAN4 Method: 7470A

Start Date: 10/30/2024 13:19 End Date: 10/30/2024 16:42

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ (QC)			16:15																				
ZZZZZZ (QC)			16:16																				
ZZZZZZ (QC)			16:17																				
ZZZZZZ (QC)			16:19																				
ZZZZZZ (QC)			16:20																				
ZZZZZZ (Client)			16:21																				
ZZZZZZ (QC)			16:23																				
ZZZZZZ (QC)			16:24																				
ZZZZZZ (QC)			16:25																				
CCV 480-730556/133			16:27																				
CCB 480-730556/134			16:28																				
ZZZZZZ (Client)			16:29																				
ZZZZZZ (Client)			16:31																				
CCV 480-730556/137			16:34																				
CCB 480-730556/138			16:35																				
CCVL 480-730556/139			16:37																				
ZZZZZZ (QC)			16:38																				
CCV 480-730556/141			16:39																				
CCB 480-730556/142			16:41																				
CCVL 480-730556/143			16:42																				

Prep Types
T = Total/NA

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG4

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\K20241030A.wszf

Creation Date: 10/30/2024 1:17:33 PM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank	STD	10/30/24 01:19:21 pm	0.000	6	758.31	-2.24		1.0000	N/A
Replicates	-13.4	-47.0	22.8	62.5					
Standard #1	STD	10/30/24 01:20:39 pm	0.100	702	4.16	-5.47		1.0000	N/A
Replicates	674.3	681.4	735.4	718.1					
Standard #2	STD	10/30/24 01:21:57 pm	0.500	3731	2.84	15.59		1.0000	N/A
Replicates	3603.6	3693.2	3779.0	3847.7					
Standard #3	STD	10/30/24 01:23:16 pm	2.000	14690	3.18	39.25		1.0000	N/A
Replicates	14187.3	14437.8	14907.0	15228.5					
Standard #4	STD	10/30/24 01:24:34 pm	10.000	72388	2.94	60.90		1.0000	N/A
Replicates	69843.6	71612.4	73332.6	74763.9					
Standard #5	STD	10/30/24 01:25:54 pm	20.000	143146	2.79	-101.68		1.0000	N/A
Replicates	138539.0	141440.4	144923.7	147682.2					
ICV	ICV	10/30/24 01:27:13 pm	3.038	21873	3.16			1.0000	101.26
Replicates	21052.1	21643.6	22122.9	22672.1					
ICB	ICB	10/30/24 01:28:31 pm	-0.003	2	30.42			1.0000	N/A
Replicates	5.3	9.5	-1.3	-3.8					
ICVL	CRDL	10/30/24 01:29:51 pm	0.193	1407	6.01			1.0000	96.28
Replicates	1313.6	1384.3	1417.8	1514.0					
CCV	CCV	10/30/24 01:31:10 pm	2.031	14631	3.33			1.0000	101.55
Replicates	14092.8	14411.6	14805.6	15214.8					
CCB	CCB	10/30/24 01:32:28 pm	-0.005	-16	86.20			1.0000	N/A
Replicates	-50.3	20.9	-35.6	1.9					
MB 480-730160/1-A	UNK	10/30/24 01:37:16 pm	-0.004	-21	174.50			1.0000	N/A
Replicates	24.8	-73.2	-50.7	13.8					
LCS 480-730160/2-A	UNK	10/30/24 01:38:33 pm	3.797	27252	3.39			1.0000	N/A
Replicates	26220.0	26884.9	27514.2	28389.7					

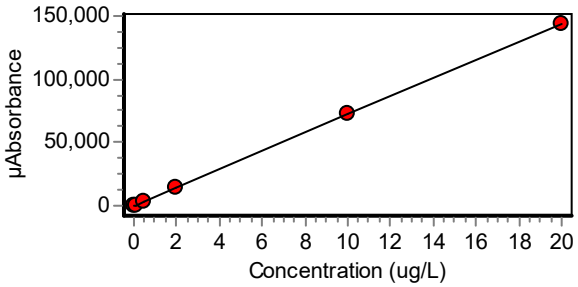
Calibration

Equation: Abs = 7192.767x + 22.347

R2: 0.99995

SEE: 453.0173

Flags:



Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-224823-C-1-G				UNK	10/30/24 01:39:51 pm	-0.008	-49	35.69			1.0000	N/A
Replicates	-75.7	-49.2	-37.5	-31.7								
480-224823-C-1-Gsd@5				UNK	10/30/24 01:41:08 pm	0.013	97	40.08			1.0000	N/A
Replicates	65.5	77.1	147.6	96.8								
480-224823-C-1-H MS				UNK	10/30/24 01:42:26 pm	3.857	27681	3.60			1.0000	N/A
Replicates	26547.4	27279.5	28030.7	28868.2								
480-224823-C-1-I MSD				UNK	10/30/24 01:43:44 pm	3.770	27054	3.44			1.0000	N/A
Replicates	26009.0	26652.0	27396.0	28159.0								
480-224823-C-2-C				UNK	10/30/24 01:45:02 pm	-0.006	-35	16.91			1.0000	N/A
Replicates	-35.4	-35.1	-27.1	-44.4								
480-224823-C-3-C				UNK	10/30/24 01:46:20 pm	0.002	23	157.53			1.0000	N/A
Replicates	58.1	11.8	25.5	-3.7								
480-224823-C-4-C				UNK	10/30/24 01:47:38 pm	-0.001	-4	186.34			1.0000	N/A
Replicates	8.0	-8.4	-28.1	13.4								
480-224823-C-5-C				UNK	10/30/24 01:48:57 pm	0.004	33	92.09			1.0000	N/A
Replicates	59.7	25.9	43.2	2.4								
CCV				CCV	10/30/24 01:50:17 pm	1.987	14265	3.82			1.0000	99.37
Replicates	13638.3	14061.6	14441.9	14917.6								
CCB				CCB	10/30/24 01:51:34 pm	0.000	6	687.46			1.0000	N/A
Replicates	19.0	13.4	-35.6	28.9								
480-224823-C-6-C				UNK	10/30/24 01:52:53 pm	-0.001	-1	475.33			1.0000	N/A
Replicates	-37.6	39.6	7.6	-12.1								
480-224823-C-7-C				UNK	10/30/24 01:54:11 pm	-0.006	-37	90.99			1.0000	N/A
Replicates	-13.4	-29.2	-10.2	-94.0								
480-224823-C-8-C				UNK	10/30/24 01:55:28 pm	0.002	23	73.62			1.0000	N/A
Replicates	16.5	9.0	30.0	35.8								
480-224823-C-10-C				UNK	10/30/24 01:56:46 pm	0.004	37	138.01			1.0000	N/A
Replicates	73.2	71.3	-9.2	11.3								
480-224823-C-11-C				UNK	10/30/24 01:58:03 pm	0.002	19	230.78			1.0000	N/A
Replicates	-21.4	46.6	34.8	16.3								
480-224823-C-12-C				UNK	10/30/24 01:59:21 pm	0.003	29	70.29			1.0000	N/A
Replicates	35.9	21.3	11.3	47.8								
480-224823-C-13-C				UNK	10/30/24 02:00:38 pm	0.003	26	164.57			1.0000	N/A
Replicates	-2.9	-1.3	59.9	49.4								
480-224823-C-14-C				UNK	10/30/24 02:01:56 pm	0.006	49	52.71			1.0000	N/A
Replicates	60.0	71.5	18.5	47.8								
480-224823-C-15-C				UNK	10/30/24 02:03:14 pm	0.004	35	73.33			1.0000	N/A
Replicates	18.3	15.3	54.5	52.3								

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-224823-C-16-C				UNK	10/30/24 02:04:32 pm	-0.005	-28	25.27			1.0000	N/A
Replicates	-20.6	-20.5	-34.8	-36.3								
CCV				CCV	10/30/24 02:05:52 pm	1.998	14343	3.74			1.0000	99.91
Replicates	13729.9	14151.1	14495.3	14997.1								
CCB				CCB	10/30/24 02:07:10 pm	-0.006	-37	27.20			1.0000	N/A
Replicates	-53.2	-37.6	-25.6	-32.1								
480-224823-C-17-C				UNK	10/30/24 02:08:28 pm	0.000	8	255.98			1.0000	N/A
Replicates	37.4	4.9	8.4	-18.6								
480-224823-C-18-C				UNK	10/30/24 02:09:46 pm	-0.005	-29	60.32			1.0000	N/A
Replicates	-56.2	-4.4	-29.9	-25.7								
480-224823-C-19-C				UNK	10/30/24 02:11:05 pm	-0.007	-41	67.38			1.0000	N/A
Replicates	-67.0	3.3	-39.0	-59.5								
480-224823-C-20-C				UNK	10/30/24 02:12:23 pm	-0.002	-8	339.81			1.0000	N/A
Replicates	7.5	-52.2	-42.2	54.1								
480-224823-C-21-C				UNK	10/30/24 02:13:41 pm	-0.002	-5	98.03			1.0000	N/A
Replicates	-6.4	-4.6	-19.4	8.6								
MB 480-730386/1-A				UNK	10/30/24 02:14:58 pm	0.001	13	385.66			1.0000	N/A
Replicates	35.2	-19.2	31.8	3.6								
LCS 480-730386/2-A				UNK	10/30/24 02:16:16 pm	3.701	26562	3.48			1.0000	N/A
Replicates	25513.1	26268.7	26748.4	27718.4								
480-224823-C-22-E				UNK	10/30/24 02:17:33 pm	-0.005	-26	52.13			1.0000	N/A
Replicates	-32.8	-30.2	-40.2	-1.7								
480-224823-C-23-C				UNK	10/30/24 02:18:51 pm	0.001	14	418.65			1.0000	N/A
Replicates	47.7	21.2	12.2	-26.8								
480-224823-C-24-C				UNK	10/30/24 02:20:09 pm	-0.002	-8	235.19			1.0000	N/A
Replicates	22.8	12.2	-52.1	-14.8								
CCV				CCV	10/30/24 02:21:28 pm	1.985	14247	3.47			1.0000	99.24
Replicates	13714.0	14061.8	14325.8	14884.8								
CCB				CCB	10/30/24 02:22:46 pm	-0.003	-17	123.79			1.0000	N/A
Replicates	-12.2	-28.6	-46.9	20.4								
CCVL				CRDL	10/30/24 02:24:06 pm	0.188	1356	4.54			1.0000	94.10
Replicates	1300.0	1310.4	1388.4	1426.9								
480-224823-C-24-Csd@5				UNK	10/30/24 02:25:24 pm	0.007	59	51.17			1.0000	N/A
Replicates	53.1	86.8	24.3	73.8								
480-224823-C-24-D MS				UNK	10/30/24 02:26:42 pm	3.701	26563	3.65			1.0000	N/A
Replicates	25392.2	26348.2	26783.4	27726.7								
480-224823-C-24-E MSD				UNK	10/30/24 02:28:00 pm	3.655	26231	3.72			1.0000	N/A
Replicates	25113.7	25925.5	26437.0	27446.7								

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-224823-C-25-C		UNK	10/30/24 02:38:38 pm	-0.001	0	769.16			1.0000	N/A
Replicates	-31.0	8.8	61.6	-38.4						
480-224823-C-26-C		UNK	10/30/24 02:39:57 pm	-0.003	-15	148.12			1.0000	N/A
Replicates	28.4	-38.9	-34.7	-13.2						
480-224823-C-27-C		UNK	10/30/24 02:41:15 pm	0.001	15	323.70			1.0000	N/A
Replicates	27.7	-25.5	39.2	18.5						
480-224795-C-2-C		UNK	10/30/24 02:42:33 pm	0.000	6	201.12			1.0000	N/A
Replicates	60.1	-41.8	12.7	-5.1						
480-224795-C-3-C		UNK	10/30/24 02:43:51 pm	0.001	13	305.71			1.0000	N/A
Replicates	44.8	-1.0	12.3	-2.5						
480-224795-C-4-C		UNK	10/30/24 02:45:08 pm	0.008	62	22.32			1.0000	N/A
Replicates	60.2	71.1	44.6	70.4						
480-224848-D-1-C		UNK	10/30/24 02:46:26 pm	0.003	30	92.84			1.0000	N/A
Replicates	21.6	24.5	62.0	11.8						
CCV		CCV	10/30/24 02:47:45 pm	1.963	14089	3.77			1.0000	98.14
Replicates	13484.9	13915.9	14200.9	14752.4						
CCB		CCB	10/30/24 02:49:03 pm	-0.005	-30	43.91			1.0000	N/A
Replicates	-26.0	-50.2	-12.2	-29.7						
480-224848-D-2-C		UNK	10/30/24 02:50:21 pm	0.005	39	44.33			1.0000	N/A
Replicates	24.3	41.8	31.8	57.8						
480-224848-D-3-C		UNK	10/30/24 02:51:38 pm	0.003	28	130.66			1.0000	N/A
Replicates	3.3	5.6	60.9	40.9						
480-224850-C-1-E		UNK	10/30/24 02:52:56 pm	0.007	54	68.28			1.0000	N/A
Replicates	83.7	62.7	63.7	7.2						
480-224850-C-4-E		UNK	10/30/24 02:54:14 pm	0.005	40	96.24			1.0000	N/A
Replicates	31.8	70.4	-2.1	58.2						
480-224850-C-5-C		UNK	10/30/24 02:55:33 pm	0.007	58	60.11			1.0000	N/A
Replicates	52.2	38.7	102.7	36.7						
MB 480-730387/1-A		UNK	10/30/24 02:56:51 pm	-0.007	-42	45.94			1.0000	N/A
Replicates	-70.7	-28.3	-48.0	-21.3						
LCS 480-730387/2-A		UNK	10/30/24 02:58:10 pm	3.632	26068	3.58			1.0000	N/A
Replicates	25056.6	25734.1	26202.8	27278.3						
480-224869-D-1-A		UNK	10/30/24 02:59:28 pm	0.011	86	42.86			1.0000	N/A
Replicates	131.3	83.5	78.2	49.2						
480-224869-D-3-A		UNK	10/30/24 03:00:46 pm	0.032	237	19.84			1.0000	N/A
Replicates	256.0	178.0	227.7	285.5						
480-224869-D-5-A		UNK	10/30/24 03:02:04 pm	0.019	146	13.35			1.0000	N/A
Replicates	129.4	171.9	136.2	146.7						

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCV				CCV	10/30/24 03:03:23 pm	1.943	13945	3.97			1.0000	97.14
	Replicates	13306.0	13768.7	14081.7	14624.2							
CCB				CCB	10/30/24 03:04:40 pm	-0.003	-14	132.22			1.0000	N/A
	Replicates	-31.9	20.1	-5.9	-38.4							
480-224869-D-7-A				UNK	10/30/24 03:05:58 pm	0.257	1847	4.35			1.0000	N/A
	Replicates	1758.5	1809.6	1875.4	1942.6							
480-224869-D-9-A				UNK	10/30/24 03:07:16 pm	0.003	26	194.46			1.0000	N/A
	Replicates	18.5	-22.5	69.7	38.7							
480-224869-D-10-A				UNK	10/30/24 03:08:34 pm	0.298	2146	4.18			1.0000	N/A
	Replicates	2060.4	2123.8	2129.0	2272.0							
480-224869-D-11-A				UNK	10/30/24 03:09:51 pm	0.183	1319	3.18			1.0000	N/A
	Replicates	1259.2	1333.7	1327.9	1355.9							
480-224869-D-12-A				UNK	10/30/24 03:11:09 pm	0.030	222	8.37			1.0000	N/A
	Replicates	238.8	197.2	221.4	230.9							
480-224869-D-13-A				UNK	10/30/24 03:12:27 pm	0.054	393	11.99			1.0000	N/A
	Replicates	444.9	358.0	349.7	418.5							
480-224869-B-14-A				UNK	10/30/24 03:13:46 pm	0.032	236	17.59			1.0000	N/A
	Replicates	268.1	192.6	271.8	209.8							
480-224869-B-15-A				UNK	10/30/24 03:15:04 pm	0.012	93	15.13			1.0000	N/A
	Replicates	83.0	107.1	102.4	81.4							
480-224869-B-16-A				UNK	10/30/24 03:16:22 pm	0.037	268	10.11			1.0000	N/A
	Replicates	247.4	296.0	243.8	285.5							
480-224869-B-16-A				UNK	10/30/24 03:17:41 pm	0.014	107	12.77			1.0000	N/A
	Replicates	94.0	122.8	99.6	111.8							
CCV				CCV	10/30/24 03:19:01 pm	1.928	13841	3.72			1.0000	96.42
	Replicates	13254.9	13674.0	13957.5	14479.5							
CCB				CCB	10/30/24 03:20:18 pm	-0.008	-53	27.22			1.0000	N/A
	Replicates	-35.3	-67.2	-43.0	-65.5							
CCVL				CRDL	10/30/24 03:21:38 pm	0.182	1314	4.23			1.0000	91.10
	Replicates	1250.0	1297.5	1323.8	1382.8							
480-224869-B-16-B MSsd@5				UNK	10/30/24 03:22:56 pm	3.686	26455	3.87			1.0000	N/A
	Replicates	25316.5	26108.4	26637.9	27758.9							
480-224869-B-16-C MSD				UNK	10/30/24 03:24:14 pm	3.766	27027	3.86			1.0000	N/A
	Replicates	25832.3	26630.8	27369.5	28274.8							
480-224869-B-17-A				UNK	10/30/24 03:25:32 pm	0.031	229	6.75			1.0000	N/A
	Replicates	242.4	216.0	215.3	240.8							
480-224869-D-18-A				UNK	10/30/24 03:26:50 pm	0.005	45	46.65			1.0000	N/A
	Replicates	25.6	44.4	69.4	41.1							

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-224869-D-19-A		UNK	10/30/24 03:28:08 pm	0.013	103	23.27			1.0000	N/A
Replicates	98.4	92.3	135.6	85.1						
480-224869-B-25-A		UNK	10/30/24 03:29:25 pm	0.925	6643	3.64			1.0000	N/A
Replicates	6350.1	6605.2	6678.2	6937.7						
160-55689-F-1-A		UNK	10/30/24 03:30:43 pm	0.007	55	42.40			1.0000	N/A
Replicates	47.1	49.6	84.9	37.9						
480-224882-A-1-C		UNK	10/30/24 03:32:01 pm	0.993	7132	3.75			1.0000	N/A
Replicates	6798.5	7077.1	7213.4	7438.1						
480-224882-A-2-C		UNK	10/30/24 03:33:20 pm	0.694	4985	3.40			1.0000	N/A
Replicates	4807.9	4915.1	5010.9	5206.6						
620-21873-A-1-B		UNK	10/30/24 03:34:38 pm	0.006	46	42.89			1.0000	N/A
Replicates	36.6	47.8	69.0	30.3						
CCV		CCV	10/30/24 03:35:58 pm	1.909	13705	4.22			1.0000	95.47
Replicates	13029.5	13547.4	13829.4	14414.9						
CCB		CCB	10/30/24 03:37:15 pm	-0.007	-44	35.57			1.0000	N/A
Replicates	-32.1	-25.9	-63.4	-54.7						
LB 480-730187/1-D		UNK	10/30/24 03:40:57 pm	0.016	120	37.23			1.0000	N/A
Replicates	133.2	67.4	168.9	111.4						
MB 480-730452/2-A		UNK	10/30/24 03:42:16 pm	-0.001	-2	361.42			1.0000	N/A
Replicates	-40.6	32.1	-11.9	10.6						
LCS 480-730452/3-A		UNK	10/30/24 03:43:34 pm	3.426	24585	4.00			1.0000	N/A
Replicates	23531.4	24185.6	24772.3	25848.8						
480-224791-B-18-G		UNK	10/30/24 03:44:53 pm	-0.003	-12	242.52			1.0000	N/A
Replicates	14.9	-58.9	-37.6	34.4						
480-224791-B-19-G		UNK	10/30/24 03:46:12 pm	0.056	411	7.19			1.0000	N/A
Replicates	371.4	417.9	441.4	414.6						
480-224791-B-20-I		UNK	10/30/24 03:47:31 pm	0.028	210	15.30			1.0000	N/A
Replicates	220.2	223.1	233.9	164.4						
480-224791-B-20-Isd@		UNK	10/30/24 03:48:49 pm	0.018	136	13.86			1.0000	N/A
Replicates	140.1	112.6	134.9	156.1						
480-224791-B-20-J MS		UNK	10/30/24 03:50:08 pm	3.514	25219	3.78			1.0000	N/A
Replicates	24206.6	24876.4	25320.9	26473.7						
480-224791-B-20-K MSD		UNK	10/30/24 03:51:27 pm	3.592	25779	3.59			1.0000	N/A
Replicates	24821.7	25412.9	25877.9	27004.2						
480-224791-B-21-G		UNK	10/30/24 03:52:45 pm	-0.007	-47	66.96			1.0000	N/A
Replicates	-26.8	-11.3	-59.3	-92.1						
CCV		CCV	10/30/24 03:54:05 pm	1.931	13863	3.78			1.0000	96.57
Replicates	13260.5	13698.5	13981.7	14510.7						

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCB				CCB	10/30/24 03:55:22 pm	-0.002	-10	49.25			1.0000	N/A
Replicates	-9.2	-7.6	-20.3	-1.6								
480-224791-A-22-E				UNK	10/30/24 03:56:41 pm	12.388	88885	3.64			1.0000	N/A
Replicates	85473.1	87644.7	89290.7	93132.7								
480-224791-A-23-E				UNK	10/30/24 03:58:00 pm	0.000	9	583.92			1.0000	N/A
Replicates	15.6	-15.8	27.5	10.0								
480-224791-A-24-E				UNK	10/30/24 03:59:19 pm	0.104	751	5.25			1.0000	N/A
Replicates	749.7	714.4	733.9	805.4								
480-224818-B-1-E				UNK	10/30/24 04:00:38 pm	0.007	60	99.01			1.0000	N/A
Replicates	85.3	17.2	122.0	14.2								
480-224703-D-1-C				UNK	10/30/24 04:01:57 pm	0.009	73	43.93			1.0000	N/A
Replicates	48.6	47.2	93.4	103.2								
480-224754-B-1-E				UNK	10/30/24 04:03:16 pm	0.022	164	14.00			1.0000	N/A
Replicates	156.1	144.3	159.8	195.5								
LB2 480-730257/1-D				UNK	10/30/24 04:04:35 pm	0.011	84	27.96			1.0000	N/A
Replicates	67.6	114.1	83.6	68.8								
MB 480-730453/2-A				UNK	10/30/24 04:05:54 pm	-0.003	-17	130.30			1.0000	N/A
Replicates	21.5	-50.8	-19.8	-17.1								
LCS 480-730453/3-A				UNK	10/30/24 04:07:13 pm	3.427	24593	3.64			1.0000	N/A
Replicates	23607.9	24259.2	24773.9	25730.4								
480-224791-B-26-J				UNK	10/30/24 04:08:34 pm	-0.003	-15	139.78			1.0000	N/A
Replicates	28.9	-25.6	-35.6	-27.4								
CCV				CCV	10/30/24 04:09:57 pm	1.904	13666	4.34			1.0000	95.19
Replicates	12965.1	13518.6	13786.4	14392.6								
CCB				CCB	10/30/24 04:11:17 pm	-0.008	-50	41.14			1.0000	N/A
Replicates	-19.1	-75.4	-55.4	-52.1								
CCVL				CRDL	10/30/24 04:12:39 pm	0.181	1304	4.63			1.0000	90.47
Replicates	1238.9	1287.8	1307.5	1383.5								
480-224791-B-26-Jsd@5				UNK	10/30/24 04:13:57 pm	0.010	81	26.47			1.0000	N/A
Replicates	110.5	72.7	76.7	65.7								
480-224791-B-26-K MS				UNK	10/30/24 04:15:16 pm	3.809	27337	3.56			1.0000	N/A
Replicates	26220.9	27036.8	27545.0	28544.5								
480-224791-B-26-L MSD				UNK	10/30/24 04:16:35 pm	3.807	27323	3.98			1.0000	N/A
Replicates	26115.9	26933.9	27546.7	28695.4								
LB 480-730373/1-B				UNK	10/30/24 04:17:54 pm	0.003	27	114.97			1.0000	N/A
Replicates	8.4	20.8	61.6	16.6								
MB 480-730455/2-A				UNK	10/30/24 04:19:14 pm	0.004	36	56.61			1.0000	N/A
Replicates	43.7	53.9	14.1	33.1								

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
LCS 480-730455/3-A					UNK	10/30/24 04:20:33 pm	2.957	21218	3.87			1.0000	N/A
	Replicates	20305.7	20917.5	21400.0	22248.3								
480-224926-A-1-A					UNK	10/30/24 04:21:52 pm	0.004	37	50.69			1.0000	N/A
	Replicates	40.4	23.4	26.1	57.1								
480-224926-A-1-Bsd@5					UNK	10/30/24 04:23:11 pm	0.011	85	25.09			1.0000	N/A
	Replicates	107.4	64.2	94.2	73.0								
480-224926-A-1-C MS					UNK	10/30/24 04:24:30 pm	3.437	24662	4.07			1.0000	N/A
	Replicates	23494.4	24320.6	24970.9	25861.9								
480-224926-A-1-D MSD					UNK	10/30/24 04:25:49 pm	3.458	24819	3.89			1.0000	N/A
	Replicates	23704.4	24480.5	25103.7	25986.5								
CCV					CCV	10/30/24 04:27:08 pm	1.894	13596	4.13			1.0000	94.71
	Replicates	12974.2	13413.1	13682.3	14314.1								
CCB					CCB	10/30/24 04:28:26 pm	0.000	3	614.17			1.0000	N/A
	Replicates	8.3	5.8	-20.0	19.8								
480-224926-A-2-B					UNK	10/30/24 04:29:45 pm	0.002	20	171.97			1.0000	N/A
	Replicates	26.5	-15.2	32.8	36.3								
480-224926-B-3-B					UNK	10/30/24 04:31:04 pm	0.002	17	359.70			1.0000	N/A
	Replicates	-12.3	-21.5	46.0	57.2								
CCV					CCV	10/30/24 04:34:29 pm	1.880	13496	4.34			1.0000	94.01
	Replicates	12868.2	13237.7	13643.2	14235.5								
CCB					CCB	10/30/24 04:35:46 pm	-0.004	-23	77.09			1.0000	N/A
	Replicates	3.0	-51.4	-19.4	-23.2								
CCVL					CRDL	10/30/24 04:37:07 pm	0.182	1312	3.55			1.0000	91.03
	Replicates	1258.3	1331.1	1294.4	1365.9								
LCS 480-730455/3-A					UNK	10/30/24 04:38:25 pm	2.980	21385	3.83			1.0000	N/A
	Replicates	20492.6	21097.0	21510.5	22439.0								
CCV					CCV	10/30/24 04:39:45 pm	1.892	13582	4.35			1.0000	94.61
	Replicates	12896.1	13414.1	13707.6	14311.6								
CCB					CCB	10/30/24 04:41:02 pm	-0.004	-26	59.93			1.0000	N/A
	Replicates	-13.2	-47.7	-36.7	-6.7								
CCVL					CRDL	10/30/24 04:42:23 pm	0.174	1252	5.57			1.0000	86.79
	Replicates	1173.2	1257.0	1235.0	1341.0								

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730387 Batch Start Date: 10/30/24 12:00 Batch Analyst: Boytar, Emily S

Batch Method: 7470A Batch End Date: 10/30/24 14:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 03485			
MB 480-730387/1		7470A, 7470A			30 mL	50 mL				
LCS 480-730387/2		7470A, 7470A			30 mL	50 mL	2 mL			
480-224869-D-1	MW-BCP-09A-1025 2024	7470A, 7470A	Water	T	30 mL	50 mL				
480-224869-D-3	MW-BCP-10A-1024 2024	7470A, 7470A	Water	T	10 mL	50 mL				
480-224869-D-5	MW-BCP-11A-1024 2024	7470A, 7470A	Water	T	15 mL	50 mL				
480-224869-D-7	MW-BCP-12A-1024 2024	7470A, 7470A	Water	T	30 mL	50 mL				
480-224869-D-9	MW-BCP-13A-1025 2024	7470A, 7470A	Water	T	10 mL	50 mL				
480-224869-D-10	MW-BCP-13B-1025 2024	7470A, 7470A	Water	T	15 mL	50 mL				
480-224869-D-11	MW-BCP-24A-1025 2024	7470A, 7470A	Water	T	15 mL	50 mL				
480-224869-D-12	MW-BCP-25A-1025 2024	7470A, 7470A	Water	T	30 mL	50 mL				
480-224869-D-13	MW-BCP-19B-1025 2024	7470A, 7470A	Water	T	15 mL	50 mL				
480-224869-B-14	MW-BCP-22A-1025 2024	7470A, 7470A	Water	T	30 mL	50 mL				
480-224869-B-15	MW-BCP-25B-1025 2024	7470A, 7470A	Water	T	15 mL	50 mL				
480-224869-B-16	MW-BCP-23A-1025 2024	7470A, 7470A	Water	T	30 mL	50 mL				
480-224869-B-16 MS	MW-BCP-23A-1025 2024	7470A, 7470A		T	30 mL	50 mL	2 mL			
480-224869-B-16 MSD	MW-BCP-23A-1025 2024	7470A, 7470A		T	30 mL	50 mL	2 mL			
480-224869-B-17	MW-BCP-24B-1025 2024	7470A, 7470A	Water	T	10 mL	50 mL				
480-224869-D-18	MW-BCP-21A-1025 2024	7470A, 7470A	Water	T	30 mL	50 mL				
480-224869-D-19	MW-BCP-19A-1025 2024	7470A, 7470A	Water	T	15 mL	50 mL				
480-224869-B-25	MW-BCP-27A-1025 2024	7470A, 7470A	Water	T	30 mL	50 mL				

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730387 Batch Start Date: 10/30/24 12:00 Batch Analyst: Boytar, Emily S

Batch Method: 7470A Batch End Date: 10/30/24 14:00

Batch Notes	
Digestion Tube/Cup ID	LV24051404
Pipette/Syringe/Dispenser ID	Hg-5
Analyst ID - Spike Analyst	EB
Nitric Acid ID	8121747
Sulfuric Acid ID	8047925
Potassium Permanganate ID	8124035
Potassium Persulfate ID	8120406
Digestion Unit ID	Hg-A
Thermometer ID	211049591
Temperature - Uncorrected - Start	94.5 Degrees C
Temperature - Corrected - Start	93.8 Degrees C
Digestion Start Time	1200
Digestion End Time	1400
Temperature - Uncorrected - End	96.0 Degrees C
Temperature - Corrected - End	95.3 Degrees C
Hydroxylamine ID	8090177
Batch Comment	spike 1 @ 0901

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG No.:

Project: Ammonia SCO

Client Sample ID	Lab Sample ID
MW-BCP-09A-10252024	480-224869-1
MW-BCP-09B-10242024	480-224869-2
MW-BCP-10A-10242024	480-224869-3
MW-BCP-10C-10242024	480-224869-4
MW-BCP-11A-10242024	480-224869-5
MW-BCP-11B-10242024	480-224869-6
MW-BCP-12A-10242024	480-224869-7
MW-BCP-12B-10242024	480-224869-8
MW-BCP-13A-10252024	480-224869-9
MW-BCP-13B-10252024	480-224869-10
MW-BCP-24A-10252024	480-224869-11
MW-BCP-25A-10252024	480-224869-12
MW-BCP-19B-10252024	480-224869-13
MW-BCP-22A-10252024	480-224869-14
MW-BCP-25B-10252024	480-224869-15
MW-BCP-23A-10252024	480-224869-16
MW-BCP-24B-10252024	480-224869-17
MW-BCP-21A-10252024	480-224869-18
MW-BCP-19A-10252024	480-224869-19
MW-BCP-20A-10252024	480-224869-20
MW-BCP-20B-10252024	480-224869-21
MW-BCP-17A-10242024	480-224869-22
MW-BCP-21C-10252024	480-224869-23
MW-BCP-17B-10242024	480-224869-24
MW-BCP-27A-10252024	480-224869-25

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-09A-10252024 | Lab Sample ID: 480-224869-1

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 16:30

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	1.7	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	1.6	0.050	0.021	mg/L		B	5	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-09B-10242024 Lab Sample ID: 480-224869-2

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 02:25

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	ND	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-10A-10242024 | Lab Sample ID: 480-224869-3

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/24/2024 10:40

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	223	10.0	4.5	mg/L			500	350.1
57-12-5	Cyanide, Total	1.8	0.050	0.021	mg/L		B	5	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-10C-10242024 | Lab Sample ID: 480-224869-4

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/24/2024 10:55

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.17	0.020	0.0090	mg/L		F1	1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-11A-10242024 | Lab Sample ID: 480-224869-5

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/24/2024 11:35

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.18	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.12	0.010	0.0041	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-11B-10242024 Lab Sample ID: 480-224869-6

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 01:00

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.047	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-12A-10242024 | Lab Sample ID: 480-224869-7

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/24/2024 03:15

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.073	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	1.2	0.050	0.021	mg/L		B	5	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-12B-10242024 Lab Sample ID: 480-224869-8

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 03:10

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	ND	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-13A-10252024 | Lab Sample ID: 480-224869-9

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 08:50

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	7.8	0.10	0.045	mg/L			5	350.1
57-12-5	Cyanide, Total	0.62	0.020	0.0082	mg/L		B	2	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-13B-10252024 Lab Sample ID: 480-224869-10

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 09:10

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.24	0.020	0.0090	mg/L		F1	1	350.1
57-12-5	Cyanide, Total	0.28	0.010	0.0041	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-24A-10252024 | Lab Sample ID: 480-224869-11

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 09:35

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	1.0	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.12	0.010	0.0041	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-25A-10252024 Lab Sample ID: 480-224869-12

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 02:05

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	5.1	0.10	0.045	mg/L		B	5	350.1
57-12-5	Cyanide, Total	1.4	0.050	0.021	mg/L		B	5	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-19B-10252024 Lab Sample ID: 480-224869-13

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 09:55

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.20	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-22A-10252024 Lab Sample ID: 480-224869-14

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 11:30

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.96	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.042	0.010	0.0041	mg/L		F1 B	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-25B-10252024 | Lab Sample ID: 480-224869-15

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 02:15

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.25	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.019	0.010	0.0041	mg/L		F1 B	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-23A-10252024 | Lab Sample ID: 480-224869-16

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 11:45

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	1.1	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.26	0.010	0.0041	mg/L		B	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-24B-10252024 | Lab Sample ID: 480-224869-17

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 01:20

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.30	0.020	0.0090	mg/L		F1 F2	1	350.1
57-12-5	Cyanide, Total	0.058	0.010	0.0041	mg/L		B	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-21A-10252024 | Lab Sample ID: 480-224869-18

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 11:00

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	1.5	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.020	0.010	0.0041	mg/L		B	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-19A-10252024 | Lab Sample ID: 480-224869-19

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 09:40

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	37.0	0.51	0.23	mg/L			25.71	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-20A-10252024 Lab Sample ID: 480-224869-20

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 10:20

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.17	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-20B-10252024 | Lab Sample ID: 480-224869-21

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/25/2024 10:35

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	ND	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-17A-10242024 Lab Sample ID: 480-224869-22

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/24/2024 03:00

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	ND	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-21C-10252024 Lab Sample ID: 480-224869-23

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG ID.:

Matrix: Water Date Sampled: 10/25/2024 11:20

Reporting Basis: WET Date Received: 10/25/2024 16:30

Preparation Batch Number: Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.34	0.020	0.0090	mg/L			1	350.1

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-17B-10242024
Lab Sample ID: 480-224869-24
Lab Name: Eurofins Buffalo
Job No.: 480-224869-1
SDG ID.:
Matrix: Water
Date Sampled: 10/24/2024 08:40
Reporting Basis: WET
Date Received: 10/25/2024 16:30
Preparation Batch Number:
Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	0.049	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	0.0075	0.010	0.0041	mg/L	J	F1 B	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-BCP-27A-10252024 | Lab Sample ID: 480-224869-25

Lab Name: Eurofins Buffalo | Job No.: 480-224869-1

SDG ID.:

Matrix: Water | Date Sampled: 10/24/2024 02:30

Reporting Basis: WET | Date Received: 10/25/2024 16:30

Preparation Batch Number: | Instrument ID: SEAL 1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	1.1	0.020	0.0090	mg/L			1	350.1
57-12-5	Cyanide, Total	16.8	0.50	0.21	mg/L		B	50	9012B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Analyst: AM Batch Start Date: 10/30/2024

Reporting Units: mg/L Analytical Batch No.: 730650

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	21:36	Ammonia	0.944	1.00	94	90-110		NH3 CCV_02038
2	ICB	21:38	Ammonia	ND					
63	CCV	22:30	Ammonia	0.939	1.00	94	90-110		NH3 CCV_02038
64	CCB	22:30	Ammonia	ND					
75	CCV	22:39	Ammonia	0.935	1.00	94	90-110		NH3 CCV_02038
76	CCB	22:40	Ammonia	ND					
77	CCV	22:56	Ammonia	0.954	1.00	95	90-110		NH3 CCV_02038
78	CCB	22:57	Ammonia	ND					
85	CCV	23:04	Ammonia	0.937	1.00	94	90-110		NH3 CCV_02038
86	CCB	23:04	Ammonia	ND					
92	CCV	23:09	Ammonia	0.945	1.00	95	90-110		NH3 CCV_02038
93	CCB	23:11	Ammonia	ND					
96	ICV	23:26	Ammonia	0.937	1.00	94	90-110		NH3 CCV_02038
97	ICB	23:28	Ammonia	ND					
98	CCV	23:28	Ammonia	0.963	1.00	96	90-110		NH3 CCV_02038
99	CCB	23:29	Ammonia	ND					
104	CCV	23:36	Ammonia	0.947	1.00	95	90-110		NH3 CCV_02038
105	CCB	23:38	Ammonia	ND					
108	ICV	23:53	Ammonia	0.946	1.00	95	90-110		NH3 CCV_02038
109	ICB	23:54	Ammonia	ND					
114	CCV	00:00	Ammonia	0.953	1.00	95	90-110		NH3 CCV_02038
115	CCB	00:02	Ammonia	ND					
118	CCV	09:52	Ammonia	0.931	1.00	93	90-110		NH3 CCV_02038
119	CCB	09:54	Ammonia	ND					
129	CCV	10:02	Ammonia	0.952	1.00	95	90-110		NH3 CCV_02038
130	CCB	10:02	Ammonia	ND					
141	CCV	10:11	Ammonia	0.959	1.00	96	90-110		NH3 CCV_02038
142	CCB	10:12	Ammonia	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Analyst: AM Batch Start Date: 10/31/2024

Reporting Units: mg/L Analytical Batch No.: 730651

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	00:18	Ammonia	0.944	1.00	94	90-110		NH3 CCV_02038
2	ICB	00:20	Ammonia	ND					
3	CCV	00:20	Ammonia	0.942	1.00	94	90-110		NH3 CCV_02038
4	CCB	00:20	Ammonia	ND					
14	CCV	00:30	Ammonia	0.961	1.00	96	90-110		NH3 CCV_02038
15	CCB	00:30	Ammonia	ND					
22	CCV	00:37	Ammonia	0.944	1.00	94	90-110		NH3 CCV_02038
23	CCB	00:37	Ammonia	ND					
57	ICV	01:35	Ammonia	0.956	1.00	96	90-110		NH3 CCV_02038
58	ICB	01:36	Ammonia	ND					
59	CCV	01:37	Ammonia	0.941	1.00	94	90-110		NH3 CCV_02038
60	CCB	01:37	Ammonia	ND					
64	CCV	01:42	Ammonia	0.933	1.00	93	90-110		NH3 CCV_02038
65	CCB	01:42	Ammonia	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Analyst: CLT Batch Start Date: 10/29/2024

Reporting Units: mg/L Analytical Batch No.: 730337

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
15	ICV	08:00	Cyanide, Total	0.249	0.250	100	90-110		WC_CN ICV_00296
16	ICB	08:02	Cyanide, Total	ND					
17	CCV	08:05	Cyanide, Total	0.250	0.250	100	90-110		WC_CN CCV/LCS_00521
18	CCB	08:08	Cyanide, Total	ND					
29	CCV	08:45	Cyanide, Total	0.261	0.250	105	90-110		WC_CN CCV/LCS_00521
30	CCB	08:48	Cyanide, Total	ND					
99	CCV	12:39	Cyanide, Total	0.259	0.250	104	90-110		WC_CN CCV/LCS_00521
100	CCB	12:42	Cyanide, Total	ND					
113	CCV	13:25	Cyanide, Total	0.274	0.250	110	90-110		WC_CN CCV/LCS_00521
114	CCB	13:29	Cyanide, Total	ND					
127	CCV	14:12	Cyanide, Total	0.264	0.250	106	90-110		WC_CN CCV/LCS_00521
128	CCB	14:16	Cyanide, Total	0.00460				J	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Analyst: CLT Batch Start Date: 10/30/2024

Reporting Units: mg/L Analytical Batch No.: 730502

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
15	ICV	07:56	Cyanide, Total	0.257	0.250	103	90-110		WC_CN ICV_00297
16	ICB	07:58	Cyanide, Total	0.00570				J	
17	CCV	08:01	Cyanide, Total	0.250	0.250	100	90-110		WC_CN CCV/LCS_00523
18	CCB	08:04	Cyanide, Total	0.00530				J	
29	CCV	08:41	Cyanide, Total	0.230	0.250	92	90-110		WC_CN CCV/LCS_00523
30	CCB	08:45	Cyanide, Total	0.00600				J	
44	CCV	09:32	Cyanide, Total	0.253	0.250	101	90-110		WC_CN CCV/LCS_00523
45	CCB	09:34	Cyanide, Total	0.00780				J	
58	CCV	10:18	Cyanide, Total	0.244	0.250	98	90-110		WC_CN CCV/LCS_00523
59	CCB	10:21	Cyanide, Total	0.00840				J	
72	CCV	11:04	Cyanide, Total	0.236	0.250	94	90-110		WC_CN CCV/LCS_00523
73	CCB	11:08	Cyanide, Total	0.00850				J	
86	CCV	11:51	Cyanide, Total	0.235	0.250	94	90-110		WC_CN CCV/LCS_00523
87	CCB	11:55	Cyanide, Total	0.00900				J	
100	CCV	12:38	Cyanide, Total	0.234	0.250	93	90-110		WC_CN CCV/LCS_00523
101	CCB	12:41	Cyanide, Total	0.00660				J	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 730650 Date: 10/30/2024 22:32							
350.1	MB 480-730650/65	Ammonia	ND		mg/L	0.020	1
Batch ID: 730650 Date: 10/30/2024 23:06							
350.1	MB 480-730650/87	Ammonia	ND		mg/L	0.020	1
Batch ID: 730650 Date: 10/30/2024 23:30							
350.1	MB 480-730650/100	Ammonia	0.0150	J	mg/L	0.020	1
Batch ID: 730650 Date: 10/31/2024 00:02							
350.1	MB 480-730650/116	Ammonia	ND		mg/L	0.020	1
Batch ID: 730651 Date: 10/31/2024 00:22							
350.1	MB 480-730651/5	Ammonia	ND		mg/L	0.020	1
Batch ID: 730651 Date: 10/31/2024 01:39							
350.1	MB 480-730651/61	Ammonia	ND		mg/L	0.020	1
Batch ID: 730650 Date: 10/31/2024 10:04							
350.1	MB 480-730650/131	Ammonia	ND		mg/L	0.020	1
Batch ID: 730337 Date: 10/29/2024 12:53							
9012B	MB 480-730337/103	Cyanide, Total	ND		mg/L	0.010	1
Batch ID: 730502 Date: 10/30/2024 08:16							
9012B	MB 480-730502/21	Cyanide, Total	0.00470	J	mg/L	0.010	1
Batch ID: 730502 Date: 10/30/2024 09:46							
9012B	MB 480-730502/48	Cyanide, Total	0.00910	J	mg/L	0.010	1
Batch ID: 730502 Date: 10/30/2024 11:19							
9012B	MB 480-730502/76	Cyanide, Total	0.00960	J	mg/L	0.010	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 730650 Date: 10/30/2024 22:59											
350.1	480-224869-10	Ammonia	0.24		mg/L						F1
350.1	480-224869-10 MS	Ammonia	0.302		mg/L	0.0800	75	90-110			F1
Batch ID: 730650 Date: 10/30/2024 23:08											
350.1	480-224869-16	Ammonia	1.1		mg/L						
350.1	480-224869-16 MS	Ammonia	1.21		mg/L	0.0800	134	90-110			4
Batch ID: 730651 Date: 10/31/2024 00:24											
350.1	480-224869-17	Ammonia	0.30		mg/L						F1 F2
350.1	480-224869-17 MS	Ammonia	0.362		mg/L	0.0800	83	90-110			F1
Batch ID: 730651 Date: 10/31/2024 00:32											
350.1	480-224869-23	Ammonia	0.34		mg/L						
350.1	480-224869-23 MS	Ammonia	0.398		mg/L	0.0800	73	90-110			4
Batch ID: 730650 Date: 10/31/2024 10:06											
350.1	480-224869-4	Ammonia	0.17		mg/L						F1
350.1	480-224869-4 MS	Ammonia	0.243		mg/L	0.0800	96	90-110			
Batch ID: 730502 Date: 10/30/2024 08:31											
9012B	480-224869-14	Cyanide, Total	0.042		mg/L						F1 B
9012B	480-224869-14 MS	Cyanide, Total	0.125		mg/L	0.100	83	90-110			F1
Batch ID: 730502 Date: 10/30/2024 09:01											
9012B	480-224869-15	Cyanide, Total	0.019		mg/L						F1 B
9012B	480-224869-15 MS	Cyanide, Total	0.105		mg/L	0.100	86	90-110			F1
Batch ID: 730502 Date: 10/30/2024 09:55											
9012B	480-224869-24	Cyanide, Total	0.0075	J	mg/L						F1 B
9012B	480-224869-24 MS	Cyanide, Total	0.0929		mg/L	0.100	85	90-110			F1

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 730650 Date: 10/30/2024 23:09											
350.1	480-224869-16 MSD	Ammonia	1.12		mg/L	0.0800	20	90-110	8	20	4
Batch ID: 730651 Date: 10/31/2024 00:25											
350.1	480-224869-17 MSD	Ammonia	0.265		mg/L	0.0800	-39	90-110	31	20	F1 F2
Batch ID: 730650 Date: 10/31/2024 10:07											
350.1	480-224869-4 MSD	Ammonia	0.222		mg/L	0.0800	70	90-110	9	20	F1

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 730502 Date: 10/30/2024 08:58								
9012B	MW-BCP-25B-10252024	480-224869-15	Cyanide, Total	0.019	mg/L			
9012B	MW-BCP-25B-10252024	480-224869-15 DU	Cyanide, Total	0.0177	mg/L	8	15	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 730650	Date: 10/30/2024 22:32										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730650/66	Ammonia	0.957		mg/L	1.00	96	90-110			
Batch ID: 730650	Date: 10/30/2024 23:06										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730650/88	Ammonia	0.958		mg/L	1.00	96	90-110			
Batch ID: 730650	Date: 10/30/2024 23:31										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730650/101	Ammonia	0.968		mg/L	1.00	97	90-110			
Batch ID: 730650	Date: 10/31/2024 00:02										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730650/117	Ammonia	0.948		mg/L	1.00	95	90-110			
Batch ID: 730651	Date: 10/31/2024 00:22										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730651/6	Ammonia	0.947		mg/L	1.00	95	90-110			
Batch ID: 730651	Date: 10/31/2024 01:39										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730651/62	Ammonia	0.961		mg/L	1.00	96	90-110			
Batch ID: 730650	Date: 10/31/2024 10:04										
						LCS Source: NH3 CCV_02038					
350.1	LCS 480-730650/132	Ammonia	0.958		mg/L	1.00	96	90-110			
Batch ID: 730337	Date: 10/29/2024 12:55										
						LCS Source: WC_CN CCV/LCS_00521					
9012B	LCS 480-730337/104	Cyanide, Total	0.246		mg/L	0.250	98	90-110			
Batch ID: 730502	Date: 10/30/2024 08:21										
						LCS Source: WC_CN CCV/LCS_00523					
9012B	LCS 480-730502/23	Cyanide, Total	0.230		mg/L	0.250	92	90-110			
Batch ID: 730502	Date: 10/30/2024 09:48										
						LCS Source: WC_CN CCV/LCS_00523					
9012B	LCS 480-730502/49	Cyanide, Total	0.260		mg/L	0.250	104	90-110			
Batch ID: 730502	Date: 10/30/2024 11:21										
						LCS Source: WC_CN CCV/LCS_00523					
9012B	LCS 480-730502/77	Cyanide, Total	0.250		mg/L	0.250	100	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
HIGH LEVEL CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 730337 Date: 10/29/2024 08:22											
						LCS Source: WC_CN 0.400_00299					
9012B	HLCS 480-730337/22	Cyanide, Total	0.408		mg/L	0.400	102	90-110			
Batch ID: 730502 Date: 10/30/2024 08:18											
						LCS Source: WC_CN 0.400_00300					
9012B	HLCS 480-730502/22	Cyanide, Total	0.375		mg/L	0.400	94	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG Number:

Matrix: Water Instrument ID: SEAL 1

Method: 350.1 MDL Date: 01/12/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ammonia		0.02	0.009

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG Number:

Matrix: Water Instrument ID: SEAL 1

Method: 350.1 XMDL Date: 01/12/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ammonia		0.02	0.009

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG Number:

Matrix: Water Instrument ID: Skalar_San+

Method: 9012B MDL Date: 09/16/2022 12:49

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cyanide, Total		0.01	0.0041

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224869-1

SDG Number:

Matrix: Water Instrument ID: Skalar_San+

Method: 9012B XMDL Date: 09/16/2022 12:48

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.0041

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: SEAL 1 Method: 350.1

Start Date: 10/30/2024 21:36 End Date: 10/31/2024 10:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
ICV 480-730650/1	1		21:36	X																			
ICB 480-730650/2	1		21:38	X																			
CCV 480-730650/3			21:38																				
CCB 480-730650/4			21:39																				
ZZZZZZ (QC)			21:40																				
ZZZZZZ (QC)			21:41																				
ZZZZZZ (Client)			21:41																				
ZZZZZZ (QC)			21:43																				
ZZZZZZ (QC)			21:43																				
ZZZZZZ (Client)			21:45																				
ZZZZZZ (Client)			21:46																				
ZZZZZZ (Client)			21:46																				
ZZZZZZ (Client)			21:48																				
CCV 480-730650/14			21:48																				
CCB 480-730650/15			21:49																				
ZZZZZZ (Client)			21:50																				
ZZZZZZ (QC)			21:51																				
ZZZZZZ (Client)			21:51																				
ZZZZZZ (Client)			21:53																				
ZZZZZZ (Client)			21:53																				
ZZZZZZ (Client)			21:55																				
CCV 480-730650/22			21:55																				
CCB 480-730650/23			21:56																				
ZZZZZZ (QC)			21:57																				
ZZZZZZ (QC)			21:58																				
ZZZZZZ (Client)			21:58																				
ZZZZZZ (QC)			22:00																				
ZZZZZZ (QC)			22:00																				
ZZZZZZ (Client)			22:01																				
ZZZZZZ (Client)			22:02																				
ZZZZZZ (Client)			22:03																				
ZZZZZZ (Client)			22:03																				
ZZZZZZ (Client)			22:05																				
CCV 480-730650/34			22:05																				
CCB 480-730650/35			22:06																				
ZZZZZZ (Client)			22:07																				
ZZZZZZ (QC)			22:08																				
ZZZZZZ (Client)			22:08																				
ZZZZZZ (Client)			22:10																				
ZZZZZZ (Client)			22:10																				
ZZZZZZ (Client)			22:12																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: SEAL 1 Method: 350.1

Start Date: 10/30/2024 21:36 End Date: 10/31/2024 10:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
CCV 480-730650/42			22:12																				
CCB 480-730650/43			22:13																				
ZZZZZZ (QC)			22:15																				
ZZZZZZ (QC)			22:15																				
ZZZZZZ (Client)			22:15																				
ZZZZZZ (QC)			22:17																				
ZZZZZZ (QC)			22:17																				
ZZZZZZ (Client)			22:18																				
ZZZZZZ (Client)			22:19																				
ZZZZZZ (Client)			22:20																				
ZZZZZZ (Client)			22:20																				
ZZZZZZ (Client)			22:22																				
CCV 480-730650/54			22:22																				
CCB 480-730650/55			22:23																				
ZZZZZZ (Client)			22:24																				
ZZZZZZ (QC)			22:25																				
ZZZZZZ (Client)			22:25																				
ZZZZZZ (Client)			22:27																				
ZZZZZZ (Client)			22:27																				
ZZZZZZ (Client)			22:28																				
ZZZZZZ (Client)			22:29																				
CCV 480-730650/63	1		22:30	X																			
CCB 480-730650/64	1		22:30	X																			
MB 480-730650/65	1	T	22:32	X																			
LCS 480-730650/66	1	T	22:32	X																			
ZZZZZZ (Client)			22:32																				
ZZZZZZ (QC)			22:34																				
ZZZZZZ (QC)			22:34																				
ZZZZZZ (Client)			22:35																				
ZZZZZZ (Client)			22:36																				
ZZZZZZ (Client)			22:37																				
ZZZZZZ (Client)			22:37																				
ZZZZZZ (Client)			22:39																				
CCV 480-730650/75	1		22:39	X																			
CCB 480-730650/76	1		22:40	X																			
CCV 480-730650/77	1		22:56	X																			
CCB 480-730650/78	1		22:57	X																			
480-224869-10	1	T	22:58	X																			
480-224869-10 MS	1	T	22:59	X																			
480-224869-11	1	T	22:59	X																			
480-224869-13	1	T	23:01	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: SEAL 1 Method: 350.1

Start Date: 10/30/2024 21:36 End Date: 10/31/2024 10:12

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
480-224869-14	1	T	23:02	X																			
480-224869-15	1	T	23:03	X																			
CCV 480-730650/85	1		23:04	X																			
CCB 480-730650/86	1		23:04	X																			
MB 480-730650/87	1	T	23:06	X																			
LCS 480-730650/88	1	T	23:06	X																			
480-224869-16	1	T	23:07	X																			
480-224869-16 MS	1	T	23:08	X																			
480-224869-16 MSD	1	T	23:09	X																			
CCV 480-730650/92	1		23:09	X																			
CCB 480-730650/93	1		23:11	X																			
ZZZZZZ (QC)			23:11																				
ZZZZZZ (QC)			23:11																				
ICV 480-730650/96	1		23:26	X																			
ICB 480-730650/97	1		23:28	X																			
CCV 480-730650/98	1		23:28	X																			
CCB 480-730650/99	1		23:29	X																			
MB 480-730650/100	1	T	23:30	X																			
LCS 480-730650/101	1	T	23:31	X																			
ZZZZZZ (Client)			23:33																				
480-224869-12	5	T	23:36	X																			
CCV 480-730650/104	1		23:36	X																			
CCB 480-730650/105	1		23:38	X																			
ZZZZZZ (QC)			23:38																				
ZZZZZZ (QC)			23:38																				
ICV 480-730650/108	1		23:53	X																			
ICB 480-730650/109	1		23:54	X																			
CCV 480-730650/110			23:55																				
CCB 480-730650/111			23:55																				
ZZZZZZ (QC)			23:57																				
ZZZZZZ (QC)			23:57																				
CCV 480-730650/114	1		00:00	X																			
CCB 480-730650/115	1		00:02	X																			
MB 480-730650/116	1	T	00:02	X																			
LCS 480-730650/117	1	T	00:02	X																			
CCV 480-730650/118	1		09:52	X																			
CCB 480-730650/119	1		09:54	X																			
ZZZZZZ (Client)			09:54																				
ZZZZZZ (Client)			09:55																				
ZZZZZZ (Client)			09:56																				
ZZZZZZ (QC)			09:57																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: SEAL 1 Method: 350.1

Start Date: 10/30/2024 21:36 End Date: 10/31/2024 10:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
ZZZZZZ (Client)			09:57																				
ZZZZZZ (Client)			09:59																				
480-224869-1	1	T	09:59	X																			
480-224869-2	1	T	10:00	X																			
480-224869-3	500	T	10:01	X																			
CCV 480-730650/129	1		10:02	X																			
CCB 480-730650/130	1		10:02	X																			
MB 480-730650/131	1	T	10:04	X																			
LCS 480-730650/132	1	T	10:04	X																			
480-224869-4	1	T	10:05	X																			
480-224869-4 MS	1	T	10:06	X																			
480-224869-4 MSD	1	T	10:07	X																			
480-224869-5	1	T	10:07	X																			
480-224869-6	1	T	10:09	X																			
480-224869-7	1	T	10:09	X																			
480-224869-8	1	T	10:09	X																			
480-224869-9	5	T	10:11	X																			
CCV 480-730650/141	1		10:11	X																			
CCB 480-730650/142	1		10:12	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: SEAL 1 Method: 350.1

Start Date: 10/31/2024 00:18 End Date: 10/31/2024 10:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
ICV 480-730651/1	1		00:18	X																			
ICB 480-730651/2	1		00:20	X																			
CCV 480-730651/3	1		00:20	X																			
CCB 480-730651/4	1		00:20	X																			
MB 480-730651/5	1	T	00:22	X																			
LCS 480-730651/6	1	T	00:22	X																			
480-224869-17	1	T	00:23	X																			
480-224869-17 MS	1	T	00:24	X																			
480-224869-17 MSD	1	T	00:25	X																			
480-224869-18	1	T	00:25	X																			
480-224869-20	1	T	00:27	X																			
480-224869-21	1	T	00:28	X																			
480-224869-22	1	T	00:29	X																			
CCV 480-730651/14	1		00:30	X																			
CCB 480-730651/15	1		00:30	X																			
480-224869-23	1	T	00:32	X																			
480-224869-23 MS	1	T	00:32	X																			
480-224869-24	1	T	00:33	X																			
480-224869-25	1	T	00:34	X																			
ZZZZZZ (Client)			00:35																				
ZZZZZZ (Client)			00:37																				
CCV 480-730651/22	1		00:37	X																			
CCB 480-730651/23	1		00:37	X																			
ZZZZZZ (QC)			00:39																				
ZZZZZZ (QC)			00:40																				
ZZZZZZ (Client)			00:40																				
ZZZZZZ (QC)			00:42																				
ZZZZZZ (QC)			00:42																				
ZZZZZZ (Client)			00:42																				
ZZZZZZ (Client)			00:44																				
ZZZZZZ (Client)			00:44																				
ZZZZZZ (Client)			00:45																				
ZZZZZZ (Client)			00:46																				
CCV 480-730651/34			00:47																				
CCB 480-730651/35			00:47																				
ZZZZZZ (Client)			00:49																				
ZZZZZZ (QC)			00:49																				
ZZZZZZ (Client)			00:50																				
ZZZZZZ (Client)			00:51																				
ZZZZZZ (Client)			00:52																				
ZZZZZZ (Client)			00:52																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: SEAL 1 Method: 350.1

Start Date: 10/31/2024 00:18 End Date: 10/31/2024 10:32

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
ZZZZZZ (Client)			00:54																				
CCV 480-730651/43			00:54																				
CCB 480-730651/44			00:54																				
ZZZZZZ (QC)			00:56																				
ZZZZZZ (QC)			00:56																				
ICV 480-730651/47			01:11																				
ICB 480-730651/48			01:13																				
CCV 480-730651/49			01:13																				
CCB 480-730651/50			01:14																				
ZZZZZZ (QC)			01:15																				
ZZZZZZ (QC)			01:16																				
CCV 480-730651/53			01:18																				
CCB 480-730651/54			01:18																				
ZZZZZZ (QC)			01:20																				
ZZZZZZ (QC)			01:20																				
ICV 480-730651/57	1		01:35	X																			
ICB 480-730651/58	1		01:36	X																			
CCV 480-730651/59	1		01:37	X																			
CCB 480-730651/60	1		01:37	X																			
MB 480-730651/61	1	T	01:39	X																			
LCS 480-730651/62	1	T	01:39	X																			
480-224869-19	25.71	T	01:40	X																			
CCV 480-730651/64	1		01:42	X																			
CCB 480-730651/65	1		01:42	X																			
ZZZZZZ (QC)			01:44																				
ZZZZZZ (QC)			01:44																				
CCV 480-730651/68			10:28																				
CCB 480-730651/69			10:29																				
ZZZZZZ (Client)			10:30																				
CCV 480-730651/71			10:30																				
CCB 480-730651/72			10:32																				

Prep Types
T = Total/NA

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/29/2024 07:09 End Date: 10/29/2024 15:38

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ			07:09																				
ZZZZZZ			07:13																				
ZZZZZZ			07:18																				
ZZZZZZ			07:22																				
IC 480-730337/5			07:26	X																			
IC 480-730337/6			07:28	X																			
IC 480-730337/7			07:32	X																			
IC 480-730337/8			07:35	X																			
IC 480-730337/9			07:39	X																			
IC 480-730337/10			07:42	X																			
IC 480-730337/11			07:45	X																			
IC 480-730337/12			07:48	X																			
ZZZZZZ			07:52																				
ZZZZZZ			07:55																				
ICV 480-730337/15	1		08:00	X																			
ICB 480-730337/16	1		08:02	X																			
CCV 480-730337/17	1		08:05	X																			
CCB 480-730337/18	1		08:08	X																			
ZZZZZZ			08:12																				
ZZZZZZ			08:15																				
ZZZZZZ (QC)			08:20																				
HLCS 480-730337/22	1	T	08:22	X																			
ZZZZZZ (QC)			08:25																				
ZZZZZZ			08:29																				
ZZZZZZ (Client)			08:32																				
ZZZZZZ (QC)			08:35																				
ZZZZZZ (Client)			08:39																				
ZZZZZZ (Client)			08:42																				
CCV 480-730337/29	1		08:45	X																			
CCB 480-730337/30	1		08:48	X																			
ZZZZZZ			08:52																				
ZZZZZZ			08:55																				
ZZZZZZ (Client)			09:00																				
ZZZZZZ (QC)			09:01																				
ZZZZZZ (QC)			09:05																				
ZZZZZZ (Client)			09:09																				
ZZZZZZ (Client)			09:12																				
ZZZZZZ (Client)			09:15																				
ZZZZZZ (Client)			09:18																				
ZZZZZZ (Client)			09:22																				
ZZZZZZ (Client)			09:25																				

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/29/2024 07:09 End Date: 10/29/2024 15:38

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ (Client)			09:28																				
CCV 480-730337/43			09:32																				
CCB 480-730337/44			09:35																				
ZZZZZZ			09:39																				
ZZZZZZ			09:42																				
ZZZZZZ (QC)			09:46																				
ZZZZZZ (QC)			09:48																				
ZZZZZZ (Client)			09:52																				
ZZZZZZ (QC)			09:55																				
ZZZZZZ (Client)			09:59																				
ZZZZZZ (Client)			10:02																				
ZZZZZZ (Client)			10:05																				
ZZZZZZ (Client)			10:08																				
ZZZZZZ (Client)			10:12																				
ZZZZZZ (Client)			10:15																				
CCV 480-730337/57			10:18																				
CCB 480-730337/58			10:22																				
ZZZZZZ			10:25																				
ZZZZZZ			10:29																				
ZZZZZZ (Client)			10:33																				
ZZZZZZ (Client)			10:35																				
ZZZZZZ (Client)			10:39																				
ZZZZZZ (Client)			10:42																				
ZZZZZZ (Client)			10:45																				
ZZZZZZ (Client)			10:48																				
ZZZZZZ (QC)			10:52																				
ZZZZZZ (QC)			10:55																				
ZZZZZZ (Client)			10:59																				
ZZZZZZ (Client)			11:02																				
CCV 480-730337/71			11:05																				
CCB 480-730337/72			11:08																				
ZZZZZZ			11:12																				
ZZZZZZ			11:15																				
ZZZZZZ (QC)			11:20																				
ZZZZZZ (QC)			11:22																				
ZZZZZZ (Client)			11:25																				
ZZZZZZ (QC)			11:29																				
ZZZZZZ (Client)			11:32																				
ZZZZZZ (Client)			11:35																				
ZZZZZZ (Client)			11:39																				
ZZZZZZ (Client)			11:42																				

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/29/2024 07:09 End Date: 10/29/2024 15:38

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ (Client)			11:45																				
ZZZZZZ (Client)			11:49																				
CCV 480-730337/85			11:52																				
CCB 480-730337/86			11:55																				
ZZZZZZ			11:59																				
ZZZZZZ			12:02																				
ZZZZZZ (Client)			12:06																				
ZZZZZZ (Client)			12:09																				
ZZZZZZ (QC)			12:12																				
ZZZZZZ (QC)			12:15																				
ZZZZZZ (Client)			12:19																				
ZZZZZZ (Client)			12:22																				
ZZZZZZ (Client)			12:25																				
ZZZZZZ (Client)			12:29																				
ZZZZZZ (Client)			12:32																				
ZZZZZZ (Client)			12:35																				
CCV 480-730337/99	1		12:39	X																			
CCB 480-730337/100	1		12:42	X																			
ZZZZZZ			12:45																				
ZZZZZZ			12:49																				
MB 480-730337/103	1	T	12:53	X																			
LCS 480-730337/104	1	T	12:55	X																			
ZZZZZZ (Client)			12:59																				
ZZZZZZ (QC)			13:02																				
ZZZZZZ (QC)			13:05																				
ZZZZZZ (Client)			13:09																				
ZZZZZZ (Client)			13:12																				
ZZZZZZ (Client)			13:15																				
ZZZZZZ (Client)			13:19																				
ZZZZZZ (Client)			13:22																				
CCV 480-730337/113	1		13:25	X																			
CCB 480-730337/114	1		13:29	X																			
ZZZZZZ			13:32																				
ZZZZZZ			13:36																				
ZZZZZZ (Client)			13:40																				
ZZZZZZ (QC)			13:42																				
ZZZZZZ (Client)			13:46																				
ZZZZZZ (Client)			13:49																				
480-224869-5	1	T	13:52	X																			
ZZZZZZ (Client)			13:55																				
ZZZZZZ (Client)			13:59																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/29/2024 07:09 End Date: 10/29/2024 15:38

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
480-224869-10	1	T	14:02	X																			
480-224869-11	1	T	14:05	X																			
ZZZZZZ (Client)			14:09																				
CCV 480-730337/127	1		14:12	X																			
CCB 480-730337/128	1		14:16	X																			
ZZZZZZ			14:19																				
ZZZZZZ			14:24																				
ZZZZZZ (QC)			14:30																				
ZZZZZZ (QC)			14:32																				
ZZZZZZ (Client)			14:35																				
ZZZZZZ (QC)			14:38																				
ZZZZZZ (QC)			14:41																				
ZZZZZZ (Client)			14:44																				
ZZZZZZ (Client)			14:47																				
ZZZZZZ (Client)			14:51																				
ZZZZZZ (Client)			14:54																				
ZZZZZZ (Client)			14:57																				
CCV 480-730337/141			15:01																				
CCB 480-730337/142			15:04																				
ZZZZZZ			15:07																				
ZZZZZZ			15:11																				
ZZZZZZ (Client)			15:15																				
ZZZZZZ (QC)			15:17																				
ZZZZZZ (Client)			15:21																				
CCV 480-730337/148			15:24																				
CCB 480-730337/149			15:27																				
ZZZZZZ			15:31																				
ZZZZZZ			15:34																				
ZZZZZZ			15:38																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/30/2024 07:05 End Date: 10/30/2024 13:36

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ			07:05																				
ZZZZZZ			07:09																				
ZZZZZZ			07:14																				
ZZZZZZ			07:18																				
IC 480-730502/5			07:22	X																			
IC 480-730502/6			07:24	X																			
IC 480-730502/7			07:28	X																			
IC 480-730502/8			07:31	X																			
IC 480-730502/9			07:34	X																			
IC 480-730502/10			07:38	X																			
IC 480-730502/11			07:41	X																			
IC 480-730502/12			07:44	X																			
ZZZZZZ			07:48																				
ZZZZZZ			07:51																				
ICV 480-730502/15	1		07:56	X																			
ICB 480-730502/16	1		07:58	X																			
CCV 480-730502/17	1		08:01	X																			
CCB 480-730502/18	1		08:04	X																			
ZZZZZZ			08:08																				
ZZZZZZ			08:11																				
MB 480-730502/21	1	T	08:16	X																			
HLCS 480-730502/22	1	T	08:18	X																			
LCS 480-730502/23	1	T	08:21	X																			
ZZZZZZ			08:24																				
480-224869-14	1	T	08:28	X																			
480-224869-14 MS	1	T	08:31	X																			
480-224869-1	5	T	08:34	X																			
480-224869-3	5	T	08:38	X																			
CCV 480-730502/29	1		08:41	X																			
CCB 480-730502/30	1		08:45	X																			
ZZZZZZ			08:48																				
ZZZZZZ			08:51																				
480-224869-15	1	T	08:56	X																			
480-224869-15 DU	1	T	08:58	X																			
480-224869-15 MS	1	T	09:01	X																			
480-224869-7	5	T	09:04	X																			
480-224869-9	2	T	09:08	X																			
480-224869-12	5	T	09:11	X																			
480-224869-16	1	T	09:14	X																			
480-224869-17	1	T	09:18	X																			
480-224869-18	1	T	09:21	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/30/2024 07:05 End Date: 10/30/2024 13:36

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ (Client)			09:24																				
ZZZZZZ			09:28																				
CCV 480-730502/44	1		09:32	X																			
CCB 480-730502/45	1		09:34	X																			
ZZZZZZ			09:38																				
ZZZZZZ			09:41																				
MB 480-730502/48	1	T	09:46	X																			
LCS 480-730502/49	1	T	09:48	X																			
480-224869-24	1	T	09:51	X																			
480-224869-24 MS	1	T	09:55	X																			
ZZZZZZ (Client)			09:58																				
ZZZZZZ (Client)			10:01																				
ZZZZZZ (Client)			10:05																				
ZZZZZZ (Client)			10:08																				
ZZZZZZ (Client)			10:11																				
ZZZZZZ (Client)			10:15																				
CCV 480-730502/58	1		10:18	X																			
CCB 480-730502/59	1		10:21	X																			
ZZZZZZ			10:24																				
ZZZZZZ			10:28																				
ZZZZZZ (Client)			10:33																				
ZZZZZZ (QC)			10:34																				
ZZZZZZ (QC)			10:38																				
ZZZZZZ (Client)			10:41																				
ZZZZZZ (Client)			10:44																				
ZZZZZZ (Client)			10:48																				
ZZZZZZ (Client)			10:51																				
ZZZZZZ (Client)			10:54																				
ZZZZZZ (Client)			10:58																				
ZZZZZZ (Client)			11:01																				
CCV 480-730502/72	1		11:04	X																			
CCB 480-730502/73	1		11:08	X																			
ZZZZZZ			11:11																				
ZZZZZZ			11:14																				
MB 480-730502/76	1	T	11:19	X																			
LCS 480-730502/77	1	T	11:21	X																			
ZZZZZZ (Client)			11:25																				
ZZZZZZ (QC)			11:27																				
ZZZZZZ (Client)			11:31																				
ZZZZZZ (Client)			11:34																				
ZZZZZZ (Client)			11:38																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Instrument ID: Skalar_San+ Method: 9012B

Start Date: 10/30/2024 07:05 End Date: 10/30/2024 13:36

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ (Client)			11:41																				
ZZZZZZ (Client)			11:45																				
ZZZZZZ (Client)			11:48																				
CCV 480-730502/86	1		11:51	X																			
CCB 480-730502/87	1		11:55	X																			
ZZZZZZ			11:58																				
ZZZZZZ			12:01																				
ZZZZZZ (Client)			12:06																				
ZZZZZZ (QC)			12:08																				
ZZZZZZ (QC)			12:11																				
ZZZZZZ (Client)			12:15																				
ZZZZZZ (Client)			12:18																				
ZZZZZZ (Client)			12:21																				
ZZZZZZ (Client)			12:25																				
ZZZZZZ (Client)			12:28																				
ZZZZZZ (Client)			12:31																				
480-224869-25	50	T	12:35	X																			
CCV 480-730502/100	1		12:38	X																			
CCB 480-730502/101	1		12:41	X																			
ZZZZZZ			12:45																				
ZZZZZZ			12:48																				
ZZZZZZ (QC)			12:53																				
ZZZZZZ (QC)			12:54																				
ZZZZZZ (Client)			12:58																				
ZZZZZZ (QC)			13:01																				
ZZZZZZ (QC)			13:05																				
ZZZZZZ (Client)			13:08																				
ZZZZZZ (Client)			13:11																				
ZZZZZZ			13:15																				
ZZZZZZ			13:18																				
CCV 480-730502/113			13:22																				
CCB 480-730502/114			13:25																				
ZZZZZZ			13:28																				
ZZZZZZ			13:31																				
ZZZZZZ			13:36																				

Prep Types
T = Total/NA

730650

Ammonia 350.1

Nitrogen 1000mg/L Std CAL	7622623	Expires 12/31/24
Ammonia as N 1000mg/L Std CCV/LCS/ICV	7613429	Expires 04/27/25
Matrix Spike Int Std	8142979	Expires 11/05/24
Sodium Nitroferricyanide	8094597	Expires 11/05/24
Alkaline Phenol	8140007	Expires 11/12/24
5% EDTA Buffer	8094596	Expires 11/05/24
Sulfuric Acid Carrier	8143456	Expires 10/31/24
Sodium Hypochlorite	7927334	Expires 05/08/25
NH3 CCV/ICV 1.0ppm Std	8143457	Expires 10/31/24

ICV = 1.0ppm
LCS/CCV = 1.0ppm
MS/MSD = 0.1ppm

Distilled LCS/CCV = 1.0ppm
Distilled MS/MSD = 0.5ppm

Residual Chlorine check of samples: Initials AM Date: 10-30-24

Residual Chlorine Strip Lot Number (If used) 42402

AM 10-31-24

AQ700 Water Baselines

SEAL Analytical

Software version: 2.5.1K5
User name: militelloA
Time and Date: 2024-10-31 11:39:09

Filter Number	Filter	Previous water baselines	Current Water baselines
1	405	4.7792 v (Gain = 233)	4.7374 v (Gain = 233)
2	450	4.7093 v (Gain = 192)	4.6701 v (Gain = 192)
3	480	4.6942 v (Gain = 178)	4.6596 v (Gain = 178)
4	505	4.6961 v (Gain = 182)	4.6626 v (Gain = 182)
5	520	4.6709 v (Gain = 160)	4.6754 v (Gain = 161)
6	546	4.7187 v (Gain = 195)	4.6878 v (Gain = 195)
7	578	4.7112 v (Gain = 179)	4.6816 v (Gain = 179)
8	660	4.6930 v (Gain = 169)	4.6698 v (Gain = 169)
9	880	4.6977 v (Gain = 159)	4.6876 v (Gain = 159)
10	Dark	0.0275 v	0.0276 v
Time & Date		**2024-10-30 10:07:52**	**2024-10-31 09:05:33**

AM 10-31-24

Standard report

SEAL Analytical

Software version:	2.5.1K5
User name:	militelloA
Time and Date:	2024-10-31 11:39:05
Tray number:	3
Tray name:	24.10.30 (C)nh3-1
Instrument serial number:	070034
Instrument name:	AQ700

NH3

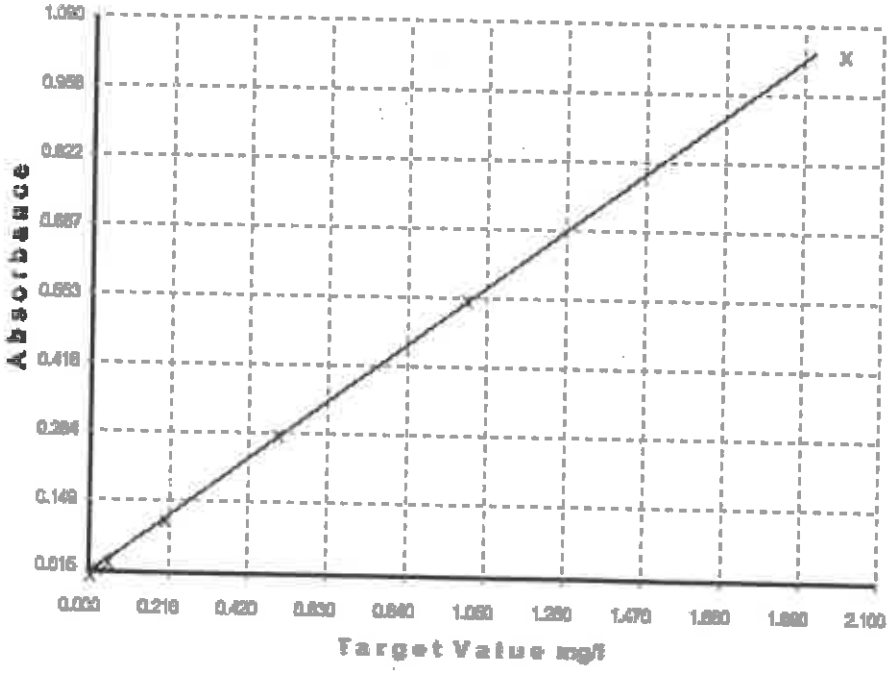
Calibration data

ID	Absorbance	Calc mg/L	Target mg/L	% Error
S95	1.0386	1.921	2.000	-3.9719
S94	0.5554	1.013	1.000	1.3464
S93	0.2885	0.512	0.500	2.4671
S92	0.1219	0.199	0.200	-0.2584
S91	0.0425	0.050	0.050	0.8641
S90	0.0274	0.022	0.022	-0.4473
S1	0.0148	-0.002	0.000	
*89	1.0259	1.897	2.000	-5.1619
S0	0.0148	-0.002	0.000	

Calibration status

Polynomial order	1
Correlation coefficient	0.9996
RSE (%)	2.48
Carryover(%)	-0.0
Calibration equation	y = bx + a
y =	Concentration mg/L
x =	Measured absorbance
a =	-2.933409E-02
b =	1.877495E+00
Original Date & Time	2024-10-10 16:03:01

Calibration graph



Standard report

SEAL Analytical

Reagents

Number	Reagent name	Batch number	User	Expiry date
1	NH3 EDTA Buffer			
2	NH3 phenol			
3	Nh3 Hypo			
4	Nh3 nitro			
21	NH3 ccb (Blank)			

Test results

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
	ICV	ICV		0.944	mg/L	0.518616				AM	2024-10-30 21:36:32
	ICB	ICB		-0.001	mg/L	0.015201				AM	2024-10-30 21:37:56
	CCV	CCV		0.949	mg/L	0.521011				AM	2024-10-30 21:38:20
	CCB	CCB		0.001	mg/L	0.016223				AM	2024-10-30 21:39:20
	MB	MB		0.004	mg/L	0.017879				AM	2024-10-30 21:40:57
	LCS	LCS		0.972	mg/L	0.533231				AM	2024-10-30 21:41:21
1	U1	480-224498-C-11		4.106	mg/L	0.452987		x5.0000		AM	2024-10-30 21:41:46
2	SPKA	Auto Spike	480-224498-C-11	4.363	mg/L	0.570839	128.54	x5.0000		AM	2024-10-30 21:43:23
3	SPKD	Spike duplicate	480-224498-C-11	4.322	mg/L	0.549791	108.10 (0.94)	x5.0000		AM	2024-10-30 21:43:47
4	U2	480-224613-F-4		9.305 ELH	mg/L	4.971950				AM	2024-10-30 21:44:12
5	U3	480-224659-C-10		0.023	mg/L	0.027789				AM	2024-10-30 21:45:48
6	U4	480-224679-C-1		452.879	mg/L	0.498053		x5.0000	x100.0000	AM	2024-10-30 21:46:13
7	U5	480-224695-A-6		0.135	mg/L	0.087737				AM	2024-10-30 21:46:38
8	U6	480-224695-A-7		0.118	mg/L	0.078357				AM	2024-10-30 21:48:15
	CCV	CCV		0.986	mg/L	0.540807				AM	2024-10-30 21:48:39
	CCB	CCB		0.010	mg/L	0.020934				AM	2024-10-30 21:49:03
9	U7	480-224704-C-2		0.159	mg/L	0.100374				AM	2024-10-30 21:50:40
10	SPKA	Auto Spike	480-224704-C-2	0.273	mg/L	0.156386	57.12			AM	2024-10-30 21:51:05
11	U8	480-224704-C-5		0.192	mg/L	0.117996				AM	2024-10-30 21:52:03
12	U9	480-224704-C-7		0.434	mg/L	0.246593				AM	2024-10-30 21:53:06
13	U10	480-224726-A-1		-0.014 ELL	mg/L	0.008033				AM	2024-10-30 21:53:31
14	U11	480-224726-A-2		2.095 ELH	mg/L	1.131348				AM	2024-10-30 21:53:55
15	U12	480-224726-A-3		-0.011 ELL	mg/L	0.009976				AM	2024-10-30 21:55:32
	CCV	CCV		0.952	mg/L	0.522889				AM	2024-10-30 21:55:57
	CCB	CCB		-0.001	mg/L	0.015235				AM	2024-10-30 21:56:22
	MB	MB		-0.001	mg/L	0.014843				AM	2024-10-30 21:57:59
	LCS	LCS		0.945	mg/L	0.518720				AM	2024-10-30 21:58:24
16	U13	480-224704-C-4		0.039	mg/L	0.036629				AM	2024-10-30 21:58:48
17	SPKA	Auto Spike	480-224704-C-4	0.146	mg/L	0.090833	53.31			AM	2024-10-30 22:00:25
18	SPKD	Spike duplicate	480-224704-C-4	0.157	mg/L	0.096614	58.92 (7.40)			AM	2024-10-30 22:00:49
19	U14	480-224726-A-5		0.470	mg/L	0.266148				AM	2024-10-30 22:01:14
20	U15	480-224726-A-8		0.432	mg/L	0.245964				AM	2024-10-30 22:01:41
21	U16	480-224726-A-10		0.165	mg/L	0.103608				AM	2024-10-30 22:02:10
22	U17	480-224732-B-1		0.014	mg/L	0.023293				AM	2024-10-30 22:04:46
23	U18	480-224732-B-2		0.330	mg/L	0.191355				AM	2024-10-30 22:05:07

Standard report

SEAL Analytical

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
	CCV	CCV		0.978	mg/L	0.536387				AM	2024-10-30 22:05:42
	CCB	CCB		-0.001	mg/L	0.015202				AM	2024-10-30 22:06:07
24	U19	480-224765-B-1		-0.012 ELL	mg/L	0.009149				AM	2024-10-30 22:07:43
25	SPKA	Auto Spike	480-224765-B-1	0.081	mg/L	0.057524	46.76			AM	2024-10-30 22:08:08
26	U20	480-224765-B-2		0.033	mg/L	0.033121				AM	2024-10-30 22:08:33
27	U21	480-224765-B-3		0.008	mg/L	0.019709				AM	2024-10-30 22:10:10
28	U22	480-224765-B-4		0.727	mg/L	0.402919				AM	2024-10-30 22:10:34
29	U23	480-224783-A-2		9.372 ELH	mg/L	5.007485				AM	2024-10-30 22:10:58
30	U24	480-224785-C-1		0.763	mg/L	0.421751				AM	2024-10-30 22:12:35
	CCV	CCV		0.989	mg/L	0.542172				AM	2024-10-30 22:12:59
	CCB	CCB		0.003	mg/L	0.017134				AM	2024-10-30 22:13:24
	MB	MB		0.003	mg/L	0.017463				AM	2024-10-30 22:[illegible]
	LCS	LCS		0.951	mg/L	0.522293				AM	2024-10-30 22:[illegible]
31	U25	480-224840-C-14		0.001	mg/L	0.016357				AM	2024-10-30 22:[illegible]
32	SPKA	Auto Spike	480-224840-C-14	0.126	mg/L	0.080261	62.07			AM	2024-10-30 22:17:23
33	SPKD	Spike duplicate	480-224840-C-14	0.142	mg/L	0.088941	70.50 (12.59)			AM	2024-10-30 22:17:[illegible]
34	U26	480-224840-C-15		0.014	mg/L	0.022916				AM	2024-10-30 22:18:17
35	U27	480-224797-A-2		-0.014 ELL	mg/L	0.008420				AM	2024-10-30 22:19:54
36	U28	480-224797-A-10		0.012	mg/L	0.022250				AM	2024-10-30 22:20:19
37	U29	480-224797-A-14		0.096	mg/L	0.066817				AM	2024-10-30 22:20:44
38	U30	480-224797-A-11		0.045	mg/L	0.039807				AM	2024-10-30 22:22:20
	CCV	CCV		0.932	mg/L	0.511971				AM	2024-10-30 22:22:44
	CCB	CCB		-0.004	mg/L	0.013729				AM	2024-10-30 22:23:09
39	U31	480-224802-C-1		0.308	mg/L	0.179939				AM	2024-10-30 22:24:47
40	SPKA	Auto Spike	480-224802-C-1	0.390	mg/L	0.216571	40.87			AM	2024-10-30 22:25:11
41	U32	480-224810-A-2		0.163	mg/L	0.102335				AM	2024-10-30 22:25:36
42	U33	480-224810-A-3		0.264	mg/L	0.156395				AM	2024-10-30 22:27:13
43	U34	480-224810-A-4		0.228	mg/L	0.137268				AM	2024-10-30 22:[illegible]
44	U35	480-224810-A-5		-0.006 ELL	mg/L	0.012186				AM	2024-10-30 22:[illegible]
45	U36	480-224810-A-6		0.163	mg/L	0.102687				AM	2024-10-30 22:[illegible]
	CCV	CCV		0.939	mg/L	0.515979				AM	2024-10-30 22:30:[illegible]
	CCB	CCB		-0.003	mg/L	0.013761				AM	2024-10-30 22:30:38
	MB	MB		-0.003	mg/L	0.013820				AM	2024-10-30 22:33:05
	LCS	LCS		0.957	mg/L	0.525563				AM	2024-10-30 22:33:30
46	U37	480-224802-C-2		0.574	mg/L	0.321465				AM	2024-10-30 22:33:55
47	SPKA	Auto Spike	480-224802-C-2	0.633	mg/L	0.341386	29.21			AM	2024-10-30 22:34:32
48	SPKD	Spike duplicate	480-224802-C-2	0.613	mg/L	0.331103	19.22 (3.21)			AM	2024-10-30 22:34:57
49	U38	480-224810-A-7		0.007	mg/L	0.019244				AM	2024-10-30 22:36:23
50	U39	480-224810-A-8		0.125	mg/L	0.082206				AM	2024-10-30 22:36:98
51	U40	480-224810-A-9		0.157	mg/L	0.099055				AM	2024-10-30 22:37:[illegible]
52	U41	480-224810-A-10		-0.010 ELL	mg/L	0.010505				AM	2024-10-30 22:37:48
53	U42	480-224810-A-11		0.116	mg/L	0.077261				AM	2024-10-30 22:38:24
	CCV	CCV		0.935	mg/L	0.513665				AM	2024-10-30 22:39:49
	CCB	CCB		-0.001	mg/L	0.015243				AM	2024-10-30 22:[illegible]
54	U43	480-224848-C-1		0.717	mg/L	0.397521				AM	2024-10-30 22:[illegible]

Standard report

SEAL Analytical

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
55	SPKA	Auto Spike	480-224848-C-1	0.805	mg/L	0.430144	43.99			AM	2024-10-30 22:42:16
56	U44	480-224848-C-2		0.145	mg/L	0.092726				AM	2024-10-30 22:42:41
57	U45	480-224848-C-3		0.314	mg/L	0.183063				AM	2024-10-30 22:44:18
58	U46	480-224869-C-1		1.588	mg/L	0.861661				AM	2024-10-30 22:44:42
59	U47	480-224869-A-2		0.024	mg/L	0.028391				AM	2024-10-30 22:45:09
60	U48	480-224869-C-3		9.596 ELH	mg/L	5.126940				AM	2024-10-30 22:46:45
	CCV	CCV		0.977	mg/L	0.535822				AM	2024-10-30 22:47:08
	CCB	CCB		0.065	mg/L	0.050132				AM	2024-10-30 22:47:34
	MB	MB		0.003	mg/L	0.017021				AM	2024-10-30 22:49:11
	LCS	LCS		0.951	mg/L	0.522053				AM	2024-10-30 22:49:37
61	U49	480-224869-A-4		0.177	mg/L	0.110034				AM	2024-10-30 22:50:02
62	SPKA	Auto Spike	480-224869-A-4	0.301	mg/L	0.170569	61.82			AM	2024-10-30 22:[illegible]
63	SPKD	Spike duplicate	480-224869-A-4	0.283	mg/L	0.161122	27.88 (6.29)			AM	2024-10-30 22:[illegible]
64	U50	480-224869-C-5		0.228	mg/L	0.136869				AM	2024-10-30 22:[illegible]
65	U51	480-224869-A-6		0.045	mg/L	0.039455				AM	2024-10-30 22:54:06
66	U52	480-224869-C-7		0.080	mg/L	0.058345				AM	2024-10-30 22:[illegible]
67	U53	480-224869-A-8		-0.004 ELL	mg/L	0.013451				AM	2024-10-30 22:[illegible]
68	U54	480-224869-C-9		3.675 ELH	mg/L	1.973276				AM	2024-10-30 22:56:31
	CCV	CCV		0.954	mg/L	0.523810				AM	2024-10-30 22:56:56
	CCB	CCB		0.001	mg/L	0.015986				AM	2024-10-30 22:[illegible]
69	U55	480-224869-C-10		0.242	mg/L	0.144557				AM	2024-10-30 22:[illegible]
70	SPKA	Auto Spike	480-224869-C-1(	0.302	mg/L	**0.171011**	29.84			AM	2024-10-30 22:[illegible]
71	U56	480-224869-C-11		1.015	mg/L	0.556471				AM	2024-10-30 22:59:46
72	U57	480-224869-C-12		2.579 ELH	mg/L	1.389014				AM	2024-10-30 23:01:26
73	U58	480-224869-C-13		0.200	mg/L	0.121945				AM	2024-10-30 23:01:50
74	U59	480-224869-A-14		0.963	mg/L	**0.528661**				AM	2024-10-30 23:02:14
75	U60	480-224869-A-15		0.249	mg/L	0.148266				AM	2024-10-30 23:03:50
	CCV	CCV		0.937	mg/L	**0.514650**				AM	2024-10-30 23:[illegible]
	CCB	CCB		-0.002	mg/L	0.014337				AM	2024-10-30 23:[illegible]
	MB	MB		-0.001	mg/L	0.015163				AM	2024-10-30 23:[illegible]
	LCS	LCS		0.958	mg/L	0.525883				AM	2024-10-30 23:[illegible]
76	U61	480-224869-A-16		1.100	mg/L	**0.601507**				AM	2024-10-30 23:[illegible]
77	SPKA	Auto Spike	480-224869-A-1(	1.207	mg/L	0.637326	53.67			AM	2024-10-30 23:[illegible]
78	SPKD	Spike duplicate	480-224869-A-1(	1.116	mg/L	0.590248	7.96 (7.87)			AM	2024-10-30 23:[illegible]
	CCV	CCV		0.945	mg/L	0.518806				AM	2024-10-30 23:[illegible]
	CCB	CCB		-0.001	mg/L	0.014959				AM	2024-10-30 23:[illegible]
	MB	MB		-0.003	mg/L	0.013963				AM	2024-10-30 23:[illegible]
	LCS	**LCS**		0.949	mg/L	0.521087				AM	2024-10-30 23:[illegible]
	ICV	ICV		0.937	mg/L	0.514550				AM	2024-10-30 23:[illegible]
	ICB	**ICB**		-0.001	mg/L	0.015090				AM	2024-10-30 23:[illegible]
	CCV	CCV		0.963	mg/L	0.528522				AM	2024-10-30 23:[illegible]
	CCB	CCB		0.007	mg/L	0.019332				AM	2024-10-30 23:[illegible]
	MB	MB		0.015	mg/L	0.023683				AM	2024-10-30 23:[illegible]
	LCS	LCS		0.968	mg/L	**0.531339**				AM	2024-10-30 23:[illegible]
4	U2	480-224613-F-4		46.134 ELH	mg/L	4.929994		x5.0000		AM	2024-10-30 23:[illegible]

Standard report

SEAL Analytical

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
14	U11	480-224726-A-2		4.331	mg/L	0.476983		x5.0000		AM	2024-10-30 23:33:14
29	U23	480-224783-A-2		46.615 ELH	mg/L	4.981328		x5.0000		AM	2024-10-30 23:33:38
60	U48	480-224869-C-3		46.074 ELH	mg/L	4.923619		x5.0000		AM	2024-10-30 23:34:02
68	U54	480-224869-C-9		7.114	mg/L	0.773495		x5.0000		AM	2024-10-30 23:36:38
72	U57	480-224869-C-12		5.050	mg/L	0.553613		x5.0000		AM	2024-10-30 23:36:02
	CCV	CCV		0.947	mg/L	0.519902				AM	2024-10-30 23:36:26
	CCB	CCB		-0.002	mg/L	0.014457				AM	2024-10-30 23:38:02
	MB	MB		-0.001	mg/L	0.015042				AM	2024-10-30 23:38:26
	LCS	LCS		0.939	mg/L	0.515785				AM	2024-10-30 23:38:52
	ICV	ICV		0.946	mg/L	0.519479				AM	2024-10-30 23:53:17
	ICB	ICB		-0.001	mg/L	0.015053				AM	2024-10-30 23:53:53
	CCV	CCV		0.953	mg/L	0.523165				AM	2024-10-30 23:[illegible]
	CCB	CCB		0.000	mg/L	0.015647				AM	2024-10-30 23:[illegible]
	MB	MB		0.001	mg/L	0.015938				AM	2024-10-30 23:[illegible]
	LCS	LCS		0.968	mg/L	0.531262				AM	2024-10-30 23:[illegible]
4	U2	480-224613-F-4		232.012 ELH	mg/L	4.821338		x25.7143		AM	2024-10-30 23:[illegible]
29	U23	480-224783-A-2		135.600 ELH	mg/L	2.824322		x25.7143		AM	2024-10-30 23:59:09
60	U48	480-224869-C-3		234.300 ELH	mg/L	4.868720		x25.7143		AM	2024-10-30 23:59:45
	CCV	CCV		0.953	mg/L	0.523071				AM	2024-10-31 00:00:09
	CCB	CCB		-0.001	mg/L	0.015290				AM	2024-10-31 00:00:33
	MB	MB		-0.001	mg/L	0.015246				AM	2024-10-31 00:00:57
	LCS	LCS		0.948	mg/L	0.520430				AM	2024-10-31 00:01:21
	CCV	CCV		0.931	mg/L	0.511662				AM	2024-10-31 00:01:45
	CCB	CCB		0.003	mg/L	0.017478				AM	2024-10-31 09:[illegible]
4	U2	480-224613-F-4		276.564	mg/L	0.310234		x5.0000	x100.0000	AM	2024-10-31 09:[illegible]
29	U23	480-224783-A-2		151.711	mg/L	0.913460		x90.0000		AM	2024-10-31 09:54:57
54	U43	480-224848-C-1		0.736	mg/L	0.407804				AM	2024-10-31 09:55:21
55	SPKA	Auto Spike	480-224848-C-1	0.755	mg/L	0.404335	9.28			AM	2024-10-31 09:56:58
56	U44	480-224848-C-2		0.152	mg/L	0.096821				AM	2024-10-31 09:[illegible]
57	U45	480-224848-C-3		0.276	mg/L	0.162732				AM	2024-10-31 09:[illegible]
58	U46	480-224869-C-1		1.719	mg/L	0.931386				AM	2024-10-31 09:[illegible]
59	U47	480-224869-A-2		0.005 AVF	mg/L	0.018342				AM	2024-10-31 09:[illegible]
60	U48	480-224869-C-3		223.149	mg/L	0.253333		x5.0000	x100.0000	AM	2024-10-31 10:[illegible]
	CCV	CCV		0.952	mg/L	0.522665				AM	2024-10-31 10:[illegible]
	CCB	CCB		0.003	mg/L	0.017086				AM	2024-10-31 10:[illegible]
	MB	MB		0.002	mg/L	0.016819				AM	2024-10-31 10:[illegible]
	LCS	LCS		0.958	mg/L	0.525736				AM	2024-10-31 10:[illegible]
61	U49	480-224869-A-4		0.166	mg/L	0.103960				AM	2024-10-31 10:[illegible]
62	SPKA	Auto Spike	480-224869-A-4	0.243	mg/L	0.140652	38.48			AM	2024-10-31 10:[illegible]
63	SPKD	Spike duplicate	480-224869-A-4	0.222	mg/L	0.129744	27.88 (9.12)			AM	2024-10-31 10:[illegible]
64	U50	480-224869-C-5		0.179	mg/L	0.110918				AM	2024-10-31 10:[illegible]
65	U51	480-224869-A-6		0.047	mg/L	0.040577				AM	2024-10-31 10:[illegible]
66	U52	480-224869-C-7		0.073	mg/L	0.054630				AM	2024-10-31 10:[illegible]
67	U53	480-224869-A-8		0.000 AVF	mg/L	0.015839				AM	2024-10-31 10:[illegible]
68	U54	480-224869-C-9		7.819	mg/L	0.848546		x5.0000		AM	2024-10-31 10:[illegible]

Standard report

SEAL Analytical

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
	CCV	CCV		0.959	mg/L	0.526585				AM	2024-10-31 10:11:52
	CCB	CCB		0.003	mg/L	0.017064				AM	2024-10-31 10:12:16

Work list

Cup	Type	ID	Details	Tests
1	U1	480-224498-C-11		NH3 x 5.000
2	SPKA	Auto Spike	480-224498-C-11	NH3 x 5.000
3	SPKD	Spike duplicate	480-224498-C-11	NH3 x 5.000
4	U2	480-224613-F-4		NH3
5	U3	480-224659-C-10		NH3
6x100.00	U4	480-224679-C-1		NH3 x 5.000
7	U5	480-224695-A-6		NH3
8	U6	480-224695-A-7		NH3
9	U7	480-224704-C-2		NH3
10	SPKA	Auto Spike	480-224704-C-2	NH3
11	U8	480-224704-C-5		NH3
12	U9	480-224704-C-7		NH3
13	U10	480-224726-A-1		NH3
14	U11	480-224726-A-2		NH3
15	U12	480-224726-A-3		NH3
16	U13	480-224704-C-4		NH3
17	SPKA	Auto Spike	480-224704-C-4	NH3
18	SPKD	Spike duplicate	480-224704-C-4	NH3
19	U14	480-224726-A-5		NH3
20	U15	480-224726-A-8		NH3
21	U16	480-224726-A-10		NH3
22	U17	480-224732-B-1		NH3
23	U18	480-224732-B-2		NH3
24	U19	480-224765-B-1		NH3
25	SPKA	Auto Spike	480-224765-B-1	NH3
26	U20	480-224765-B-2		NH3
27	U21	480-224765-B-3		NH3
28	U22	480-224765-B-4		NH3
29	U23	480-224783-A-2		NH3
30	U24	480-224785-C-1		NH3
31	U25	480-224840-C-14		NH3
32	SPKA	Auto Spike	480-224840-C-14	NH3
33	SPKD	Spike duplicate	480-224840-C-14	NH3
34	U26	480-224840-C-15		NH3
35	U27	480-224797-A-2		NH3
36	U28	480-224797-A-10		NH3
37	U29	480-224797-A-14		NH3
38	U30	480-224797-A-11		NH3
39	U31	480-224802-C-1		NH3
40	SPKA	Auto Spike	480-224802-C-1	NH3

Standard report

SEAL Analytical

Cup	Type	ID	Details	Tests
41	U32	480-224810-A-2		NH3
42	U33	480-224810-A-3		NH3
43	U34	480-224810-A-4		NH3
44	U35	480-224810-A-5		NH3
45	U36	480-224810-A-6		NH3
46	U37	480-224802-C-2		NH3
47	SPKA	Auto Spike	480-224802-C-2	NH3
48	SPKD	Spike duplicate	480-224802-C-2	NH3
49	U38	480-224810-A-7		NH3
50	U39	480-224810-A-8		NH3
51	U40	480-224810-A-9		NH3
52	U41	480-224810-A-10		NH3
53	U42	480-224810-A-11		NH3
54	U43	480-224848-C-1		NH3
55	SPKA	Auto Spike	480-224848-C-1	NH3
56	U44	480-224848-C-2		NH3
57	U45	480-224848-C-3		NH3
58	U46	480-224869-C-1		NH3
59	U47	480-224869-A-2		NH3
60	U48	480-224869-C-3		NH3
61	U49	480-224869-A-4		NH3
62	SPKA	Auto Spike	480-224869-A-4	NH3
63	SPKD	Spike duplicate	480-224869-A-4	NH3
64	U50	480-224869-C-5		NH3
65	U51	480-224869-A-6		NH3
66	U52	480-224869-C-7		NH3
67	U53	480-224869-A-8		NH3
68	U54	480-224869-C-9		NH3
69	U55	480-224869-C-10		NH3
70	SPKA	Auto Spike	480-224869-C-10	NH3
71	U56	480-224869-C-11		NH3
72	U57	480-224869-C-12		NH3
73	U58	480-224869-C-13		NH3
74	U59	480-224869-A-14		NH3
75	U60	480-224869-A-15		NH3
76	U61	480-224869-A-16		NH3
77	SPKA	Auto Spike	480-224869-A-16	NH3
78	SPKD	Spike duplicate	480-224869-A-16	NH3

Historical Data Summary Report

For Batch 730650

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-224498-C-11	MW-22A	350.1	Ammonia	Total/NA	mg/L as N	8	5.00	4.1	☐	3.888 - 5.887	☐	3.52 - 6.48
480-224659-C-10	MW-N(S)	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.00	ND	☐	0 - 0	☐	0 - 0
480-224679-C-1	Underdrain 3B	350.1	Ammonia-N	Total/NA	mg/L as N	8	500.00	453	☑	0 - 95.768	☑	4.8 - 101.88
480-224695-A-6	MW-3R	350.1	Ammonia	Total/NA	mg/L	8	1.00	0.14	☐	0 - 0.315	☐	0 - 0.192
480-224695-A-7	MW-4R	350.1	Ammonia	Total/NA	mg/L	8	1.00	0.12	☑	0 - 0	☑	0 - 0
480-224704-C-2	MW-10R	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.00	0.16	☐	0.06 - 0.285	☐	0.07 - 0.252
480-224704-C-4	MW-13R	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.00	ND	☐	0 - 0.124	☐	0 - 0.086
480-224704-C-5	MW-80A	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.00	0.19	☐	0.122 - 0.301	☐	0.12 - 0.288
480-224704-C-7	MW-9R	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.00	0.43	☐	0.308 - 0.665	☐	0.296 - 0.672
480-224732-B-1	SW DUP	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	ND	☐	0 - 0.134	☐	0 - 0.144
480-224732-B-2	SW-01	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.33	☑	0 - 0.168	☑	0 - 0.18
480-224765-B-1	A12UR	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.00	ND	☐	0 - 0	☐	0 - 0
480-224765-B-3	MW-210R	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.00	ND	☐	0 - 0	☐	0 - 0
480-224765-B-4	MW-211	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.00	0.73	☐	0 - 2.203	☐	0.448 - 2.16
480-224797-A-10	B52U	350.1	Ammonia	Total/NA	mg/L	8	1.00	ND	☐	0 - 0	☐	0 - 0
480-224797-A-14	B44DA	350.1	Ammonia	Total/NA	mg/L	8	1.00	0.096	☐	0 - 0.232	☐	0 - 0.192
480-224797-A-2	Duplicate (Up)	350.1	Ammonia	Total/NA	mg/L	8	1.00	ND	☐	0 - 0	☐	0 - 0
480-224802-C-1	US-03D	350.1	Ammonia	Total/NA	mg/L as N	8	1.00	0.31	☐	0.269 - 0.483	☐	0.248 - 0.504
480-224802-C-2	US-04D	350.1	Ammonia	Total/NA	mg/L as N	8	1.00	0.57	☐	0.455 - 1	☐	0.48 - 1.032
480-224810-A-10	MW109	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	ND	☐	0 - 0.702	☐	0 - 0.516
480-224810-A-11	MW110	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.12	☐	0 - 0.904	☐	0 - 0.6
480-224810-A-2	GA34A	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.16	☐	0 - 0.326	☐	0 - 0.276
480-224810-A-3	GA33C	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.26	☐	0 - 0.939	☐	0 - 0.84
480-224810-A-4	MW101	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.23	☐	0.057 - 0.305	☐	0.07 - 0.264
480-224810-A-5	MW103	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	ND	☑	0.071 - 0.299	☑	0.079 - 0.276
480-224810-A-6	MW104	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.16	☐	0.145 - 0.268	☐	0.144 - 0.3
480-224810-A-7	MW106	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	ND	☐	0 - 0.74	☐	0 - 0.516
480-224810-A-8	MW107	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.13	☐	0.005 - 0.272	☐	0.06 - 0.228
480-224810-A-9	MW108	350.1	Ammonia as N	Total/NA	mg/L	8	1.00	0.16	☐	0.132 - 0.248	☐	0.128 - 0.252
480-224840-C-14	SW-2	350.1	Ammonia	Total/NA	mg/L	7	1.00	ND	☐	0 - 0.156	☐	0 - 0.144
480-224840-C-15	SW-3	350.1	Ammonia	Total/NA	mg/L	3	1.00	ND	☐	0 - 0.128	☑	0.032 - 0.048
480-224848-C-1	US-01D	350.1	Ammonia	Total/NA	mg/L as N	8	1.00	0.74	☐	0.149 - 1.546	☐	0.2 - 1.2
480-224848-C-2	W-03D	350.1	Ammonia	Total/NA	mg/L as N	8	1.00	0.15	☐	0 - 0.348	☐	0.096 - 0.324
480-224848-C-3	PZ-07D	350.1	Ammonia	Total/NA	mg/L as N2	8	1.00	0.28	☑	0.37 - 0.4	☑	0.308 - 0.462

730651

Ammonia 350.1

Nitrogen 1000mg/L Std CAL	7622623	Expires 12/31/24
Ammonia as N 1000mg/L Std CCV/LCS/ICV	7613429	Expires 04/27/25
Matrix Spike Int Std	8142979	Expires 11/05/24
Sodium Nitroferricyanide	8094597	Expires 11/05/24
Alkaline Phenol	8140007	Expires 11/12/24
5% EDTA Buffer	8094596	Expires 11/05/24
Sulfuric Acid Carrier	8143456	Expires 10/31/24
Sodium Hypochlorite	7927334	Expires 05/08/25
NH3 CCV/ICV 1.0ppm Std	8143457	Expires 10/31/24

ICV = 1.0ppm
LCS/CCV = 1.0ppm
MS/MSD = 0.1ppm

Distilled LCS/CCV = 1.0ppm
Distilled MS/MSD = 0.5ppm

Residual Chlorine check of samples: Initials AM Date: 10-30-24

Residual Chlorine Strip Lot Number (if used) 424102

AM 10-31-24

AQ700 Water Baselines

SEAL Analytical

Software version: 2.5.1K5
User name: militelloA
Time and Date: 2024-10-31 11:39:47

Filter Number	Filter	Previous water baselines	Current Water baselines
1	405	4.7792 v (Gain = 233)	4.7374 v (Gain = 233)
2	450	4.7093 v (Gain = 192)	4.6701 v (Gain = 192)
3	480	4.6942 v (Gain = 178)	4.6596 v (Gain = 178)
4	505	4.6961 v (Gain = 182)	4.6626 v (Gain = 182)
5	520	4.6709 v (Gain = 160)	4.6754 v (Gain = 161)
6	546	4.7187 v (Gain = 195)	4.6878 v (Gain = 195)
7	578	4.7112 v (Gain = 179)	4.6816 v (Gain = 179)
8	660	4.6930 v (Gain = 169)	4.6698 v (Gain = 169)
9	880	4.6977 v (Gain = 159)	4.6876 v (Gain = 159)
10	Dark	0.0275 v	0.0276 v
Time & Date		**2024-10-30 10:07:52**	**2024-10-31 09:05:33**

AM 10-31-24

Standard report

SEAL Analytical

Software version:	2.5.1K5
User name:	militelloA
Time and Date:	2024-10-31 11:39:44
Tray number:	5
Tray name:	24.10.30 (D)nh3-2-2
Instrument serial number:	070034
Instrument name:	AQ700

NH3

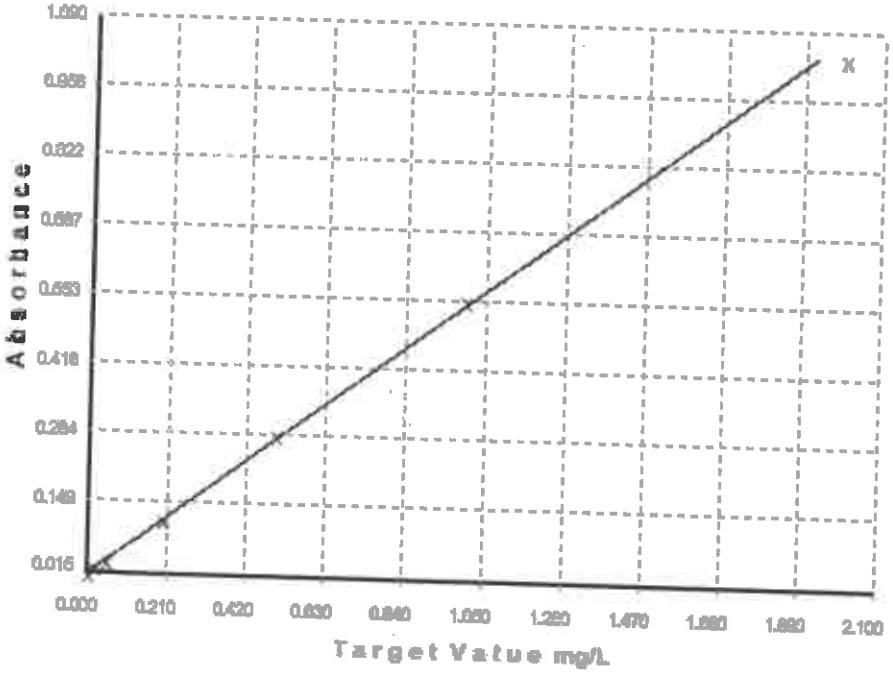
Calibration data

ID	Absorbance	Calc mg/L	Target mg/L	% Error
S95	1.0386	1.921	2.000	-3.9719
S94	0.5554	1.013	1.000	1.3464
S93	0.2885	0.512	0.500	2.4671
S92	0.1219	0.199	0.200	-0.2584
S91	0.0425	0.050	0.050	0.8641
S90	0.0274	0.022	0.022	-0.4473
S1	0.0148	-0.002	0.000	
*89	1.0259	1.897	2.000	-5.1619
S0	0.0148	-0.002	0.000	

Calibration status

Polynomial order	1
Correlation coefficient	0.9996
RSE (%)	2.48
Carryover(%)	-0.0
Calibration equation	y = bx + a
y =	Concentration mg/L
x =	Measured absorbance
a =	-2.933409E-02
b =	1.877495E+00
Original Date & Time	2024-10-10 16:03:01

Calibration graph



AM 10-31-24

Standard report

SEAL Analytical

Reagents

Number	Reagent name	Batch number	User	Expiry date
1	NH3 EDTA Buffer			
2	NH3 phenol			
3	Nh3 Hypo			
4	Nh3 nitro			
21	NH3 ccb (Blank)			

Test results

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
	ICV	ICV		0.944	mg/L	0.518358				AM	2024-10-31 00:18:10
	ICB	ICB		-0.002	mg/L	0.014563				AM	2024-10-31 00:19:01
	CCV	CCV		0.942	mg/L	0.517497				AM	2024-10-31 00:19:30
	CCB	CCB		-0.003	mg/L	0.013920				AM	2024-10-31 00:20:55
	MB	MB		-0.001	mg/L	0.015005				AM	2024-10-31 00:22:32
	LCS	LCS		0.947	mg/L	0.520048				AM	2024-10-31 00:22:57
1	U1	480-224869-A-17		0.296	mg/L	0.173539				AM	2024-10-31 00:23:21
2	SPKA	Auto Spike	480-224869-A-17	0.362	mg/L	0.202092	32.82			AM	2024-10-31 00:24:58
3	SPKD	Spike duplicate	480-224869-A-17	0.265	mg/L	0.151964	-15.86 (31.06)			AM	2024-10-31 00:25:23
4	U2	480-224869-C-18		1.516	mg/L	0.823294				AM	2024-10-31 00:25:47
5	U3	480-224869-C-19		9.355 ELH	mg/L	4.998582				AM	2024-10-31 00:27:24
6	U4	480-224869-A-20		0.170	mg/L	0.106352				AM	2024-10-31 00:27:49
7	U5	480-224869-A-21		-0.003 ELL	mg/L	0.014002				AM	2024-10-31 00:28:14
8	U6	480-224869-A-22		-0.006 ELL	mg/L	0.012349				AM	2024-10-31 00:29:51
	CCV	CCV		0.961	mg/L	0.527638				AM	2024-10-31 00:30:15
	CCB	CCB		0.000	mg/L	0.015885				AM	2024-10-31 00:30:40
9	U7	480-224869-A-23		0.340	mg/L	0.196727				AM	2024-10-31 00:32:17
10	SPKA	Auto Spike	480-224869-A-23	0.398	mg/L	0.220315	28.74			AM	2024-10-31 00:33:41
11	U8	480-224869-A-24		0.049	mg/L	0.041644				AM	2024-10-31 00:34:06
12	U9	480-224869-A-25		1.088	mg/L	0.595205				AM	2024-10-31 00:34:43
13	U10	480-224840-C-1		0.109	mg/L	0.073714				AM	2024-10-31 00:35:07
14	U11	480-224840-C-2		9.198 ELH	mg/L	4.914751				AM	2024-10-31 00:35:32
15	U12	480-224840-C-3		0.225	mg/L	0.135601				AM	2024-10-31 00:37:09
	CCV	CCV		0.944	mg/L	0.518207				AM	2024-10-31 00:37:35
	CCB	CCB		0.003	mg/L	0.017200				AM	2024-10-31 00:37:58
	MB	MB		0.004	mg/L	0.017580				AM	2024-10-31 00:39:25
	LCS	LCS		0.951	mg/L	0.522270				AM	2024-10-31 00:40:00
16	U13	480-224840-C-12		0.053	mg/L	0.043938				AM	2024-10-31 00:40:25
17	SPKA	Auto Spike	480-224840-C-12	0.160	mg/L	0.097912	53.32			AM	2024-10-31 00:42:01
18	SPKD	Spike duplicate	480-224840-C-12	0.156	mg/L	0.095807	51.28 (2.59)			AM	2024-10-31 00:42:26
19	U14	480-224840-C-4		0.025	mg/L	0.029203				AM	2024-10-31 00:42:51
20	U15	480-224840-C-5		0.234	mg/L	0.140424				AM	2024-10-31 00:44:21
21	U16	480-224840-C-6		0.006	mg/L	0.018634				AM	2024-10-31 00:45:34
22	U17	480-224840-C-7		0.775	mg/L	0.428305				AM	2024-10-31 00:47:09
23	U18	480-224840-C-8		0.061	mg/L	0.047968				AM	2024-10-31 00:48:36

Standard report

SEAL Analytical

Cup	Type	ID	Details	Result	Units	Raw data	QC Pro	Auto dil.	Man dil.	User	Time & Date
	CCV	CCV		0.960	mg/L	0.527073				AM	2024-10-31 00:47:16
	CCB	CCB		-0.000	mg/L	0.015439				AM	2024-10-31 00:47:40
24	U19	480-224840-C-9		0.016	mg/L	0.024406				AM	2024-10-31 00:49:16
25	SPKA	Auto Spike	480-224840-C-9	0.130	mg/L	0.082363	56.56			AM	2024-10-31 00:49:40
26	U20	480-224840-C-10		0.130	mg/L	0.084909				AM	2024-10-31 00:50:04
27	U21	480-224840-C-11		0.064	mg/L	0.049575				AM	2024-10-31 00:51:40
28	U22	480-224840-C-13		0.046	mg/L	0.039898				AM	2024-10-31 00:52:04
29	U23	224585-8		0.235	mg/L	0.140713				AM	2024-10-31 00:52:28
30	U24	224585-8		0.262	mg/L	0.085314			x2.0000	AM	2024-10-31 00:54:04
	CCV	CCV		0.954	mg/L	0.523835				AM	2024-10-31 00:54:28
	CCB	CCB		-0.001	mg/L	0.014938				AM	2024-10-31 00:54:52
	MB	MB		-0.002	mg/L	0.014461				AM	2024-10-31 00:55:16
	LCS	LCS		0.941	mg/L	0.517023				AM	2024-10-31 00:55:40
	ICV	ICV		0.956	mg/L	0.524692				AM	2024-10-31 00:56:04
	ICB	ICB		-0.002	mg/L	0.014598				AM	2024-10-31 01:13:16
	CCV	CCV		0.932	mg/L	0.511856				AM	2024-10-31 01:13:40
	CCB	CCB		-0.000	mg/L	0.015440				AM	2024-10-31 01:14:04
	MB	MB		0.001	mg/L	0.016141				AM	2024-10-31 01:15:40
	LCS	LCS		0.973	mg/L	0.533707				AM	2024-10-31 01:16:04
5	U3	480-224869-C-19		18.936 ELH	mg/L	2.032733		x5.0000		AM	2024-10-31 01:16:28
14	U11	480-224840-C-2		45.903 ELH	mg/L	4.905386		x5.0000		AM	2024-10-31 01:18:04
	CCV	CCV		0.916	mg/L	0.503554				AM	2024-10-31 01:18:28
	CCB	CCB		0.001	mg/L	0.016023				AM	2024-10-31 01:18:52
	MB	MB		-0.003	mg/L	0.014143				AM	2024-10-31 01:20:28
	LCS	LCS		0.930	mg/L	0.510916				AM	2024-10-31 01:20:52
	ICV	ICV		0.956	mg/L	0.524819				AM	2024-10-31 01:33:13
	ICB	ICB		-0.001	mg/L	0.015307				AM	2024-10-31 01:36:53
	CCV	CCV		0.941	mg/L	0.517010				AM	2024-10-31 01:37:17
	CCB	CCB		-0.001	mg/L	0.015263				AM	2024-10-31 01:37:41
	MB	MB		-0.001	mg/L	0.015095				AM	2024-10-31 01:38:05
	LCS	LCS		0.961	mg/L	0.527502				AM	2024-10-31 01:39:16
5	U3	480-224869-C-19		37.024	mg/L	0.782513		x25.7143		AM	2024-10-31 01:40:09
14	U11	480-224840-C-2		76.567 ELH	mg/L	1.601564		x25.7143		AM	2024-10-31 01:41:41
	CCV	CCV		0.933	mg/L	0.512565				AM	2024-10-31 01:42:09
	CCB	CCB		0.000	mg/L	0.015682				AM	2024-10-31 01:42:29
	MB	MB		0.000	mg/L	0.015760				AM	2024-10-31 01:44:05
	LCS	LCS		0.941	mg/L	0.516632				AM	2024-10-31 01:44:29
	CCV	CCV		0.941	mg/L	0.517024				AM	2024-10-31 10:28:09
	CCB	CCB		0.008	mg/L	0.019841				AM	2024-10-31 10:29:45
14	U11	480-224840-C-2		85.474	mg/L	0.521466		x90.0000		AM	2024-10-31 10:30:09
	CCV	CCV		0.926	mg/L	0.508874				AM	2024-10-31 10:30:33
	CCB	CCB		0.003	mg/L	0.017303				AM	2024-10-31 10:33:09

Standard report

SEAL Analytical

Work list

Cup	Type	ID	Details	Tests
1	UI	480-224869-A-17		NH3
2	SPKA	Auto Spike	480-224869-A-17	NH3
3	SPKD	Spike duplicate	480-224869-A-17	NH3
4	U2	480-224869-C-18		NH3
5	U3	480-224869-C-19		NH3
6	U4	480-224869-A-20		NH3
7	U5	480-224869-A-21		NH3
8	U6	480-224869-A-22		NH3
9	U7	480-224869-A-23		NH3
10	SPKA	Auto Spike	480-224869-A-23	NH3
11	U8	480-224869-A-24		NH3
12	U9	480-224869-A-25		NH3
13	U10	480-224840-C-1		NH3
14	U11	480-224840-C-2		NH3
15	U12	480-224840-C-3		NH3
16	U13	480-224840-C-12		NH3
17	SPKA	Auto Spike	480-224840-C-12	NH3
18	SPKD	Spike duplicate	480-224840-C-12	NH3
19	U14	480-224840-C-4		NH3
20	U15	480-224840-C-5		NH3
21	U16	480-224840-C-6		NH3
22	U17	480-224840-C-7		NH3
23	U18	480-224840-C-8		NH3
24	U19	480-224840-C-9		NH3
25	SPKA	Auto Spike	480-224840-C-9	NH3
26	U20	480-224840-C-10		NH3
27	U21	480-224840-C-11		NH3
28	U22	480-224840-C-13		NH3
29	U23	224585-8		NH3
30x2.000	U24	224585-8		NH3

Historical Data Summary Report

For Batch 730651

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-224840-C-1	Dupe-X	350.1	Ammonia	Total/NA	mg/L	7	1.00	0.11	☐	0 - 0.539	☐	0 - 0.54
480-224840-C-10	OW-108	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.13	☑	0.024 - 0.122	☑	0.059 - 0.088
480-224840-C-11	OW-109	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.064	☐	0 - 0.169	☐	0.047 - 0.07
480-224840-C-12	OW-110	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.053	☐	0.027 - 0.093	☐	0.048 - 0.072
480-224840-C-13	SW-1	350.1	Ammonia	Total/NA	mg/L	7	1.00	0.046	☐	0 - 0.225	☐	0 - 0.216
480-224840-C-2	L-1	350.1	Ammonia	Total/NA	mg/L	3	90.00	85.5	☑	45.05 - 56.35	☑	40.56 - 60.84
480-224840-C-3	L-2	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.23	☐	0 - 0.261	☑	0.072 - 0.108
480-224840-C-4	OW-101	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.025	☐	0 - 0.154	☑	0.023 - 0.035
480-224840-C-5	OW-103	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.23	☑	0 - 0.148	☑	0.05 - 0.074
480-224840-C-6	OW-104	350.1	Ammonia	Total/NA	mg/L	3	1.00	ND	☐	0 - 0.091	☑	0.014 - 0.021
480-224840-C-7	OW-105	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.78	☐	0.351 - 1.242	☐	0.637 - 0.956
480-224840-C-8	OW-106	350.1	Ammonia	Total/NA	mg/L	3	1.00	0.061	☐	0 - 0.072	☑	0.011 - 0.016
480-224840-C-9	OW-107	350.1	Ammonia	Total/NA	mg/L	3	1.00	ND	☐	0 - 0.128	☑	0.03 - 0.045

CT 10-29-24
730337

CN Solutions-Skalar:

Distillation Reagent:	**8123377**	**Exp: 11/22/2024**
Diluent	**8123375**	**Exp: 11/22//2024**
Sodium Dihydrogen Phosphate Buffer	**8122018**	**Exp: 11/10/2024**
Pyridine Barbituric Acid –color reagent	**8135877**	**Exp: 11/28/2024**
Chloramine-T Solution	**8124031**	**Exp: 11/22/2024**
Sodium hydroxide solution	**8110616**	**Exp: 11/10/2024**
Digestion reagent	**8113299**	**Exp: 11/17/2024**
1M Sodium Hydroxide	**8118501**	**Exp: 11/18/2024**
50ppm INT STD	**8135879**	**Exp: 11/04/2024**
CN.25ppm CCV/LCS Std	**8137590**	**Exp: 10/30/2024**
50ppm INT 2nd source STD	**8135880**	**Exp: 11/04/2024**
0.400mg/L HLCS	**8137591**	**Exp: 10/30/2024**
0.100 mg/L	**8137592**	**Exp: 10/30/2024**
0.01 mg/L CCVL	**8137593**	**Exp: 10/29/2024**
10ppm Complex-MS/MSD	**8135881**	**Exp: 11/04/2024**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Skalar : Daily
Curve Standard (50 ppm): 8135879
ICV (0.250 ppm): 8137594 Exp: 10/30/2024

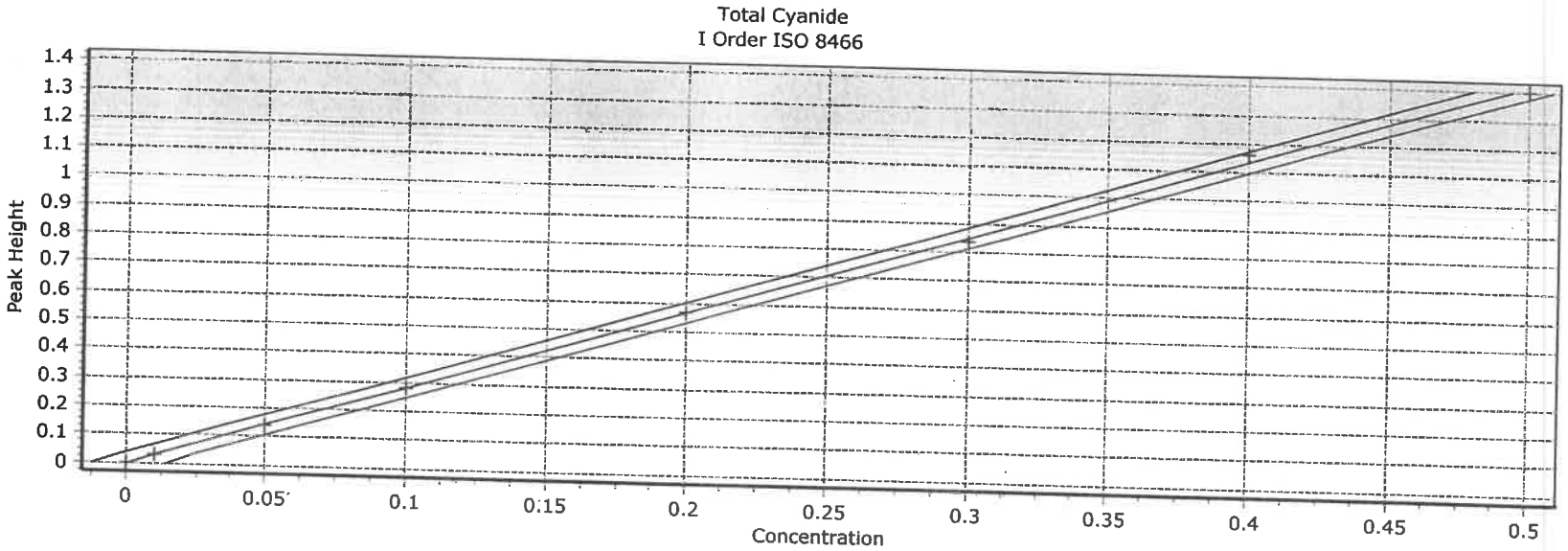
Test for sulfide in samples (Lead Acetate) **Lot number:** 02-05-2024
Tested with lead strips: CT
Test for oxidizers in samples (Potassium Iodine) **Lot number:** 05-10-2024
Tested with potassium Iodine strips: CT

CT 10-29-24

730337

FlowAccessV3

Date:2024-10-29 15:39:20



a = -0.00238851210214 b = 2.83845831259739 RSD = 0.01344983098158

r = 0.99972894234924 R2 = 0.99945795817072

Run Name : TABUF20241029A0CN10292024, Run Db Ref : TABUF20241029A0

User Name : Administrator Operator Name : Administrator

CT 10-29-24

730337

FlowAccessV3 Results Report

Run Name : TABUF20241029A0CN10292024A, Run Database Ref : TABUF20241029A0
DateTime :2024-10-29 06:55:57
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
1	IW	IW	InitialWash		1.0000	0.0008	0.0000	2024-10-29 07:09:00	0.0008
2	ST8	T	Tracer		1.0000	0.5082	1.4402	2024-10-29 07:13:00	0.5082
3	ST8	D	Drift		1.0000	0.5060	1.4340	2024-10-29 07:18:00	0.5060
4	WT	W	Wash		1.0000	0.0008	0.0000	2024-10-29 07:22:00	0.0008
5	ST1	S1	0		1.0000	0.0007	-0.0005	2024-10-29 07:26:00	0.0007
6	ST2	S2	0.01		1.0000	0.0099	0.0258	2024-10-29 07:28:00	0.0099
7	ST3	S3	0.05		1.0000	0.0488	0.1360	2024-10-29 07:32:00	0.0488
8	ST4	S4	0.1		1.0000	0.0997	0.2806	2024-10-29 07:35:00	0.0997
9	ST5	S5	0.2		1.0000	0.2004	0.5666	2024-10-29 07:39:00	0.2004
10	ST6	S6	0.3		1.0000	0.2965	0.8391	2024-10-29 07:42:00	0.2965
11	ST7	S7	0.4		1.0000	0.4095	1.1599	2024-10-29 07:45:00	0.4095
12	ST8	S8	0.5		1.0000	0.4945	1.4013	2024-10-29 07:48:00	0.4945
13	ST8	D	Drift		1.0000	0.5246	1.4866	2024-10-29 07:52:00	0.5246
14	WT	W	Wash		1.0000	0.0008	0.0000	2024-10-29 07:55:00	0.0008
15	ST9	ICV	ICV		1.0000	0.2488	0.7038	2024-10-29 08:00:00	0.2488
16	ST1	ICB	ICB		1.0000	0.0017	0.0025	2024-10-29 08:02:00	0.0017
17	ST10	CCV	CCV		1.0000	0.2498	0.7066	2024-10-29 08:05:00	0.2498
18	ST11	CCB	CCB		1.0000	0.0017	0.0024	2024-10-29 08:08:00	0.0017
19	ST8	D	Drift		1.0000	0.5160	1.4622	2024-10-29 08:12:00	0.5160
20	WT	W	Wash		1.0000	0.0008	0.0000	2024-10-29 08:15:00	0.0008
21	ST11	B	MB		1.0000	0.0008	0.0000	2024-10-29 08:20:00	0.0008
22	ST7	LCS	HLCS		1.0000	0.4080	1.1557	2024-10-29 08:22:00	0.4080
23	ST10	LCS	LCS		1.0000	0.2519	0.7125	2024-10-29 08:25:00	0.2519
24	ST2	CCV	CCVL		1.0000	0.0117	0.0309	2024-10-29 08:29:00	0.0117
25	A1	U	480-224793-d-2		1.0000	0.0006	-0.0006	2024-10-29 08:32:00	0.0006
26	A2	U	MS 480-224793-d-2		1.0000	0.0953	0.2682	2024-10-29 08:35:00	0.0953
27	A3	U	480-224793-d-3		1.0000	0.0019	0.0031	2024-10-29 08:39:00	0.0019

DateTime :2024-10-29 15:39:46

Run Name : TABUF20241029A0CN10292024A, Run Database Ref : TABUF20241029A0
DateTime :2024-10-29 06:55:57
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
28	A4	U	480-224793-d-4		1.0000	0.0008	-0.0002	2024-10-29 08:42:00	0.0008
29	ST10	CCV	CCV		1.0000	0.2614	0.7396	2024-10-29 08:45:00	0.2614
30	ST11	CCB	CCB		1.0000	0.0029	0.0059	2024-10-29 08:48:00	0.0029
31	ST8	D	DRIFT		1.0000	0.5289	1.4990	2024-10-29 08:52:00	0.5289
32	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 08:55:00	0.0008
33	A5	U	480-224793-d-5		1.0000	0.0038	0.0083	2024-10-29 09:00:00	0.0038
34	A6	U	DU 480-224793-d-5		1.0000	0.0009	0.0002	2024-10-29 09:01:00	0.0009
35	A7	U	MS 480-224793-d-5		1.0000	0.0962	0.2706	2024-10-29 09:05:00	0.0962
36	A8	U	480-224793-d-6		1.0000	0.0015	0.0019	2024-10-29 09:09:00	0.0015
37	A9	U	480-224793-d-7		1.0000	0.0012	0.0010	2024-10-29 09:12:00	0.0012
38	A10	U	480-224793-d-8		1.0000	0.0005	-0.0009	2024-10-29 09:15:00	0.0005
39	A11	U	480-224793-d-9		1.0000	0.0005	-0.0010	2024-10-29 09:18:00	0.0005
40	A12	U	480-224793-d-10		1.0000	0.0004	-0.0013	2024-10-29 09:22:00	0.0004
41	A13	U	480-224793-d-11		1.0000	0.0004	-0.0012	2024-10-29 09:25:00	0.0004
42	A14	U	480-224793-d-12		1.0000	0.0004	-0.0011	2024-10-29 09:28:00	0.0004
43	ST10	CCV	CCV		1.0000	0.2453	0.6939	2024-10-29 09:32:00	0.2453
44	ST11	CCB	CCB		1.0000	0.0023	0.0041	2024-10-29 09:35:00	0.0023
45	ST8	D	DRIFT		1.0000	0.5872	1.6645	2024-10-29 09:39:00	0.5872
46	WT	W	Wash		1.0000	0.0008	0.0000	2024-10-29 09:42:00	0.0008
47	ST11	B	MB		1.0000	0.0032	0.0066	2024-10-29 09:46:00	0.0032
48	ST10	LCS	LCS		1.0000	0.2681	0.7586	2024-10-29 09:48:00	0.2681
49	A15	U	480-224793-d-13		1.0000	0.0018	0.0026	2024-10-29 09:52:00	0.0018
50	A16	U	MS 480-224793-d-13		1.0000	0.0964	0.2713	2024-10-29 09:55:00	0.0964
51	A17	U	480-224793-d-14		1.0000	0.0023	0.0042	2024-10-29 09:59:00	0.0023
52	A18	U	480-224794-g-1		1.0000	0.2041	0.5770	2024-10-29 10:02:00	0.2041
53	A19	U	480-224794-g-2		1.0000	0.0402	0.1118	2024-10-29 10:05:00	0.0402
54	A20	U	480-224799-c-1		1.0000	0.0014	0.0016	2024-10-29 10:08:00	0.0014

DateTime :2024-10-29 15:39:46

Run Name : TABUF20241029A0CN10292024A, Run Database Ref : TABUF20241029A0
DateTime :2024-10-29 06:55:57
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
55	A21	U	480-224799-c-2		1.0000	0.0012	0.0011	2024-10-29 10:12:00	0.0012
56	A22	U	480-224799-c-3		1.0000	0.0011	0.0008	2024-10-29 10:15:00	0.0011
57	ST10	CCV	CCV		1.0000	0.2466	0.6975	2024-10-29 10:18:00	0.2466
58	ST11	CCB	CCB		1.0000	0.0032	0.0067	2024-10-29 10:22:00	0.0032
59	ST12	D	DRIFT		1.0000	0.5710	1.6184	2024-10-29 10:25:00	0.5710
60	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 10:29:00	0.0008
61	A23	U	480-224799-c-5		1.0000	0.0049	0.0115	2024-10-29 10:33:00	0.0049
62	A24	U	480-224799-c-4		1.0000	0.0088	0.0226	2024-10-29 10:35:00	0.0088
63	A25	U	480-224799-c-6		1.0000	0.0012	0.0010	2024-10-29 10:39:00	0.0012
64	A26	U	480-224799-c-7		1.0000	0.0008	-0.0001	2024-10-29 10:42:00	0.0008
65	A27	U	480-224802-e-1		1.0000	0.0006	-0.0008	2024-10-29 10:45:00	0.0006
66	A28	U	480-224802-e-2		1.0000	0.0006	-0.0008	2024-10-29 10:48:00	0.0006
67	A29	U	480-224802-e-2 ms		1.0000	0.0934	0.2628	2024-10-29 10:52:00	0.0934
68	A30	U	480-224802-e-2 msd		1.0000	0.1009	0.2839	2024-10-29 10:55:00	0.1009
69	A31	U	480-224807-c-2		1.0000	0.0761	0.2136	2024-10-29 10:59:00	0.0761
70	A32	U	480-224836-a-1		1.0000	0.0039	0.0087	2024-10-29 11:02:00	0.0039
71	ST13	CCV	CCV		1.0000	0.2541	0.7188	2024-10-29 11:05:00	0.2541
72	ST14	CCB	CCB		1.0000	0.0019	0.0031	2024-10-29 11:08:00	0.0019
73	ST15	D	DRIFT		1.0000	0.5408	1.5327	2024-10-29 11:12:00	0.5408
74	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 11:15:00	0.0008
75	ST14	B	MB		1.0000	0.0015	0.0018	2024-10-29 11:20:00	0.0015
76	ST13	LCS	LCS		1.0000	0.2522	0.7136	2024-10-29 11:22:00	0.2522
77	A33	U	480-224836-a-2		1.0000	0.0043	0.0097	2024-10-29 11:25:00	0.0043
78	A34	U	MS 480-224836-a-2		1.0000	0.0930	0.2615	2024-10-29 11:29:00	0.0930
79	A35	U	480-224836-a-3		1.0000	0.0039	0.0088	2024-10-29 11:32:00	0.0039
80	A36	U	480-224842-I-1		1.0000	0.4575	1.2962	2024-10-29 11:35:00	0.4575
81	A37	U	480-224842-I-2		1.0000	0.0459	0.1279	2024-10-29 11:39:00	0.0459

Run Name : TABUF20241029A0CN10292024A, Run Database Ref : TABUF20241029A0
DateTime :2024-10-29 06:55:57
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
82	A38	U	480-224843-j-1		1.0000	0.0096	0.0250	2024-10-29 11:42:00	0.0096
83	A39	U	480-224843-j-2		1.0000	0.0325	0.0897	2024-10-29 11:45:00	0.0325
84	A40	U	480-224846-g-1		1.0000	0.0420	0.1169	2024-10-29 11:49:00	0.0420
85	ST13	CCV	CCV		1.0000	0.2526	0.7147	2024-10-29 11:52:00	0.2526
86	ST14	CCB	CCB		1.0000	0.0020	0.0033	2024-10-29 11:55:00	0.0020
87	ST15	D	DRIFT		1.0000	0.5316	1.5066	2024-10-29 11:59:00	0.5316
88	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 12:02:00	0.0008
89	A41	U	480-224847-g-1		1.0000	0.0165	0.0444	2024-10-29 12:06:00	0.0165
90	A42	U	480-224848-e-1		1.0000	0.0006	-0.0007	2024-10-29 12:09:00	0.0006
91	A43	U	DU 480-224848-e-1		1.0000	0.0004	-0.0012	2024-10-29 12:12:00	0.0004
92	A44	U	MS 480-224848-e-1		1.0000	0.0991	0.2790	2024-10-29 12:15:00	0.0991
93	A45	U	480-224848-e-2		1.0000	0.0012	0.0009	2024-10-29 12:19:00	0.0012
94	A46	U	480-224848-e-3		1.0000	0.0004	-0.0011	2024-10-29 12:22:00	0.0004
95	A47	U	480-224850-d-1		1.0000	0.0003	-0.0014	2024-10-29 12:25:00	0.0003
96	A48	U	480-224850-d-2		1.0000	0.0013	0.0014	2024-10-29 12:29:00	0.0013
97	A49	U	480-224850-d-3		1.0000	0.0025	0.0047	2024-10-29 12:32:00	0.0025
98	A50	U	480-224850-d-4		1.0000	0.0004	-0.0011	2024-10-29 12:35:00	0.0004
99	ST13	CCV	CCV		1.0000	0.2592	0.7333	2024-10-29 12:39:00	0.2592
100	ST14	CCB	CCB		1.0000	0.0019	0.0029	2024-10-29 12:42:00	0.0019
101	ST15	D	DRIFT		1.0000	0.5198	1.4732	2024-10-29 12:45:00	0.5198
102	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 12:49:00	0.0008
103	ST14	B	MB		1.0000	0.0019	0.0031	2024-10-29 12:53:00	0.0019
104	ST13	LCS	LCS		1.0000	0.2460	0.6960	2024-10-29 12:55:00	0.2460
105	A51	U	480-224850-d-5		1.0000	0.0016	0.0021	2024-10-29 12:59:00	0.0016
106	A52	U	DU 480-224850-d-5		1.0000	0.0006	-0.0008	2024-10-29 13:02:00	0.0006
107	A53	U	MS 480-224850-d-5		1.0000	0.0892	0.2508	2024-10-29 13:05:00	0.0892
108	A54	U	480-224726-c-4	500ml→10ml	20.0000	6.6857	0.9465	2024-10-29 13:09:00	0.3343

DateTime :2024-10-29 15:39:46

FlowAccessV3 Results Report

Run Name : TABUF20241029A0CN10292024A, Run Database Ref : TABUF20241029A0
DateTime :2024-10-29 06:55:57
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
109	A55	U	480-224744-c-2	2ml→10ml	5.0000	1.3510	0.7646	2024-10-29 13:12:00	0.2702
110	A56	U	480-224744-c-2	1ml→10ml	10.0000	1.4168	0.3998	2024-10-29 13:15:00	0.1417
111	A57	U	480-224744-c-5	2ml→10ml	5.0000	4.1062	2.3287	2024-10-29 13:19:00	0.8212
112	A58	U	480-224744-c-5	1ml→10ml	10.0000	4.3836	1.2419	2024-10-29 13:22:00	0.4384
113	ST13	CCV	CCV		1.0000	0.2742	0.7760	2024-10-29 13:25:00	0.2742
114	ST14	CCB	CCB		1.0000	0.0036	0.0079	2024-10-29 13:29:00	0.0036
115	ST15	D	DRIFT		1.0000	0.5903	1.6731	2024-10-29 13:32:00	0.5903
116	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 13:36:00	0.0008
117	A59	U	480-224756-e-2		1.0000	0.0163	0.0440	2024-10-29 13:40:00	0.0163
118	A60	U	MS 480-224756-e-2		1.0000	0.0969	0.2726	2024-10-29 13:42:00	0.0969
119	B1	U	480-224869-e-1		1.0000	1.0438	2.9605	2024-10-29 13:46:00	1.0438
120	B2	U	480-224869-e-3		1.0000	1.0491	2.9753	2024-10-29 13:49:00	1.0491
121	B3	U	480-224869-e-5		1.0000	0.1206	0.3401	2024-10-29 13:52:00	0.1206
122	B4	U	480-224869-e-7		1.0000	0.9816	2.7839	2024-10-29 13:55:00	0.9816
123	B5	U	480-224869-e-9		1.0000	0.6485	1.8384	2024-10-29 13:59:00	0.6485
124	B6	U	480-224869-e-10		1.0000	0.2798	0.7917	2024-10-29 14:02:00	0.2798
125	B7	U	480-224869-e-11		1.0000	0.1182	0.3331	2024-10-29 14:05:00	0.1182
126	B8	U	480-224869-e-12		1.0000	0.9953	2.8228	2024-10-29 14:09:00	0.9953
127	ST13	CCV	CCV		1.0000	0.2643	0.7477	2024-10-29 14:12:00	0.2643
128	ST14	CCB	CCB		1.0000	0.0046	0.0107	2024-10-29 14:16:00	0.0046
129	ST15	D	DRIFT		1.0000	0.5872	1.6645	2024-10-29 14:19:00	0.5872
130	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 14:24:00	0.0008
131	ST14	B	MB		1.0000	0.0067	0.0168	2024-10-29 14:30:00	0.0067
132	ST13	LCS	LCS		1.0000	0.2607	0.7376	2024-10-29 14:32:00	0.2607
133	B9	U	480-224869-c-14		1.0000	0.0424	0.1180	2024-10-29 14:35:00	0.0424
134	B10	U	DU 480-224869-c-14		1.0000	0.0389	0.1081	2024-10-29 14:38:00	0.0389
135	B11	U	MS 480-224869-c-14		1.0000	0.1305	0.3679	2024-10-29 14:41:00	0.1305

DateTime :2024-10-29 15:39:46

11/04/2024

FlowAccessV3 Results Report

Run Name : TABUF20241029A0CN10292024A, Run Database Ref : TABUF20241029A0
DateTime :2024-10-29 06:55:57
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
136	B12	U	480-224869-c-15		1.0000	0.0161	0.0433	2024-10-29 14:44:00	0.0161
137	B13	U	480-224869-c-16		1.0000	0.2792	0.7902	2024-10-29 14:47:00	0.2792
138	B14	U	480-224869-c-17		1.0000	0.0576	0.1611	2024-10-29 14:51:00	0.0576
139	B15	U	480-224869-e-18		1.0000	0.0165	0.0444	2024-10-29 14:54:00	0.0165
140	B16	U	480-224869-c-25		1.0000	1.2077	3.4256	2024-10-29 14:57:00	1.2077
141	ST13	CCV	CCV		1.0000	0.4460	1.2634	2024-10-29 15:01:00	0.4460
142	ST14	CCB	CCB		1.0000	0.0182	0.0493	2024-10-29 15:04:00	0.0182
143	ST15	D	DRIFT		1.0000	0.5545	1.5717	2024-10-29 15:07:00	0.5545
144	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 15:11:00	0.0008
145	B17	U	480-224869-b-24		1.0000	0.0066	0.0163	2024-10-29 15:15:00	0.0066
146	B18	U	MS 480-224869-b-24		1.0000	0.1035	0.2913	2024-10-29 15:17:00	0.1035
147	B19	U	480-224887-f-1		1.0000	0.0023	0.0041	2024-10-29 15:21:00	0.0023
148	ST16	CCV	CCV		1.0000	0.2879	0.8148	2024-10-29 15:24:00	0.2879
149	ST17	CCB	CCB		1.0000	0.0047	0.0109	2024-10-29 15:27:00	0.0047
150	ST18	D	DRIFT		1.0000	0.0006	0.0008	2024-10-29 15:31:00	0.0006
151	WT	W	WASH		1.0000	0.0008	0.0000	2024-10-29 15:34:00	0.0008
152	E	E	EndRun		1.0000	0.0008	0.0000	2024-10-29 15:38:00	0.0008

Historical Data Summary Report

For Batch 730337

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits	
480-224756-E-2	HT-2	9012B_NP	Cyanide, Total	Total/NA	mg/L	5	1.0000	0.016	☑	0 - 0	☑	0 - 0	leachate
480-224793-D-10	MW-112	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-11	MW-113	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.019	☐	0 - 0.02	
480-224793-D-12	MW-114	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-13	MW-115	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-14	MW-116	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-2	MW-101	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-3	MW-102	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-4	MW-103	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-5	MW-104	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-6	MW-105	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-7	MW-106	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-8	MW-108	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224793-D-9	MW-111	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224794-G-1	Outfall 001	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224794-G-2	INFLUENT	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	0.20	☑	0 - 0.081	☑	0.012 - 0.084	OK
480-224799-C-1	US-06S	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	0.040	☐	0 - 0.052	☐	0.009 - 0.046	
480-224799-C-2	US-04S	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224799-C-3	DUP 02	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224799-C-4	W-06S	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224799-C-5	G-102	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0.013	☐	0 - 0.014	
480-224799-C-6	PZ-04U	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224799-C-7	PZ-03U	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224802-E-1	US-03D	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224802-E-2	US-04D	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224807-C-2	Leachate - GRAB	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	0.076	☐	0.033 - 0.079	☑	0.033 - 0.076	leachate
480-224842-L-1	L302	9012B_NP	Cyanide, Total	Total/NA	mg/L	5	1.0000	0.46	☑	0 - 0.11	☑	0 - 0.088	leachate
480-224842-L-2	L307	9012B_NP	Cyanide, Total	Total/NA	mg/L	1	1.0000	0.046	☑	0.042 - 0.042	☐	0.034 - 0.05	
480-224843-J-1	L303	9012B_NP	Cyanide, Total	Total/NA	mg/L	6	1.0000	0.0096	☑	0 - 0.009	☑	0 - 0.009	leachate
480-224843-J-2	L304	9012B_NP	Cyanide, Total	Total/NA	mg/L	5	1.0000	0.033	☑	0 - 0.024	☑	0 - 0.019	leachate
480-224846-G-1	Midway Tank Compc	335.4_NP	Cyanide, Total	Total/NA	mg/L	3	1.0000	0.042	☑	0 - 0.023	☑	0.003 - 0.005	leachate
480-224847-G-1	Settlers Hill Tank Co	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	0.017	☐	0 - 0.049	☐	0 - 0.043	
480-224848-E-1	US-01D	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224848-E-2	W-03D	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224848-E-3	PZ-07D	9012B_NP	Dissolved Cyanide	Dissolved	mg/L	2	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224850-D-1	DUP-1	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224850-D-2	SG-2	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224850-D-3	SG-3	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	
480-224850-D-4	MW-109	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0	

Historical Data Summary Report

For Batch 730337

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-224850-D-5	MW-110	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0

CT 10-30-24

730502

CN Solutions-Skalar:

Distillation Reagent:	**8137620**	**Exp: 11/29/2024**
Diluent	**8138050**	**Exp: 11/29//2024**
Sodium Dihydrogen Phosphate Buffer	**8137614**	**Exp: 11/29/2024**
Pyridine Barbituric Acid –color reagent	**8135877**	**Exp: 11/28/2024**
Chloramine-T Solution	**8124031**	**Exp: 11/22/2024**
Sodium hydroxide solution	**8137595**	**Exp: 11/29/2024**
Digestion reagent	**8113299**	**Exp: 11/17/2024**
1M Sodium Hydroxide	**8137597**	**Exp: 11/29/2024**
50ppm INT STD	**8135879**	**Exp: 11/04/2024**
CN.25ppm CCV/LCS Std	**8140152**	**Exp: 10/31/2024**
50ppm INT 2nd source STD	**8135880**	**Exp: 11/04/2024**
0.400mg/L HLCS	**8140153**	**Exp: 10/31/2024**
0.100 mg/L	**8140154**	**Exp: 10/31/2024**
0.01 mg/L CCVL	**8140155**	**Exp: 10/31/2024**
10ppm Complex-MS/MSD	**8135881**	**Exp: 11/04/2024**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Skalar : Daily
Curve Standard (50 ppm): 8135879
ICV (0.250 ppm): 8140156 Exp: 10/31/2024

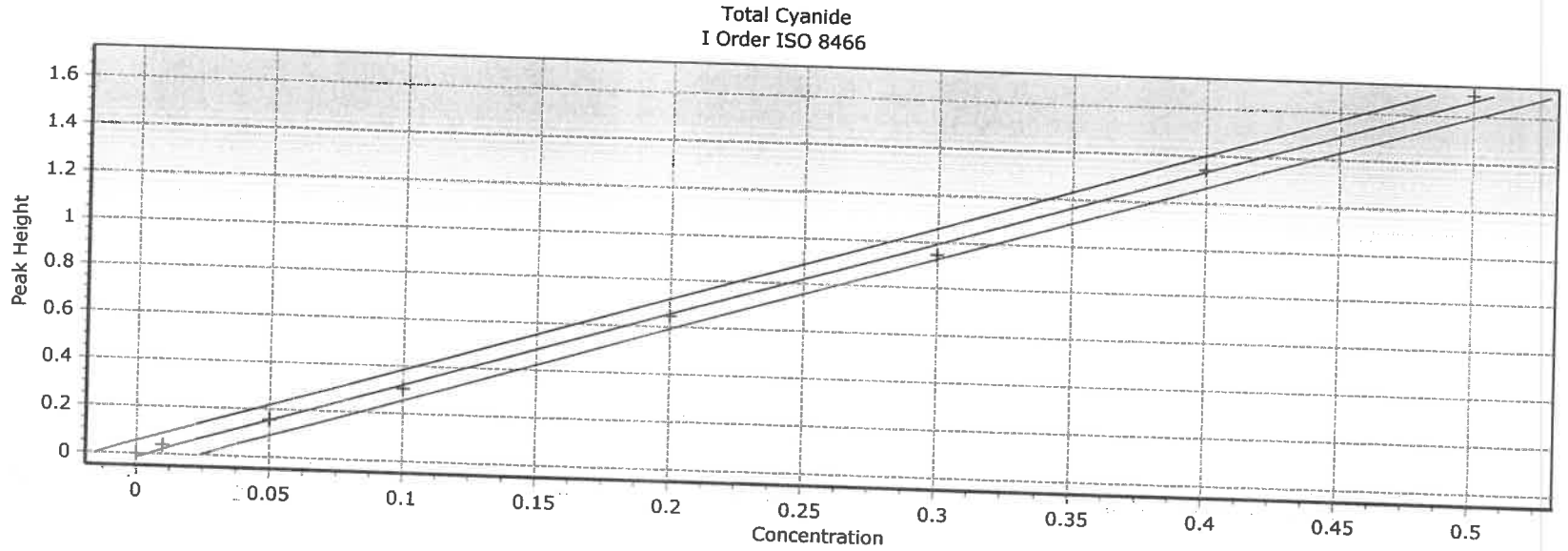
Test for sulfide in samples (Lead Acetate) **Lot number:** 02-05-2024
Tested with lead strips: CT
Test for oxidizers in samples (Potassium Iodine) **Lot number:** 05-10-2024
Tested with potassium Iodine strips: CT

CT 10-30-24

730502

FlowAccessV3

Date:2024-10-30 13:37:16



a = -0.01529795210152 b = 3.35778997583442 RSD = 0.02441263898302

r = 0.99936221187651 R2 = 0.99872483052670

Run Name : TABUF20241030A1CN10302024, Run Db Ref : TABUF20241030A1

User Name : Administrator Operator Name : Administrator

CT 10-30-24
730502

FlowAccessV3 Results Report

Run Name : TABUF20241030A1CN10302024A, Run Database Ref : TABUF20241030A1
DateTime :2024-10-30 06:51:40
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
1	IW	IW	InitialWash		1.0000	0.0046	0.0000	2024-10-30 07:05:00	0.0046
2	ST8	T	Tracer		1.0000	0.4562	1.5166	2024-10-30 07:09:00	0.4562
3	ST8	D	Drift		1.0000	0.4851	1.6137	2024-10-30 07:14:00	0.4851
4	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 07:18:00	0.0046
5	ST1	S1	0		1.0000	0.0045	0.0000	2024-10-30 07:22:00	0.0045
6	ST2	S2	0.01		1.0000	0.0146	0.0338	2024-10-30 07:24:00	0.0146
7	ST3	S3	0.05		1.0000	0.0510	0.1558	2024-10-30 07:28:00	0.0510
8	ST4	S4	0.1		1.0000	0.0957	0.3060	2024-10-30 07:31:00	0.0957
9	ST5	S5	0.2		1.0000	0.1972	0.6468	2024-10-30 07:34:00	0.1972
10	ST6	S6	0.3		1.0000	0.2865	0.9468	2024-10-30 07:38:00	0.2865
11	ST7	S7	0.4		1.0000	0.4029	1.3374	2024-10-30 07:41:00	0.4029
12	ST8	S8	0.5		1.0000	0.5076	1.6891	2024-10-30 07:44:00	0.5076
13	ST8	D	Drift		1.0000	0.4743	1.5772	2024-10-30 07:48:00	0.4743
14	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 07:51:00	0.0046
15	ST9	ICV	ICV		1.0000	0.2571	0.8481	2024-10-30 07:56:00	0.2571
16	ST1	ICB	ICB		1.0000	0.0057	0.0039	2024-10-30 07:58:00	0.0057
17	ST10	CCV	CCV		1.0000	0.2504	0.8253	2024-10-30 08:01:00	0.2504
18	ST11	CCB	CCB		1.0000	0.0053	0.0026	2024-10-30 08:04:00	0.0053
19	ST8	D	Drift		1.0000	0.4871	1.6201	2024-10-30 08:08:00	0.4871
20	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 08:11:00	0.0046
21	ST11	B	MB		1.0000	0.0047	0.0004	2024-10-30 08:16:00	0.0047
22	ST7	LCS	HLCS		1.0000	0.3752	1.2444	2024-10-30 08:18:00	0.3752
23	ST10	LCS	LCS		1.0000	0.2304	0.7582	2024-10-30 08:21:00	0.2304
24	ST2	CCV	CCVL		1.0000	0.0158	0.0377	2024-10-30 08:24:00	0.0158
25	A1	U	480-224869-c-14		1.0000	0.0418	0.1251	2024-10-30 08:28:00	0.0418
26	A2	U	MS 480-224869-c-14		1.0000	0.1245	0.4028	2024-10-30 08:31:00	0.1245
27	A3	U	480-224869-e-1	2ml⇒10ml	5.0000	1.6231	1.0747	2024-10-30 08:34:00	0.3246

DateTime :2024-10-30 13:38:01

11/04/2024

FlowAccessV3 Results Report

Run Name : TABUF20241030A1CN10302024A, Run Database Ref : TABUF20241030A1
DateTime :2024-10-30 06:51:40
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
28	A4	U	480-224869-e-3	2ml=10ml	5.0000	1.7916	1.1879	2024-10-30 08:38:00	0.3583
29	ST10	CCV	CCV		1.0000	0.2301	0.7573	2024-10-30 08:41:00	0.2301
30	ST11	CCB	CCB		1.0000	0.0060	0.0048	2024-10-30 08:45:00	0.0060
31	ST8	D	DRIFT		1.0000	0.5135	1.7090	2024-10-30 08:48:00	0.5135
32	WT	W	WASH		1.0000	0.0046	0.0000	2024-10-30 08:51:00	0.0046
33	A5	U	480-224869-c-15		1.0000	0.0192	0.0492	2024-10-30 08:56:00	0.0192
34	A6	U	DU 480-224869-c-15		1.0000	0.0177	0.0440	2024-10-30 08:58:00	0.0177
35	A7	U	MS 480-224869-c-15		1.0000	0.1053	0.3384	2024-10-30 09:01:00	0.1053
36	A8	U	480-224869-e-7		5.0000	1.1871	0.7819	2024-10-30 09:04:00	0.2374
37	A9	U	480-224869-e-9		2.0000	0.6238	1.0321	2024-10-30 09:08:00	0.3119
38	A10	U	480-224869-e-12		5.0000	1.4498	0.9583	2024-10-30 09:11:00	0.2900
39	A11	U	480-224869-c-16		1.0000	0.2624	0.8657	2024-10-30 09:14:00	0.2624
40	A12	U	480-224869-c-17		1.0000	0.0581	0.1798	2024-10-30 09:18:00	0.0581
41	A13	U	480-224869-e-18		1.0000	0.0197	0.0510	2024-10-30 09:21:00	0.0197
42	A14	U	480-224869-c-25	1ml=10ml	10.0000	10.1414	3.3900	2024-10-30 09:24:00	1.0141
43	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 09:28:00	0.0046
44	ST10	CCV	CCV		1.0000	0.2531	0.8347	2024-10-30 09:32:00	0.2531
45	ST11	CCB	CCB		1.0000	0.0078	0.0110	2024-10-30 09:34:00	0.0078
46	ST8	D	DRIFT		1.0000	0.4851	1.6135	2024-10-30 09:38:00	0.4851
47	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 09:41:00	0.0046
48	ST11	B	MB		1.0000	0.0091	0.0153	2024-10-30 09:46:00	0.0091
49	ST10	LCS	LCS		1.0000	0.2601	0.8582	2024-10-30 09:48:00	0.2601
50	A15	U	480-224869-b-24		1.0000	0.0075	0.0098	2024-10-30 09:51:00	0.0075
51	A16	U	MS 480-224869-b-24		1.0000	0.0929	0.2967	2024-10-30 09:55:00	0.0929
52	A17	U	480-224887-f-1		1.0000	0.0062	0.0054	2024-10-30 09:58:00	0.0062
53	A18	U	480-224896-c-2		1.0000	0.4573	1.5204	2024-10-30 10:01:00	0.4573
54	A19	U	480-224896-c-3		1.0000	0.1081	0.3476	2024-10-30 10:05:00	0.1081

DateTime :2024-10-30 13:38:01

Run Name : TABUF20241030A1CN10302024A, Run Database Ref : TABUF20241030A1
DateTime :2024-10-30 06:51:40
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
55	A20	U	480-224896-c-6		1.0000	0.0048	0.0009	2024-10-30 10:08:00	0.0048
56	A21	U	480-224896-c-7		1.0000	0.0041	-0.0014	2024-10-30 10:11:00	0.0041
57	A22	U	480-224914-d-2		1.0000	0.0044	-0.0004	2024-10-30 10:15:00	0.0044
58	ST10	CCV	CCV		1.0000	0.2443	0.8051	2024-10-30 10:18:00	0.2443
59	ST11	CCB	CCB		1.0000	0.0084	0.0130	2024-10-30 10:21:00	0.0084
60	ST12	D	DRIFT		1.0000	0.5521	1.8385	2024-10-30 10:24:00	0.5521
61	WT	W	WASH		1.0000	0.0046	0.0000	2024-10-30 10:28:00	0.0046
62	A23	U	480-224914-d-3		1.0000	0.0098	0.0176	2024-10-30 10:33:00	0.0098
63	A24	U	DU 480-224914-d-3		1.0000	0.0052	0.0022	2024-10-30 10:34:00	0.0052
64	A25	U	MS 480-224914-d-3		1.0000	0.0917	0.2925	2024-10-30 10:38:00	0.0917
65	A26	U	480-224914-d-4		1.0000	0.0065	0.0064	2024-10-30 10:41:00	0.0065
66	A27	U	480-224914-d-5		1.0000	0.0058	0.0040	2024-10-30 10:44:00	0.0058
67	A28	U	480-224914-d-6		1.0000	0.0051	0.0019	2024-10-30 10:48:00	0.0051
68	A29	U	480-224914-d-7		1.0000	0.0049	0.0011	2024-10-30 10:51:00	0.0049
69	A30	U	480-224914-d-8		1.0000	0.0047	0.0006	2024-10-30 10:54:00	0.0047
70	A31	U	480-224914-d-9		1.0000	0.0046	0.0001	2024-10-30 10:58:00	0.0046
71	A32	U	480-224914-d-11		1.0000	0.0050	0.0015	2024-10-30 11:01:00	0.0050
72	ST13	CCV	CCV		1.0000	0.2360	0.7771	2024-10-30 11:04:00	0.2360
73	ST14	CCB	CCB		1.0000	0.0085	0.0133	2024-10-30 11:08:00	0.0085
74	ST15	D	DRIFT		1.0000	0.5714	1.9034	2024-10-30 11:11:00	0.5714
75	WT	W	WASH		1.0000	0.0046	0.0000	2024-10-30 11:14:00	0.0046
76	ST14	B	MB		1.0000	0.0096	0.0171	2024-10-30 11:19:00	0.0096
77	ST13	LCS	LCS		1.0000	0.2500	0.8242	2024-10-30 11:21:00	0.2500
78	A33	U	480-224914-d-10		1.0000	0.0089	0.0144	2024-10-30 11:25:00	0.0089
79	A34	U	MS 480-224914-d-10		1.0000	0.0906	0.2889	2024-10-30 11:27:00	0.0906
80	A35	U	480-224914-d-12		1.0000	0.0067	0.0072	2024-10-30 11:31:00	0.0067
81	A36	U	480-224914-d-13		1.0000	0.0049	0.0013	2024-10-30 11:34:00	0.0049

FlowAccessV3 Results Report

Run Name : TABUF20241030A1CN10302024A, Run Database Ref : TABUF20241030A1
DateTime :2024-10-30 06:51:40
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
82	A37	U	480-224914-d-14		1.0000	0.0048	0.0008	2024-10-30 11:38:00	0.0048
83	A38	U	480-224914-d-15		1.0000	0.0051	0.0017	2024-10-30 11:41:00	0.0051
84	A39	U	480-224914-d-16		1.0000	0.0050	0.0014	2024-10-30 11:45:00	0.0050
85	A40	U	480-224914-d-17		1.0000	0.0046	0.0002	2024-10-30 11:48:00	0.0046
86	ST13	CCV	CCV		1.0000	0.2349	0.7734	2024-10-30 11:51:00	0.2349
87	ST14	CCB	CCB		1.0000	0.0090	0.0149	2024-10-30 11:55:00	0.0090
88	ST15	D	DRIFT		1.0000	0.5182	1.7245	2024-10-30 11:58:00	0.5182
89	WT	W	WASH		1.0000	0.0046	0.0000	2024-10-30 12:01:00	0.0046
90	A41	U	480-224915-e-1		1.0000	0.0111	0.0221	2024-10-30 12:06:00	0.0111
91	A42	U	DU 480-224915-e-1		1.0000	0.0056	0.0035	2024-10-30 12:08:00	0.0056
92	A43	U	MS 480-224915-e-1		1.0000	0.0861	0.2738	2024-10-30 12:11:00	0.0861
93	A44	U	480-224915-e-2		1.0000	0.0061	0.0052	2024-10-30 12:15:00	0.0061
94	A45	U	480-224915-e-3		1.0000	0.0077	0.0106	2024-10-30 12:18:00	0.0077
95	A46	U	480-224916-g-1		1.0000	0.0053	0.0027	2024-10-30 12:21:00	0.0053
96	A47	U	480-224916-g-2		1.0000	0.0052	0.0021	2024-10-30 12:25:00	0.0052
97	A48	U	480-224917-d-1		1.0000	0.0098	0.0175	2024-10-30 12:28:00	0.0098
98	A49	U	480-224869-c-25	400ml →10ml	25.0000	17.0704	2.2774	2024-10-30 12:31:00	0.6828
99	A50	U	480-224869-c-25	200ml →10ml	50.0000	16.8468	1.1161	2024-10-30 12:35:00	0.3369
100	ST13	CCV	CCV		1.0000	0.2335	0.7688	2024-10-30 12:38:00	0.2335
101	ST14	CCB	CCB		1.0000	0.0066	0.0069	2024-10-30 12:41:00	0.0066
102	ST15	D	DRIFT		1.0000	0.5607	1.8676	2024-10-30 12:45:00	0.5607
103	WT	W	WASH		1.0000	0.0046	0.0000	2024-10-30 12:48:00	0.0046
104	ST14	B	MB		1.0000	0.0068	0.0075	2024-10-30 12:53:00	0.0068
105	ST13	LCS	LCS		1.0000	0.2338	0.7698	2024-10-30 12:54:00	0.2338
106	A51	U	480-224949-d-1	2ml →10ml	5.0000	0.0309	0.0055	2024-10-30 12:58:00	0.0062
107	A52	U	DU 480-224949-d-1		5.0000	0.0279	0.0034	2024-10-30 13:01:00	0.0056
108	A53	U	MS 480-224949-d-1		5.0000	0.4250	0.2701	2024-10-30 13:05:00	0.0850

DateTime :2024-10-30 13:38:01

11/04/2024

FlowAccessV3 Results Report

Run Name : TABUF20241030A1CN10302024A, Run Database Ref : TABUF20241030A1
DateTime :2024-10-30 06:51:40
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Cyanide-Results[mg/l CN]	Total Cyanide-CorrectedHeight	Total Cyanide-PeakPickingTime	Total Cyanide-RawResults
109	A54	U	480-224949-d-1	5ml →10ml	2.0000	0.0202	0.0186	2024-10-30 13:08:00	0.0101
110	A55	U	480-224949-d-1		1.0000	0.0069	0.0079	2024-10-30 13:11:00	0.0069
111	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 13:15:00	0.0046
112	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 13:18:00	0.0046
113	ST13	CCV	CCV		1.0000	0.2410	0.7938	2024-10-30 13:22:00	0.2410
114	ST14	CCB	CCB		1.0000	0.0059	0.0045	2024-10-30 13:25:00	0.0059
115	ST15	D	Drift		1.0000	0.5207	1.7331	2024-10-30 13:28:00	0.5207
116	WT	W	Wash		1.0000	0.0046	0.0000	2024-10-30 13:31:00	0.0046
117	E	E	EndRun		1.0000	0.0046	0.0000	2024-10-30 13:36:00	0.0046

Historical Data Summary Report

For Batch 730502

10-30-24

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-224914-D-10	GZ-9A-88	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.025	☐	0 - 0.026
480-224914-D-11	MW-9R	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.012	☐	0 - 0.013
480-224914-D-12	MW-9S	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.018	☐	0 - 0.019
480-224914-D-13	PZ-28R	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-14	PZ-28S	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-15	PZ-32I	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-16	PZ-32R	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-17	PZ-32S	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-2	FIELD BLANK 1	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.017	☐	0 - 0.014
480-224914-D-3	FIELD DUP 1 (GW)	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.021	☐	0 - 0.017
480-224914-D-4	FIELD DUP 2 (GW)	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-5	CD-5-82	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.011	☐	0 - 0.012
480-224914-D-6	CD-5A-82	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-7	GZ-10-88	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.011	☐	0 - 0.012
480-224914-D-8	GZ-10A-88	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224914-D-9	GZ-9-88	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.021	☐	0 - 0.019
480-224915-E-2	LM-3-SW	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224915-E-3	SW-6	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224916-G-1	LEACHATE	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224916-G-2	DUP 1	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-224917-D-1	OFFICE WELL	335.4_NP	Cyanide, Total	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.016	☐	0 - 0.017

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730650 Batch Start Date: 10/30/24 21:36 Batch Analyst: Militello, Alex

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	NH3 CCV 02038	NH3_MSSeal 00016		
ICV 480-730650/1		350.1			2 mL	2 mL	# mL			
ICB 480-730650/2		350.1			2 mL	2 mL				
CCV 480-730650/63		350.1			2 mL	2 mL	# mL			
CCB 480-730650/64		350.1			2 mL	2 mL				
MB 480-730650/65		350.1			2 mL	2 mL				
LCS 480-730650/66		350.1			2 mL	2 mL	# mL			
CCV 480-730650/75		350.1			2 mL	2 mL	# mL			
CCB 480-730650/76		350.1			2 mL	2 mL				
CCV 480-730650/77		350.1			2 mL	2 mL	# mL			
CCB 480-730650/78		350.1			2 mL	2 mL				
480-224869-C-10	MW-BCP-13B-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-C-10 MS	MW-BCP-13B-1025 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-C-11	MW-BCP-24A-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-C-13	MW-BCP-19B-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-14	MW-BCP-22A-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-15	MW-BCP-25B-1025 2024	350.1	Water	T	2 mL	2 mL				
CCV 480-730650/85		350.1			2 mL	2 mL	# mL			
CCB 480-730650/86		350.1			2 mL	2 mL				
MB 480-730650/87		350.1			2 mL	2 mL				
LCS 480-730650/88		350.1			2 mL	2 mL	# mL			
480-224869-A-16	MW-BCP-23A-1025 2024	350.1	Water	T	2 mL	2 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730650 Batch Start Date: 10/30/24 21:36 Batch Analyst: Militello, Alex

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	NH3 CCV 02038	NH3_MSSeal 00016		
480-224869-A-16 MS	MW-BCP-23A-1025 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-A-16 MSD	MW-BCP-23A-1025 2024	350.1		T	2 mL	2 mL		40 uL		
CCV 480-730650/92		350.1			2 mL	2 mL	# mL			
CCB 480-730650/93		350.1			2 mL	2 mL				
ICV 480-730650/96		350.1			2 mL	2 mL	# mL			
ICB 480-730650/97		350.1			2 mL	2 mL				
CCV 480-730650/98		350.1			2 mL	2 mL	# mL			
CCB 480-730650/99		350.1			2 mL	2 mL				
MB 480-730650/100		350.1			2 mL	2 mL				
LCS 480-730650/101		350.1			2 mL	2 mL	# mL			
480-224869-C-12	MW-BCP-25A-1025 2024	350.1	Water	T	2 mL	2 mL				
CCV 480-730650/104		350.1			2 mL	2 mL	# mL			
CCB 480-730650/105		350.1			2 mL	2 mL				
ICV 480-730650/108		350.1			2 mL	2 mL	# mL			
ICB 480-730650/109		350.1			2 mL	2 mL				
CCV 480-730650/114		350.1			2 mL	2 mL	# mL			
CCB 480-730650/115		350.1			2 mL	2 mL				
MB 480-730650/116		350.1			2 mL	2 mL				
LCS 480-730650/117		350.1			2 mL	2 mL	# mL			
CCV 480-730650/118		350.1			2 mL	2 mL	# mL			
CCB 480-730650/119		350.1			2 mL	2 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730650 Batch Start Date: 10/30/24 21:36 Batch Analyst: Militello, Alex

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	NH3 CCV 02038	NH3_MSSeal 00016		
480-224869-C-1	MW-BCP-09A-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-2	MW-BCP-09B-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-C-3	MW-BCP-10A-1024 2024	350.1	Water	T	2 mL	2 mL				
CCV 480-730650/129		350.1			2 mL	2 mL	# mL			
CCB 480-730650/130		350.1			2 mL	2 mL				
MB 480-730650/131		350.1			2 mL	2 mL				
LCS 480-730650/132		350.1			2 mL	2 mL	# mL			
480-224869-A-4	MW-BCP-10C-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-4 MS	MW-BCP-10C-1024 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-A-4 MSD	MW-BCP-10C-1024 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-C-5	MW-BCP-11A-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-6	MW-BCP-11B-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-C-7	MW-BCP-12A-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-8	MW-BCP-12B-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-C-9	MW-BCP-13A-1025 2024	350.1	Water	T	2 mL	2 mL				
CCV 480-730650/141		350.1			2 mL	2 mL	# mL			
CCB 480-730650/142		350.1			2 mL	2 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730650 Batch Start Date: 10/30/24 21:36 Batch Analyst: Militello, Alex

Batch Method: 350.1 Batch End Date:

Batch Notes	
Sodium Nitroprusside ID	8094597
Hypochlorite ID	7927334
Sodium Phenolate ID	8140007
EDTA Buffer ID	8094596
Carrier Identification	sulfuric carrier

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730651 Batch Start Date: 10/31/24 00:18 Batch Analyst: Militello, Alex

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	NH3 CCV 02038	NH3_MSSeal 00016		
ICV 480-730651/1		350.1			2 mL	2 mL	# mL			
ICB 480-730651/2		350.1			2 mL	2 mL				
CCV 480-730651/3		350.1			2 mL	2 mL	# mL			
CCB 480-730651/4		350.1			2 mL	2 mL				
MB 480-730651/5		350.1			2 mL	2 mL				
LCS 480-730651/6		350.1			2 mL	2 mL	# mL			
480-224869-A-17	MW-BCP-24B-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-17 MS	MW-BCP-24B-1025 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-A-17 MSD	MW-BCP-24B-1025 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-C-18	MW-BCP-21A-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-20	MW-BCP-20A-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-21	MW-BCP-20B-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-22	MW-BCP-17A-1024 2024	350.1	Water	T	2 mL	2 mL				
CCV 480-730651/14		350.1			2 mL	2 mL	# mL			
CCB 480-730651/15		350.1			2 mL	2 mL				
480-224869-A-23	MW-BCP-21C-1025 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-23 MS	MW-BCP-21C-1025 2024	350.1		T	2 mL	2 mL		40 uL		
480-224869-A-24	MW-BCP-17B-1024 2024	350.1	Water	T	2 mL	2 mL				
480-224869-A-25	MW-BCP-27A-1025 2024	350.1	Water	T	2 mL	2 mL				
CCV 480-730651/22		350.1			2 mL	2 mL	# mL			
CCB 480-730651/23		350.1			2 mL	2 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730651 Batch Start Date: 10/31/24 00:18 Batch Analyst: Militello, Alex

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	NH3 CCV 02038	NH3_MSSeal 00016		
ICV 480-730651/57		350.1			2 mL	2 mL	# mL			
ICB 480-730651/58		350.1			2 mL	2 mL				
CCV 480-730651/59		350.1			2 mL	2 mL	# mL			
CCB 480-730651/60		350.1			2 mL	2 mL				
MB 480-730651/61		350.1			2 mL	2 mL				
LCS 480-730651/62		350.1			2 mL	2 mL	# mL			
480-224869-C-19	MW-BCP-19A-10252024	350.1	Water	T	2 mL	2 mL				
CCV 480-730651/64		350.1			2 mL	2 mL	# mL			
CCB 480-730651/65		350.1			2 mL	2 mL				

Batch Notes	
Sodium Nitroprusside ID	8094597
Hypochlorite ID	7927334
Sodium Phenolate ID	8140007
EDTA Buffer ID	8094596
Carrier Identification	sulfuric carrier

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730337 Batch Start Date: 10/29/24 07:09 Batch Analyst: Thomas, Christine L

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	WC_CN 0.400 00299	WC_CN CCV/LCS 00521	WC_CN ICV 00296	
ICV 480-730337/15		9012B			10 mL	10 mL			# mL	
ICB 480-730337/16		9012B			10 mL	10 mL				
CCV 480-730337/17		9012B			10 mL	10 mL		# mL		
CCB 480-730337/18		9012B			10 mL	10 mL				
HLCS 480-730337/22		9012B			10 mL	10 mL	# mL			
CCV 480-730337/29		9012B			10 mL	10 mL		# mL		
CCB 480-730337/30		9012B			10 mL	10 mL				
CCV 480-730337/99		9012B			10 mL	10 mL		# mL		
CCB 480-730337/100		9012B			10 mL	10 mL				
MB 480-730337/103		9012B			10 mL	10 mL				
LCS 480-730337/104		9012B			10 mL	10 mL		# mL		
CCV 480-730337/113		9012B			10 mL	10 mL		# mL		
CCB 480-730337/114		9012B			10 mL	10 mL				
480-224869-E-5	MW-BCP-11A-1024 2024	9012B	Water	T	10 mL	10 mL				
480-224869-E-10	MW-BCP-13B-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-E-11	MW-BCP-24A-1025 2024	9012B	Water	T	10 mL	10 mL				
CCV 480-730337/127		9012B			10 mL	10 mL		# mL		
CCB 480-730337/128		9012B			10 mL	10 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730337 Batch Start Date: 10/29/24 07:09 Batch Analyst: Thomas, Christine L

Batch Method: 9012B 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730502 Batch Start Date: 10/30/24 07:05 Batch Analyst: Thomas, Christine L

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	10ppm CN MS 00450	WC_CN 0.400 00300	WC_CN CCV/LCS 00523	WC_CN ICV 00297
ICV 480-730502/15		9012B			10 mL	10 mL				# mL
ICB 480-730502/16		9012B			10 mL	10 mL				
CCV 480-730502/17		9012B			10 mL	10 mL			# mL	
CCB 480-730502/18		9012B			10 mL	10 mL				
MB 480-730502/21		9012B			10 mL	10 mL				
HLCS 480-730502/22		9012B			10 mL	10 mL		# mL		
LCS 480-730502/23		9012B			10 mL	10 mL			# mL	
480-224869-C-14	MW-BCP-22A-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-C-14 MS	MW-BCP-22A-1025 2024	9012B		T	10 mL	10 mL	100 uL			
480-224869-E-1	MW-BCP-09A-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-E-3	MW-BCP-10A-1024 2024	9012B	Water	T	10 mL	10 mL				
CCV 480-730502/29		9012B			10 mL	10 mL			# mL	
CCB 480-730502/30		9012B			10 mL	10 mL				
480-224869-C-15	MW-BCP-25B-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-C-15 DU	MW-BCP-25B-1025 2024	9012B		T	10 mL	10 mL				
480-224869-C-15 MS	MW-BCP-25B-1025 2024	9012B		T	10 mL	10 mL	100 uL			
480-224869-E-7	MW-BCP-12A-1024 2024	9012B	Water	T	10 mL	10 mL				
480-224869-E-9	MW-BCP-13A-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-E-12	MW-BCP-25A-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-C-16	MW-BCP-23A-1025 2024	9012B	Water	T	10 mL	10 mL				
480-224869-C-17	MW-BCP-24B-1025 2024	9012B	Water	T	10 mL	10 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730502 Batch Start Date: 10/30/24 07:05 Batch Analyst: Thomas, Christine L

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	10ppm CN MS 00450	WC_CN 0.400 00300	WC_CN CCV/LCS 00523	WC_CN ICV 00297
480-224869-E-18	MW-BCP-21A-1025 2024	9012B	Water	T	10 mL	10 mL				
CCV 480-730502/44		9012B			10 mL	10 mL			# mL	
CCB 480-730502/45		9012B			10 mL	10 mL				
MB 480-730502/48		9012B			10 mL	10 mL				
LCS 480-730502/49		9012B			10 mL	10 mL			# mL	
480-224869-B-24	MW-BCP-17B-1024 2024	9012B	Water	T	10 mL	10 mL				
480-224869-B-24 MS	MW-BCP-17B-1024 2024	9012B		T	10 mL	10 mL	100 uL			
CCV 480-730502/58		9012B			10 mL	10 mL			# mL	
CCB 480-730502/59		9012B			10 mL	10 mL				
CCV 480-730502/72		9012B			10 mL	10 mL			# mL	
CCB 480-730502/73		9012B			10 mL	10 mL				
MB 480-730502/76		9012B			10 mL	10 mL				
LCS 480-730502/77		9012B			10 mL	10 mL			# mL	
CCV 480-730502/86		9012B			10 mL	10 mL			# mL	
CCB 480-730502/87		9012B			10 mL	10 mL				
480-224869-C-25	MW-BCP-27A-1025 2024	9012B	Water	T	10 mL	10 mL				
CCV 480-730502/100		9012B			10 mL	10 mL			# mL	
CCB 480-730502/101		9012B			10 mL	10 mL				

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224869-1

SDG No.:

Batch Number: 730502 Batch Start Date: 10/30/24 07:05 Batch Analyst: Thomas, Christine L

Batch Method: 9012B 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.

Shipping and Receiving Documents

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Austin OARE	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-199914-41224.3
Client Contact: Mr. Austin Oare	Phone: 716-553-5129	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: ~~Page 3 of 18~~ 1 of 3
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): Standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: austin.oare@inventumeng.com / Peter.Zaffram@inventumeng.com	WO #:			
Project Name: Ammonia SCO	Project #: 48028091			
Site: 3875 River Road	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
N - None
D - HNO3
S - H2SO4

Other:

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~82600 - (MOD) TCL Hot OLM04.2~~ Ammonia (350.1)	~~8270D (MOD) TCL~~ VOCs (8260C TCL)	~~9014 - NP - Local Method~~ SVOCs (8270D TCL)	~~7470A - Local Method~~ Total Cyanide (9012B)	~~350.1 - (MOD) Local Method~~ Total Mercury (7470A)	~~8081 - (MOD) Local Method~~	~~7470, 9012B, 9030B, Moisture~~	Total Number of containers
			Preservation Code:				A	B	N	D	S	N	N	
MW-BCP-09A-10252024	10/25/24	16:30	G	Water			X	X	X	X	X			
MW-BCP-09B-10242024	10/24/24	2:25	G	Water			X							
MW-BCP-10A-10242024	10/24/24	10:40	G	Water			X	X	X	X	X			
MW-BCP-10C-10242024	10/24/24	10:55	G	Water			X							
MW-BCP-11A-10242024	10/24/24	11:35	G	Water			X	X	X	X	X			
MW-BCP-11B-10242024	10/24/24	2:00	G	Water			X							
MW-BCP-12A-10242024	10/24/24	3:15	G	Water			X	X	X	X	X			
MW-BCP-12B-10242024	10/24/24	3:10	G	Water			X							
MW-BCP-13A-10252024	10/25/24	8:50	G	Water			X	X	X	X	X			
MW-BCP-13B-10252024	10/25/24	9:10	G	Water			X	X	X	X	X			
MW-BCP-24A-10252024	10/25/24	9:35	G	Water			X	X	X	X	X			

480-224869 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 10/25/24 1630	Company: TW	Received by:	Date/Time: 10/25/24 1630	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.4 3.7 IR #5 ICE

Ver: 05/06/2024

11/04/2024

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Austin Oare	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-199914-41224.4
Client Contact: Mr. Austin Oare	Phone: (716) 553-5129	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: NY	Page: ~~4 of 10~~ 2 of 3
Company: Inventum Engineering LLC	PWSID:			Job #:
Address: 441 Carlisle Drive Suite C	Due Date Requested:			
City: Herndon	TAT Requested (days): standard			
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No			
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required			
Email: austin.oare@inventumeng.com	WO #:			
Project Name: Ammonia SCO	Project #: 48028091			
Site: 3875 River Rd.	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
N - None
D - HNO3
S - H2SO4

Other:

John.Black@Inventumeng.com
Peter.Zaffram@inventumeng.com

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~8260C - (MOD) TCL list OLM04.2~~	Ammonia (350.1)	~~9012B_NP - Local Method~~	VOCs (8260C TCL)	~~8270D - (MOD) TCL SVOA - OLM04.2~~	SVOCs (8270D TCL)	~~7420A - Local Method~~	Total Cyanide (9012B)	~~350.1 - (MOD) Local Method~~	Total Mercury (7470A)	~~7474B_9012B_9045D_Moisture~~	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	B	N	D	S	N	N						
MW-BCP-25A-10252024	10/25/24	2:05	G	Water			X	X	X	X	X								
MW-BCP-19B-10252024	10/25/24	9:55	G	Water			X	X	X		X								
MW-BCP-22A-10252024	10/25/24	11:30	G	Water			X			X	X								
MW-BCP-25B-10252024	10/25/24	2:15	G	Water			X			X	X								
MW-BCP-23A-10252024	10/25/24	11:45	G	Water			X			X	X								
MW-BCP-24B-10252024	10/25/24	1:20	G	Water			X			X	X								
MW-BCP-21A-10252024	10/25/24	11:00	G	Water			X	X	X	X	X								
MW-BCP-19A-10252024	10/25/24	9:40	G	Water			X	X	X		X								
MW-BCP-20A-10252024	10/25/24	10:20	G	Water			X												
MW-BCP-20B-10252024	10/25/24	10:35	G	Water			X												
MW-BCP-17A-10252024	10/24/24	3:00	G	Water			X												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/25/24 1630	IW			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/25/24 1630	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

11/04/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Austin Oare	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-199914-41224.5
Client Contact: Mr. Austin Oare	Phone: (716) 553-5129	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: NY	Page: Page ~~5 of 10~~ 3 of 3
Company: Inventum Engineering LLC	PWSID:			Job #:

Address: 441 Carlisle Drive Suite C	Due Date Requested:	Analysis Requested	Preservation Codes: A - HCL; B - NaOH; N - None; D - HNO3; S - H2SO4
City: Herndon	TAT Requested (days): Standard		
State, Zip: VA, 20170	Compliance Project: Δ Yes Δ No		
Phone: 518-844-5745(Tel)	PO #: Purchase Order not required		
Email: austin.oare@inventumeng.com	WO #:		
Project Name: Ammonia SCO	Project #: 48028091		
Site: 3875 River Rd.	SSOW#:		Other:

John.Black@Inventum eng.com
Peter.Zaffram@ Inventumeng.com

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~8260B (MOD) TCL list OLM04.2~~ Ammonia (350.1)	~~9012B_NP Local Method~~ TOC's (9260 TCL)	~~8270D (MOD) TCL SVOA_OLM04.2~~ SVOC's (8270 TCL)	~~7470A Local Method~~ Total Cyanide (9012 B)	~~350.1 (MOD) Local Method~~ Total Mercury (7470A)	~~350.1 (MOD) Local Method~~	~~7474B, 90125, 90450~~ Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	B	N	D	S	N	N		
MW-BCP-21C-10252024	10/25/24	11:20	G	Water			X								
MW-BCP-17B-10242024	10/24/24	8:40	G	Water			X			X					
MW-BCP-27A-10252024	10/24/24	2:30	G	Water			X			X	X				
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:		Date/Time: 10/25/24 1695	Company: Inv	Received by:		Date/Time: 10/25/24 1630	Company: EA
Relinquished by:		Date/Time:	Company	Received by:		Date/Time:	Company
Relinquished by:		Date/Time:	Company	Received by:		Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 480-224869-1

Login Number: 224869
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

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	4.4, 3.7 IR#SC ice
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	Inventum Engineering
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	